



ICT-11-2017

Collective Awareness Platforms for Sustainability and Social Innovation

<http://ec.europa.eu/digital-agenda/en/collectiveawareness>

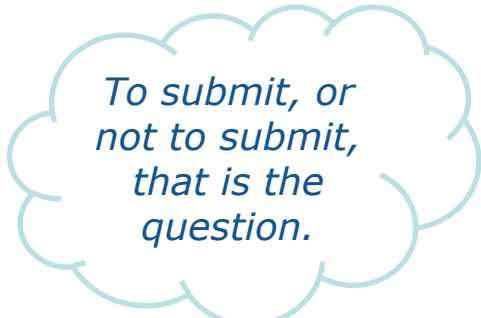
Challenge

- 
- Capitalise on participatory innovation
 - Develop models and blueprints to produce collective intelligence
 - **leveraging on open data, knowledge networks, open hardware and Internet of things**
 - Demonstrate that innovative combinations of existing or emerging network technologies enable new Digital Social Innovation
 - **to cope with emerging sustainability challenges better than with traditional solutions**

ICT-11a: Scope

- **Pilots** of Collective Awareness Platforms (CAPS)
- **Demonstrating** new forms of bottom-up innovation and social collaboration
- Exploiting digital citizen engagement and **collaborative tools**
- Based on **open** data, **open** knowledge, **open** source software and **open** hardware
- Harnessing **crowdsourcing** or **crowdfunding** models
- Leveraging on fresh grassroots ideas and civil society **participation** in the broad digital social innovation domain

ICT-11a: target areas



*To submit, or
not to submit,
that is the
question.*

- New participatory innovation models for economy and society
 - **e.g. collaborative or circular economy, collaborative public services and collaborative making**
- Solutions for sustainable lifestyles
 - **e.g. collaborative consumption and production, smart reuse, low carbon approaches**
- Emerging ethics of digital innovation
 - **e.g. social entrepreneurship, direct democracy, privacy preservation, digital rights**

At least 1 proposal per area will be selected

ICT-11a: methodological approach

- Include in consortia an existing and motivated community of citizens
 - **driving platform development**
- Base the platforms on an appropriate combination of existing or emerging network technologies
 - **e.g. distributed social networks, wikis, sensors, blockchains**
- Demonstrate a durable multidisciplinary collaboration
 - **including in the consortia at least two entities whose main focus of interest is beyond the ICT domain**

ICT-11a: methodological approach



- **Integrating different platforms**, addressing several sustainability challenges
- **Engaging civil society at large**, for instance through NGOs, local communities, social enterprises, non-profit organisations, students and hackers

ICT-11b: Coordination & Support Actions

- Coordinate and **support** the CAPS initiative and the underlying broader digital social innovation constituency
- Identify links and **synergies** among different projects
- Ensure **visibility** and contacts at European and international level

ICT-11: expected impact (1/2)

- Demonstrate **increased effectiveness** of new **bottom-up, open and distributed approaches** exploiting network effects and based on open data /open hardware, compared to existing solutions to societal/sustainability challenges
- Capability to reach a **critical mass** of European citizens and to **transpose** the proposed approaches to **other application areas** related to sustainability
- Achieve **effective involvement of citizens and relevant new actors in decision making**, collective **governance**, new **democracy models, self-regulation, citizen science** and citizens' observatories, new business and economic models

ICT-11: expected impact (2/2)

- Achieve measurable improvement in **cooperation among citizens**, (including elderly), researchers, public authorities, private companies and civil society organisations in the development of new **sustainable and collaborative consumption patterns, new lifestyles, and innovative product and service creation and information delivery**
- Demonstrate the applicability of concrete and **measurable indicators** to assess the social impact and the "**social return of investment**" of the proposed solutions

CAPS: Evolution

Internet Science

Objective 5.1b (FIRE)

Budget: **4M** EUR

2 projects funded

CAPS

Objective 5.5

Budget: **15M** EUR

10 projects funded:

- 5 pilots
- 5 CSAs

CAPS

ICT-10-2015

Budget: 37M EUR

→ **43M** EUR

24 projects funded:

