



An Coimisiún um
Rialáil Cumarsáide
Commission for
Communications Regulation

Assessment of eir's 2015-2016 Universal Service Fund Application

Assessment of the net cost and unfair burden
for the period 2015-2016

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Reference:

Consultation and Draft Determination
ComReg 21/17

Version:

Final

Date:

12/03/2021

Additional Information

All responses to this consultation should be clearly marked:

“Reference: Submission re ComReg 21/17” as indicated above, and sent by post, facsimile, e-mail or online at www.comreg.ie (current consultations), see Section 10 for next steps on submitting comments.

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
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Redacted Information

Please note that this Consultation and Draft Determination document and accompanying consultants' reports are non-confidential versions. Certain information has been redacted for reasons of confidentiality and commercial sensitivity, with such redactions indicated by the symbol “”.

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Glossary of key terms (A to Z)¹

“calculated direct net cost” means the final direct net cost figure allowable for an individual USO model, or the total calculated direct net cost, as the context requires.

“2016 Copper Access Model (Revised copper access model (CAM))” means the model, as amended from time to time (subject to approval by ComReg), used by ComReg and eir. The model calculates costs based on both Top-Down HCA and BU-LRAIC+ costing methodologies. The operation and details of the Revised Copper Access Model are more particularly described in Chapter 5 of ComReg Decision D03/16.

“direct net cost” of USO is the difference between the avoidable costs attributable to the provision of the USO (both direct and indirect), minus revenues (both direct and indirect) attributable to the provision of the USO, before the deduction of intangible benefits which accrue to the USP by virtue of being the USP.

“2015-2016 USO funding application” is eir's USO funding application for the financial year 2015-2016 submitted to ComReg in March 2017.

“Frontier Direct Net Cost Report” is the report prepared by Frontier (eir's consultants) outlining eir's calculations and methodology for the direct net cost for the financial year 2015-2016, March 2017.

“Frontier Intangible Benefits Report” is the report prepared by Frontier (eir's consultants) outlining eir's calculations and methodology for the intangible benefits for the financial year 2015-2016, as submitted to ComReg in March 2017.

“L/N methodology” L means the line length of the access line (i.e. the length between the MDF and the section where the access line is starting beyond 3km); and N means the number of lines sharing the same assets (i.e. for each line it is the number of access lines going through the section where the line is starting).

“MDF area” means a geographic area as described by the Market Distribution Frame map.

“net cost” is calculated as the difference between the 'direct net cost' and the intangible benefits which accrue to the USP, by virtue of being the USP.

“Oxera Intangible Benefits Report” refers to the report prepared by Oxera entitled “Assessment of eir's calculation of intangible benefits for 2015-2016” and is included as **Annex 3** of this consultation.

¹ Other terms and abbreviations used in this report have the same meaning as those listed in the Glossary of D04/11.

“Preliminary ComReg methodology” refers to the preliminary methodology developed by TERA in March 2017 setting out the manner in which the 2016 CAM could be applied to the Customer Model of eir's 2015-2016 USO funding application².

“Proposed ComReg methodology” refers to the proposed methodology developed by TERA in December 2019 setting out the manner in which the 2016 CAM should be applied to the Customer Model of eir's 2015-2016 USO funding application³.

“TERA Report” refers to the report prepared by TERA entitled “Assessment of eir's USO funding application – direct net cost 2015-2016” and is included as **Annex 2** of this consultation.

“Unfair Burden Report 2015-2016”, refers to the report prepared by Oxera entitled “Unfair burden report 2015-2016” and is included as **Annex 4** of this consultation.

“USO model” refers to the USO direct net cost model underpinning eir's USO funding applications to ComReg as a whole, including all calculations, data, spreadsheets, the model summary and the individual net cost models (Area, Customer, Payphone, Directories, and Disabled End Users' Services). These individual direct net cost models may be referred to cumulatively as “USO models”.

² Set out in ComReg's email to eir dated 21/3/17 file name “Tutorial: Using the bottom-up model for the USO net cost estimation” January 2017 Ref: 2016-62-ML-ComReg– USO 2014-2016.

³ Set out in ComReg letters to eir dated (1) 24th December 2019 (Annex 1) and (2) 1st May 2020 (Annex 1).

1 Executive summary

1. The Universal Service Regulations⁴ provide that where an undertaking (a Universal Service Provider, or “USP”) is designated as having an obligation (a Universal Service Obligation, or “USO”) to provide a universal service, it may submit to the Commission for Communications Regulation (“ComReg”) a written request to receive funding for the net costs of meeting the USO. ComReg is then required to determine, based on a net cost calculation, whether the cost of meeting the USO represents an unfair burden on the USP.
2. eir, as the designated USP, may submit applications for USO funding in accordance with ComReg’s exant Decision D04/11⁵ (“D04/11”). D04/11 sets out how the USP, should they so choose, is to make an application, including how the net cost (after intangible benefits) is to be calculated, and sets out principles and methodologies to apply to ComReg’s assessment as to whether a positive net cost associated with meeting the USO provision, if any, represents an unfair burden on the USP.
3. The funding application being assessed in this document was submitted by eir on 31 March 2017 (in respect of the 2015-2016 financial year⁶) in which eir claimed a positive net cost of €12,861,430 (eir’s “2015-2016 USO funding application”).
4. ComReg’s assessment of eir’s 2015-2016 USO funding application assessed the application for completeness, relevance and accuracy of data submitted and sought to ascertain whether it adhered to the principles and methodologies set out in D04/11. The approach set out in D04/11 with respect to the assessment and the subsequent determination of whether a resulting positive net cost (if any) constitutes an unfair burden, falls under the following headline areas:
 - The assessment of the principles and methodologies for calculating the USO direct net cost; Section 5 of this document;
 - Principles and methodologies for calculating the intangible benefits arising from the provision of USO services; Section 7 of this document; and
 - Approach to determination of an unfair burden; Section 8 of this document.
5. It is for eir to ensure that it has taken the necessary steps in advance of submitting any application for funding, to ensure compliance with its obligations under the Regulations and D04/11. eir’s obligations include the requirement to have the relevant USO direct net cost models underpinning eir’s USO funding applications to ComReg as a whole, including all calculations, data,

⁴ The European Communities (Electronic Communications Networks and Services) (Universal Service and User’s Rights) Regulations 2011.

⁵ ComReg Document 11/42, D04/11 “*Decision on the Costing of universal service obligations: Principles and Methodologies*”, 31 May 2011.

⁶ eir’s financial year runs from 1 July to 30 June.

spreadsheets, the model summary and the individual net cost models (Area, Customer, Payphone, Directories, and Disabled End Users' Services) in place. The responsibility for the development of a new Customer Model based on the 2016 Copper Access Model resides with the USP, eir, in particular where it seeks to exercise its right to submit USO funding applications.

6. On receipt of a request ComReg must publicly consult on any application for funding received with all interested parties to ensure both transparency and that ComReg has before it all relevant information before progressing its decision making.
7. The assessment methodology set out in D04/11 is an extant legally binding requirement on both the USP and ComReg. ComReg is obliged to apply the decision in proceeding with its assessment of the 2015 – 2016 USO funding application. While eir has appealed ComReg's assessments of unfair burden made for previous years⁷ and that appeal is still pending, decision D04/11 has not been stayed by a court.
8. It is important to provide certainty to stakeholders about the scale of the net cost claimed by eir and hence the potential scale of industry contribution if it were found to be an unfair burden. ComReg therefore has adopted preliminary views on the 2015 – 2016 USO funding application, based on the methodology laid out in D04/11. These views cover both the net cost assessment and the unfair burden assessment.

Assessment of the principles and methodologies for calculating the USO direct net cost

9. ComReg engaged external consultants, TERA Consultants ("TERA") to advise ComReg on the methodology and calculations used in the direct net cost element of eir's funding application, and to review these against the direct net cost principles, methodologies and calculations in D04/11. The report prepared by TERA is entitled "**Assessment of eir's USO funding application – direct net cost 2015-2016**" and is included as Annex 2 of this document (the "**TERA Report**").
10. ComReg is of the preliminary view that, subject to ComReg's adjustments to eir's direct net cost calculation, including a downward adjustment to eir's calculation

⁷ 2010-2015 USO funding application decisions: D05/19 "Assessment of eir's 2010-2011 Universal Service Fund Application Assessment of the net cost and unfair burden for the period 2010-2011"; D06/19 "Assessment of eir's 2011-2012 Universal Service Fund Application Assessment of the net cost and unfair burden for the period 2011-2012"; D07/19 "Assessment of eir's 2012-2013 Universal Service Fund Application Assessment of the net cost and unfair burden for the period 2012-2013"; D08/19 "Assessment of eir's 2013-2014 Universal Service Fund Application Assessment of the net cost and unfair burden for the period 2013-2014"; D09/19 "Assessment of eir's 2014-2015 Universal Service Fund Application Assessment of the net cost and unfair burden for the period 2014-2015".

of the direct net cost in both the Customer Model and in Payphone Model, eir's application can be considered fit for purpose.

11. The downward adjustment to eir's calculation of the direct net cost in the Customer Model is due to the incorrect mixed use by eir of the 2009 Copper Access Model (the "2009 CAM") and the 2016 Copper Access Model (the "2016 CAM") which creates an inconsistency in the cost avoidability and cost allocation assumptions used in the USO models and which affects the accuracy of the net cost calculation in eir's 2015-2016 USO funding application. Further information on this proposed adjustment and the engagement that has taken place with eir in respect of same is outlined in section 2 below.
12. The total net cost of the adjusted Customer Model (i.e. uneconomic customers in economic areas) has been calculated at €6,289,628 (as compared to the figure of €11,970,982 claimed by eir in its 2015-2016 USO funding application as submitted to ComReg) and therefore ComReg's preliminary view is that a downward adjustment of €5,681,354 to the Customer Model is required.
13. Additionally, further adjustments were required to ensure that the Payphone Model net cost calculation included (1) only net costs for payphones required under the payphone USO; and (2) to ensure that the marketing revenue for these payphones was included in the calculation of the net cost.

Principles and methodologies for calculating the intangible benefits arising from the provision of USO services

14. Separately, ComReg commissioned Oxera Consulting Ltd ("Oxera") to undertake a review and provide its view on eir's approach and estimates of the intangible benefits generated through the provision of the USO. The report prepared by Oxera is entitled "Assessment of eir's calculation of intangible benefits for 2015-2016" and is included as **Annex 3** of this document (the "**Oxera Intangible Benefits Report**").
15. **Figure 1** below summarises eir's net cost estimate (including intangible benefits), the adjustments proposed by ComReg and its consultants to eir's 2015-2016 USO funding application and ComReg's preliminary view of the positive net cost.

USO Net Cost 2015-2016		2015-2016	ComReg Adjustment	2015-2016 ComReg's Preliminary View
		eir's USO funding application	€	€
Direct net cost (a)	Uneconomic Areas	€444,959	€0	€444,959
	Uneconomic Customers	€11,970,982	-€5,681,354	€6,289,628
	Directories	€680,000	€0	€680,000
	Public Payphones	€383,260	-€360,331	€22,929
	Services for disabled end users	€16,336	€0	€16,336
	Consultancy fees*	€239,380	-€239,380	€0
	Direct net cost**	€13,734,917	-€6,281,065	€7,453,853
Intangible benefits (b)	Enhanced brand recognition	€739,171	-	€739,171
	Life-cycle	€15,885	(€15,885)	€0
	Ubiquity	€11,716	(€116)	€11,600
	Marketing	€106,715	(€105,023)	€1,692
	Total intangible benefits	€873,487	-€121,024	€752,463
Net cost (after intangible benefits)		€12,861,430	(€6,402,089)	€6,701,390

* ComReg is of the preliminary view that consultancy fees are not a part of the net cost having regard to D04/11 and the provisions of the Universal Service Directive and the Universal Service Regulations (as more fully set out in Section 6).
** Rounding to zero decimal places

Figure 1: adjustments made by ComReg to eir's 2015-2016 USO funding application and, ComReg's preliminary view of the positive net cost.

Approach to determination of an unfair burden

16. To assess whether any positive net cost represents an unfair burden on eir, ComReg engaged expert consultants Oxera to apply the relevant decisions in D04/11 and to provide expert advice as to whether the net cost of €12,861,430 claimed in eir's 2015-2016 USO funding application represented an unfair burden on eir. The resulting further Oxera report is entitled the "Unfair Burden Report 2015-2016" and is included as **Annex 4** of this document (the "**Unfair Burden Report 2015- 2016**").
17. In light of the above consultants' reports, ComReg has assessed eir's 2015- 2016 USO funding application in line with the principles and methodologies prescribed in D04/11. ComReg has adopted preliminary views on the funding application that cover both the net cost assessment and the unfair burden assessment ComReg is of the preliminary view that the positive net cost does not represent

an unfair burden on eir.

18. Transparency and consultation are essential for ComReg to progress its decision making as far as possible and ComReg welcomes responses from all stakeholders to the questions set out in this consultation (and in **Annex 1**). ComReg will review and fully take into account all responses it receives and, will proceed giving due consideration to the legal context.

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2 The application under assessment

19. On 31 March 2017, ComReg received eir's 2015-2016 USO funding application seeking funding for the provision of the USO during eir's financial year 2015-2016. eir claimed a net cost of €12.86M for this period, after taking account of intangible benefits of €0.87M.
20. That application included a USO model and two reports prepared by Frontier Economics Ltd. ("**Frontier**"), whom eir engaged to assist in the preparation of its funding application. One Frontier report outlined eir's methodology and calculations for the direct net cost (the "**Frontier Direct Net Cost Report**") and the other report outlined an estimate of the intangible benefits to eir arising from its provision of the USO during 2015/2016 (the "**Frontier Intangible Benefits Report**").
21. For the purpose of supporting its application, and in adherence with Decision 22 of D04/11 which requires that "*financial information shall be provided with an appropriate audit opinion or appropriate report*", eir also engaged PricewaterhouseCoopers (PwC). ComReg entered into a tripartite engagement with eir and PwC to formulate a set of specific verification procedures to be performed on eir's application, known as the Agreed upon Procedures ("AUPs").⁸ These procedures are for the purposes of verifying the accuracy of information and include checks on calculations used in eir's USO model, reconciliations of eir's cost and revenue inputs back to its source workbooks and a reconciliation of the USO model against eir's historical cost accounting (HCA) regulatory accounts.
22. On 18 May 2020 PwC provided a report to eir and ComReg setting out their specific findings arising from the AUPs carried out in respect of eir's application (referred to as the "**AUP Report**"). ComReg and TERA have reviewed the AUP Report as part of the assessment process.
23. Between 2017 and 2021 ComReg engaged with eir in respect of its 2015-2016 USO funding application and the net cost calculation set out therein. As part of that process ComReg and its consultants, TERA and Oxera, reviewed and sought clarifications from eir on the USO model and supporting information submitted by eir. eir engaged Frontier to assist it with responding to these requests. A summary of this engagement is set out below.

⁸ PwC's AUP engagement letter notes that the AUP services are "performed in accordance with the International Standard on Related Services 4400 "*Engagements to perform Agreed Upon Procedures Regarding Financial Information*" and that "the services will not constitute an audit or a review carried out in accordance with generally accepted auditing standards."

24. On 21 March 2017, in advance of eir submitting its 2015-2016 USO funding application, ComReg requested that for all future funding applications (to include eir's 2015-2016 USO funding application) eir would use the 2016 CAM to prepare its funding applications. Prior to this eir's funding applications had been prepared using the 2009 CAM, however the 2016 CAM uses more precise geographical data than the 2009 CAM and facilitates more accurate cost allocation. ComReg shared a preliminary methodology (the 'preliminary TERA methodology')⁹ to demonstrate how the 2016 CAM could be used by eir for the calculation of the Customer Model. eir stated that it had insufficient time to amend its application to reflect the sole use of the 2016 CAM prior to the submission deadline.
25. On 31 March 2017 eir submitted its 2015-2016 USO Funding Application, which applied both the 2009 CAM and 2016 CAM to the calculation of the Customer Model. The accompanying 2015-2016 USO funding application overview document explicitly referenced:
- (1) ComReg's proposed change to the methodology¹⁰ and;
- (2) stated that, "with ComReg's prior agreement, this change had not been made, as part of this application."
- eir also stated that, following ComReg's review of eir's application, if "modifications were required eir would submit a revised application within a timeline to be agreed with ComReg"¹¹.
26. eir's 2015-2016 USO funding application uses both the 2009 CAM and 2016 CAM to assess the cost avoidability and cost allocation assumptions used in the calculation of the Customer Model.
27. The 2009 CAM identifies and classifies discrete geographic areas as either "housing areas" or "isolated housing areas". The 2016 CAM (which uses more granular geographical data) identifies and classifies discrete geographical areas as either "urban areas" or "rural areas".
28. eir uses the 2009 CAM to calculate the level of cost avoidability of CAPEX within 'isolated areas' (based on the financial year 2013-2014)
29. eir uses the 2016 CAM cost allocation assumptions (based on the financial year 2015-2016) stating that

⁹ ComReg correspondence to eir of 21 March 2017.

¹⁰ 'preliminary TERA methodology'.

¹¹ eir [REDACTED].

