

Initial Report

Last Modified: 10/02/2014

1. Are you content for the Government to publish your response?

#	Answer	Bar	Response	%
1	Yes, I would like the Government to publish my response.		1	100%
2	No, I do not want the Government to publish my response.		0	0%
	Total		1	

2. Please explain why you regard the information you have provided in response to this consultation as confidential.

This question was not displayed to the respondent.

3. Name

Text Response

Stuart Ward FBCS

4. Are you responding on behalf of an organisation?

#	Answer	Bar	Response	%
1	Yes		0	0%
2	No		1	100%
	Total		1	

5. Organisation name

This question was not displayed to the respondent.

6. Contact email address

Text Response

stuart.ward@bcs.org

7. Contact address

Text Response

98 Connaught Rd Reading Berkshire Berkshire

8. Please select which category best describes you or your organisation

#	Answer	Bar	Response	%
1	Academia/research		0	0%
2	Broadcasting		0	0%
3	Consumer/user		0	0%
4	Consumer group		0	0%
5	Fixed communications provider		0	0%
6	Industry organisation		0	0%
7	Infrastructure provider		0	0%
8	Internet Service Provider		0	0%
9	Local Government or other public sector		0	0%
10	Mobile communications provider		0	0%
11	Satellite communications provider		0	0%
12	Technology company		0	0%
13	Other		1	100%
14	Business user or business group		0	0%
	Total		1	

9. If other, please give details.**Text Response**

Joint founder of Hackspace Rlab.org.uk

10. Is this an appropriate role for Government?

#	Answer	Bar	Response	%
1	Yes		1	100%
2	No		0	0%
	Total		1	

11. Are there other high level principles the Government might adopt?

#	Answer	Bar	Response	%
1	Yes		1	100%
2	No		0	0%

	Total		1	
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12. If yes, please give details.

Text Response

Like the roads the Governments should ensure that the infrastructure is in place, and set rules based on principal. Like equality of access, Net Neutrality, Rights of access. But not police usage, or censor content.

13. What resources do you consider the Government should aim to deploy to effectively manage its role?

Text Response

Separate Openreach from BT totally and give it a mission to create backbone connectivity of fibre to every premiss.

14. What potential opportunities are there for Government to leverage its combined buying power to support policy objectives?

This question was not answered by the respondent.

15. If migration to IPV6 is required, are there any barriers to that migration?

#	Answer	Bar	Response	%
1	I think there are significant barriers.		0	0%
2	I think there are insignificant barriers.		0	0%
3	I do not think there are any barriers.		1	100%
4	I do not think IPV6 is required.		0	0%
	Total		1	

16. How might these barriers be addressed?

This question was not displayed to the respondent.

17. Is an ongoing disparity of provision of broadband services across the country inevitable?

#	Answer	Bar	Response	%
1	Yes		0	0%
2	No		1	100%
	Total		1	

18. If so, should this be addressed?

This question was not displayed to the respondent.

19. How might this be done most effectively?

This question was not displayed to the respondent.

20. How symmetrical will digital communications networks have to be in the future? Will this differ across user types? What implications does this have for fixed and wireless broadband provision?

Text Response

Asymmetric provision is an anomaly and will soon disappear or become irrelevant.

21. Which countries should be our benchmarks on communications infrastructure to ensure that business remains in the UK and continues to invest?

Text Response

Netherlands, Germany, Japan

22. What metrics do you think should or will become relevant in comparing network performance in different countries?

Text Response

% of population connected to networks, Speed of basic connection.

23. What metrics should most appropriately be used as the basis to set objectives for Government policy?

Text Response

% of population connected to 2MB, 10MB, 100MB, 1GB % of rural connections 2MB, 10MB...

24. Do you agree with this scenario or elements within it?

#	Answer	Bar	Response	%
1	Strongly Disagree		0	0%
2	Disagree		0	0%
3	Neither Agree nor Disagree		1	100%
4	Agree		0	0%
5	Strongly Agree		0	0%

	Total		1	
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25. Where do you agree/disagree? If you disagree what alternative scenario do you envisage?