- 17 pilots
- 3 Internet Science
- 2 DSP
- 2 CSA

CAPS

ICT-11-2017

Budget: **10M** EUR

**Distributed
Architectures for
Decentralised Data
Governance**

ICT-12b-2016

Budget: **5M** EUR

CAPS I

**WP 2012-13
(FP7)**

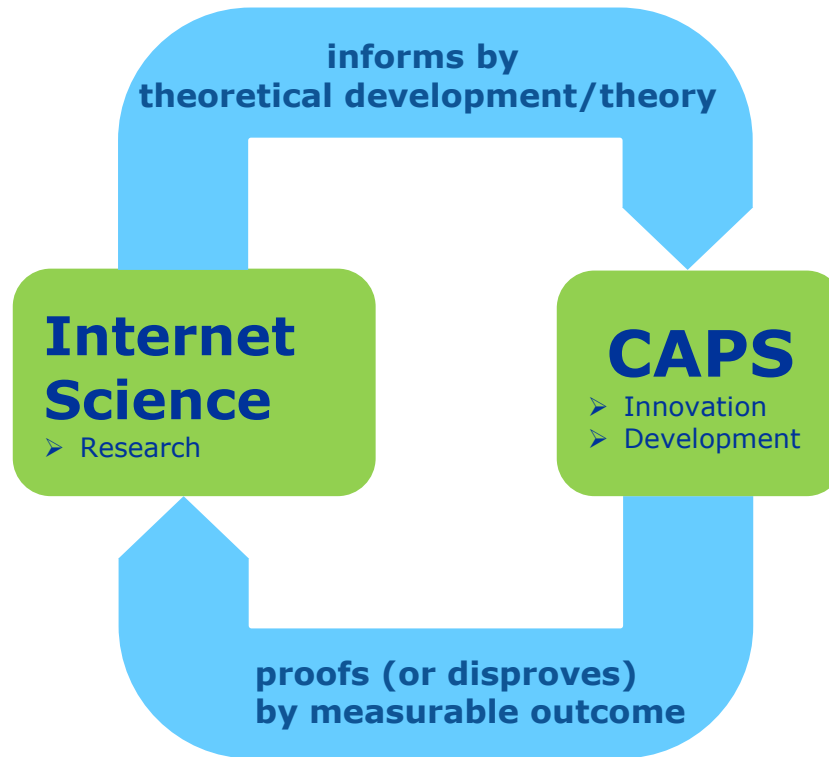
CAPS II

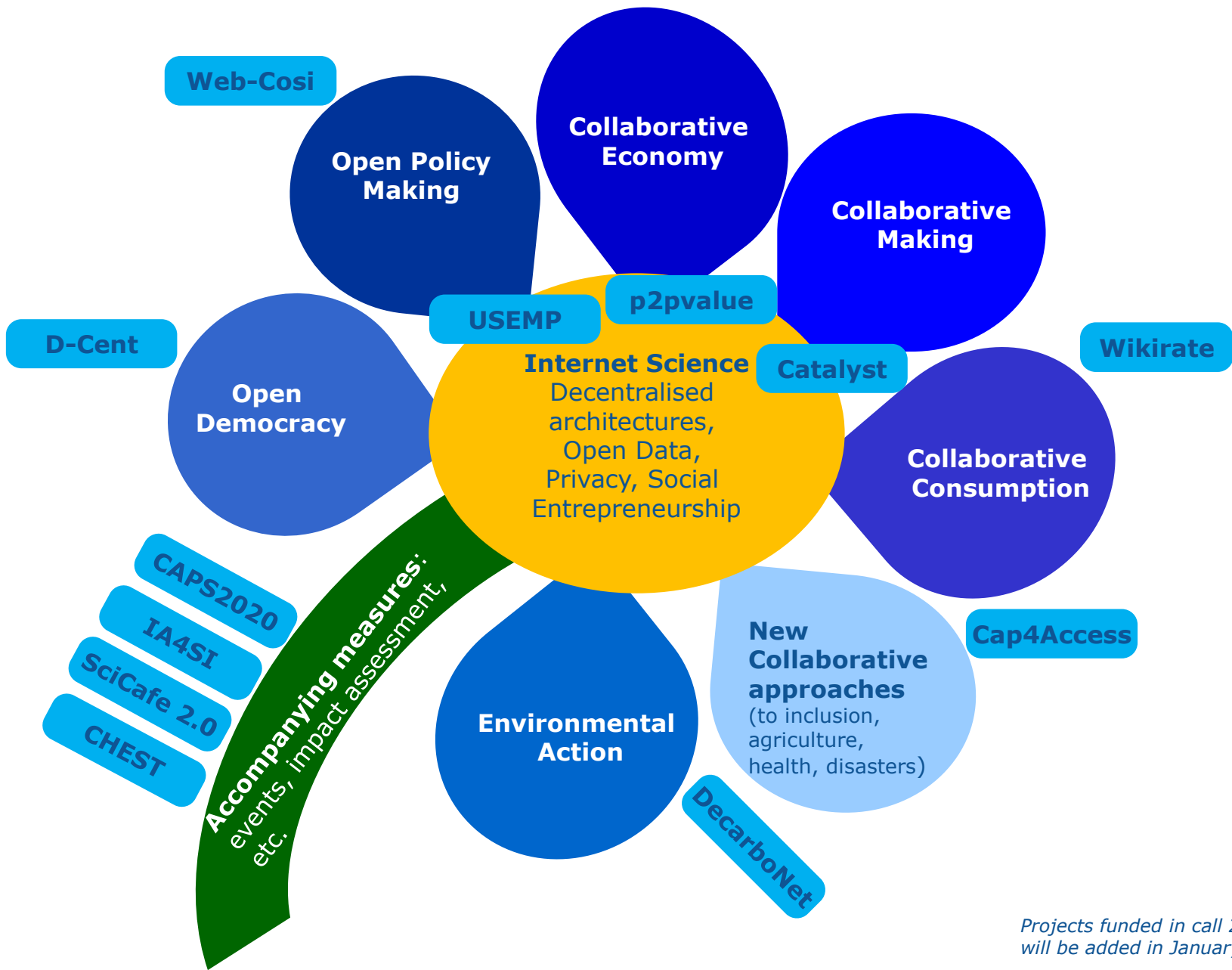
**WP 2014-15
(H2020)**

CAPS III

**WP 2016-17
(H2020)**

CAPS and Internet Science





*Projects funded in call 2
will be added in January 2016*

CAPS: Examples

Open Democracy: enabling citizens' participation in democratic processes (voting, consultation)

- **D-Cent:** *Provide civil society with digital tools for democratic participation*

Open Policy Making: better decision making based on open data

- **WebCosi:** *Increasing trust in collectively-generated statistics*

Collaborative Economy: lending, exchange, swapping made to operate at scale

Collaborative Making: new ways of manufacturing

Collaborative Consumption: rethinking consumerism

- **Wikirate:** enabling citizens to rate companies on corporate social responsibility

Environmental action: applying citizen science and IoT to environmental challenges

- **DecarboNet:** *foster behavioural change to reduce energy consumption*

New Collaborative approaches to inclusion, agriculture, health, disaster management

- **Cap4Access:** *Collectively removing barriers to inclusion*

Internet Science, Decentralised architectures, Open Data, Privacy, Social Entrepreneurship

- **Catalyst:** *Experimenting new collective forms of creativity and collaboration*

Accompanying Measures

- **CAPS2020:** *Organisation and management of events*

Why multidisciplinary?

To understand:

simple **online reputation mechanisms**



Economics

new **collective models for value creation** beyond monetisation