- “urban areas” (2016 CAM) are a good proxy of “housing areas” (2009 CAM); and that “rural areas” (2016 CAM) are a good proxy of “isolated areas” (2009 CAM).
30. Based on these assumptions, eir uses the 2016 CAM to produce the cost avoidability inputs to:
- the border of the ‘housing area, and:
 - the split of costs (CAPEX) between ‘housing areas’ and ‘isolated areas.’
31. The discrete geographic “housing areas” identified in the 2009 CAM are not the same as, equal to, or directly substitutable with the discrete geographic “urban areas” identified in the 2016 CAM. Similarly, the discrete geographic “isolated areas” identified in the 2009 CAM are not the same as, equal to, or directly substitutable with the discrete geographic “rural areas” identified the 2016 CAM.
32. ComReg and TERA are therefore of the view that eir’s mixed use of the 2009 CAM and the 2016 CAM in this manner is incorrect as it creates an inconsistency in the cost avoidability and cost allocation assumptions used in the USO models, which affects the accuracy of the net cost calculation in eir’s 2015-2016 USO funding application.
33. As it uses more precise geographical data than the 2009 CAM and facilitates more accurate cost allocation, ComReg is of the view that 2016 CAM is the appropriate CAM to be used in eir’s 2015-2016 USO funding application.
34. Between January and March 2018, ComReg and eir had several clarification meetings in relation to eir’s 2015-2016 USO funding application and eir’s 2016-2017 USO funding application which was due to be submitted by 31 July 2018. While a number of items were discussed at these meetings the main discussions related to eir’s mixed use of the 2009 CAM and the 2016 CAM, and the preliminary TERA methodology which ComReg had originally shared with eir in March 2017. ComReg understood¹² that eir agreed that the approach that was to be agreed upon for the 2016-2017 funding application would also be applied to the 2015- 2016 USO funding application, which eir would then resubmit to ComReg not later than 31 August 2018.

¹² eir correspondence to ComReg (6/12/2017) [redacted]

35. On 30 January 2018 ComReg and eir, with their respective advisors TERA and Frontier Economics, discussed the need for a new methodology for calculating the allocation of avoidable costs within the Customer Model, which would involve a full assessment of those exchange areas eir claimed were uneconomic or included uneconomic customers. TERA presented the preliminary TERA methodology which provided an outline as to the manner in which the 2016 CAM could be applied by eir to the Customer Model of eir's 2015-2016 USO funding application.
36. On 9 February 2018 eir informed ComReg that it required 11 weeks to model the avoidable costs in the Customer Model for its 2016-2017 USO funding application, using a new (undefined) methodology. On 7 March 2018 ComReg asked eir to present its early view of its methodology and associated rationale before proceeding with the production and testing of data.
37. On 23 March 2018 eir presented to ComReg and TERA its proposed avoidable costs modelling principles and methodologies in respect of the Customer Model¹³ which would apply to both its 2016-2017 USO funding application and its re-submission of its 2015-2016 USO funding application. eir stated that the preliminary TERA methodology was a valid starting point but pointed to some areas for development. eir said that it had used the preliminary TERA methodology as the basis for its proposal but had aimed to build on the areas it had identified as requiring further development. At the conclusion of this meeting eir advised ComReg that it would not be engaging further with ComReg in respect of its proposed approach prior to submission of its 2016- 2017 USO funding application and, following this, eir did not engage further.
38. On 24 April 2018 ComReg informed eir that it would not be in a position to confirm its agreement to eir's proposed methodology on the basis of the presentation made at the meeting of 23 March, in circumstances where ComReg had raised a number of questions and sought certain clarifications at the meeting.¹⁴ ComReg expressed its view that the preliminary TERA methodology, with some additional adjustments (details of which were provided), was the most appropriate and accurate methodological approach to the calculation of cost avoidability. ComReg informed eir that any methodology it implemented may not be fit for purpose.

¹³ eir presentation "USO funding claims proposed methodology for calculating cost avoidability in the Customer Model" 23/3/218".

¹⁴ ComReg email to eir 24 April 2018.

39. No subsequent applications for funding were received from eir and eir did not resubmit its 2015-2016 USO funding application. Therefore, in order to progress the assessment of eir's 2015-2016 USO funding application, which requires ComReg to verify eir's net cost calculation, ComReg instructed TERA to propose a methodology (the "proposed ComReg methodology") based on the sole use of the 2016 CAM, that could be used to apply a proportionate adjustment to the calculation of the cost avoidability in the Customer Model of eir's 2015-2016 USO funding application.
40. The proposed ComReg methodology used to apply a proportionate adjustment to the calculation of the net cost (pre-intangibles) is set out in detail in section 7 of the TERA Report.
41. In developing the methodology, ComReg instructed TERA to take into account the areas of development that eir had identified in respect of the preliminary TERA methodology. It did so by:
- using a factor of 6 to distinguish between underground and overhead network; and
 - using 3km as the boundary to differentiate between isolated areas and "higher density"/more built up areas;
42. The proposed ComReg methodology identifies "urban/high density areas" using the "distance from the exchange" (boundary) methodology, where the boundary is defined as 3km from the exchange. This is consistent with a proxy boundary approach which has been used previously by ComReg for similar wholesale access products and component products.¹⁵ The proposed ComReg methodology then applies a refined 'line length divided by the number of lines' (L/N) methodology for access lines beyond 3km.
43. On 24 December 2019 ComReg wrote to eir outlining its position on the mixed use of the 2009 CAM and the 2016 CAM in eir's 2015-2016 USO funding application. ComReg informed eir that it proposed to apply the proposed ComReg methodology and outlined that this would result in a proposed downwards adjustment to eir's 2015-2016 Customer Model in the amount of €5,681,354.
44. ComReg invited eir to review the proposed ComReg methodology and the proposed adjustment to eir's 2015-2016 USO funding application and to revert with any comments by no later than 13 January 2020.

¹⁵ For example in developing wholesale broadband pricing models where VDSL specific local loop unbundling (LLU) and sub-loop unbundling (SLU) cost inputs have been defined, where the maximum line length is now set at 1.5 km for SLU (from 2.5km) and for 3kms for LLU (from 5km) (ComReg Decision D11/18).

45. On 2 January 2020 eir wrote to ComReg requesting access to the detailed Customer Model calculations which ComReg provided on 1 May 2020, without prejudice to its position that eir already had sufficient information to allow it to review the proposed adjustment.
46. On 5 June 2020 eir wrote to ComReg (“eir’s submissions”) stating that it did not agree with ComReg’s proposed methodology and that eir’s calculation of uneconomic customers has been accepted by ComReg in previous applications and in eir’s view it continues to be appropriate and consistent with ComReg D04/11. In summary eir’s submissions stated, amongst other things, that ComReg’s proposed methodology:
- is not supported by the requirements of D04/11 (specifically Decisions 12; 14; 15 and 25);
 - is “crude and unbalanced..one-size fits all approach¹⁶”;
 - lacks transparency as the documentation provided by ComReg does not show how the implementation of 3km boundary has impacted the cost curves; and accordingly, does not allow eir to check the effect of the proposed changes on the cost curves).
47. ComReg and its adviser TERA reviewed eir’s comments and, having done so, remain of the preliminary view that the proposed adjustment is appropriate and necessary. ComReg responded to eir’s comments by letter dated 8 March 2021 and advised that it would now proceed to publish its consultation in respect of the 2015-2016 USO funding application, in which it would apply the proposed adjustment.
48. ComReg is of the view that its proposed methodology applies the best objective granularity currently available, absent of building a new Customer Model, based solely on the use of the 2016 CAM. In relation to the points raised in eir’s submissions, ComReg responds as follows:
- As regards compliance with the decisions of D04/11, the responsibility for the development of a new Customer Model based on the 2016 CAM resides with the USP, eir, as part of its USO funding application. Accordingly, it would be inappropriate for ComReg to develop a new Customer Model to support eir’s 2015-2016 USO funding application.
 - ComReg is of the view that its methodology is a reasonable proxy to reflect the reality of eir’s network and is aligned with approaches previously adopted

¹⁶ eir state that “there are many ([]) premises served by “Rural Network” within 3 km of the MDF and excluding these will exclude costly customers that are in fact uneconomic. That there are almost [] premises served by “Urban Network” outside the 3km limit from the MDF but the inclusion of these generally occurs in exchanges where the bulk of the network is urban with low unit costs per premise served”.

by ComReg for costing similar wholesale access products and component products.

- eir provides no clear or reasoned basis for the assertions made in eir's submissions. For instance, eir states that ComReg's proposal is crude because there are [redacted] premises within 3km of the MDF which are served by rural network and [redacted] premises beyond 3km boundary of the MDF which are served by urban network. eir has not provided any underlying rationale or basis for these numbers. Equally, eir refers to "samples" it has investigated but provides no detail in relation to these samples or the results of same, rather makes a bare assertion that ComReg's methodology underestimates the number of uneconomic customers. ComReg disagrees that its methodology materially underestimates the number of uneconomic customers. Furthermore, ComReg notes the lack of any alternative proposal from eir in circumstances where ComReg has since 2018 made clear its position that the methodology employed by eir in the 2015-2016 Application is incorrect.
- ComReg disagrees with eir's statement that the documentation with which it has been provided does not allow eir to check the effects on the cost curves of the change proposed.
- ComReg's advisors TERA have confirmed that, in their view, eir has been provided with sufficient information to review the Proposed Adjustment and that eir could itself implement the L/N approach (with the distance threshold for unavoidable costs as a parameter) and generate the relevant cost curves to allow it to carry out its own calculations on its model, allowing eir to carry out sensitivity analysis on how the implementation of 3km boundary has impacted the cost curves.

49. ComReg is of the preliminary view that a downward adjustment of €5,681,354 to Customer Model element of the direct net cost claimed in eir's 2015- 2016 USO funding application is necessary. The total net cost of the adjusted Customer Model (i.e. uneconomic customers in economic areas) has been calculated at €6,289,628 (as compared to the figure of €11,970,982 claimed by eir in its 2015-2016 USO funding application as submitted to ComReg).

50. ComReg is of the preliminary view that, subject to ComReg's adjustments (to reflect the sole use of the 2016 CAM in the Customer Model, and the Payphone Model adjustment), eir's application is fit for purpose.¹⁷

¹⁷ Decision 20 of D04/11 requires that the USO funding application is fit for purpose.

51. Figure 1 above sets out the USO net costs claimed by eir as part of its 2015-2016 USO funding application.

2.1 Other funding applications received

52. ComReg has also received funding applications from eir in respect of the financial years 2010/11, 2011/12, 2012/13, 2013/14 and 2014/15. ComReg has informed industry of the receipt of all of these applications by way of a number of Information Notices and has also kept industry updated as to the timing for decisions on each of these applications.¹⁸ ComReg has finalised its assessment of each of these applications on a case by case basis. ComReg has consulted on each application individually in accordance with the process set out in Information Notice ComReg 17/48. ComReg's Decisions on the assessments of eir's USO funding applications in respect of the above financial years were published in conjunction with a consolidated response to consultation document on 17 April 2019¹⁹.
53. ComReg has not received USO funding applications from eir in respect of the financial years 2016/17²⁰, 2017/18²¹ and 2018/19.

¹⁸ For example, ComReg Information Notices 14/117, 15/32, 16/37, 16/68, 17/32 and 17/48.

¹⁹ ComReg Document No. 19/36, 19/37, 19/38, 19/39, 19/40, 19/41 and 19/42

²⁰ ComReg Information Notice (No. 18/76), published 24 August 2018.

²¹ ComReg Information Notice (No. 19/34), published 9 April 2019.

3 Statutory and regulatory context for the assessment of eir's application

54. Pursuant to ComReg's powers under Regulation 7 of the Universal Service Regulations and Article 8 of the Universal Service Directive,²² ComReg, by way of ComReg Decision D10/14, designated eir as the USP to provide certain telecommunications services, known as the USO, for the period 7 July 2014 to 31 December 2015.²³ and the designation was extended to 30 June 2016 by ComReg Decision D10/15²⁴. The universal service obligations imposed on the USP are to ensure basic fixed line telephone and other minimum telecommunications services, such as public payphones and printed directory services, are available to end-users at an affordable price.
55. The provision of the USO may result in the USP(s) providing designated services at a positive net cost. In accordance with Regulation 11(1) of the Universal Service Regulations, where a USP seeks to receive funding for the net costs of meeting the USO, it may submit to ComReg a written request for such funding. ComReg is obliged to assess such a request and to verify the accuracy of the net cost claimed.
56. Schedule 2, Part A of the Universal Service Regulations states that:
- "In undertaking a calculation exercise, the net cost of universal service obligations is to be calculated as the difference between the net cost for a designated undertaking of operating with the universal service obligations and operating without the universal service obligations."*
57. Schedule 2, Part A also states that:
- "Due attention is to be given to correctly assessing the costs that any designated undertaking would have chosen to avoid had there been no universal service obligation. The net cost calculation should assess the benefits, including intangible benefits, to the universal service operator."*

²² Directive 2002/22/EC of the European Parliament and the Council of 7 March 2002 on universal service and users' rights relating to electronic communications networks and services (as amended by Directive 2009/136/EC).

²³ ComReg Decision 10/14 "Provision of telephony services under the Universal Service Obligation – Access at a Fixed Location" [published 7 July 2014].

²⁴ ComReg Decision 10/15 "Universal Service Obligation Provision of access at a fixed location" [published 31 December 2015].

58. In D04/11, ComReg set out the principles and methodologies to be applied to the calculation of the net cost and to the subsequent determination by ComReg of whether a resulting positive net cost (if any) constitutes an unfair burden on the USP.
59. D04/11 also sets out more general requirements in terms of content of the application and timelines that the USP must comply with in respect of the submission of the application to ComReg.
60. Whilst D04/11 set out the principles and methodologies for calculating the overall net cost, it specifically envisaged that ComReg would assess each application for funding on a case by case basis and on its own merits.
61. Decisions 1 to 37 of D04/11 set out the basis for calculating the direct net cost and the intangible benefits associated with being the USP and must be adhered to in any assessment of eir's funding applications.
62. Decisions 38 to 42 of D04/11 set out the general and objective criteria by which ComReg will assess whether a positive net cost, in the particular year of application, may be considered an unfair burden on the USP.
63. These D04/11 decisions were established having regard to the European Court of Justice (CJEU) decision in *Base & Others v Ministerraad*²⁵ (the "Base case"). In particular, at paragraph 45 of the Base case, the CJEU confirmed that national regulatory authorities have significant discretion in relation to how they determine whether there is an unfair burden:
- "...it falls to the national regulatory authority to lay down general and objective criteria which make it possible to determine the thresholds beyond which ...a burden may be regarded as unfair."*
64. In setting out Decisions 38 to 42, ComReg also had regard to the criteria set out in paragraph 42 and 43 of the *Base case*, which state:
- "(42) In those circumstances, the **unfair burden which must be found to exist by the national regulatory authority before any compensation is paid is a burden which, for each undertaking concerned, is excessive in view of the undertaking's ability to bear it, account being taken of all the undertaking's own characteristics, in particular the quality of its equipment, its economic and financial situation and its market share.**"*
- "(43) ..the authority cannot find that the burden of providing universal service is unfair...**unless it carries out an individual assessment of the situation of each undertaking concerned in the light of those criteria.**"*

²⁵ Case C-389/08 *Base & Others v Ministerraad*.

65. If ComReg finds that the net cost of providing the USO is an unfair burden on the USP, then in accordance with Regulations 12 (1) and (2) of the Universal Service Regulations²⁶, ComReg will establish a sharing mechanism to apportion the net cost of the USO among providers of electronic communications networks and services.
66. Regulation 12 (2) of the Universal Services Regulation stipulates that only the net cost of services within the scope of the USP's universal service designation may be financed. Regulation 12 (2) states:
- “(2) The Regulator shall establish a sharing mechanism administered by it or a body independent from the designated undertaking, which body shall be under the supervision of the Regulator. Only the net cost, as determined in accordance with Regulation 11, of the obligations provided for in Regulation 3, 4, 5, 6, 8 or 9 may be financed.”*
67. Following ComReg's calculation of the net cost and its completion of the unfair burden assessment, ComReg is required to make publicly available the results of the net cost calculations and the conclusions of any audit or verification undertaken in relation to the net cost calculation.²⁷

²⁶ Regulation 12 transposes Article 13 (Financing of universal services obligations) of the Universal Services Directive into Irish law; Recitals 21 to 24 of the Universal Services Directive also govern the financing of universal service obligations.

²⁷ Regulation 11(8) of the Universal Service Regulations.

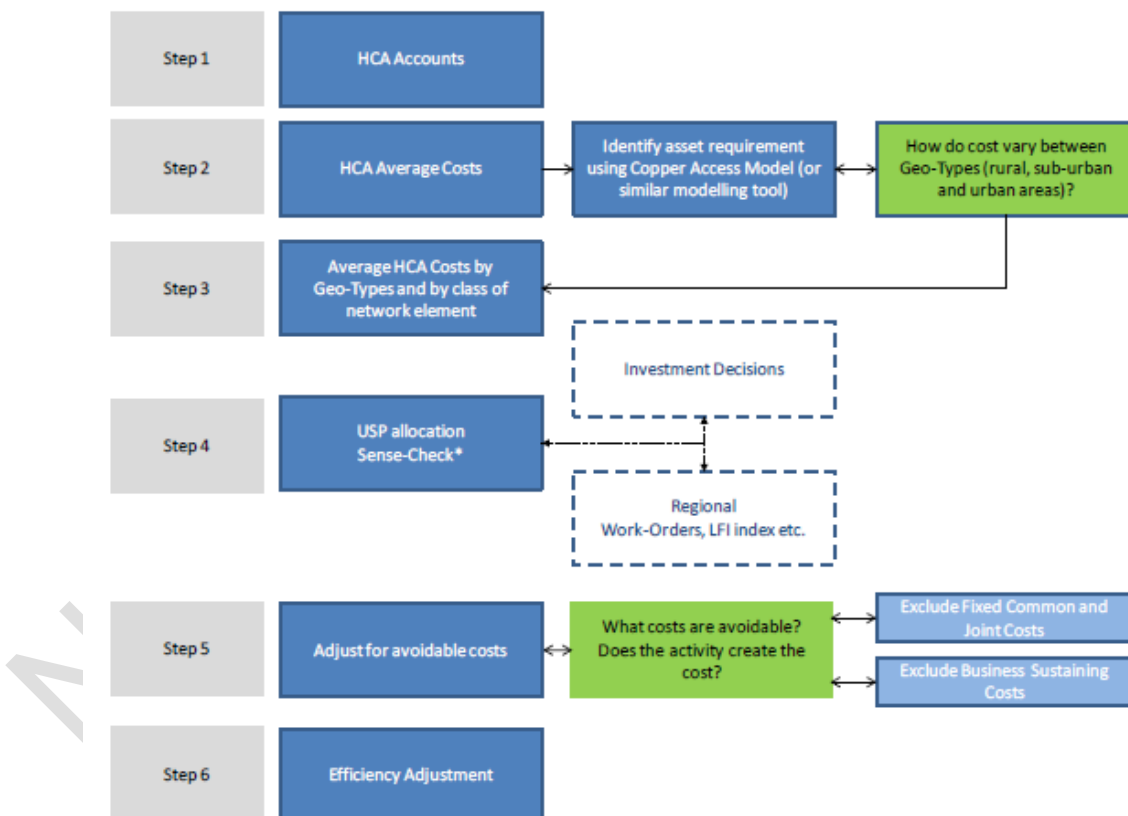
4 Overview of assessment process

68. ComReg's assessment of eir's application for funding seeks to ascertain whether eir, in making its application, adhered to the principles and methodologies established by D04/11.