Text Response

This is a baseline scenario, and assumes that consumption of network bandwidth continues on a roughly linear growth. This is not what history tells us. More likely network consumption will continue to follow a "Moors Law" exponential growth.

26. What are your views on the technology commentary underpinning this scenario? To what extent might the infrastructure/technology discussed evolve irrespective of demand and how far it be a direct consequence of the level of demand?

Text Response

Broadly agree, but even if the delivery is mostly wireless this requires a wired (fibre optic) infrastructure to support it.

27. Are there technologies not identified here that you think will have a major impact on the performance of existing infrastructure or the deployment of additional infrastructure in the next 10-15 years?

#	Answer	Bar	Response	%
1	Yes		1	100%
2	No		0	0%
	Total		1	

28. If yes, please give details.

This question was not answered by the respondent.

29. Are there wider environmental issues not reflected in the scenario e.g. the price of availability of energy that will affect any of the scenarios?

#	Answer	Bar	Response	%
1	Yes		0	0%
2	No		1	100%
	Total		1	

30. In what way might these wider environmental issues affect any of the scenarios?

This question was not displayed to the respondent.

31. How likely is any unforeseen disruption to this scenario?

#	Answer	Bar	Response	%
1	Very Unlikely		0	0%
2	Unlikely		0	0%
3	Undecided		0	0%
4	Likely		1	100%
5	Very Likely		0	0%
	Total		1	

32. In what area might it occur?

This question was not displayed to the respondent.

33. Do you agree with this scenario or elements within it?

#	Answer	Bar	Response	%
1	Strongly Disagree		0	0%
2	Disagree		0	0%
3	Neither Agree nor Disagree		0	0%
4	Agree		1	100%
5	Strongly Agree		0	0%
	Total		1	

34. Where do you agree/disagree? If you disagree what alternative scenario do you envisage?

Text Response

If the government dose nothing to enforce principled rules on the net development this is a more likely eventuality. The main issue will be ISPs creating consumer lock-in by increasing switching costs to consumers.

35. What are your views on the technology commentary underpinning this scenario? To what extent might the infrastructure/technology discussed evolve irrespective of demand and how far it be a direct consequence of the level of demand?

Text Response

This is scenario in driven by a lack of rules being enforced on the ISPs. The current USA ISP provision is currently in this state because of the small number of large players are excluding competition and this causes lack of investment and increasing prices.

36. Are there technologies not identified here that you think will have a major impact on the performance of existing infrastructure or the deployment of additional infrastructure in the next 10-15 years?

#	Answer	Bar	Response	%
1	Yes		0	0%
2	No		1	100%
	Total		1	

37. If yes, please give details.

This question was not displayed to the respondent.

38. Are there wider environmental issues not reflected in the scenario e.g. the price of availability of energy that will affect any of the scenarios?

#	Answer	Bar	Response	%
1	Yes		0	0%
2	No		1	100%
	Total		1	

39. In what way might these wider environmental issues affect any of the scenarios?

This question was not displayed to the respondent.

40. How likely is any unforeseen disruption to this scenario?

#	Answer	Bar	Response	%
1	Very Unlikely		0	0%
2	Unlikely		0	0%
3	Undecided		1	100%
4	Likely		0	0%
5	Very Likely		0	0%
	Total		1	

41. In what area might it occur?

This question was not displayed to the respondent.

42. Do you agree with this scenario or elements within it?

#	Answer	Bar	Response	%
1	Strongly Disagree		0	0%
2	Disagree		0	0%
3	Neither Agree nor Disagree		0	0%
4	Agree		0	0%
5	Strongly Agree		1	100%
	Total		1	

43. Where do you agree/disagree? If you disagree what alternative scenario do you envisage?

Text Response

If the government enforces a competitive environment for provision this is the most likely scenario. Network usage and bandwidth will expand exponentially, and companies will compete to provide different layers of the network. There are key areas where government action will help this. EG: Mandating that all new buildings have network wiring installed in the building code, in the same way that power and lighting are required.

44. What are your views on the technology commentary underpinning this scenario? To what extent might the infrastructure/technology discussed evolve irrespective of demand and how far it be a direct consequence of the level of demand?