motivations and **incentives** for online collaboration



Innovation

impacts of social networks on **sustainable collective behaviours**



Legal

...



ICT



Physics



Philosophy



Sociology



Psychology



History



Art



European
Commission

EC Study on Digital Social Innovation in Europe

Crowdmapping actors and networks



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What do we NOT want?

- Proposals without a clear existing (and physical) community of motivated users
 - No "virtual" solution
- Proposals technology-driven, or aiming at purely commercial solutions
 - Rather integrating existing technologies
- Consortia without at least two partners which are focused on non-ICT disciplines
 - Be multidisciplinary!

ICT-11-2017: Good to know

- ✓ **Opening:** 8 December 2016
- ✓ **Submission deadline:** 25 April 2017
- ✓ **Budget:** 10 M€ (IA: 9M€, CSA: 1M€)

Work Programme:

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-leit-ict_en.pdf#page=32

CAPS Website:

<http://ec.europa.eu/digital-agenda/en/collectiveawareness>

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ICT-12-2016

Net Innovation Initiative

Challenge

- 
- Turn RTD & I outcomes into business success
 - Exploit the potential that open platforms offer for the development of new services and applications
 - Develop alternatives to current centralised platforms for big and social data management
 - Overcome the dominance of existing incumbent actors, stifling innovation and allowing less and less control over the data by citizens
 - Give key players and ecosystems, startups and SMEs a sufficiently innovative technology to innovate on the net
 - Outcomes of Future Internet RTD & I need to be transferred faster into real life.