69. D04/11 sets out principles and methodologies under the below heading areas:

- Principles and methodologies for calculating the USO direct net cost;
- Principles and methodologies for calculating the intangible benefits arising from the provision of USO services; and
- Approach to a determination of an unfair burden.

70. **Figure 2** provides an overview of the approach set out in D04/11 with respect to the calculation of the net cost and the assessment and subsequent determination of whether a resulting positive net cost (if any) constitutes an unfair burden.



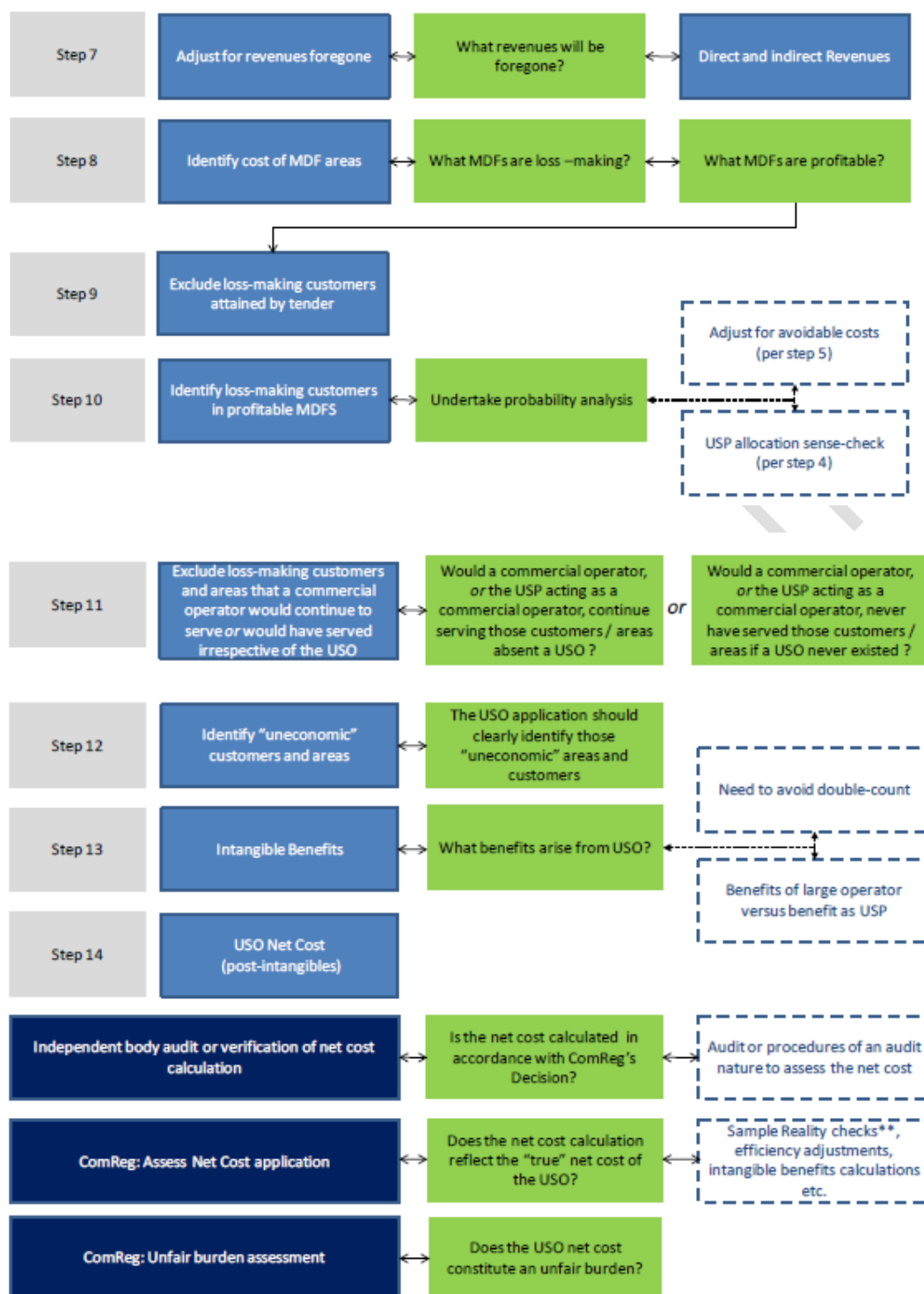


Figure 2: Overview of net cost calculation and unfair burden assessment methodology

Source: ComReg (2011), "Report on Consultation and Decision on the costing of universal service obligations: Principles and Methodologies", 31 May 2011

71. eir's application for USO funding, assessed by reference to the above D04/11 framework, is summarised in this consultation document and more fully detailed in ComReg's consultants' reports (at **Annex 2, 3, and 4**).

72. eir's 2015-2016 USO funding application included two Frontier reports submitted in March 2017; (i) a report outlining eir's methodology and calculations for the direct net cost in 2015-2016; (referred to as the "Frontier Direct Net Cost Report"), and (ii) a report outlining estimates of the intangible benefits to eir arising from its provision of the USO in 2015-2016 (the "Frontier Intangible Benefits Report").

4.1 Overview of D04/11

73. Figure 3 below sets out the key areas of D04/11 and the associated decisions.

D04/11	
CALCULATING THE USO NET COSTS AND REVENUES	
Costing Methodology	Decision 1
Avoidable Costs	Decision 2
USO Revenue Calculation	Decisions 3 - 7 ²⁸
Efficiency Adjustments	Decision 9
Cost Identification and Allocation	Decisions 8, 10 - 15
Cost Identification and Allocation: Uneconomic Payphones and Other USO Costs	Decisions 16 - 18
Format and content of the USO Funding Applications	Decisions 19 -31
Timing of Funding Applications	Decision 32 -34
CALCULATING THE BENEFITS OF THE USO	
Identification of the Benefits	Decisions 35 – 36
Methodologies and Data Requirements for Calculating Benefits	Decision 37
UNFAIR BURDEN	
Determining if there is an unfair burden	Decisions 38 – 42

Figure 3: D04/11 Key areas and associated decisions

74. Requirements in respect of the format, content and timing of USO funding applications and eir's compliance thereto are outlined in Figures 4 and 5 below.

²⁸ D04/11, within the "Calculating USO net costs and revenues" heading, presented Decision 8 as falling under "USO revenue calculation". As Decision 8 refers to the treatment of avoidable costs, for the purposes of this consultation, it has been considered within section 5.2.2 (Cost Data).

75. A summary of TERA's assessment of the calculation of the USO direct net costs and revenues and ComReg's preliminary view on this is outlined in Section 5 of this consultation. A summary of Oxera's assessment of the calculation of the benefits of the USO and ComReg's preliminary view on this is outlined in Section 7, and ComReg's preliminary determination as to whether there is an unfair burden is outlined in Section 8 of this consultation.

4.1.1 Format and content of eir's 2015-2016 USO funding application - compliance with D04/11

76. The below table sets out decisions in D04/11 regarding the format and content of any funding application and accompanying information to be submitted to ComReg, and eir's compliance with those decisions (see Figure 4).

77. As eir's compliance with the format and content requirements set out in Decisions 25, 27 and 29 of D04/11 are closely related to TERA's assessment of the direct net cost, eir's compliance with these decisions is not addressed in the Figure 4 table but rather in Section 5 of this consultation.

D04/11	ComReg's Preliminary View
Decision 19	USO funding applications shall be consistent and in accordance with this Decision and Decision Instrument²⁹.
	ComReg is of the view, on the basis of the assessment and review undertaken by both TERA and Oxera, that eir's 2015-2016 USO funding application is consistent and in accordance with Decision D04/11.
Decision 20	USO funding applications shall be fit for purpose.
	ComReg is of the view, on the basis of the assessment and review undertaken by both TERA and Oxera and subject to ComReg's adjustment (to reflect the sole use of the 2016 CAM to address the inaccurate and incorrect mixed use of the 2009 and 2016 CAM by eir, and the adjustment to the payphone model), that eir's 2015-2016 USO funding application was fit for purpose.
Decision 21	USO funding applications shall be based on annual information which coincides with the USP's financial year.
	ComReg confirms that eir's 2015-2016 USO funding application is based on annual information that coincides with the USP's financial year.

²⁹ D04/11.

Decision 22	A declaration shall be signed off by the Board of Directors of the USP and it must accompany the application. (The required declaration is included in Schedule 1). Financial information shall be provided with an appropriate audit opinion or appropriate report, where the Auditor³⁰ (as approved by ComReg) has in no way assisted with the preparation of the USO funding application.
	ComReg confirms that an independent declaration, signed off by the Board of Directors of eir, accompanying the application, was provided. Agreed Upon Procedures (AUPs), based on terms of engagement approved by ComReg, were undertaken by PwC to satisfy this requirement and an AUP report prepared by PwC was provided to ComReg.
Decision 23	USO funding applications shall be supported by calculations in an MS Excel, or MS Access format, or alternative software which is reasonably capable of proper access and review.
	ComReg confirms, on the basis of the assessment and review undertaken by both TERA and Oxera, that eir's 2015-2016 USO funding application was supported by calculations in software which is reasonably capable of proper access and review.
Decision 24	Any models submitted in support of a USO funding application shall be transparent: there must be limited hard-coded cells (where cells are hard-coded a supporting reference document of such numbers must be provided and be capable of being reconciled and audited) and all numbers must be set out so that there is an audit trail present. The models submitted shall be set out in a clear and transparent manner, showing the separate calculations for each component (e.g. uneconomic areas, uneconomic customers, the provision of public pay telephones and specific services for disabled users). The calculations supplied must clearly set out the capital costs, operating costs, overheads, etc. (including General and Administration – (“G&A”) costs) and the methods adopted for the allocation of costs which are not directly related to the provision of the USO. Where uneconomic lines/areas are identified, the works orders associated with those areas for the year of assessment must be available upon request by the Auditor as supporting documentation for the USO application.
	ComReg is of the view, on the basis of the assessment and review undertaken by both TERA and Oxera, that eir's 2015-2016 USO funding application and supporting USO models were adequately clear and transparent with the exception of eir's mixed use of the 2009 CAM and 2016 CAM, and sought to fulfil the requirements of Decision 24. Notwithstanding the adjustment ComReg had to make to the Customer Model (as set out at paragraphs [87-122]), the USO models included calculations and the underlying methodology for calculating the costs of each USO service.
Decision 26	There may be a requirement to make certain key data / workings publicly available and the USO funding application is deemed to be made by the USP on this understanding.

³⁰ Where an Auditor can refer to a person, corporation sole, a body corporate, and an unincorporated body.

	In publishing any key data / workings related to eir's 2015-2016 USO funding application, ComReg will consider issues of transparency and the confidentiality of certain information, having regard to relevant statutory provisions and ComReg's Guidelines on the Treatment of Confidential Information - ComReg 05/24.
Decision 28	The model provided shall be supported by comprehensive documentation, clearly setting out and explaining all inputs (both financial and otherwise), efficiency adjustments applied, engineering rules applied, cost allocation methodologies employed, depreciation methodologies applied, and assumptions made.
	ComReg is of the view, on the basis of the assessment and review undertaken by both TERA and Oxera, that eir's 2015-2016 USO funding application and financial models were adequately supported by comprehensive documentation, with the exceptions of the matter of eir's mixed use of the 2009 CAM and 2016 CAM, and payphone model.
Decision 30	USP funding applications shall, where applicable, accord with ComReg Decision No. D07/10 in relation to accounting separation.
	ComReg is of the view, on the basis of the assessment and review undertaken by TERA, that eir's 2015-2016 USO funding application is in accordance with ComReg Decision No. D07/10 in relation to accounting separation.
Decision 31	The calculation of the benefits of the USO shall be completed by an external expert, independent of the USP. These calculations must clearly set out: the respective methodologies; assumptions and supporting documentation used at deriving the benefits of the USO. These calculations must provide: (a) the benefit (in monetary terms) that the USP derives as a commercial operator; (b) the benefit (in monetary terms) that the USP derives as a result of the USO; and (c) a reconciliation with reasoning to explain the incremental difference between (a) and (b).
	ComReg confirms, on the basis of the assessment and review undertaken by Oxera, that eir has provided reports prepared by external experts, Frontier, for the purposes of calculating the benefits of the USO. The reports clearly sets out the necessary calculations, methodologies and assumptions applied in calculating the benefits the USP derives as a result of the USO.

Figure 4: Format of eir's 2015-2016 USO Funding application

4.1.2 Timing of eir's 2015-2016 USO funding application - compliance with D04/11³¹

D04/11 ComReg's Preliminary View	
Decision 33	Subsequent requests for USO funding by a USP(s) may be submitted to ComReg in respect of a relevant financial year. If a USP intends to submit such a request to ComReg, the USP(s) shall do so no later than 9 months following the end of the financial year in respect of which the request is intended to be made. ComReg may extend this deadline, but only where it considers that there are exceptional reasons for doing so.
	No extension was sought for the submission of this 2015-2016 USO funding application.

Figure 5: Timing of eir's 2015-2016 USO funding application

³¹ Decision 32 and 34 of D04/11 are not applicable to the 2015-2016 USO funding application. Decision 32 relates specifically to the 2009-2010 USO funding application and is no longer applicable. Decision 34 revoked ComReg Document No. 07/39.

5 Approach to calculating the direct net cost

78. This section sets out ComReg's preliminary view on the direct net cost calculation (Figure 6).
79. The TERA Report, published as part of this consultation at **Annex 2**, is structured as follows:
- Section 3 summarises the methodological approach taken by TERA to assess the direct net cost.
 - Sections 4 and 5 presents an analysis of the revenue and cost data.
 - Section 6 – 10 presents a review of eir's 2015-2016 USO funding application USO model against the principles and methodologies set out in D04/11.
 - Section 11 presents an analysis of any overlap between the direct net cost and the intangible benefits
80. In order to estimate the direct net cost arising from the provision of USO services for the application period in question, as required by the principles and methodologies of D04/11, eir compared the avoidable costs and foregone revenues arising as a result of its USP status for the 2015-2016 financial period to the counterfactual scenario, where the provision of USO services to uneconomic customers would not otherwise have been served by a commercial operator. In other words, the direct net cost, as calculated equates to the difference between the avoidable costs attributable to the provision of the USO (both direct and indirect) minus the revenues (both direct and indirect) attributable to the provision of USO services.
81. eir calculated the direct net cost by using the following five USO models:
1. Area Model – uneconomic areas
 2. Customer Model – uneconomic customers in economic areas
 3. Payphone Model
 4. Directories Model
 5. Disabled End Users' Services Model
82. In accordance with D04/11, eir's input data for the purposes of the models consists of two broad categories:
1. Foregone revenue

2. Avoidable costs

83. eir's direct net cost estimate, adjustments made by ComReg and its consultants to eir's 2015-2016 USO funding application and ComReg's preliminary view of the calculated direct net cost is set out in Figure 6 below.

USO Net Cost 2015-2016		2015-2016	ComReg Adjustment	2015-2016
		eir's USO funding application	€	ComReg's Preliminary View
			€	€
Direct net cost (a)	Uneconomic Areas	€444,959	-	€444,959
	Uneconomic Customers	€11,970,982	(€5,681,354)	€6,289,628
	Directories	€680,000	-	€680,000
	Public Payphones	€383,260	(€360,331)	€22,929
	Services for disabled end users	€16,336	-	€16,336
	Consultancy fees*	€239,380	(€239,380)	€0
	Direct net cost**	€13,734,917	(€5,281,065)	€7,453,853

* ComReg is of the preliminary view that consultancy fees are not a part of the net cost having regard to D04/11 and the provisions of the Universal Service Directive and the Universal Service Regulations (as more fully set out in Section 6).
 ** Rounding to zero decimal places

Figure 6: 2015-2016 direct net cost

84. ComReg, having considered the TERA Report and its views on eir's compliance with decisions relating to the direct net cost within D04/11 together with information submitted by eir in response to the clarifications process, is of the preliminary view that eir's 2015-2016 USO funding application is in adherence with D04/11 (subject to ComReg's adjustment (to reflect the sole use of the 2016 CAM to address the inaccurate and incorrect use of both the 2009 and 2016 CAMs and adjustment to the payphone model) and specifically in terms of the direct net cost assessment, with Decisions 1 – 14, 16, 17, 18, 25, 27 and 29 of D04/11.

