



The Next Generation Internet - Show us your vision!

Fields marked with * are mandatory.

Vision for a Next Generation Internet initiative

Internet is ever more critical for most aspects of our daily life, both for work and for leisure. A Next Generation Internet can provide radically new functionalities, become a more human Internet, and contribute to a stronger presence and competitiveness of the EU worldwide. Private and public efforts in the domain are huge, and may dramatically change the way Internet works in the future.

The European Commission launches an open consultation as a basis for a renewed Internet initiative under the ICT part of the Horizon 2020 Research and Innovation Work Programme, in order to better understand stakeholders' expectations and to learn where to set future priorities in this area.

In this consultation we want to be as open as possible. We focus on some technology areas that could have a strong influence in the development of the Internet in the years to come, however we are open to learn from you about new future priorities.

Please keep your answers brief and to the point in the "free text" boxes in order to facilitate the processing of the responses.

A preparatory consultation was done in March 2016. We provide you the consultation report on Futurium.

On Futurium we have created a space which provides you with additional information, background documents and other material. This is also where we will launch additional discussions on those topics that raise most interest in the consultation which gives you the opportunity to provide more detailed contributions.

The deadline for giving input to this consultation is 16th December 2016.

A report with the outcomes of this consultation will be published in January 2017 on Futurium.

Identification of Respondent

*** You reply to this consultation as** *(up to two answers are possible)*

- ☐ researcher/ research institution
- ☐ small and medium enterprise (SME)/ start-up
- ☐ enterprise (not SME)
- ☐ industry (ICT sector)
- ☐ industry (other sectors)
- ☐ public employee/ public administration
- ☐ non-governmental organisation (NGO)
- ☐ other

Any category that is not mentioned above

100 character(s) maximum

*** Gender**

- ☐ female
- ☐ male

*** Age**

- ☐ 18-24
- ☐ 25-34
- ☐ 35-50
- ☐ 51-65
- ☐ over 65

***In what country do you live at the moment?**

- ☐ Austria
- ☐ Belgium
- ☐ Bulgaria
- ☐ Croatia
- ☐ Cyprus
- ☐ Czech Republic
- ☐ Denmark
- ☐ Estonia
- ☐ Finland
- ☐ France
- ☐ Germany
- ☐ Greece
- ☐ Hungary
- ☐ Ireland
- ☐ Italy
- ☐ Latvia
- ☐ Lithuania
- ☐ Luxembourg
- ☐ Malta
- ☐ Netherlands
- ☐ Poland
- ☐ Portugal
- ☐ Romania
- ☐ Slovak Republic
- ☐ Slovenia
- ☐ Spain
- ☐ Sweden
- ☐ United Kingdom
- ☐ other

Any country that is not mentioned above

100 character(s) maximum

*** Have you ever applied for or participated in a Horizon 2020 research and innovation project?**

- ☐ Yes
- ☐ No

Questions

How would you rate the importance of the following statements?

	5 (high)	4	3	2	1 (low)
Internet should be more for humans - social, easy, immersive, emotional!	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Internet should avoid the concentration of data in a few proprietary platforms.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Internet should ensure diversity, pluralism and a right to choose.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Internet should ensure citizens' sovereignty over their own data and protect privacy.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Internet should be more inclusive, participatory and transparent.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Internet should be a level playing field for new entrants and new economic models.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Internet should be more resilient, secure and safe.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Internet should be a real agent of change towards sustainability.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other Statements? Please, share with us!

200 character(s) maximum

Questions focussed on technology areas

In the next sections you will be able to provide your opinion on the relevance of the technology areas identified and provide additional information in "free text" fields.

Since this initial list is not exhaustive, please tell us in addition which technology areas you consider key drivers in future Internet developments.

Please note that you do **NOT** have to respond to each of the technology areas below but only to those that you consider particularly important or where you have relevant expertise.

In addition, at the end of the consultation there are two more questions regarding types of research and key research actors - we would like to know your view on this!

Technology area 1: New search engines

Search engines that are better fit to discover and identify devices, sensors, data sets or services.

How important do you consider this area to drive the transformation of the Internet?

- ☐ very important
- ☐ important
- ☐ not that relevant

Research and Innovation challenges that will be critical to address in this area:

1000 character(s) maximum

Indicate up to two relevant national or European initiatives in the area:

500 character(s) maximum

What is your expertise in this technology area?

- ☐ I work in this area
- ☐ I have a good understanding of the area
- ☐ I have just general knowledge

Technology area 2: Immersive environments and new forms of interactions

The increased computing and transmission power allows conceptualizing immersive environments that will have an impact in the way we interact in professional and private life, while raising new challenges related to virtual reality, behavior, interactions, spatial recognition and geographic information systems.

