

# Decentralisation, i.e. Internet for Social Good

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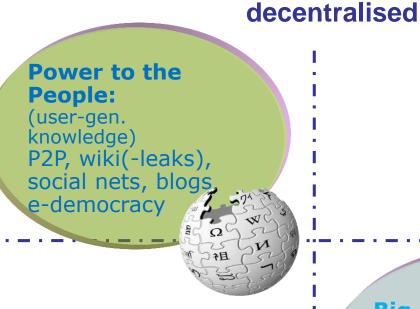
http://ec.europa.eu/digital-single-market/en/collectiveawareness

\* The personal views expressed in this presentation do not engage the position of the European Commission

### Future Internet dimensions (in 2011)

(Oxford Internet Institute Study on Technological, Social and Economic aspects of FI <a href="http://cordis.europa.eu/fp7/ict/fire/docs/tafi-final-report\_en.pdf">http://cordis.europa.eu/fp7/ict/fire/docs/tafi-final-report\_en.pdf</a>)

collaboration / social values



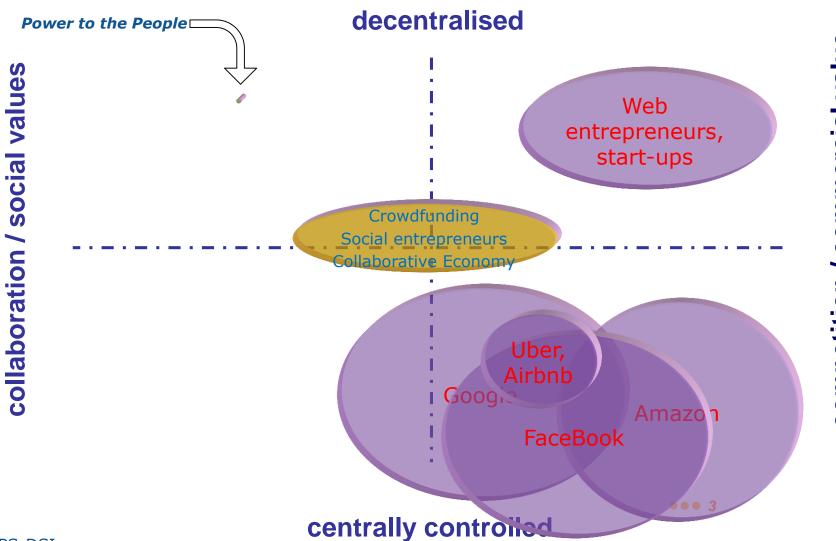
Big Brother(s):
commercial services/
political interests
Entertainment
DRM-heavy

centrally controlled

competition / commercial value

### ...and today?





competition / commercial value



### Why decentralisation?

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



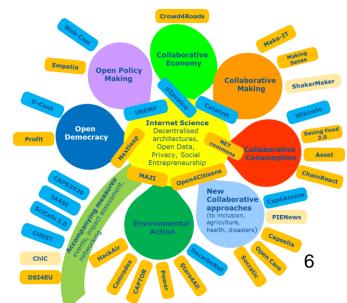
## the goal: creating a decentralised innovation ecosystem

Open to new entrants and open innovation:

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

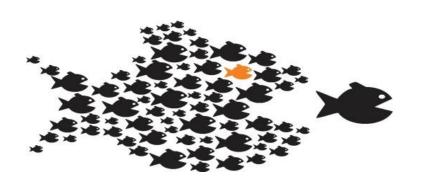
 Open to new services: allowing more SMEs and social enterprises to implement social innovation

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





### Collective Awareness Platforms for Sustainability and Social Innovation



Harnessing ICT networks, network effects and collective intelligence

Creating awareness of sustainability challenges - and of bottom-up collaborative solutions grounded on real communities of people

Supporting new economic models beyond GDP

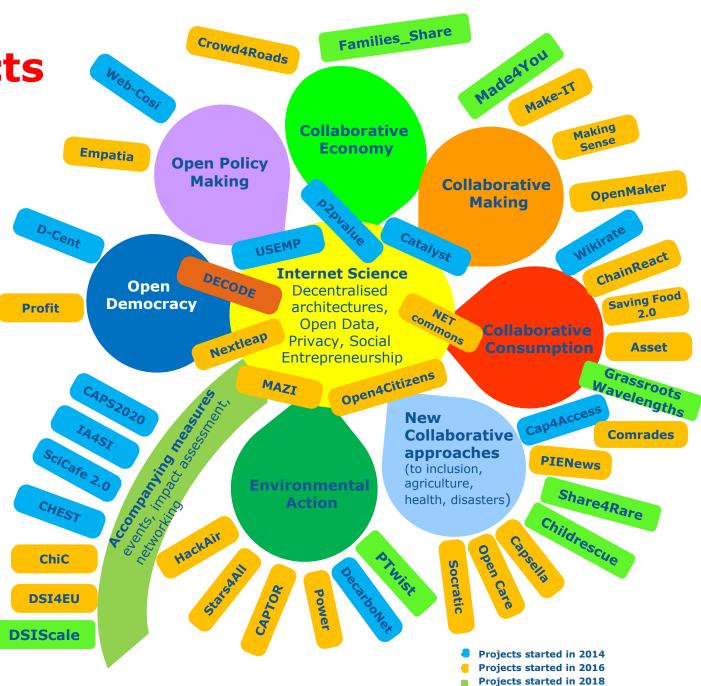
Based on open data, open source and open hardware participatory innovation paradigms

