

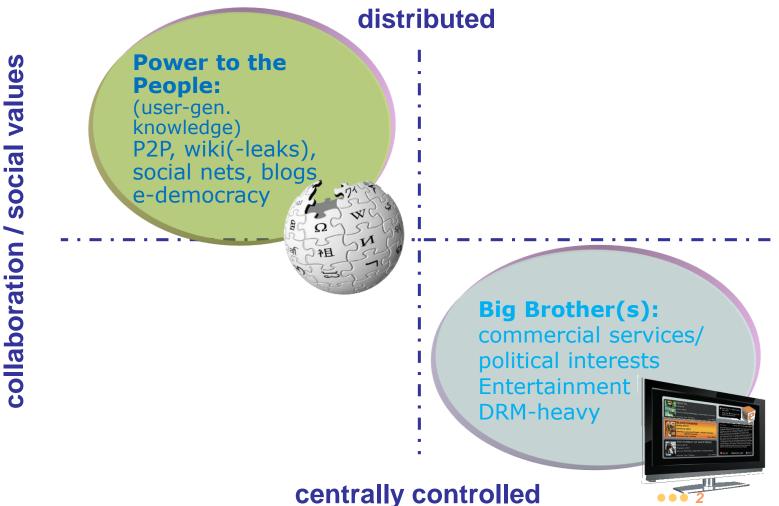
building collaborative platforms: the example of CAPS/DSI

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DG CONNECT E3 Next Generation Internet

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

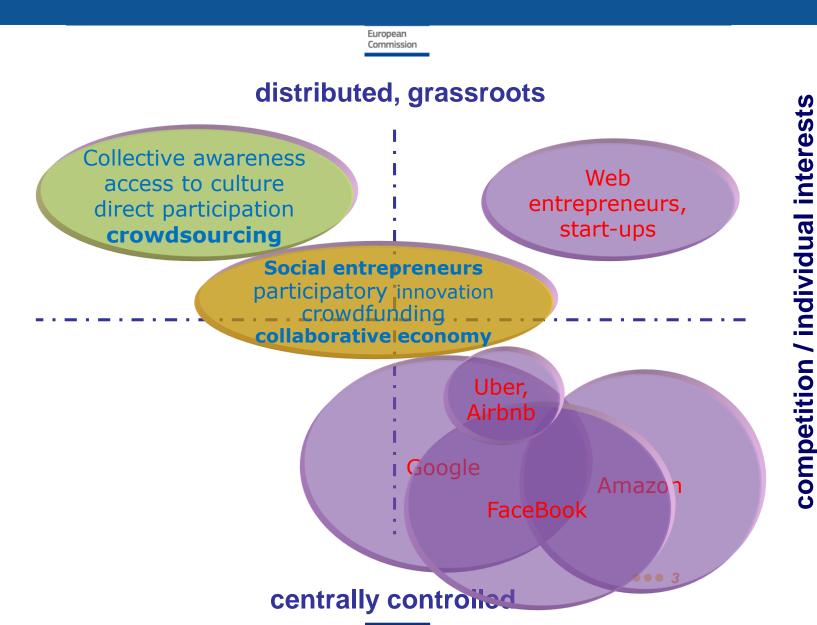
Future Internet scenarios

(Oxford Internet Institute Study on Technological, Social and Economic aspects of FI http://cordis.europa.eu/fp7/ict/fire/docs/tafi-final-report_en.pdf)



competition / individual interests

Current Internet scenarios





Giving people a choice

Centralised	Decentralised
One choice	Multiple choices
Uniformity	Diversity
Monopoly	Network neutrality
Proprietary solutions	Open standards, open source
Clouds	Community networks
Monitoring	Privacy
Asymmetric data flows	Decentralised data governance



Fixing asymmetry in data governance

The 'culprit' is the extremely centralised architecture of the dominant data platforms – which results in:

- unparalleled new public services from big companies
- extraordinary revenues (for big companies)
- unprecedented risks for privacy
- uncompetitive advantage and high barriers for new entrants, stifling innovation



Fixing asymmetry in data governance

Vision: a **distributed architecture** where each piece of user-generated information remains under the full control of the user who generated it

- on personal data spaces at local level
- subject to on-demand aggregation by third parties

enabling decentralised data governance



Can we build it?