5.1 Overview of TERA's direct net cost assessment

85. TERA undertook an assessment of the principles, methodologies and calculations of the direct net cost elements of eir's 2015-2016 USO funding application, by reference to the relevant principles and methodologies set out in D04/11.
86. TERA's assessment of eir's 2015-2016 USO funding application involved gaining an understanding of the approach to, and calculation of, the foregone revenue as well as avoidable cost including operational expenditure ("OPEX") and capital expenditure ("CAPEX") cost data.
87. TERA's assessment considered the methodology and subsequent calculation of the direct net cost of each of the USO services provided by eir.
88. Additionally, TERA's assessment investigated any overlap between the direct net cost estimates and the intangible benefit estimates, in order to ascertain whether there was evidence of double counting and to ensure input values were correct and consistent.
89. Following the process of engagement between eir and ComReg in relation to the USO models in 2018 and 2020, TERA advised ComReg on certain clarifications, required from eir.
90. Between 2017 and 2020 ComReg engaged with eir in respect of its 2015-2016 USO funding application and the net cost calculation set out therein. As part of that process ComReg and its consultants, TERA and Oxera, reviewed and sought clarifications from eir on the USO model and supporting information submitted by eir. eir engaged Frontier to assist it with responding to these requests. A summary of this engagement is set out in Chapter 2..
91. ComReg is of the preliminary view that a downward revision of €5,681,354 to Customer Model element of the direct net cost claimed in eir's 2015- 2016 USO funding application is warranted. The total net cost of adjusted Customer Model (i.e. uneconomic customers in economic areas) has been calculated at €6,289,628 (as compared to the figure of €11,970,982 claimed by eir in its 2015-2016 USO funding application as submitted to ComReg).
92. Following a request for information by ComReg on 24 May 2019, eir provided details of invoices and supporting documentation in respect of the consultancy fees and directories components of their 2015-16 USO Funding Application claimed additional clarifications, to ComReg in June 2019.

93. TERA, having considered eir's 2015-2016 USO funding application, and on the basis of its assessment of the USO models, found the direct net cost to be €7,453,853 based on an adjustment of €6,281,065) (to reflect the sole use of the 2016 CAM in eir's Customer Model, and adjustments to costs associated with Payphone Model and consultancy fees).
94. ComReg is of the preliminary view that, subject to ComReg's adjustments (to reflect the sole use of the 2016 CAM in the Customer Model, and the Payphone Model and consultancy fees adjustments), eir's application was fit for purpose.³²

5.2 Input data

5.2.1 Revenue Data

95. The direct net cost calculation includes both the direct³³ and indirect³⁴ revenues that eir would forego if the provision of services to uneconomic customers and areas was no longer required. Where services are not part of the USO, both their costs and revenues should be excluded from the USO model.
96. eir excluded certain revenues from the direct net cost calculation for a range of reasons. TERA has evaluated eir's treatment of revenue in each of the USO models to determine the relevance of each such inclusion or exclusion.

5.2.1.1 Key changes

97. TERA checked the reasonableness of the exclusion of each of the revenue categories. In cases where TERA found the exclusion criteria were unclear, it sought further explanation from eir. Having reviewed and considered eir's explanation for the exclusion of these revenues, TERA was satisfied that the exclusion of these revenue categories was reasonable.
98. Once the relevant revenues were identified, revenue needed to be allocated across MDF areas. For the purpose of allocating revenue to exchange areas eir's CDW³⁵ was used.

³² Decision 20 of D04/11 requires that the USO funding application is fit for purpose.

³³ Direct revenues are those directly invoiced to a customer or another authorised operator.

³⁴ Indirect revenues include services not directly invoiced to a customer.

³⁵ Corporate data warehouse.

99. In line with Decision 4 of D04/11, eir allocated all the one-off revenue categories to the year in which they were incurred, with the exception of PSTN connections, which eir recognised in the same period as the initial connection, without amortisation. The PSTN connection revenues were, however, offset by the corresponding costs which were treated in a similar manner. All connection revenues except RAT and PSTN were also amortised in the regulatory accounts over the expected customer lifetime, so that the model input data already took amortisation into account³⁶. Having reviewed the calculations, TERA considered that this approach was acceptable.
100. eir's 2014/2015 USO funding application noted that costs and revenues related to Next Generation Access (NGA) Network were broken out separately in eir's regulatory accounts. These NGA costs and revenues were then broken out further into more granular asset classes in eir's 2015-2016 USO funding application. This provides greater granularity on costs and associated revenues within cost categories, however the overall scope of the costs included in the USO model remains the same.
101. TERA was satisfied that this was reasonable and appropriate in the context of the 2015-2016 USO funding application.

5.2.1.2 ComReg's preliminary view

102. Having considered the information available including the responses provided by eir and its consultants during the clarifications process, and on the basis of the assessment and review undertaken by TERA, ComReg is satisfied that the treatment of revenue data in eir's 2015-2016 USO funding application is reasonable and is in accordance with the relevant principles and methodologies in D04/11.
103. ComReg's preliminary view with respect to eir's compliance with Decisions 3, 4, 5, 6, 7 and 29 of D04/11 is set out in Figure 7 below.

D04/11	ComReg's Preliminary View
Decision 3	USO revenues shall be calculated on the basis of both the direct and indirect revenues that an operator would forego as a result of ceasing to provide services to uneconomic customers.
	ComReg is satisfied, on the basis of the assessment and review undertaken by TERA, that eir's calculation of USO revenues adequately included direct and indirect revenues that it would forego as a result of ceasing to provide USO services to uneconomic customers.
Decision 4	Direct revenues shall include those revenues which are directly invoiced to a customer for the services provided directly by the USP. They include:

³⁶ Response to ComReg questions on eir's 2014-2015 USO funding application, February 2015.

	<ul style="list-style-type: none"> • One-off connection charges: where the revenue should be allocated over the expected life of the customer. In circumstances where a line is permanently disconnected, the remaining unallocated one-off connection charges should be allocated to that year of disconnection; • Revenues associated with access (e.g. line rental); • Calls (e.g. local, national, mobile, international, directory enquiries (“DQ”) and premium rate services); and • Complementary services, such as, broadband services.
	ComReg is satisfied, on the basis of the assessment and review undertaken by TERA that the revenue scope for direct revenues incorporated by eir corresponds with the requirements of Decision 4.
Decision 5	<p>Direct revenues shall include those revenues from another authorised operator (“OAO”)(who is indirectly providing the service to the customer) using the USP’s wholesale services and include, amongst other things:</p> <ul style="list-style-type: none"> • Wholesale access (single billing wholesale line rental (“SB-WLR”)); • Wholesale calls; and • Complementary wholesale services, such as Bitstream and Local Loop Unbundling (“LLU”) etc.
	ComReg is satisfied, on the basis of the assessment and review undertaken by TERA, that the revenue scope for direct revenues incorporated by eir corresponds with the requirements of Decision 5.
Decision 6	<p>Indirect revenues shall include those revenues which are not directly invoiced to a customer for the services provided directly by the USP. They include:</p> <ul style="list-style-type: none"> • Wholesale interconnection revenues: fixed termination and transit services as a result of inbound calls from another fixed / mobile networks, where an OAO is invoiced for terminating and transiting a call on the USP network; • Non-geographic numbers (e.g. 1800, 1850, 11811 and 1890 numbers); • Economic USO customer calls to an uneconomic customer: firstly, the revenue of the economic customers’ calls to uneconomic customers shall be allocated to the uneconomic customer. If the uneconomic customer is now economic, as result of the allocation, then a second stage is required to ensure that this treatment does not make the previously economic customer into an uneconomic customer as a result. If as a result of this second stage the economic customer becomes uneconomic, then it is only that portion of revenue which the economic customer can spare without making themselves uneconomic that should be allocated; • Leased Lines: where initially all revenues associated with the leased line are allocated to the uneconomic line. If the uneconomic point is now economic, as a result of the allocation, then a second stage is required to ensure that this treatment does not make the previously economic point into an uneconomic point as a result. If as a result of this second stage the economic point becomes uneconomic, then it is only that portion of revenue which the economic point can spare without making themselves uneconomic should be allocated; and • Replacement calls: where a net cost exists, replacement calls shall be

	estimated and added to the net cost calculation (but only in circumstances where “uneconomic” areas or customers have been firstly identified as commercially uneconomic).
	ComReg is satisfied, on the basis of the assessment and review undertaken by TERA, that the scope of indirect revenues incorporated by eir corresponds with the requirements of Decision 6.
Decision 7	Where it is clearly demonstrated that due to a lack of information beyond the control of the USP, that it is not practicable for indirect revenues to be calculated in accordance with Decision No. 6, the USP may use an alternative approach provided that it is properly supported with reasonable assumptions.
	ComReg is satisfied, on the basis of the assessment and review undertaken by TERA that given the lack of certain data, eir used an appropriate alternative approach.
Decision 29	Sampling may be used for certain aspects of the modelling of net cost, for example the assumptions driving the size of replacement calls. Where sampling is used, samples must be sufficiently representative of the population being sampled. Where applicable, any application of a sampling methodology by the USP must accord with ComReg Decision D07/10.
	ComReg is satisfied, on the basis of the assessment and review undertaken by TERA, that eir's use of data sampling when certain data could not be sourced or was not available, was reasonably justified by eir and that samples were sufficiently representative of the population being sampled.

Figure 7: Preliminary view - Compliance with Decisions 3, 4, 5, 6, 7 and 29 of D04/11

5.2.2 Cost Data

104. According to the principles and methodologies set out in D04/11, the cost data includes both the capital and operating costs of providing the services relevant for the USO. The avoidable cost concept is a fundamental determinant of the net cost calculation; and it is only the portion of costs that can be directly attributable to the USO service, which can be included in the net cost calculation.
105. Furthermore, the avoidable costs included in the net costs calculation should be those which are incurred in the most efficient way.
106. TERA evaluated eir's treatment of cost including the categories of costs which are included, whether they are avoidable, how costs are allocated to MDF's and how efficiency adjustments were made.

5.2.2.1 Key changes

107. TERA considered the cost categories which were identified by eir to ensure they were treated correctly. eir included the following additional OPEX and CAPEX cost categories in its 2015-2016 USO funding applications³⁷:
- building pool CAPEX³⁸
 - BIP and Ethernet SANS OPEX³⁹
 - The cost of PRA/FRA CPE for ISDN lines
108. Having reviewed and considered eir's inclusion of building pool CAPEX, BIP and Ethernet SANS OPEX, and cost of PRA/FRA CPE for ISDN lines, TERA was satisfied that these amendments by eir were reasonable and appropriate in the context of eir's 2015-2016 USO funding application.
109. Having considered the cost data, TERA assessed the portion of these costs which could be avoided if certain MDF areas were no longer served by eir.
110. TERA noted that eir's changes in its definition of working lines (outlined above), have resulted in some changes to the allocation of costs to MDFs.?
111. TERA also noted that the costs from eir's HCA accounts, are in the main, not identified separately for different MDF areas. Costs are therefore allocated to areas using cost drivers.
112. TERA also conducted SRT sampling checks and was of the view that the impact of these changes on the level of avoidable costs was negligible during this financial period.
113. TERA's assessment of eir's cost avoidability assumptions noted that eir used access network costs to calculate the avoidable access network costs at the area and customer level for each MDF.
114. Having reviewed and considered eir's access network cost avoidability assumptions in respect of OPEX, TERA was satisfied that eir's avoidability assumptions were reasonable in the context of eir's 2015-2016 USO funding application.

³⁷ These additional costs were also included in each of eir's final 2010/11 to 2014/15 USO funding applications. They were not included in eir's 2009/10 USO funding application).

³⁸ eir's 2009/2010 funding application model had excluded the Capex associated with the building pool. TERA considered that building pool Capex can be directly attributable to geographic areas, in the most part identifiable at district level, and with particular MDFs in some cases.

³⁹ eir's 2009/2010 funding application model included BIP and Ethernet SANS revenue, and omitted the associated Opex.

115. In eir's initial 2014-2015 USO funding application, its approach to cost allocation was only based on the number of faults. TERA recommended that the allocation of costs to "repair team areas" should be based on the number of repair staff in each area; and the allocation of costs to MDFs, was based on the number of faults in the MDFs, that make up each "repair team area". eir's approach to the allocation of the "Repair-Access" cost category was amended in eir's final 2014-2015 USO application⁴⁰, and reflected in eir's 2015-16 application, to incorporate recommendations made by TERA. TERA considered this approach to be more aligned to the principle of cost causality and the 2016 CAM⁴¹.
116. Finally, eir made a number of efficiency adjustments in line with principles and methodologies of Decision 9 of D04/11.
117. TERA agrees with eir's efficiency adjustment in the calculation of fault costs.
118. TERA also considered the allocation of distance sensitive costs, which are costs that vary depending on the length of the line. These costs need to be allocated to housing and isolated areas. eir maps the network service elements to 3 categories:
- distance sensitive
 - non-distance sensitive
 - provisioning
119. TERA reviewed the mapping of network elements to services for these cost categories, and concluded, based on the available information, that eir's approach was reasonable.
120. Cost-volume relationship (CVR's) is the curve that describes how the cost of the core network changes in relation to call volumes. The CVRs eir used assume that costs increased linearly between 76% and 100%. The cost for Billing-CDCS-CMA was zero in 2015-2016 and accordingly no CVR was needed for this cost item.
121. Having reviewed and considered eir's further clarification on the use of cost curves for core network, TERA was satisfied that these amendments by eir were reasonable and appropriate in the context of eir's 2015-2016 USO funding application.

⁴⁰ The Frontier Direct Net Cost Report (Section 3.1.3) details the cost drivers used to allocate avoidable OPEX costs to MDFs.

⁴¹ Copper Access Model.

5.2.2.2 ComReg's preliminary view

122. Having considered the information available including the responses provided by eir and its consultants during the clarifications process, and on the basis of the assessment and review undertaken by TERA, ComReg is satisfied that the treatment of cost data in eir's 2015-2016 USO funding application is reasonable and is in accordance with the relevant principles and methodologies in D04/11.
123. Figure 8 below sets out ComReg's preliminary views in relation to eir's compliance with Decisions 1, 2, 8, 9 and 12 of D04/11.

D04/11 ComReg's Preliminary View	
Decision	
Decision 1	The HCA methodology, properly adjusted for efficiencies and taking account of the costs that could have been avoided by the USP without having the USO, is the cost methodology that must be used to calculate the net cost of the USO.
	ComReg confirms, on the basis of the assessment and review undertaken by TERA, that eir's 2015-2016 USO funding application adequately satisfies the criteria set out in Decision 1.
Decision 2	USO net costs shall be calculated on the basis of "all" capital costs and "all" operating costs that could be avoided on a HCA basis, as if the provision of services to uneconomic customers by a commercial operator was not required under a USO. It is only the portion of costs, both capital and operational expenditure for the given financial year, that can be directly attributed to the USO service (i.e. the service activity creates the cost) and which could have been avoided without the USO, which are included in the net cost calculation.
	ComReg is satisfied, on the basis of the assessment and review undertaken by TERA, that eir has adequately fulfilled the criteria in Decision 2, save for as noted in section 6 of this consultation, ComReg does not consider that consultancy fees form part of the net cost.
Decision 8	The avoidable costs included in the net cost calculation, shall be those costs reflecting the provision of the USO which a commercial operator would not ordinarily have provided, and which were incurred in the most efficient way. These costs shall relate to: (a) the avoidable capital costs associated with CAPEX i.e. depreciation; (b) OPEX; and (c) overheads for the appropriate financial year.
	ComReg is satisfied, on the basis of the assessment and review undertaken by TERA, that the avoidable costs eir included in the net cost calculation have been prepared on an avoidable costs basis and that it appropriately reflects the costs, considering both OPEX, CAPEX and overheads, incurred in the provision of the USO which a commercial operator would not ordinarily have provided.
Decision 9	ComReg may use a number of methodologies to determine the appropriate level of costs that would have been incurred by an efficient operator, in order to determine the quantum of adjustments necessary

	<p>to the USP's net cost calculation. These methodologies may include, but are not limited to, the use of:</p> <ul style="list-style-type: none"> • The review of supporting documentation available, such as: cost-benefit analysis reports; engineering reports; fault reports of geographical areas, and other documents in relation to the business case / investment decisions associated with the network roll-out and upgrade; • A line fault efficiency rate: applying the national LFI target rate (corresponding to the financial year in question) at a regional level (and allowing for appropriately reasoned variances) ; • Independent survey report regarding the USP's efficiency; • Regulatory decisions from other jurisdictions that provide relevant precedents and benchmarks; and • The development of a model to assess the appropriateness of the efficiency adjustment proposed by the USP.
	<p>ComReg is satisfied, on the basis of the assessment and review undertaken by TERA, that eir has adopted appropriate methodologies in calculating costs and efficiency adjustments to determine the appropriate level of costs that would be incurred by an efficient operator in order to determine the quantum of adjustments to the USP's net cost calculation.</p>
Decision 12	<p>An average depreciation charge for each class of network element (based on an average cost and asset age) shall be developed by geotypes (e.g. urban, sub-urban, rural etc.). The USP may allocate the relevant depreciation charge (as reconcilable to the HCA accounts and taking account of the principle of avoidable costs) for each exchange area based on the asset requirements as determined by the Copper Access Model (as updated or similar modelling tool). The calculation must be sufficiently granular to allocate costs only to those network elements actually used by users who are potentially uneconomic. In making this allocation, the USP should draw on, and be prepared to substantiate its investment profile / decision making, works-orders etc., so as to ensure that the allocation is appropriate (i.e. the USP should satisfy itself that in making an allocation to an MDF area, it has not allocated costs which are not reflective of the USP's investment profile in that MDF area).</p>
	<p>ComReg is satisfied, on the basis of the assessment and review undertaken by TERA that the depreciation method applied by eir is in accordance with Decision 12.</p>

Figure 8: Preliminary View - Compliance with Decisions 1, 2, 8, 9 and 12 of D04/11

5.3 USO models 2015-2016

124. ComReg is of the preliminary view that eir's mixed use of the 2016 CAM with elements of the 2009 CAM in its 2015/16 USO funding application is incorrect, and that an adjustment to the net cost calculation is warranted and necessary. eir's choice of cost avoidability assumptions for 2015/16 create an inconsistency in the cost avoidability and cost distribution assumptions used within the USO models, which in turn affect the accuracy of the direct net cost calculation for the financial year 2015/16.