Requiring participation of at least two non-ICT partners

Appealing to new grassroots actors: social entrepreneurs, students, hackers, civil society organisations

CAPS projects

Digital Social Innovation





### Why is DSI important?

### For society

delivering public services for and by the citizens

#### For the environment

 collaborative solutions to reduce pollution, crowdmap issues (traffic, etc.)

### For the economy

enabling new economic models (sharing or collective economy)

#### For the Internet itself

 driving different technological priorities for its decentralised development



### example: DECODE



#### 5M€, start 1/1/2017

- DEcentralised Citizens Owned Data Ecosystem
  - Data sovereignty for citizens
- > tools that put individuals in control
  - of whether they keep their personal information private or share it for the common good
  - Developing a free and open source ecosystem of tools, validated in real life context
  - using decentralised algorithms based on blockchains
  - Creating robust open standards
- > Involving
  - ➤ **technological actors** (P2P, blockchains and open source developers, open hardware manufacturers, experts in security, encryption)
  - civil society organisations (local communities, digital rights advocacies, artists, social scientists)
  - developers of the overlying social applications and systems (creative industries, SMEs, social entrepreneurs, software developers)

http://decodeproject.eu/<sub>11</sub>

## Vision for a "Next Generation Internet" an Open Internet initiative



### NGI Next Generation Internet Research areas

- a) **Privacy and trust enhancing technologies**: to help users achieve greater control when sharing their personal data
- b) Decentralized data governance: explore new distributed data management systems based on P2P and Blockchains, paying attention to ethical, legal and privacy issues
- c) Discovery and identification technologies: to access heterogeneous data sources, services, objects and sensors, devices, content, etc.

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- To develop scalable, efficient and high-impact decentralized solutions to social innovation challenges leveraging Distributed Ledger Technology (DLTs), such as the one used in blockchains
- Targeting social innovations in which decentralized solutions based on DLTs have shown clear benefits over conventional centralised platform solutions
- 5 awards of €1 million each, corresponding to different social application areas
- Deadline to submit applications: end 2019

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#### Examples:

- demonstrating the origin of raw materials or products and support fair trade
- allowing for a greater visibility of public spending and in general a greater transparency
- **participation** in democratic decision-making, for instance by offering anonymous speech
- development of decentralized social networks or clouds
- managing property, land registry or other public records of citizens and/or refugees;
- contributing to financial inclusion and social credit (e.g. by community or local currencies)

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### targeted at a wide range of actors:

- individuals
- social entrepreneurs
- civil society organisations
- research centers from technological and social disciplines
- creative industries
- start-ups
- SMEs

Requirement: multidisciplinary expertise

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#### Award criteria:

- o **Social impact**: both potential and already achieved (e.g. size of the community of users)
- o **Decentralization and governance**: transparency (respecting privacy)
- o **Usability, inclusiveness, engagement** of a large community of concerned citizens
- o **Viability at large scale**: cost-efficiency (including energy consumption), scalability, security, sustainability
- o Clear added value for European citizens, in societal and/or economic terms

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#### Next Steps:

28/11: workshop to present and discuss the specific terms of the EIC Prize at the Lisbon Conference "Opening up to an era of Social Innovation"

15/12: Official Launch at NESTA Italia, Turin

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European Commission DG Connect - "Next-Generation Internet

www.BC4socialgood.eu

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-eic\_en.pdf

### Sign the Manifesto for Digital Social Innovation

https://www.dsimanifesto.eu/manifesto/

- 1. Openness and Transparency
  - Mandate Open-Source, Promote Open Data, Sustain Open Knowledge
- 2. Democracy and decentralization
  - Accelerate democracy projects, Showcase open democracy, Promote awareness
- 3. Experiment and adopt
  - Bring together, Set technological priorities, Public adoption
- 4. Digital skills and multi-disciplinarity
  - Promote digital skills, More ICT curricula, Incentives for multi-disciplinarity
- 5. Sustainability
  - Shift funding governance (from lobbies to bottom-up), Methodology, Additional sources







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#### **Digital Social Innovation (DSI), CAPS:**

https://ec.europa.eu/digital-single-market/en/collective-awareness