ICT-12a: Multi-vendor Open Service Platform

- ✓ Increase competition
- ✓ Avoid vendor lock-in
- ✓ Royalty-free open specifications
- ✓ Open source reference implementations, offered by multiple vendors
- ✓ Deploy FIWARE platform (FP7)

ICT-12a: Innovation Actions (1/2)

- i. FIWARE adoption
 - take-up of FIWARE in **cities**
 - evolution of the FIWARE platform with new context-aware services addressing the needs of cities
- ii. Ecosystem creation
 - development of an engagement strategy
 - building and supporting an open **community** of FIWARE innovators and users (hackathons, challenges, community programmes for startups and SMEs, link to related national and regional programmes)

ICT-12a: Innovation Actions (2/2)

iii. FIWARE sustainability and evolution

- further evolution of the FIWARE platform by an open community
- execution of a **roadmap** (set of supported enablers, reference implementation in open source, maintained and made available to third parties, clear terms and conditions)
- create public sandbox environment for **experimentation** of all supported enablers
- build an open source community to manage the integrity and evolution of the FIWARE technology and to ensure a real multi-vendor approach

iv. Acceleration activities

- support SMEs and startups taking research results of projects in the domain of Future Internet
- financial support to third parties (typically EUR 25,000-75,000 EUR)

ICT-12a: Expected Impact

- Outcomes handed over to an open, multi-stakeholder community
- Ensure the evolution of FIWARE and its take-up among industry and small business
- Establishing FIWARE as the open service platform of choice for cities
- Increased take-up of Future Internet technologies by SMEs and web entrepreneurs
- Significant increase of the effectiveness of business processes and applications of high economic and/or societal value

ICT-12b: Distributed architectures for decentralized data governance (1/2)

- Demonstrating a **distributed open hardware and software platform** (for communications, cloud computing or Internet of Things)
- Supporting decentralised data and identity management and bottom-up participatory innovation
- Provide SMEs, social enterprises, industries, researchers, communities and individuals with a new development platform, which is intrinsically protective of the **digital sovereignty** of European citizens

ICT-12b: Distributed architectures for decentralized data governance (2/2)

- Fully distributed, e.g. using decentralised algorithms based on blockchains
- Resilient, intrinsically resistant to malware and hacking
- Preventing any possible centralisation of data storage or data management
- Able to provide federated identity management

ICT-12b: Goal

- Design, develop and demonstrate an architecture for such a platform
- Involving
 - **technological actors** (P2P and open source developers, open hardware manufacturers, experts in security, encryption, anonymity, blockchains and linked data)
 - **civil society** organisations (citizens' organisations, digital rights advocacies, artists, social scientists)
 - **developers** of the overlying social applications and systems (creative industries, SMEs, social entrepreneurs, software developers).
- To create robust **open standards** for distributed and decentralised architectures (in coordination with industry and academia)

ICT-12b: Expected Impact

- Demonstrate how a distributed architecture can enable **new data services** and disruptive (e.g. commons-based) economic models (as an alternative to the current centralised data management platforms)
- Demonstrate that citizens' generated data can be made available as part of a common distributed and decentralised architecture, open to all, so to **allow new entrants to aggregate data on demand**, bringing unanticipated features and innovative services
- Develop an architecture and open standards allowing European citizens to retain **full control over their digital identities**, and to move their personal profiles between different platforms (data portability)
- Create a **level playing field** for the development of new **collaborative applications and services** based on emerging participatory innovation models that are intrinsically respectful of privacy and ethics

ICT-12c: Coordination and Support Actions

- Support for collaboration and networking in the domain of Future Internet
- Organisation of the Net Futures conference
- Increased multi-disciplinary collaboration among Future Internet communities

ICT-12-2016: Good to know

- ✓ **Opening:** 20 October 2015
- ✓ **Submission deadline:** 12 April 2016
- ✓ **Types of action:** Innovation Action (IA, 12a), Research and Innovation Action (RIA, 12b), Coordination and Support Action (CSA, 12c)
- ✓ **Budget:** 15M € (12a), 5M € (12b), 200,000 € (12c)

Work Programme:

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-leit-ict_en.pdf#page=34

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Regulatory environment for platforms, online intermediaries, data and cloud computing and the collaborative economy

Public Consultation:

- *This is a key action under the Digital Single Market*
- *Understand better the **key role of platforms** with the aim to create framework conditions for the digital world*
- *Addresses also **Open Service Platforms***
- *For the first time policy makers sound out stakeholders to present their issues, concerns and advice.*
- ***Reply by 30 December 2015***

Specific questions on Open Service Platform:

"What are in your opinion the socio-economic and innovation advantages of open versus closed service platforms and what regulatory or other policy initiatives do you propose to accelerate the emergence and take-up of open service platforms?"

[Go to Survey](#)

Looking for experts!

- are YOU an **expert** in the topic?
- are YOU **not submitting** a proposal?
- do YOU want to **work as evaluator** for these calls?

Please send an email and a short CV to CNECT-SOCIAL-INNOVATION@ec.europa.eu.



WE WANT YOU