125. ComReg is of the preliminary view that its proposal to adjust the direct net cost calculation to reflect the sole use of the 2016 CAM is the most appropriate way of addressing what ComReg regards as eir's inaccurate and incorrect mixed use of the 2009 and 2016 CAMs.
126. ComReg is of the preliminary view that, subject to the aforementioned adjustments, eir's application is fit for purpose⁴² the principles and methodologies required by D04/11 were broadly reflected in the USO models eir used to calculate the direct net cost of the USO, although, as set out more specifically in sections 5.3.2, 5.3.4 and 6 of this consultation,.
127. The USO models were originally developed by eir as part of the 2009-2010 USO funding application process. As ComReg and its consultants (TERA) conducted an extensive review of eir's USO models as part of its assessment of the 2009-2010 USO funding application, TERA's assessment for 2015-2016 also analysed changes in the USO models since its 2009/10 USO application and the impact of such changes.
128. eir's 2015-2016 USO funding application is based on an updated version of the 2009-2010 USO models.
129. The following section summarises the key changes:
- between eir's **2009-2010** USO funding application and eir's **2015-2016** USO funding application
 - TERA adjustments agreed by ComReg and taken into account in ComReg's preliminary view of the calculated direct net cost.
130. Further details of the direct net cost calculation for each USO model and TERA's assessment are set out in the TERA Report.

5.3.1 Area Model

131. The Area Model calculates the direct net cost of uneconomic areas, with one area corresponding to one MDF. The uneconomic areas are those which eir claims would not be served by eir if it had no USO obligation.
132. TERA found that the direct net cost of uneconomic areas in the Area Model is €0.44M. This figure reflected the amount eir claimed in its 2015-2016 USO funding application.
133. There were no changes in the methodology or approach to calculating the cost of uneconomic areas in eir's 2015-2016 USO funding application, to that adopted in eir's 2009-2010 USO funding application.

⁴² Decision 20 of D04/11 requires that the USO funding application is fit for purpose.

134. TERA concluded that the changes in the direct net cost of reviewed MDFs when compared to eir's 2009/10 USO funding application were due to changes in the input data as a result of changes in consumption, routing factors and consumption and the regulatory accounts, as opposed to changes in the parameters or design of the Area Model itself. TERA concluded that there were no methodological changes in the Area Model component of eir's 2015/16 funding application when compared to its final 2014/15 funding application.

5.3.1.1 ComReg's preliminary view

135. Figure 9 below sets out ComReg's preliminary view in relation to eir's compliance with Decision 11 of D04/11.

D04/11 ComReg's Preliminary View	
Decision 11	Uneconomic areas shall be identified at an MDF level.
	ComReg confirms, on the basis of the assessment and review undertaken by TERA, that eir has met the requirements of Decision 11 by identifying uneconomic areas at an MDF level.

Figure 9: ComReg's Preliminary View - Compliance with Decision 11

136. ComReg confirms, on the basis of the assessment and review undertaken by TERA, that the calculated direct net cost of the Area Model is €444,959.

5.3.2 Customer Model

137. The Customer Model calculates the direct net cost of uneconomic customers in economic areas.

138. The total cost of uneconomic customers claimed in eir's 2015-2016 USO funding application was €11.97M.

139. The TERA report notes that a probabilistic approach was used in eir's 2015-2016 USO funding application Customer Model, as opposed to using universal account numbers (UAN). TERA listed a number of limitations as outlined by eir, which restrict the ability to use the UAN:

- UAN is an account identifier (currently tracks accounts, not lines).
 - An account may have lines at a number of different locations.
 - Lines may also move between accounts (amalgamated or divided accounts).
 - Each time a line transfers from eir Retail to eir Wholesale, or from one OAO to another, the relevant line is given a new UAN (so while the telephone number may remain the same, the UAN does not).

- eir's databases contained information that can identify the revenue of individual customers; however, a similar identification of the costs was not possible as costs were not recorded at an individual customer level.
140. The probabilistic based approach used by eir in its 2015-2016 USO funding application was the same approach as eir used in its 2014-2015 USO funding application. The approach compared the distribution of net revenue with a distribution of the avoidable costs of access, by calculating the expected number of uneconomic lines in each economic MDF area and in turn, the expected losses, from each of these lines.
141. PwC, as part of its AUP Report, reported a number of procedures it undertook to review and validate the formulae used in the Customer Model.
142. TERA having reviewed eir's use of the probabilistic approach, concluded that eir's approach was appropriate, absent the availability of more granular data, for the following reasons:
- eir showed that revenue and costs were not correlated, thereby indicating that a probabilistic approach was reasonable.
 - UAN was related to a customer's account as opposed to the number of lines on the account, and therefore a UAN did not reflect individual access line movement at the customer account level.
 - There was a difficulty in matching revenue and line length information.
143. eir's 2015-2016 USO funding application uses both the 2009 copper access model (CAM) and the 2016 CAM. eir uses the 2009 CAM to calculate the level of cost avoidability of CAPEX within "isolated areas" (based on the financial year 2013-2014) and eir uses the 2016 CAM cost allocation assumptions (based on the financial year 2015-2016) in the Customer Model, of its USO funding application.
144. ComReg and TERA are of the view that eir's mixed use of the 2009 CAM and the 2016 CAM in this manner, creates an inconsistency in the cost avoidability and cost allocation assumptions used in the USO models, which affects the accuracy of the net cost calculation in eir's 2015-2016 USO funding application.
145. The 2016 CAM is based on eir's access network (financial and network specific data) and includes updated:
- geospatial database on the location of roads and buildings;
 - costing information from eir's audited regulatory accounts; and
 - asset prices;

which models more precisely eir's network at a street/road level in order to calculate the cost for very specific geographic areas.

146. Accordingly, ComReg is of the view that 2016 CAM is the appropriate CAM to be used in eir's 2015-2016 USO funding application
147. ComReg instructed TERA to propose a methodology (proposed ComReg methodology) based on the sole use of the 2016 CAM, that should be applied to the calculation of the cost avoidability in the Customer Model of eir's 2015-2016 USO funding application, taking into account, eir's identified "areas for development" (based on the preliminary ComReg methodology) for calculating cost avoidability in the Customer Model⁴³.
148. The proposed ComReg methodology identifies:
- "urban/high density areas" using the "distance from the exchange" (boundary) methodology, where the boundary is defined as 3km from the exchange. This proposed methodology is consistent with a proxy boundary approach which has been used previously by ComReg for similar wholesale access products and component products⁴⁴; and then
 - applies a refined 'line length divided by the number of lines' (L/N) methodology for access lines beyond 3km.
149. Accordingly, ComReg has used 3km as the boundary to:
- differentiate between isolated areas and "higher-density"/more built up areas; and
 - in this way ensures that in the counterfactual that a commercial entity would not avoid all costs
150. The proposed ComReg methodology is set out in detail in section 7 of the TERA Report.
151. Details of the engagement which took place between eir and ComReg in this regard are outlined in section 2 above.

⁴³ As set out in eir's presentation "eir proposed methodology for calculating cost avoidability in the Customer Model 23/3/18.

⁴⁴ This proxy is aligned with that used to develop the wholesale broadband pricing in ComReg Decision D11/18 "Pricing of Wholesale Broadband Services in the WLA and WCA Markets" decision D11/18.

152. ComReg is of the preliminary view that a downward revision of €5,681,354 to Customer Model element of the direct net cost claimed in eir's 2015- 2016 USO funding application is warranted. The total net cost of adjusted Customer Model (i.e. uneconomic customers in economic areas) has been calculated at €6,289,628 (as compared to the figure of €11,970,982 claimed by eir in its 2015-2016 USO funding application as submitted to ComReg).
153. ComReg is of the preliminary view that, subject to ComReg's adjustments (to reflect the use of the 2016 CAM in the Customer Model, and the Payphone Model and consultancy fees adjustments), eir's application was fit for purpose.

5.3.2.1 ComReg's preliminary view

154. ComReg is satisfied, on the basis of the assessment and review undertaken by TERA, that the use of a probabilistic approach for eir's 2015-2016 USO funding application in respect of the Customer Model is reasonable.
155. ComReg is of the preliminary view that subject to ComReg's adjustments to eir's direct net cost calculation including a downward adjustment to eir's calculation of the direct net cost in the Customer Model to reflect the more consistent and accurate use of the 2016 CAM, eir's 2015-2016 USO funding application meet the requirements of Decisions 10, 12, 13 and 14 of D04/11.
156. ComReg's preliminary view with respect to compliance with Decisions 10, 12, 13 and 14 of D04/11 are set out in Figure 10 below. While ComReg is of the view that each of the requirements of each of these decisions was met by eir, ComReg is of the preliminary view that the mixed use by eir of the 2009 CAM and the 2016 CAM requires an adjustment.

D04/11 ComReg's Preliminary View	
Decision	
Decision 10	The net cost calculation shall not include those customers who were originally considered "uneconomic" but who have now become profitable. The net cost calculation also does not include those customers attained as a direct result of a competitive tendering process (who are deemed "uneconomic").
	ComReg is satisfied, on the basis of the assessment and review undertaken by TERA, that eir has met the requirements of Decision 10 by excluding customer who were originally considered "uneconomic" and have now become profitable.
Decision 12	An average depreciation charge for each class of network element (based on an average cost and asset age) shall be developed by geotypes (e.g. urban, sub-urban, rural etc.). The USP may allocate the relevant depreciation charge (as reconcilable to the HCA accounts and taking account of the principle of avoidable costs) for each exchange area based on the asset requirements as determined by the Copper

	<p>Access Model (as updated or similar modelling tool). The calculation must be sufficiently granular to allocate costs only to those network elements actually used by users who are potentially uneconomic. In making this allocation, the USP should draw on, and be prepared to substantiate its investment profile / decision making, works-orders etc., so as to ensure that the allocation is appropriate (i.e. the USP should satisfy itself that in making an allocation to an MDF area, it has not allocated costs which are not reflective of the USP's investment profile in that MDF area).</p>
	<p>ComReg is satisfied, on the basis of the assessment and review undertaken by TERA that the depreciation method applied by eir is reasonable and meets the requirements of Decision 12.</p>
Decision 13	<p>Uneconomic customers in economic areas shall be identified based on universal account numbers ("UANs"). However, if ComReg is satisfied, because of a lack of information beyond the control of the USP, that it is not practicable to identify uneconomic customers by UAN, the USP must demonstrate that the use of an alternative approach has the equivalent effect of identifying those customers.</p>
	<p>ComReg is satisfied, on the basis of the assessment and review undertaken by TERA, that eir has met the requirements of Decision 13. As there was a lack of information which was beyond the control of eir it was not practicable for eir to identify each uneconomic customer by its UAN and eir appropriately applied a probability approach in order to identify uneconomic customers.</p>
Decision 14	<p>The USP may calculate uneconomic customers in economic areas using a probability analysis. However, the identification and allocation of these costs must be consistent with Decision No. 12. The parameters and assumptions used in the probability analysis must be clearly documented and duly reasoned as to the circumstances why the USP considers the customer uneconomic.</p>
	<p>ComReg is satisfied, on the basis of the assessment and review undertaken by TERA in relation to the Customer Model, that eir has adhered to the requirements of Decision 12 and Decision 14 with respect to the use of a probability approach for the identification and allocation of uneconomic customers to uneconomic areas.</p>
Decision 25	<p>Applications shall, with reference to the supporting model, clearly identify (by MDF or by geographic location as appropriate), with adequate reasoning and cogent evidence to justify that, those customers or groups of customers (i.e. area), that in the absence of the USO, the provision of the service would <i>either</i> not continue to be provided or would never have been provided, to that customer or groups of customers (i.e. area) by a commercial operator, <i>or</i> by the USP acting as a commercial operator. The USP must provide its commercial reasoning, including the respective parameters used in justifying its decision, including, but not limited to:</p> <ul style="list-style-type: none"> • The current loss-making status of those customers or areas; • The local density of those customers or areas; • The respective distances from exchange for uneconomic customers; • The network infrastructure / technology used to serve those customers or areas; and • Any other pertinent information the USP has used to influence its decision making process.

	ComReg is satisfied, on the basis of the assessment and review undertaken by TERA, that eir's 2015-2016 USO funding application identified uneconomic customers appropriately and provided adequate reasoning for its approach.
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Figure 10 : Preliminary View - Compliance with Decisions 10, 12, 13 and 14 of D04/11

157. On the basis of TERA's overall evaluation and amendment of eir's methodological approach to the Customer Model and the underlying direct net cost calculations for uneconomic customers in economic areas, ComReg is of the preliminary view that the calculated direct net cost of the Customer Model is €6,289,628

5.3.3 Directories Model

158. The Directories Model calculates the net avoidable cost for the provision of a printed directory (free of charge, at least once a year).

159. TERA found that the direct net cost of the Directories Model was €680,000.

5.3.3.1 Key changes

160. There were no changes in the methodology or approach to calculating the Directories Model in eir's 2015-2016 USO funding application to that adopted in eir's 2009-2010 USO funding application.

161. A new eir/ FCR Media Ltd. commercial agreement⁴⁵ has resulted in the cessation of advertising revenue payments by FCR Media Ltd. to eir. Accordingly, eir no longer received payment from FCR Media Ltd. in respect of third party advertising revenue associated with USO printed Directories.

162. The commercial agreement for 2015/16 is summarised below:

- Eir makes an annual payment to FCR media Ltd. of €680,000 for the provision of directories.
- FCR Media Ltd. has the sole and exclusive rights to publish the White Pages directories on behalf of eir;
- FCR Media Ltd. has the sole and exclusive right to sell enhancements in the White Pages directory and is entitled to retain all such revenues; and
- eir is entitled to brand positioning on the covers and to a number of pages in the directories.

⁴⁵ Eircom Limited and FCR Media Ltd. "Agreement for the provision of goods and services to eircom" dates 23 April 2015.

163. TERA considered that the cost to eir (payment by eir to FCR Media Ltd.) in relation to eir's own advertising in the USO printed directories was intrinsic to the commercial contract with FCR Media Ltd., where approximately of equal value, the cost represented the benefit.
164. However, TERA also noted that in principle brand positioning of eir's logo and name in the printed directories could, if there was evidence that the cost did not adequately reflect the benefit, generate an intangible benefit for eir similar to the one from displaying its logo on uneconomic payphones. If this turned out to be the case, this benefit could in principle be included in an intangible benefits assessment. However, for the purposes of this application, TERA is of the view that it is most appropriate that the advertising charge should be included as a relevant cost in the direct net cost model and deducted from the revenues eir receives from FCR Media Ltd. As such, any tangible benefit considered to off-set the advertising charge payable by eir has been taken into account in the direct net cost calculation. It may be excluded from the intangible benefits assessment, Decision 36 provides that there must be no double counting.
165. ComReg is satisfied, on the basis of the assessment and review undertaken by TERA, that eir's 2015-2016 USO funding application in respect of Directories is consistent with the principles and methodologies of D04/11 and specifically Decision 17 of D04/11.

D04/11 ComReg's Preliminary View	
Decision	
Decision 17	For Directories, the net cost calculation shall use the total avoidable cost, minus total revenues of this service.
	ComReg is satisfied, on the basis of the assessment and review undertaken by TERA that the approach, assumptions and calculations applied by eir in arriving at the directories avoidable cost estimate, is in accordance with Decision 17.

Figure 11: Preliminary View - Compliance with Decision 17 D04/11

166. ComReg confirms, on the basis of the assessment and review undertaken by TERA of the Directories Model and the underlying direct net cost calculations, that the calculated direct net cost of the Directories Model is €680,000.

5.3.4 Payphone Model

167. The USO consists of the provision of a defined set of services to end-users at an affordable price. As well as provision of access at fixed locations and telephone services (as discussed above), these services include provision of public payphones (mandatory public payphone provision).

168. With respect to loss making payphones, only those payphones that are subject to USO obligations can be considered as part of the direct net cost. For the avoidance of doubt, the USO only covers those payphones that are available on the street, and in other public areas available to the public at all times (i.e. unrestricted access).