- technologies already exist:
 - P2P networks (robust distributed architecture)
 - blockchains and other distributed ledgers (decentralised certification and security of transactions)
 - Open data, linked data
- to be generalised to clouds, social networks and IoT
- with robust standards



the goal: creating a decentralised innovation ecosystem

Open to new entrants and open innovation:

Low entry barrier to access big data privacy-by-design business models

 Open to new services: allowing more SMEs and social enterprises to implement social innovation

for collaborative public services
collaborative economy
collaborative making
participatory consumption
environmental action
open policy making and open democracy



Digital Social Innovation @ DG CONNECT

Call ICT-12b: Distributed architectures for decentralized data governance

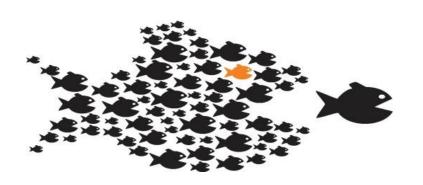
Demonstrating a distributed of the control of the con

Call ICT-11: Pilots of Collective Awareness Platforms for Sustainability and Social Innovation (CAPS)

- Demonstrating new forms of bottom-up innovation and social collaboration based on open data, open knowledge, open source software and open hardware
- Building on 36 running projects



Collective Awareness Platforms for Sustainability and Social Innovation



To harness ICT networks, network effects and collective intelligence for cooperation, supporting new economic models beyond GDP

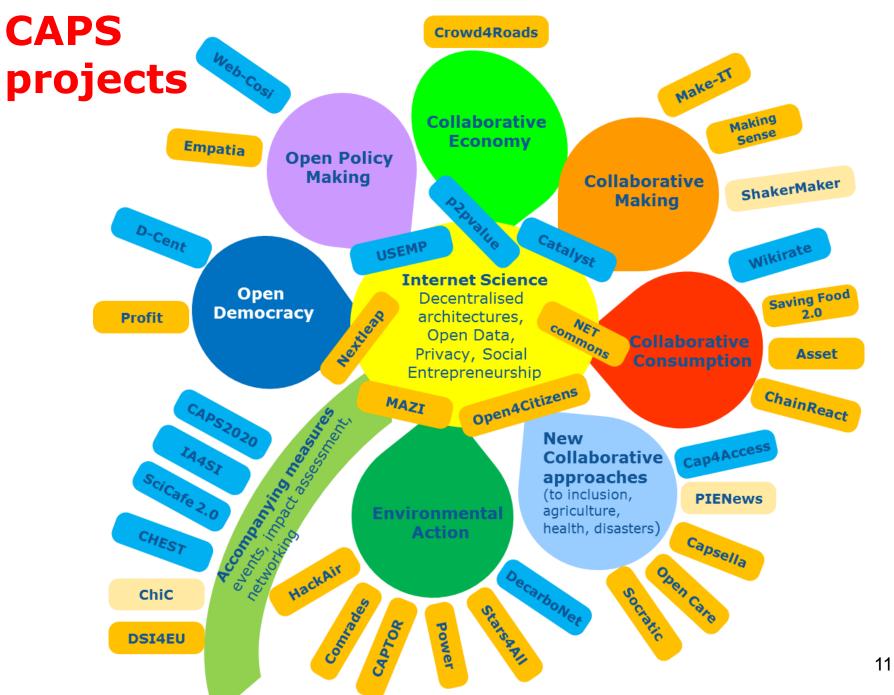
To create awareness of sustainability challenges - and of bottom-up solutions grounded on real communities of people

Based on open data, open source and open hardware participatory innovation paradigms

Requires participation of at least two entities from non-ICT domains

Appeals to new grassroots actors (including social entrepreneurs, students, hackers, civil society organisations)

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





Next call: Horizon 2020 - WP2017

CAPS (ICT11):

demonstrating new forms of bottom-up innovation and social collaboration exploiting digital hyper-connectivity and collaborative tools based on open data, open knowledge and open source and hardware:

- New innovation models for economy and society
- Solutions for sustainable lifestyles such as collaborative consumption and production, smart reuse and low carbon approaches
- Emerging ethics of digital innovation, such as social entrepreneurship, direct democracy and digital rights



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

DSI Fair

Rome, 1-2 February 2017

https://capssi.eu/event/digital-social-innovation-fair-2017/

Vision for a "Next Generation Internet"





CAPS @ DG Connect



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Submit your vision for a New Generation Internet at http://ec.europa.eu/futurium/en/next-generation-internet