Public survey on Net Innovation for the Work Programme 2016-2017

Fields marked with * are mandatory.

Note:
Please do not forget to fill the compulsory questions of part B below. Without this, your input will not be valid.

A. Net Innovation priorities for the Work Programme 2016-2017

1. What topics should be supported by the next "Horizon 2020" Work Programme 2016-2017 to accelerate new forms of Internet-based innovation throughout Europe?

2,000 character(s) maximum

How to generate value from Big Data, how to better deduce useful information from Big Data, and new ways of interacting with Big Data. Challenges are not just volume but also all of velocity, variety, and veracity.

Data analytics and novel statistical and mathematical algorithms (e.g. for predictions) should be integrated into web services and applications, together with advanced visualization techniques and tools (3/4D, histographical styles, etc), where e.g. the users could apply touchless gesturing which transforms ways to work or play with data through interaction, and transform collaboration with and about data. Services to generate knowledge from data should accept complex queries from users, extract data that match the query, aggregate relevant data, and present results in a user-friendly manner by the use of visualization tools.

Future big data infrastructures should allow different groups of users to work on the same data sets, build their own (virtual) collaborative environments, safely store intermediate results, and later share the discovered results. New data provenance, security and access control mechanisms and tools should allow users to link their results with the initial data (sets) and intermediate data to allow future re-use/re-purpose of data.

Crowdsensing applications are becoming more and more important. With the recent proliferation of smart phones equipped with a number of sensors, new crowdsensing applications continuously emerge, such as environmental, infrastructure and social applications. Challenges for web platforms and services include how to aggregate data in order to build models and detect spatio-temporal patterns of the phenomena studied, and unified architectures that can be used by multiple crowdsensing applications and different devices while protecting the privacy of individuals and the integrity of data.

2. What would you like to see as outcomes from the projects funded through "Net Innovation" calls for proposals 2016-2017?

1,000 character(s) maximum

Open Innovation Platforms for facilitating and accelerating net-based innovation ecosystems, bringing together stakeholders needed to build and maintain sustainable ecosystems.

Large-scale innovative single-market experiments in one or more sectors, e.g. geospatial and environment, acting as a test bed for web entrepreneurs and SMEs to establish businesses opportunities across Europe, based on seamless multilingual cross-border services and data sets.

New content creation, aggregation and sharing applications that provide new information-rich high-quality content, allowing manipulation, re-use, linking and sharing.

Improved networking and delivery infrastructures allowing seamless use of applications and access to content from different devices, supporting easy content discovery and synchronization, graceful service degradation, and hiding complexity from end-users. Personalisation of services by different devices should be offered in a unified form, protecting individual privacy.

3. Which are the main barriers preventing new forms of Internet-based innovation throughout Europe?

1,000 character(s) maximum

Mobile devices, used for creating and managing content from any location, face energy, bandwidth and computational constraints. It is essential to be able to utilize these scarce resources efficiently, e.g. in cooperative content creation, catering for privacy, security and integrity of data, and without significantly affecting data quality.

It is important to preserve the security and privacy of individuals, while at the same time enabling content creation, and not impeding the free flow of useful information. Privacy and trust are constrained by the degree to which we can operate as personas without disclosing our real identity. Data from and about such personas could be used to understand usage patterns, or for other analysis, and improve the empowerment of users, customers, prosumers, etc, enabling innovative business models and value chains.

A further important barrier is the slow opening of data by public agencies and authorities.

4. Do you recognise the trends, opportunities, and key issues described in the reference documents (see consultation page, under "Reference documents") as essential to 'Net Innovation'?

- ⦿ Yes
- ○ Yes, but with a different emphasis on particular elements (Please specify)
- ○ Yes, but some essential elements are missing (Please specify)
- ○ No, not at all because … (Please specify)

5. At present Net Innovation supports research and innovation actions in the areas of a) Future Internet Public-Private Partnership, b) Collective Awareness Platforms for Sustainability and Social Innovation, c) Web Entrepreneurship, and d) Digital Business Innovation. In your view what further actions will be required in these areas?

2,000 character(s) maximum

> The present FI-PPP included all necessary actions for the development of the Future Internet: research for new Internet architectures and ways of operation, development of new infrastructures beyond existing network testbeds, testing and development of new applications and services that run on it. The FI needs to be more citizen-friendly, more social and participatory, and more private; further action is required in these directions.
> Collective Awareness Platforms for Sustainability and Social Innovation need to progress from collective awareness to collaborative action and problem solving. It is not enough to be aware of the problems; the most important is to contribute to the solution. So far community tools have been very successful in answering simple questions. These tools could be extended towards collaborative decision making and problem solving.
> Web Entrepreneurship: Support to entrepreneurs could be provided by opening-up more data, not only from the public sector but also from private businesses. Opening-up data in the private sector can lead to new applications and services, more collaboration opportunities (private-private or private-public), as well as help to build more trust between citizens and private businesses, by making their operation more transparent. Furthermore, support to web entrepreneurs could be provided by making some test infrastructures available to anyone interested in experimenting with a new application.
> Digital Business Innovation: New Internet of Things technologies can help businesses significantly. E.g. in the logistics sector, by monitoring the whole chain, from production to delivery; collecting demand information, assisting in making decisions about optimal delivery paths, and assessing the efficiency of the delivery network.

6. If you want to send a position paper, then please upload here.
Attach File (max 1 MB)

7. Do you have further comments?

1,000 character(s) maximum

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Everything-as-a-Service: Services are emerging as common abstraction
from processes (BPaaS), software (SaaS, PaaS), computing resources
(IaaS), things (TaaS), contents (CaaS), data (DaaS), etc. Novel software
engineering methodologies are needed to exploit eco-systems of
heterogeneous services e.g. in order to select and combine the most
promising service candidates. Run-time adaptation and configuration of
FI Applications will supersede their construction at design time,
requiring new life-cycle models, methods and tools to realize short
innovation and product life-cycles while maintaining quality of service.
Public PaaS solutions will help innovators without advanced skills in
IaaS or system administration to rapidly set up services and to scale
these services to cope with business changes (agility) and success
(scalability). APIs would support generic enablers (identity, billing,
archiving, content management, etc) and specific enablers for use cases
(smart cities, M2M, etc).
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B. Information about you

1. Are you responding to this questionnaire on behalf of/as:*

○ Individual

● Organisation

2. Please enter your name or the name of your organisation*

300 character(s) maximum

NESSI

3. E-mail (this data will not be made public)*

office@nessi-europe.eu

4. Please indicate the type of your organisation
 *

- ○ Not Applicable (if individual)
- ○ Higher Education Establishment
- ○ Public Research Centre
- ○ Private Research Centre
- ○ Non-research Public Sector
- ○ Non-research private non-profit
- ○ CSO (Civil Society Organisation)
- ○ Web entrepreneur
- ○ SME (Small or Medium-sized Enterprise)
- ○ Large industry
- ● Other

Please precise the type of your organisation if 'Other':

ETP

5. Have you or your organisation applied for funding under the current and/or any previous

European Union Framework Programmes for Research (e.g. Horizon 2020, FP7, FP6)?*

- ○ Yes
- ● No

6. Please enter your country of residence or where your organisation is based.

*

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

Please mention the name of your country if 'Other':

EU

7. Received contributions together with the identity of the contributor may be published on the Commission's website. Do you agree to your contribution being published under your name or the name of your organisation?

*

- ◉ My contribution can be published under the name indicated.
- ○ My contribution can be published anonymously.
- ○ I do not agree that my contribution is published.

Contact

✉ CNECT-NET-INNOVATION@ec.europa.eu