169. ComReg Decision D08/14, "Provision of Public Payphones Universal Service: Scope and Designation" 7 July 2014, "Removals Policy" states that:

"The USP is permitted to remove a public pay telephone on a single site where:

- i. there is demonstrable evidence that the removal of the public pay telephone is necessary as the public pay telephone concerned is a focus for anti-social behaviour; or*
- ii. the usage in the previous six months of the public pay telephone (while in reasonable working order) has been low, indicating an absence of "reasonable need" in that location, where "low" is considered to mean:*
 - Average Usage (including local, national, international, emergency calls, DQ calls, Freephone calls and reverse charge minutes) for the previous six months is less than 1 minute per day and*
 - Average minutes for the previous six months to Freephone numbers and Emergency Services combined is not more than 30 seconds of these minutes;*

Or,

- iii. there is more than 1 public pay telephone on the site and the average usage across all of the public pay telephones on the single site does not meet the low usage standards as set out in 4.1(ii); in such instances the USP shall ensure 1 public pay telephone remains on the single site; or*
- iv. it is requested by a local authority."*

170. Decision 16 of D04/11 sets out that only the direct net cost of mandatory public payphone provision is relevant to the assessment of the USO funding application. Decision 16 states (emphasis added):“in respect of mandatory public payphone provision, the net cost calculation shall be based on the total avoidable cost, minus the total revenues foregone. Furthermore, for each public payphone that is connected to a single exchange site, the access cost for a payphone will be the same access cost as that of any line at the exchange site on which it is connected. The avoidable access costs shall be calculated as an estimate per line at the exchange site to which the public payphone is connected. If the number of uneconomic payphones is considered excessive and unreasonable, ComReg may adjust the net cost calculation to reflect appropriate payphone coverage (in areas where they are mandatory).”
171. The Payphone Model aims to calculate the direct net cost of uneconomic payphones in economic areas (the potential cost of uneconomic payphones in uneconomic areas are captured in the analysis of net costs in the Area Model and therefore are excluded from the Payphone Model).⁴⁶
172. The Payphone Model identifies access, core, maintenance and phone card costs as relevant for consideration in the direct net cost assessment. eir submitted that relevant payphone revenue includes, amongst others, call revenue, advertising revenue and WiFi revenue.
173. TERA was requested by ComReg to analyse, based on the “Removals Policy”⁴⁷, the number of USO payphones claimed by eir within the Payphone Model. TERA’s analysis indicates that revenues and costs associated with [X ■■■] payphones (in addition to [X ■■■] payphones disallowed by TERA in eir’s 2014-2015 USO funding application) should be disallowed from the Payphone Model, reducing the 2015-2016 Payphone Model direct net cost to €22,929.
174. As set out in Figure 1 above, eir claimed as part of its 2015-2016 USO funding application a direct net cost of €383,260 for [X ■■■] uneconomic payphones in economic areas. However, TERA found that, taking account of required adjustments to the Payphone Model, the direct net cost was €22,929.

⁴⁶ This is to avoid a potential double count of these avoidable costs and revenues foregone, in accordance with D04/11.

⁴⁷ D08/14.

5.3.4.1 Key changes

175. Overall, TERA observed an increase in the number of uneconomic payphones in economic areas associated potential net costs when compared to previous USO application periods.
176. TERA's assessment of eir's 2015-2016 USO Funding Application Payphone Model, established that there were [X] USO payphones. [X] of these USO payphones were economic, and [X] were uneconomic. ComReg is of the preliminary view that eir had included additional costs associated with payphones which were avoidable [X] and therefore decided to adjust the Payphone Model direct net cost downwards.
177. Having analysed eir's Payphone Model for cost identification and allocation as well as the direct net cost estimate following TERA's adjustment to the Payphone Model, TERA confirmed that the principles and methodology applied by eir within its Payphone Model were in accordance with Decisions 16 and 27 of D04/11 in this application period.

5.3.4.2 ComReg's preliminary view

178. ComReg is of the preliminary view, on the basis of the assessment and review undertaken by TERA, and the subsequent amendment of the direct net cost claimed in eir's 2015-2016 USO funding application, that calculations contained in the Payphone Model are in accordance with the principles and methodology in D04/11.
179. During the application period 2015-2016, ComReg notes that D08/14 "Removals Policy" was in place. ComReg is of the preliminary view that, eir has included additional costs associated with payphones which were avoidable. Accordingly ComReg has made an adjustment to remove these avoidable costs.
180. Under Decision 16 of D04/11, ComReg may also apply a downward adjustment to eir's direct net cost of fulfilling its USO payphone obligations for 2015/16 with a view to ensuring the efficient deployment of USO payphones and their associated net costs.
181. eir's direct net cost of the Payphone Model prior to any adjustment is €383,260, which equates to approximately 2.8% of the total direct net cost in 2015-2016.
182. The direct net cost of the Payphone Model after ComReg's adjustment is €22,929 which equates to approximately 0.3% of the total direct net costs in 2015-2016

183. For this application period, ComReg does not consider that it is necessary to make a further downward adjustment to the level of direct net cost reflected in the Payphone Model on the basis Decision 16 of D04/11. ComReg is of the preliminary view that an adjustment to the direct net cost of the Payphone Model on the basis of Decision 16 of D04/11 would not significantly impact the total direct net cost in 2015-2016 and would not impact on the preliminary unfair burden assessment.

D04/11 ComReg's Preliminary View	
Decision 16	In respect of mandatory public payphone provision, the net cost calculation shall be based on the total avoidable cost, minus the total revenues foregone. Furthermore, for each public payphone that is connected to a single exchange site, the access cost for a payphone will be the same access cost as that of any line at the exchange site on which it is connected. The avoidable access costs shall be calculated as an estimate per line at the exchange site to which the public payphone is connected. If the number of uneconomic payphones is considered excessive and unreasonable, ComReg may adjust the net cost calculation to reflect appropriate payphone coverage (in areas where they are mandatory).
	ComReg is satisfied, taking into account the adjustments to the Payphone Model outlined in TERA's report and ComReg's preliminary view that it not necessary to apply a further adjustment to the net cost calculation for uneconomic USO payphones on the basis of Decision 16, that eir's methodology, assumptions and calculations in arriving at the USO payphones direct net cost are in accordance with Decision 16.
Decision 27	With respect to the provision of public payphones which are "uneconomic", sufficient detail shall be provided on their geographic location and proximity of other public payphones operated by the USP (irrespective of their profitability).
	ComReg is satisfied, on the basis of the assessment and review undertaken by TERA of eir's 2015/2016 USO funding application, that sufficient information on uneconomic payphones was provided by eir in respect of the location and proximity of uneconomic payphones for the purposes of this application.

Figure 12: Preliminary View - Compliance with Decisions 16 and 27 of D04/11

184. In summary, on the basis of the assessment and review undertaken by TERA of eir's Payphone Model, ComReg is of the preliminary view that the calculated direct net cost of the Payphone Model is €22,929

5.3.5 Disabled End Users' Services Model

185. The Disabled End Users' Services Model calculates the net avoidable cost for the provision of disabled end users' services (text relay, specialised equipment, and free directory enquiry and braille bills).

186. TERA found that the direct net cost of the Disabled End Users' Services Model was €0.02M. This amount reflects the direct net cost claimed by eir in its 2015-2016 USO funding application.

5.3.5.1 Key changes

187. Decision 18 of D04/11 outlines requirements for the approach and calculation of the net avoidable cost for the provision of disabled end users' services.
188. There were no changes in the methodology or approach to calculating the Disabled End Users' Services Model in eir's 2015-2016 USO funding application. TERA considered that the methodology and calculations underlying the Disabled End Users' Services Model were in accordance with D04/11 and were reasonable for inclusion in eir's 2015-2016 USO funding application.

5.3.5.2 ComReg's preliminary view

189. ComReg is satisfied, on the basis of the assessment and review undertaken by TERA that the methodology, assumptions and calculations underlying the Disabled End Users' Services Model were in accordance with D04/11 and are reasonable for eir's 2015-2016 USO funding application. ComReg's preliminary view with respect to compliance with Decision 18 of D04/11 is set out in Figure 13 below.

D04/11 ComReg's Preliminary View	
Decision 18	The net cost for the provision of specific USO services for disabled users, shall be calculated using the total avoidable cost minus the associated total revenues foregone. The avoidable cost shall include the cost associated with the provision of USO special services over the standard minimum level of service (e.g. "minicom" relay services, free directory enquiries, etc.) and specialised equipment (e.g. restricted vision phones, inductive couplers, etc.) minus the total revenue which is incremental to the total revenue associated with the standard minimum level of service to disabled users (which is appropriate to all operators).
	ComReg is satisfied, on the basis of the assessment and review undertaken by TERA that the methodology, assumptions and calculations applied by eir in arriving at the Disabled End Users' Services avoidable net cost estimate is in accordance with Decision 18.

Figure 13: Preliminary View - Compliance with Decision 18 of D04/11

5.4 Direct net cost overlap with intangible benefits

190. In accordance with Decision 36 of D04/11, TERA's assessment investigated potential overlaps between the direct net cost calculations and the intangible benefit estimates to ascertain whether there was evidence of double counting. TERA also performed checks to ensure input or source values relevant to both the direct net cost USO model and the intangible benefits model were correct, used consistently and corresponded to the outputs of the relevant model.
191. This involved reviewing the Frontier Intangible Benefits Report and the Oxera Intangible Benefits Report and informing ComReg of any potential overlaps.
192. Following these checks, TERA made adjustments to the direct net cost calculations in the Payphone Model (as described in section [5.3.4] above). This required some consequent minor adjustments to the intangible benefits estimates, which Oxera made, where required.

5.4.1 Key changes

193. Despite the minor calculation adjustments referred to above, there were no methodological changes resulting in an overlap between the direct net cost calculations and the intangible benefits estimates in eir's 2015-2016 USO funding application.

5.4.2 ComReg's preliminary view

D04/11 ComReg's Preliminary View	
Decision 36	For the identification of the benefits, ComReg will observe the following key principles:

	<ul style="list-style-type: none"> • The benefits represent effects on a USP of providing the USO which have not been accounted for in the direct costing methodology (for example, any benefits that are directly identifiable to specific revenue streams, including indirect and replacement calls revenues are excluded having been covered by the direct net cost calculation). • Avoid the double counting of any benefits. • The benefits are those accruing to the USP, as a consequence of being the designated USP (any benefit arising from the fact that the USP is a large player in the market is to be excluded from the calculations).
	ComReg is satisfied, on the basis of the assessment and review undertaken by both Oxera and TERA, that there is no evidence of double counting with the direct net cost methodology and that the appropriate benefits, accruing only as a result of eir's USP status, are considered.

Figure 14: Preliminary View - Compliance with Decision 36 of D04/11

5.5 Overall direct net cost calculation – ComReg's preliminary view

194. ComReg is of the view, on the basis of the assessment and review undertaken by TERA, that the changes to methodology between eir's 2014-2015 and 2015-2016 USO funding applications were appropriate, and that adjustments made by ComReg to eir's 2015-2016 USO funding application (regarding the uneconomical customers, Payphone Model and consultancy fees) further improved the accuracy of the direct net cost calculation in line with the relevant principles and methodologies in D04/11 outlined in this Section.
195. ComReg is of the preliminary view that the calculated direct net cost is €7,453,853, (after a total downward adjustment of €6,281,065, as summarised in Figure 15 below.

USO Net Cost 2015-2016		2015-2016	ComReg	2015-2016
		eir's USO funding application	Adjustment	ComReg's Preliminary View
			€	€
Direct net cost (a)	Uneconomic Areas	€444,959	-	€444,959
	Uneconomic Customers	€11,970,982	(€5,681,354)	€6,289,628
	Directories	€680,000	-	€680,000
	Public Payphones	€383,260	(€360,331)	€22,929
	Services for disabled end users	€16,336	-	€16,336
	Consultancy fees*	€239,380	(€239,380)	€0
	Direct net cost**	€13,734,917	(€5,281,065)	€8,453,853

* ComReg is of the preliminary view that consultancy fees are not a part of the net cost having regard to D04/11 and the provisions of the Universal Service Directive and the Universal Service Regulations (as more fully set out in Section 6).
** Rounding to zero decimal places

Figure 15 : Summary of Direct Net Cost

Q. 1 Do you have any observations on the results of ComReg's direct net cost calculation?

6 Consultancy fees

196. eir's 2015-2016 USO funding application included a figure of €239,380 for "Consultancy Fees". No explanation was given for the inclusion of this figure. In June 2019⁴⁸, at ComReg's request, eir provided further information including invoices in respect of consultancy fees paid.
197. ComReg is of the preliminary view that the consultants' fees incurred and claimed by eir in its 2015-2016 USO funding application were not net costs of the universal service but incurred in relation to the preparation of its application for funding.
198. ComReg is of the preliminary view that, having regard to D04/11, the wording of the Universal Service Directive and the Universal Service Regulations, consultancy fees relating to the preparation and submission of a USO funding application, which are not directly incurred as a result of the provision of USO services, do not form part of the net cost. ComReg is of the preliminary view that, on this basis and for the reasons outlined below, consultancy fees claimed by eir should be excluded from the calculation of the net cost.
199. With respect to the specific costs that may be claimed by a USP as a consequence of providing USO services, Decision 2 of D04/11 states that:
- "It is only the portion of costs, both capital and operational expenditure for the given financial year that can be directly attributed to the USP service (i.e. the service activity creates the cost) and which could have been avoided without the USO, which are included in the net cost calculation".*
200. This, in ComReg's view, reflects the wording of Article 12 (Costing of universal service obligations) of the Universal Service Directive and Regulation 11 of the Universal Services Regulation. Specifically, Article 12(1) of the Universal Services Directive identifies the object of the net cost calculation as follows:
- "(1). Where national regulatory authorities consider that the provision of universal service as set out in Articles 3 to 10 may represent an unfair burden on undertakings designated to provide universal service, they shall calculate the net costs of its provision."⁴⁹*

⁴⁸ In correspondence, eir noted that the actual amount incurred in respect of consultancy fees was approximately [\times €] less than the amount claimed in the Frontier Report 'USO Model Documentation – 2015/16: a report prepared for eir'. eir explained that this higher figure was not reflective of the finalised fee estimate from PwC.

⁴⁹ Article 12 (1) of the Universal Service Directive is transposed by Regulation 11 (1) of the Universal Services Regulations, which states:

"11. (1) Where an undertaking designated as having an obligation under Regulation 3, 4, 5, 6, 8 or 9 seeks to receive funding for the net costs of meeting the obligation concerned, it may submit to the Regulator a written request for such funding."

201. In forming its preliminary view, ComReg further considered Article 13 (Financing of universal services obligations) of the Universal Service Directive, which sets out what costs may be entitled to financing (i.e. funding), if an unfair burden is found to exist and a sharing mechanism were to be established. In this regard, Article 13 (2) states:

“(2) ... Only the net cost, as determined in accordance with Article 12, of the obligations laid down in Articles 3 to 10 may be financed.”⁵⁰

202. ComReg also had regard to Part B of Annex IV of the Universal Service Directive which states that:

“The recovery or financing of any net costs of universal service obligations requires designated undertakings with universal service obligations to be compensated for the services they provide under non-commercial conditions.”⁵¹

203. Having regard to the Universal Service Directive, the Universal Service Regulations and Decision 2 of D04/11, ComReg is of the preliminary view that consultants' fees incurred by eir should be disallowed from the net cost as they relate to the preparation and submission of the USO funding application and not to the provision of USO services. ComReg is further of the preliminary view that the cost of making such a USO funding application may involve some services provided by consultants to advise eir in submitting its USO funding application, and which legitimate costs are not costs of any universal service obligation referred to in Articles 3 to 10 of the Universal Services Directive.

204. The decision to make a USO application for funding is eir's commercial decision and is not required by any universal service obligation. It should be noted that ComReg also considers that the costs attributable to preparing a USO funding application should decrease over time. In this respect, ComReg notes that since eir's 2009/10 USO funding application, the consultancy fees claimed by eir have decreased considerably from €750,000 to €239,380 in eir's 2015-2016 USO funding application.

Q. 2 Do you have any observations on ComReg's preliminary view that consultancy costs incurred in respect of a USO funding application do not form part of the net cost?

⁵⁰ Article 13 (2) of the Universal Service Directive is transposed by Regulation 12 (2) of the Universal Services Regulation as follows:

“(2) The Regulator shall establish a sharing mechanism administered by it or a body independent from the designated undertaking, which body shall be under the supervision of the Regulator. Only the net cost, as determined in accordance with Regulation 11, of the obligations provided for in Regulation 3, 4, 5, 6, 8 or 9 may be financed.”

⁵¹ The same wording appears in the Universal Service Regulations at Schedule 2, Part B.

7 Approach to calculating intangible benefits

205. This section sets out ComReg's preliminary view on the intangible benefits calculation of eir's 2015-2016 USO funding application (Figure 16).
206. Decision 35 of D04/11 requires that the net cost calculation must assess the benefits, including intangible benefits that accrue to the USP, by virtue of being the USP. It provides that, at a minimum, ComReg will consider the following benefits:
- Brand recognition⁵²
 - Ubiquity
 - Life-cycle
 - Marketing
207. Decision 36 of D04/11 sets out the key principles underpinning the identification and quantification of the aforementioned intangible benefits, summarised as follows:
- The benefits represent effects on a USP of providing the USO which have not been accounted for in the direct costing methodology
 - Avoid the double counting of any benefits
 - The benefits are those accruing to the USP, as a consequence of being the designated USP (any benefit arising from the fact that the USP is a large player in the market is to be excluded from the calculations).
208. Decision 37 refers to methodologies and data sources for calculating the benefits. In reviewing the calculations and data sources used by the USP to assess the value of benefits, Decision 37 notes that ComReg reserves the right to implement alternative methodologies and data sources to verify the appropriateness of the value of the benefits resulting from the USO.

⁵² This may also be referred to in this consultation document as "enhanced brand recognition".

209. ComReg commissioned Oxera to review the Frontier Intangible Benefits Report for 2015-2016, which outlined eir's approach to the estimation of the intangible benefits and to obtain its view as to the robustness and accuracy of the estimate for inclusion in the net cost. Oxera's assessment was provided to ComReg in the Oxera Intangible Benefits Report, published as part of this consultation at **Annex 3**.
210. eir's intangible benefits estimates, an adjustment made by ComReg and its consultants to eir's 2015-2016 USO funding application, and ComReg's preliminary view of the value of intangible benefits is set out in Figure 16 below.