How important do you consider this area to drive the transformation of the Internet?

- ☐ very important
- ☐ important
- ☐ not that relevant

Research and Innovation challenges that will be critical to address in this area:

1000 character(s) maximum

Indicate up to two relevant national or European initiatives in the area:

500 character(s) maximum

What is your expertise in this technology area?

- ☐ I work in this area
- ☐ I have a good understanding of the area
- ☐ I have just general knowledge

Technology area 3: Personal data spaces

Technologies to achieve greater control of personal data, of what is shared and with whom.

How important do you consider this area to drive the transformation of the Internet?

- ☐ very important
- ☐ important
- ☐ not that relevant

Research and Innovation challenges that will be critical to address in this area:

1000 character(s) maximum

Indicate up to two relevant national or European initiatives in the area:

500 character(s) maximum

What is your expertise in this technology area?

- ☐ I work in this area
- ☐ I have a good understanding of the area
- ☐ I have just general knowledge

Technology area 4: **Distributed architectures and decentralised data governance**

As the number of network elements, edge devices and data exchanges scales up, there is an increasing need for highly distributed architectures and decentralised data governance approaches.

How important do you consider this area to drive the transformation of the Internet?

- ☐ very important
- ☐ important
- ☐ not that relevant

Research and Innovation challenges that will be critical to address in this area:

1000 character(s) maximum

Indicate up to two relevant national or European initiatives in the area:

500 character(s) maximum

What is your expertise in this technology area?

- ☐ I work in this area
- ☐ I have a good understanding of the area
- ☐ I have just general knowledge

Technology area 5: Software defined technologies

As hardware is increasingly commoditized, the evolution towards software-defined technologies may provide more functionalities and control for the allocation of resources, configuration and deployment, and may open new opportunities to develop the Internet.

How important do you consider this area to drive the transformation of the Internet?

- ☐ very important
- ☐ important
- ☐ not that relevant

Research and Innovation challenges that will be critical to address in this area:

1000 character(s) maximum

Indicate up to two relevant national or European initiatives in the area:

500 character(s) maximum

What is your expertise in this technology area?

- ☐ I work in this area
- ☐ I have a good understanding of the area
- ☐ I have just general knowledge

Technology area 6: Networking solutions beyond IP

To overcome limitations from the TCP/IP on mobility, QoS and content flows.

How important do you consider this area to drive the transformation of the Internet?

- ☐ very important
- ☐ important
- ☐ not that relevant

Research and Innovation challenges that will be critical to address in this area:

1000 character(s) maximum

Indicate up to two relevant national or European initiatives in the area:

500 character(s) maximum

What is your expertise in this technology area?

- ☐ I work in this area
- ☐ I have a good understanding of the area
- ☐ I have just general knowledge

Other important technology areas not mentioned above

*Please add **up to two** other important technology areas not mentioned above.*

Additional important technology area 1 *(not mentioned above)*

Title of another important technology area:

100 character(s) maximum

Description of the area and research and innovation challenges that will be critical to address in this area:

2000 character(s) maximum

Indicate up to two relevant national or European initiatives in the area:

500 character(s) maximum

How important do you consider this area to drive the transformation of the Internet?

- ☐ very important
- ☐ important
- ☐ not that relevant

What is your expertise in this technology area?

- ☐ I work in this area
- ☐ I have a good understanding of the area
- ☐ I have just general knowledge

Additional important technology area 2 (*not mentioned above*)

Title of another important technology area:

100 character(s) maximum

Description of the area and research and innovation challenges that will be critical to address in this area:

2000 character(s) maximum

Indicate up to two relevant national or European initiatives in the area:

500 character(s) maximum

How important do you consider this area to drive the transformation of the Internet?

- ☐ very important
- ☐ important
- ☐ not that relevant

What is your expertise in this technology area?

- ☐ I work in this area
- ☐ I have a good understanding of the area
- ☐ I have just general knowledge

Type of research and key research actors

Type of research

Which type of research is necessary to bring out the Internet of tomorrow? Is this:

- ☐ long-term research only
- ☐ applied research only
- ☐ a combination of long-term and applied research
- ☐ other

Any category that is not mentioned above

100 character(s) maximum

Key research actors

Who do you believe should be target key actors to carry out the research work?

- ☐ academic researchers
- ☐ high-tech startups
- ☐ industry
- ☐ other

Any key research actor that is not mentioned above

100 character(s) maximum