This question was not answered by the respondent.

45. Are there technologies not identified here that you think will have a major impact on the performance of existing infrastructure or the deployment of additional infrastructure in the next 10-15 years?

This question was not answered by the respondent.

46. If yes, please give details.

This question was not displayed to the respondent.

47. Are there wider environmental issues not reflected in the scenario e.g. the price of availability of energy that will affect any of the scenarios?

#	Answer	Bar	Response	%
1	Yes		0	0%
2	No		1	100%
	Total		1	

48. In what way might these wider environmental issues affect any of the scenarios?

This question was not displayed to the respondent.

49. How likely is any unforeseen disruption to this scenario?

#	Answer	Bar	Response	%
1	Very Unlikely		0	0%
2	Unlikely		1	100%
3	Undecided		0	0%
4	Likely		0	0%
5	Very Likely		0	0%
	Total		1	

50. In what area might it occur?

This question was not displayed to the respondent.

51. Are there factors, for example technical or unrelated to the regulatory framework, that could create bottlenecks and delay future infrastructure deployment in the UK in this timeframe, that would result in demand not being met or the UK not being seen as a leading digital nation?

#	Answer	Bar	Response	%
1	Yes		0	0%
2	No		1	100%
	Total		1	

52. Please give details.

This question was not displayed to the respondent.

53. Do you expect commercial providers to deliver future infrastructure and meet demand on a purely commercial basis, or is some form of public intervention likely?

#	Answer	Bar	Response	%
1	Commercial providers will meet demand on a purely commercial basis.		0	0%
2	Some form of public intervention is likely.		1	100%
	Total		1	

54. If public intervention is likely how might that work with the commercial provision of infrastructure? What form might that intervention take?

Text Response

Certain policy changes will assist in creating the competitive environment to make this more likely. Such as separating Openreach from BT. And ensuring low switching costs for consumers.

55. Which current or draft legislation might prevent or facilitate the emergence of any of the scenarios?

Text Response

The attempts to enforce stricter copyright laws on behalf of the old media organisation are currently causing major harm to the network. Those media organisation should be forced to compete with illegal services until their products are better, then the customers will come back. There are many innovative media companies that have failed because of the strangle hold of the big media, and government should step in a break up these monopolies rather than passing ever stricter laws to support their failed business models.

56. Do you have views on which scenario (or combination of scenarios) is most likely and should influence the development of future strategy?

#	Answer	Bar	Response	%
1	Scenario 1		0	0%
2	Scenario 2		0	0%
3	Scenario 3		1	100%
4	None		0	0%

57. Please give your reasoning for why you think this scenario or combination of scenarios is most likely.

Text Response

I think this is the right course for the UK, and I hope that the government makes this a target and fosters development. I worry that the other scenarios will happen because of the overwhelming influence that large media companies have over government.

58. How might efficient investment in communications infrastructure be supported, for example by changes in the regulatory framework?

Text Response

Require net neutrality. Rescind the Digital Economy Act 2010 Make GCHQ subject to RIPA and have their activities overseen by the Interception Commissioner in a public report. Require all new buildings to have Ethernet wiring as standard. Make BT separate from Openreach

59. Are any further measures necessary to incentivise the rollout of future

mobile infrastructure in currently underserved areas?

#	Answer	Bar	Response	%
1	Yes		0	0%
2	No		1	100%
	Total		1	

60. Please give details.

This question was not displayed to the respondent.

61. Is there a role for a revised USO or USC to ensure that minimum consumer demand requirements are met and to reduce the potential for a new digital divide? What might this look like?

#	Answer	Bar	Response	%
1	I think there is a role for a revised USO		0	0%
2	I think there is a role for a revised USC		0	0%
3	I think there is a role for both a revised USC and a revised USO		0	0%
4	I do not think a revised USO or USC are needed		1	100%
	Total		1	

62. What might this look like?

This question was not displayed to the respondent.

63. In terms of supporting future innovation and long-term investment in infrastructure, what areas of broadcasting regulation may have served its purpose by 2025 -2030 (or indeed earlier). What future technical developments may also have longer term implications for regulation and wider public policy?