USO Net Cost 2015-2016		2015-2016	ComReg Adjustment	2015-2016 ComReg's Preliminary View
		eir's USO funding application	€	€
Intangible benefits (b)	Enhanced brand recognition	€739,171	€0	€739,171
	Life-Cycle	€15,885	-€15,885	€0
	Ubiquity	€11,716	-€116	€11,600
	Marketing	€106,715	-€105,023	€1,692
Total intangible benefits		€873,487	-€121,024	€752,463

Figure 16 : eir's estimates and ComReg's preliminary view of the Intangible Benefits

211. ComReg, having considered the Oxera Intangible Benefits Report, the TERA Report, and information submitted by eir in response to the clarifications process, is of the preliminary view that eir's 2015- 2016 USO funding application is in adherence with D04/11 and specifically in terms of the intangible benefits assessment, with Decisions 31, 35, 36 and 37 of D04/11.

7.1 Overview of Oxera's intangible benefits assessment

212. Oxera undertook a detailed assessment of the methodologies and calculations applied by Frontier on eir's behalf,⁵³ to establish the estimate of the intangible benefits generated as a result of the provision of USO services in 2015-2016.
213. The Oxera Intangible Benefits Report is structured as follows:
- Section 2 summarises Oxera's assessment of eir's approach to estimating the enhanced brand recognition benefits, by virtue of being the USP.
 - Section 3 summarises Oxera's assessment of eir's approach to estimating the life cycle benefits, by virtue of being the USP.
 - Section 4 summarises Oxera's assessment of eir's approach to estimating the ubiquity benefits, by virtue of being the USP.
 - Section 5 summarises Oxera's assessment of eir's approach to estimating the market benefits, by virtue of being the USP.
214. Oxera's assessment of eir's 2015/16 USO funding application involved:
- developing an understanding of the approaches and methodologies adopted by eir and determining their rationale and suitability in calculating the estimation of each intangible benefit category.
 - evaluating the methodologies adopted in eir's USO funding application and the estimates of each intangible benefit category, in respect of their effectiveness and robust implementation in the overall analysis.
215. Oxera raised a number of queries and requests for clarification in relation to the approach used by Frontier. This led to a process of engagement between ComReg and eir, whereby eir engaged Frontier to provide ComReg with responses to Oxera's queries.
216. Additionally, as set out in Section 5, TERA analysed and advised ComReg in relation to the direct net cost elements of the USO for 2015-2016. Oxera liaised with TERA in relation to certain matters to ensure there was no overlap or double counting between revenues accounted for in the direct net cost and the intangible benefits estimates.

⁵³ "Frontier Intangible Benefits Report - Frontier Economics (2017), 'Intangible Benefits of Universal Service Provision in Ireland – 2015-2016; A report prepared for eir', March 2017." (the "**Frontier Intangible Benefits Report**").

217. Oxera has also liaised with TERA with respect to a number of the inputs from the direct net cost USO models (the Area Model and Customer Model) that are used in the calculation of some of the intangible benefits..
218. Figure 16 above sets out the estimates for each intangible benefit category as verified by ComReg and its consultants. The key changes in eir's 2015-2016 USO funding application with respect to the methodology and calculations used to estimate intangible benefits are summarised in this Section and further details are set out in the Oxera Intangible Benefits Report.

7.2 Identification and quantification of the intangible benefits

219. As noted above, Decisions 35 and 36 of D04/11 set out the principles to identify of the benefits (including intangible) that can accrue to the USP, and to avoid any double counting of benefits between the direct net cost calculation and the intangible benefits estimate.
220. In accordance with Decision 35 of D04/11, eir's 2015-2016 USO funding application estimates the following benefits:
- Enhanced brand recognition;
 - Ubiquity;
 - Life-cycle; and
 - Marketing.

7.2.1 Enhanced brand recognition

221. Enhanced brand recognition refers to the benefits generated as a result of greater brand recognition, corporate reputation and associated goodwill as a result of the provision of USO services.
222. The enhanced brand recognition estimates set out in eir's 2015/16 USO funding application was €739,171.

223. Oxera has reviewed the approach taken by eir in determining the value of brand recognition benefits. Oxera engaged with eir/Frontier to clarify the rationale for eir's change the methodology (i.e. from assessing the enhanced brand recognition benefits separately for DSP and non DSP subscribers). Oxera consider absent a new survey, the approach taken by eir is appropriate. In Oxera's view, eir's high-level principles for estimating the enhanced brand recognition benefit were consistent with D04/11. It was noted by Oxera that the specific micro economic model used by eir and its application of principles had been modified to take account of Oxera's previous recommendations on improvements to the methodology for this benefit valuation. This is set out in detail in the Oxera Intangible Benefits Report.
224. On the basis of the analysis and reasoning set out in the Oxera Intangible Benefits Report, ComReg is of the preliminary view that the value estimated by eir for the enhanced brand benefit of €739,171 for the purposes of eir's 2015-2016 USO funding application is reasonable.

7.2.2 Life-Cycle benefits

225. Potential life-cycle benefits that may be enjoyed by the USP over time, include subscribers who may have been uneconomic, but who become profitable owing to changes in respect of usage of the USP's services.
226. eir used a net present value approach to estimate the profits generated from uneconomic customers in each year over their lifetime, based on forecasts of future volumes, prices and avoidable costs. The present value of this stream of profits was then calculated for each customer. Customers who had a positive net present value (from a life-cycle perspective) were considered to be economic and were removed from the list of uneconomic customers when the direct net cost of the USO was calculated. The benefit was therefore calculated as the reduction in the estimated net cost of the USO due to the removal of customers and areas that were uneconomic in a single year, but economic from a life-cycle perspective.
227. eir has used a time horizon of five years as it considered that eir's customer lifetime was the appropriate time period to use when calculating the life-cycle benefits.⁵⁴

228. Oxera identified a mechanical error in one of the formulas used by eir to calculate the revenue mark-up by eir. [REDACTED]

⁵⁴ eir uses a time horizon of five years to generate a 'central estimate'. To check how sensitive the estimates are to the time period used, eir considered a range of three to five years and found that the results were not sensitive to the choice of time period.

229. [REDACTED]. As a result, Oxera consider that in the 2015/16 application period there were no lifecycle benefits.
230. Oxera found eir's approach to estimating the life-cycle benefits and the assumptions used as part of the calculation to be reasonable. Oxera noted that eir's high-level principles for estimating life-cycle benefits were consistent with the principles followed in eir's 2009/10 Intangible Benefits Report.⁵⁵ Oxera noted, however, that the application of the principles had been modified to take account of Oxera's recommendations in respect of eir's 2009-2010 USO funding application. Oxera noted that the methodology for calculating the life cycle benefit and the intangible benefits model eir used for 2015/16 are the same as those used in its final 2014/15 USO funding application.
231. Oxera has also confirmed certain matters with TERA to ensure there was no overlap or double counting between revenues accounted for in the direct net cost calculation and the intangible benefit estimates.
232. Overall, Oxera considered that eir's approach to estimating the life-cycle benefits, and the applications of this approach were in accordance with D04/11.
233. On the basis of the analysis and reasoning set out in detail in the Oxera Intangible Benefits Report, ComReg is of the preliminary view that the life-cycle benefit model inputs imply that there were no life-cycle benefits in 2015-2016. Therefore the life-cycle benefit has been adjusted by ComReg to €0 for the 2015/16 period.

7.2.3 Ubiquity benefits

234. Ubiquity benefits refer to the profit that the USP derives, owing to its USP status, from retaining a proportion of consumers who move from uneconomic to economic areas. Specifically, some customers who migrate are likely to remain as customers of the USP rather than switching to an alternative provider, because they are aware that the USP can provide them with services in all areas and are uninformed about the presence of other providers.
235. In addition, ubiquity benefits can arise from the ability of the USP to market to business customers that it is able to service their requirements nationally. Ubiquity benefits may also arise from the economic benefit a USP derives as a result of positive network externalities.

⁵⁵ WIK-Consult, 'Intangible Benefits of Universal Service Provision in Ireland; Report for eircom for the 2009/10 financial year', 30 November 2012.

236. eir's estimate of the ubiquity benefits is solely based on the benefits arising from migration flows, i.e. an estimate of the increase in profit margins that eir generated from retaining a greater share of customers moving from uneconomic to economic areas, as a result of its USP status, than it would otherwise have retained.
237. In the 2015/16 USO funding application, eir included an additional parameter, alpha (α), that was not included in eir's 2009/10 Intangible Benefits Report, to reflect that only some of its customers were unaware of alternative providers when they move.
238. Alpha (α) represented the percentage of eir residential customers who were unaware of alternative providers. This parameter has been added to ensure that only customers who moved from uneconomic to economic areas *and* who were unaware of alternative providers were included in the calculation.
239. In eir's 2015-2016 application, alpha is based only on the responses provided by non-DSP subscribers. In response to Oxera queries, eir/Frontier provided justification for the change in approach (i.e. as to ensure consistency between the sample used to estimate the parameter and the sample used to calculate the willingness to pay parameter for the enhanced brand recognition benefits). However, eir stated that it does not see any reason why awareness of other operators would be dependent on the DSP subsidy and, therefore suggested reverting to the approach used in previous applications.
240. Oxera therefore re-estimated the ubiquity benefits based on the alpha derived from responses provided by both DSP and non-DSP subscribers, rather than the alpha based on non-DSP subscribers only. This change in the parameter had a marginal impact on the estimated ubiquity benefits, decreasing the estimate submitted by eir by €116, from €11,716 to €11,600.
241. Oxera also noted that the way in which β ⁵⁶ is calculated for eir's 2015/2016 USO funding application has been changed since eir's 2009/10 Intangible Benefits Report, although the meaning of the term remained the same.
242. The number of eir customers was based on the number of eir's lines as opposed to the number of accounts. eir clarified, and Oxera agreed, that for the purposes of estimating ubiquity benefits the number of lines was used consistently throughout the calculations.⁵⁷

⁵⁶ β is eir's market share among migrants from uneconomic to economic areas – eir's market share in economic areas

⁵⁷ eir noted that basing the number of eir subscribers on the number of eir's lines is a reasonable approach and eir has also highlighted that the difference in the number of lines and the number of accounts has a very marginal impact on the estimated intangible benefits. We have been unable to test the impact of the assumption on the estimate of ubiquity as the intangibles model is based on data for individual lines.

243. Oxera noted that eir's high level principles for estimating ubiquity benefits were consistent with the principles followed in eir's 2009/10 Intangible Benefits Report, though some aspects of eir's intangible benefits model have been modified to take account of Oxera's recommendations in respect of its 2009-2010 USO funding application. Oxera also noted that the methodology for calculating the ubiquity benefit and the intangible benefits model eir used for 2015-2016 are the same as those used in its final 2014/15 USO funding application. On the basis of the analysis and reasoning set out in the Oxera Intangible Benefits Report, Oxera considered that the approach used by eir to calculate the ubiquity benefit was reasonable.
244. Having reviewed Oxera's assessment of the methodology and calculation of ubiquity benefits, ComReg is of the view that eir's approach and estimation of ubiquity benefits for the purpose of its 2015-2016 USO funding application is reasonable. On the basis of advice provided by Oxera and TERA, ComReg is of the preliminary view that the adjusted value for the ubiquity benefit of €11,600 is reasonable to include in the net cost calculation.

7.2.4 Marketing benefits

245. Marketing benefits associated with the USO include the benefits that the USP may derive from having access to customer data that is acquired because it is the USP, and from being able to advertise itself on uneconomic public payphones at no cost.
246. eir's estimate solely focused on the benefits generated from advertising on uneconomic public payphones. eir argued that benefits from being able to use customer data from uneconomic customers and from displaying its logo on Wi-Fi hotspot login pages, was either likely to be negligible or could not be quantified robustly.
247. eir's approach to calculating the marketing benefit was consistent with the approach taken in eir's 2009/10 Intangible Benefits Report. eir's 2015-2016 application used a more detailed source of revenue data. eir was able to collect advertising revenue for each individual payphone, where in prior years only total payphone advertising revenue was available.
248. eir's estimate of the marketing benefits in its 2015-2016 USO funding application was €106,715.

249. Oxera made a downward adjustment of €105,023 to eir's estimate of marketing benefits in its 2015-2016 USO funding application. This reflects the change of status of payphones which become economic once advertising revenue is taken into account, and the exclusion of payphones for which the net cost could have been avoided by eir (see section 8.2.1 of the TERA Report and sections 5.2 and 5.3 of the Oxera Intangible Benefits Report). eir's marketing benefit estimate was accordingly adjusted by Oxera, resulting in a reduced marketing benefit of €1,692.
250. Oxera noted that eir's high-level principles for estimating the marketing benefits were consistent with the principles followed in eir's 2009/10 Intangible Benefits Report, which Oxera considered were reasonable.
251. Having reviewed the marketing benefit assessment provided by Oxera and TERA's advice, ComReg is of the preliminary view that the adjusted value of €1,692 for eir's marketing benefits is reasonable to include in the net cost calculation.

7.3 ComReg's preliminary views – total intangible benefits and positive net cost

252. ComReg is of the view, on the basis of the assessment and review undertaken by Oxera and following a downward adjustment of €105,023 to the marketing benefit, a downward adjustment of €15,885 to the life-cycle benefit, and a downward adjustment of €116 to the ubiquity benefits, that €752,463 is a reasonable estimate of the total intangible benefits that arose from eir's provision of the USO in 2015-2016 and that this amount should be included in the net cost calculation.

D04/11 ComReg's Preliminary View	
Decision 31	<p>The calculation of the benefits of the USO shall be completed by an external expert, independent of the USP. These calculations must clearly set out: the respective methodologies; assumptions and supporting documentation used at deriving the benefits of the USO.</p> <p>These calculations must provide: (a) the benefit (in monetary terms) that the USP derives as a commercial operator; (b) the benefit (in monetary terms) that the USP derives as a result of the USO; and (c) a reconciliation with reasoning to explain the incremental difference between (a) and (b).</p>
	ComReg confirms, on the basis of the assessment and review undertaken by Oxera, that eir has provided reports prepared by external experts, Frontier, for the purposes of calculating the benefits of the USO. The reports clearly set out the necessary calculations, methodologies and assumptions applied in

	calculating the benefits of the USO.
Decision 35	<p>The net cost calculation must incorporate an assessment of the benefits, including intangible benefits that can accrue to the USP. ComReg will consider, at a minimum, the following benefits (as a result of the USO) for a USO net cost calculation:</p> <ul style="list-style-type: none"> • Enhanced brand recognition. • Ubiquity. • Life-cycle. • Marketing.
	ComReg confirms, on the basis of the assessment and review undertaken by Oxera, that eir's estimations assessed the relevant benefits.
Decision 36	<p>For the identification of the benefits, ComReg will observe the following key principles:</p> <ul style="list-style-type: none"> • The benefits represent effects on a USP of providing the USO which have not been accounted for in the direct costing methodology (for example, any benefits that are directly identifiable to specific revenue streams, including indirect and replacement calls revenues are excluded having been covered by the direct net cost calculation). • Avoid the double counting of any benefits. • The benefits are those accruing to the USP, as a consequence of being the designated USP (any benefit arising from the fact that the USP is a large player in the market is to be excluded from the calculations).
	ComReg is satisfied, on the basis of the assessment and review undertaken by both Oxera and TERA, that there is no evidence of double counting with the direct net cost methodology and that the appropriate benefits, accruing only as a result of eir's USP status, are considered.
Decision 37	<p>The methodologies to assess the value of the benefits that will actually be used cannot be prescribed in advance of receiving an application for USO funding from the USP.</p> <p>Pending receipt of the first USO funding application, ComReg will actively continue to evolve and refine a number of potential methodologies for the purposes of valuing the benefits of the USO.</p> <p>ComReg reserves the right to implement alternative methodologies and data sources to verify the appropriateness of the value of the benefits resulting from the USO.</p> <p>During the course of the USO funding application assessment, ComReg will review the valuation of the benefits provided by the USP.</p>
	ComReg engaged with Oxera to review the estimates prepared by Frontier (eir's independent expert) of the benefits to the USP. This included a review of the robustness and accuracy of the

	estimates and methodologies used by eir.
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Figure17: ComReg's Preliminary View - Compliance with Decisions 31, 35, 36 and 27 of D04/11

253. The net cost, as calculated equates to the difference between the avoidable costs attributable to the provision of the USO (both direct and indirect) minus the revenues (both direct and indirect) attributable to the provision of the USO.
254. Taking account of ComReg's preliminary views of the calculated direct net cost and the total intangible benefits that arose from eir's provision of the USO, as outlined in Section 5 and Section 7 respectively, ComReg is of the preliminary view that there is a positive net cost to eir for the financial year 2015/16 of €6,701,390.

Q. 3 Based on ComReg's assessment, detailed in Sections 5 and 7, do you have any observations on ComReg's preliminary view that the positive net cost for 2015/16 is €6,701,390?

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8 Determination of an unfair burden

8.1 Assessment approach

255. The existence of a positive net cost does not automatically constitute an unfair burden or automatically give rise to the need for USO funding. D04/11 sets out the principles and methodologies to be considered in determining whether a net cost represents an unfair burden on a USP.
256. On receipt of an application for funding from the USP, and having established that there is a positive net cost to the USP of providing the USO, ComReg will determine whether this positive net cost represents an unfair burden on the USP, on a case by case basis.
257. In summary, based on Oxera's analysis in the Unfair Burden Report 2015-2016, ComReg's preliminary view is that for the financial year 2015-2016 the positive net cost did not constitute an unfair burden on eir.
258. The analysis in Oxera's Unfair Burden Report 2015-2016 is conducted on the basis of the positive net cost figure claimed by eir of €12,861,430, rather than ComReg's preliminary view of the lower positive net cost figure of €6,701,390⁵⁸.
259. This section provides an overview of the steps that ComReg, with the benefit of Oxera's advice, took in arriving at its preliminary view as to whether the positive net cost to eir of providing the USO in 2015-2016 constituted an unfair burden.
260. To facilitate ComReg in forming its preliminary view and draft determination as to whether or not there is an unfair burden on eir in respect of its 2015-2016 USO funding application, ComReg engaged Oxera to assess the relevant information and data relevant to eir's financial period 2015/16.
261. Oxera was instructed to conduct its analysis by reference to the established principles and methodologies for assessing an unfair burden in Decisions 38 to 42 of D04/11. For ease of reading, these decisions are set out below:

⁵⁸ It should be noted that ComReg's preliminary view on the unfair burden assessment would not be impacted had Oxera instead based its analysis on the positive net cost figure as adjusted by ComReg of €6.7m.

Decisions 38 to 42 of D04/11

- **(Decision 38)** – For there to be an unfair burden, three cumulative conditions must be met:
 - i. There must be a verifiable and verified direct net cost
 - ii. The benefits of the USO must not outweigh the net cost (i.e. there is a positive net cost)
 - iii. This positive net cost is (a) material compared to administrative costs of a sharing mechanism, and (b) causes a significant competitive disadvantage for a USP.
- **(Decision 39) — Administrative cost assessment** - if the positive net cost is relatively small, ComReg will determine, on the basis of audited costs of the USO, whether USO financing is or is not justified, taking into account the administrative costs of establishing and operating a sharing mechanism (compared to the positive net cost of the USO) and taking into account whether these costs are disproportionate to any net transfers to a USP.
- **(Decision 40) — Assessment of the USP's financial position** - if the positive net cost is not relatively small, ComReg will assess whether or not this net cost significantly affects a USP's profitability and/or ability to earn a fair rate of return on its capital employed.
- **(Decision 41)—Competitive distortions assessment** - if the positive net cost significantly affects a USP's profitability, ComReg will assess whether or not such a net cost materially impacts a USP's ability to compete on equal terms with competitors going forward.
- **(Decision 42) —Supporting criteria to determine unfair burden –**

ComReg will use the following criteria, statically and dynamically, to determine whether or not a net cost burden is actually unfair:

 1. Changes in profitability, including an understanding of where a USP generates most of its profits over time.
 2. Changes in accounting profits and related financial measures—e.g. earnings before interest, tax, depreciation and amortisation (EBITDA) analysis.
 3. Changes in direct USO net cost, if any, over time.
 4. Estimates of average level of cross-subsidy between classes of more or less separately accounted for services, and changes in these over time.
 5. Changes in prices over time.
 6. Changes in market share and/or changes in related markets.
 7. Market entry barriers.

8.2 Summary of Oxera's unfair burden assessment

262. Oxera's assessment was provided to ComReg in a report referred to as the "Unfair Burden Report 2015-2016", published as part of this consultation at **Annex 4**. The Unfair Burden Report 2015-2016 is structured as follows:

- Section 2 summarises the approach taken by Oxera to assess whether the net cost represents an unfair burden.
- Section 3 presents analysis of the level of the net cost, consistent with Decision 39.
- Section 4 consistent with Decision 40 and Decision 42, presents analysis of eir's financial position including the impact of the net cost on eir's profitability and ability to earn a fair rate of return on capital employed, and sets out Oxera's view on whether the net cost for this application represents an unfair burden.
- Section 5 sets out Oxera's conclusion to inform ComReg's determination

263. In summary, Oxera carried out the following assessments:

- **Administrative cost assessment (Decision 39)**⁵⁹ - Oxera determined that the net cost of the USO is not small relative to the administrative costs of establishing and operating a sharing mechanism.
- **Assessment of the USP's financial position in 2015-2016 (Decision 40)** - Oxera, having assessed that the net cost of the USO was not small relative to the administrative costs of a sharing mechanism (Decision 39), and having regard to the criteria outlined in Decision 42, analysed the USP's financial position in 2015-2016. This analysis included an assessment of the absolute level of eir's profitability as well as its return on capital employed.
- Oxera also considered additional financial indicators, and as broader context for the profitability analysis, indicators of eir's economic situation such as its pricing and fixed line market share, which illustrate the context of the fixed line market in which eir operates. Oxera found that the USP's profitability and ability to earn a fair rate of return on its capital employed⁶⁰, had not been significantly affected by the USO.
- Oxera set out its findings in relation to quantitative indicators relevant to its unfair burden assessment, in Table 1.1 of its Executive Summary (below):

⁵⁹ In this context, Oxera also had regard to Decision 38 (iii) (a) which states that one of the conditions to be met before an unfair burden can be found is that: "*This positive net cost is (a) material compared to administrative costs of a sharing mechanism*".

⁶⁰ Based on asset values reported in eir's HCA regulatory accounts for the financial period 2015/16 (which reflect the HCA cost methodology required by Decision 1 of D04/11).

Quantitative indicators to assess unfair burden

	2015/16	Relevant section
USO net cost	€12.9m	Section 3
Administrative costs ¹	€0.4m	Section 3
Earnings before interest and taxes (EBIT)	€190m	Section 4.1
Return on capital employed (ROCE)	10.8%	Section 4.1
Increase in ROCE, if there were no USO net cost	0.73%	Section 4.1
WACC range (point estimate)	6.26–9.44% (8.18%)	Section 4.1
USO net cost as a proportion of revenue	1.36%	Section 4.2
USO net cost as a proportion of EBIT	6.8%	Section 4.2
Market share by revenue ²	49%	Section 4.3
Annual change in total ARPU	[X] %	Section 4.3
Annual change in total customers	[X] %	Section 4.3

Note: ¹ We have not estimated a new figure of administrative costs for this application; rather, we have used the figure which applied in the assessment of the 2009/10 funding application. The extent of the differential between the current net cost of the USO (i.e. €12.9m) and the previous estimate of administrative costs of €0.4m is significant enough to suggest that an increase in administrative costs (e.g. due to inflation) since 2009/10 would not have eliminated this differential. ² The market share by revenue is based on total external revenues from fixed-line services. Source: Oxera analysis.

- Scope of the relevant business – fixed line:** It should be noted that Oxera's analysis of eir's financial position was based on eir's fixed-line business. This includes all of eir's integrated fixed-line business, including wholesale and retail, business and residential, including data communications and interconnection services but excludes mobile services. Amongst other things, Oxera considered this was appropriate because eir's integrated fixed-line business represents a good proxy for the profitability of the businesses that could be directly linked to the USO network.
- Oxera's analysis in support of the choice of the fixed line business is further outlined in **Appendix A1**, 'The scope of the relevant business' of the Unfair Burden Report 2015-2016.
- Oxera's findings** - The Executive Summary of Oxera's Unfair Burden Report 2015-2016 summarises its findings as follows:

“Given the USP's financial position in 2015/16, Oxera is of the view that the net cost did not significantly affect eir's profitability, and its ability to earn a fair rate of return on its capital employed. Oxera has not therefore applied Decision 41 (i.e. whether the net cost materially impacts eir's ability to compete on equal terms with competitors going forward).”

In summary, eir's financial position indicates that, in the period under assessment, the net cost of the provision of the USO did not impose an unfair burden. During the financial year 2015/16, eir provided the USO while earning profits that were in excess of the regulatory allowed weighted average cost of capital (WACC), referred to as the 'competitive benchmark'.⁶ Notwithstanding a decline in its total number of customers, eir's average revenue per user was stable in 2015/16 relative to the 2014/15 financial year, eir increased the average revenue per user, retained a significant market share by revenue in the fixed-line market, and it was well positioned to internalise the cross-subsidy in providing the USO."

⁶WACC is a benchmark measure of the return that investors (i.e. equity owners and lenders) can expect from investing in a business. See section 4 for further discussion.

- Following Oxera's unfair burden assessment, it concluded:

"In summary, having analysed eir's financial position and having considered indicators of eir's economic situation which illustrate the context of the fixed line market in which eir operates and serve as broader context for the profitability analysis, we find that eir's profitability and ability to earn a fair rate of return on capital employed have not been significantly affected by the net cost of the USO and, therefore, that the burden of the net cost in the period of application was not excessive in view of eir's ability to bear it.

We find that the net cost of the USO did not represent an unfair burden on eir in 2015/16."

- Overall, Oxera concluded that the net cost of the USO did not constitute an unfair burden on eir in 2015-2016.

8.3 ComReg's preliminary determination in respect of an unfair burden

264. ComReg has carefully considered Oxera's Unfair Burden Report 2015-2016 to facilitate its determination regarding whether there is an unfair burden on eir in the specific financial period under assessment.

265. In respect of the choice of relevant business, based on Oxera's analysis, and in particular because the activities included within the integrated fixed line businesses are not dissociable from the USO, ComReg agrees that the fixed-line business is the most relevant to the analysis of eir's financial position.

266. Having considered eir's 2015-2016 USO funding application and the reports prepared by its consultants TERA and Oxera, ComReg is of the preliminary view that the first two of the three conditions in Decision 38 of D04/11 (outlined above) are met, as:

- i. There is a verified direct net cost to eir of €7,453,853. This figure represents the calculated direct net cost as determined by ComReg and takes account of adjustments made by ComReg and its consultants after receipt of eir's 2015-2016 USO funding application, as outlined in Figure 1 of this document; and
- ii. The estimate of benefits to eir as a result of the provision of the USO, amounting to €752,463, do not outweigh the direct net cost of the USO. ComReg is of the preliminary view that there is a positive net cost of €6,701,390

267. However, ComReg is of the preliminary view that only the first condition outlined at Decision 38 (iii) (a) (i.e. not that at 38 (iii) (b)) was met, as follows:-

Decision 38 (iii) (a) – “The positive net cost is (a) material compared to administrative costs of a sharing mechanism”:

- The objective of this test is to assess whether the costs of implementing a sharing mechanism are below the net revenue that would be collected by the USP from the other market players in the event that a sharing mechanism was implemented.
- ComReg is of the preliminary view, having considered Section 3 of the Unfair Burden Report 2015-2016, that the size of the positive net cost in 2014/15 is material compared to the administrative costs of a sharing mechanism. This is informed by the results of Oxera's assessment showing that the size of the positive net cost is not relatively small and that the positive net cost and / or net transfers to the USP (if an unfair burden were determined by ComReg) would most likely exceed the administrative costs of establishing and operating any sharing mechanism.
- Consequently, ComReg is of the preliminary view that these administrative costs would not likely be disproportionate to any potential net transfers the USP would receive through such a sharing mechanism, and that the objective of this test is met.
- ComReg is therefore of the preliminary view that it was appropriate to undertake the next step of the assessment process, namely assessing whether the positive net cost creates an unfair burden on the USP by reference to Decision 38 (iii) (b).

Decision 38 (iii) (b) – “The positive net cost [is] (b) causes a significant competitive disadvantage for a USP”:

- Having considered Section 4 of the Unfair Burden Report 2015-2016, ComReg agrees with Oxera’s conclusions in respect of Decision 40, namely that the positive net cost for 2015-2016 did not significantly affect eir’s profitability and ability to earn a fair rate of return on capital employed. Therefore, ComReg is of the preliminary view that this positive net cost did not represent an unfair burden on eir.
- In this light, ComReg does not consider that the above condition 38 (iii) (b) of D04/11 was met or, in other words, that the positive net cost in respect of the financial year 2015-2016 caused a significant competitive disadvantage for eir.

268. Given Oxera’s conclusions above in respect of Decision 40 and ComReg’s preliminary views, ComReg did not consider that a competitive distortions assessment pursuant to Decision 41 of D04/11 was required for the 2015-2016 unfair burden assessment.

269. In conclusion, ComReg is of the preliminary view that the positive net cost for the financial year 2015-2016 of €6,701,390 (or the higher figure of €12,861,430 as claimed by eir) does not represent an unfair burden on eir.

Q. 4 Following ComReg’s assessment, do you have any observations on ComReg’s preliminary view that a positive net cost of €6,701,390 (or €12,861,430 as claimed by eir) is not an unfair burden on eir for the period 2015-2016?

9 Regulatory impact assessment (RIA)

270. A RIA is a structured approach to the development of policy, and analyses the impact of regulatory options on different stakeholders. ComReg's approach to RIA is set out in the Guidelines published in August 2007.⁶¹ In conducting the RIA, ComReg take account of the RIA Guidelines⁶² issued by the Department of An Taoiseach in June 2009 and adopted under the government's Better Regulation programme.
271. Section 13(1) of the Communications Regulation Act 2002, as amended, requires ComReg to comply with certain Ministerial Policy Directions. Policy Direction 6 of February 2003 requires that before deciding to impose regulatory obligations on undertakings we must conduct a RIA in accordance with European and International best practice, and otherwise in accordance with measures that may be adopted under the Government's Better Regulation programme. In conducting the RIA, ComReg also has regard to the fact that regulation by way of issuing decisions, for example imposing obligations or specifying requirements, can be quite different to regulation that arises by the enactment of primary or secondary legislation.
272. ComReg's published RIA Guidelines, in accordance with a policy direction to ComReg, state that ComReg will conduct a RIA in any process that may result in the imposition of a regulatory obligation, or the amendment of an existing obligation to a significant degree, or which may otherwise significantly impact on any relevant market or any stakeholders or consumers. However, the Guidelines also note that in certain instances it may not be appropriate to conduct a RIA and, in particular, that a RIA is only considered mandatory or necessary in advance of a decision that could result in the imposition of an actual regulatory measure or obligation, and that where ComReg is merely charged with implementing a statutory obligation then it will assess each case individually and will determine whether a RIA is necessary and justified.

⁶¹ ComReg Document 07/56 & 07/56a.

⁶² RIA Guidelines - Department of Taoiseach.

273. In this consultation, ComReg considers that it is not exercising its discretion by imposing a discretionary regulatory obligation that would require a regulatory impact assessment (RIA) but is acting under a statutory obligation imposed on it by Regulation 11 of the Universal Service Regulations, which requires that upon receipt of an application for funding from the USP, ComReg shall determine whether a positive net cost has been incurred and if so, whether this positive net cost represents an unfair burden for the USP. As such, if an application for funding has been received, ComReg has no discretion as to whether or not such an assessment is undertaken. Therefore, a RIA is not being undertaken for this consultation.

10 Next steps and submitting comments

274. The timeframe for receipt of submissions to this consultation paper is 20 April 2021 during which time ComReg welcomes written responses on any of the issues raised in this consultation document. It is requested that comments within submissions make reference to the relevant question numbers from this consultation document.
275. In order to promote further openness and transparency, ComReg will publish all respondents' submissions to this consultation, subject to the provisions of ComReg's Guidelines on the Treatment of Confidential Information – ComReg 05/24 and its obligation under Regulation 15 of the European Communities (Electronic Communications Networks and Services) (Framework) Regulations 2011.
276. Respondents are requested to clearly identify confidential material and place such material in a separate annex to responses.
277. Respondents are also requested to provide any electronic submissions in an unprotected format so that they can be appended into ComReg's submissions document for electronic publication.

11 Draft determination

1.1 Statutory Powers

1.2 This Determination is hereby issued by the Commission for Communications Regulation ("ComReg"):

i. Pursuant to Regulation 11 of the European Communities (Electronic Communications Networks and Services) (Universal Service and end users' rights) Regulations 2011 ("the Regulations").

ii. Pursuant to the principles and methodologies set out in ComReg Document, D04/11 "Report on Consultation and Decision on the Costing of Universal Service Obligations Principles and Methodologies" dated 31 May 2011;

iii. Having regard to the submissions received and set out in ComReg Document No. XX/XX;

iv. Having regard to the analysis and reasoning set out in ComReg Document No XX/XX;

vi. Having regard to ComReg's functions and objectives under sections 10 and 12 respectively of the Communications Regulation Acts 2002 – 2011;

vii. Having, where relevant, complied with Policy Directions made by the Minister

1.3 Determination

1.4 Following the assessment of the funding application received from Eircom Limited ("eir") pursuant to Regulation 11(1) of the Regulations on 31 March 2017, in relation to the net cost of meeting its universal service obligations in the financial year 2015-2016, as accompanied by supporting information in compliance with Regulations 11(2) and 11 (5) of the Regulations, ComReg has determined, in accordance with Regulations 11 (3) and 11 (4) of the Regulations, that there was a positive net cost comprised of the following figures:

USO Net Cost 2015-2016		ComReg €
Direct net cost (a)	Uneconomic Areas	€ 444,959
	Uneconomic Customers	€ 6,289,628
	Directories	€ 680,000
	Payphones	€ 22,929
	Services for Disabled End Users	€ 16,336
	Direct net cost	€ 7,453,853
Intangible benefits (b)	Enhanced brand recognition	€ 739,171
	Life-cycle	€ 0
	Ubiquity	€ 11,600
	Marketing	€ 1,692
	Total intangible benefits	€ 752,463
Net cost (after intangible benefits) / Positive net cost		€ 6,701,390

1.5 Pursuant to the calculation of the positive net cost, and in accordance with Regulation 11(3) and 11 (4) of the Regulations, ComReg has determined that for the financial year 2015-2016, the positive net cost of meeting the universal service obligation does not represent an unfair burden on eir.

Annex 1 - Consultation questions

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Q. 1 Do you have any observations on the results of ComReg's direct net cost calculation?.....	57
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Q. 3 Based on ComReg's assessment, detailed in Sections 5 and 7, do you have any observations on ComReg's preliminary view that the positive net cost for 2015/16 is €6,701,390?.....	70
Q. 4 Following ComReg's assessment, do you have any observations on ComReg's preliminary view that a positive net cost of €6,701,390 (or €12,861,430 as claimed by eir) is not an unfair burden on eir for the period 2015-2016?.....	77

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Annex 2 – TERA Report - “Assessment of eir’s USO funding application – direct net cost 2015-2016”

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Annex 3 - Oxera Report - “Assessment of eir’s calculation of intangible benefits for 2015-2016”

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Annex 4 - Oxera Report - “Unfair Burden Report 2015-2016”

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