Text Response

Increases in Licence free spectrum. The level of innovation would be enhanced if there was more unlicensed spectrum available.

64. Are there changes to the EU Framework that the UK might seek to encourage more competition in UK markets?

This question was not answered by the respondent.

65. Please give details.

This question was not displayed to the respondent.

66. Should Government seek changes to the European Framework which put more reliance on competition law?

#	Answer	Bar	Response	%
1	Strongly Disagree		0	0%
2	Disagree		0	0%
3	Neither Agree nor Disagree		1	100%
4	Agree		0	0%
5	Strongly Agree		0	0%
	Total		1	

67. How might this be done?

This question was not displayed to the respondent.

68. In what ways can you see competition driving technological change in the UK in the future?

This question was not answered by the respondent.

69. How can the regulatory framework keep up to date with new business models and changes in technology?

Text Response

Regulation should be principal based not technology based. The current Data Protection Act is a good model for this type of legislation.

70. Are there any changes to legislation other than the Communications Act that would incentivise the provision of communications infrastructure?

#	Answer	Bar	Response	%
1	Yes		1	100%
2	No		0	0%
	Total		1	

71. What might these changes be?

Text Response

See my answer previously: Require net neutrality. Rescind the Digital Economy Act 2010 Make GCHQ subject to

RIPA and have their activities overseen by the Interception Commissioner in a public report. Require all new buildings to have Ethernet wiring as standard. Make BT separate from Openreach

72. Would there be benefits to investment from a focus on broadband only services? Are there any barriers to the emergence and adoption of broadband only services, whilst still providing necessary access to emergency services?

This question was not answered by the respondent.

73. Please give details.

This question was not answered by the respondent.

74. Are there any barriers to the emergence and adoption of broadband only services, whilst still providing necessary access to emergency services?

This question was not answered by the respondent.

75. Please give details.

This question was not answered by the respondent.

76. How might copper access networks evolve over time alongside other access technologies? Is there a role for policymakers in helping manage any transition from copper to other access networks?

Text Response

Multi tenanted buildings are a case where net provision should be provided by the service owner, but this needs to be done in a manner that promotes competition.

77. Views are sought on whether there are any additional actions the Government should consider to ensure that the provision of all areas of the UK's digital communications infrastructure remains competitive in order to ensure that the UK can take full advantage of growth opportunities in the Digital Age.

This question was not answered by the respondent.

78. Aside from legislation and adapting the regulatory framework in the broad sense which other actions should the Government take to encourage investment in communications infrastructure?

This question was not answered by the respondent.

79. Views are sought on whether there are any additional actions the Government should consider to ensure that potential investment in the provision of digital communications infrastructure offers a suitable risk and reward profile to

ensure that they can be financed by the private sector.

This question was not answered by the respondent.

80. Views are sought on the case for the UK to invest to gain 'early mover advantage'.

This question was not answered by the respondent.

81. Views are sought on what areas in particular the UK should aim to see investment in.

This question was not answered by the respondent.

82. Are there any actions not covered elsewhere in this report that the government should consider to ensure digital communications infrastructure is in place before it is needed and such that it helps generate need?

This question was not answered by the respondent.

83. How might we maximise the current R&D and innovation UK landscape to help take advantage of the opportunities provided by future technologies? What needs to be done by Government and its agencies, and industry to tackle any gaps?

This question was not answered by the respondent.

84. In which future communications technologies that you consider the UK has, or could achieve, an international leadership position?

This question was not answered by the respondent.

85. What more might government and industry do to exploit future technologies, associated new applications and emerging business models?

This question was not answered by the respondent.

86. What role might local bodies have in facilitating the future delivery of digital communications infrastructure?

This question was not answered by the respondent.

87. How can councils maximise the digital communications infrastructure in their local area to support their work on economic regeneration?

This question was not answered by the respondent.

88. Please provide details of information you feel is relevant to the development of the Digital Communications Infrastructure Strategy and not already covered by the consultation questions.

This question was not answered by the respondent.