

NEXT GENERATION INTERNET

BUILDING TOGETHER THE NEXT-GENERATION INTERNET

- **The NGI initiative: vision, mechanism and first funding opportunities –**
Olivier Bringer, EU Commission
- **Example of open calls and services to innovators –**
Michiel Leenaars, Nlnet Foundation
- **A Startup point of view –**
Isabella De Michielis, ErnieAPP
- **Q&A Session**
- **How to engage with NGI –**
Monique Calisti, Martel Innovate



The Next Generation Internet - An Internet of Humans

Olivier Bringer
EU Commission

Internet evolution



**10 years from now Internet
indispensable for all socio-
economic activity**

**Today, Internet is
the engine of
digitisation**

**29y ago
www**

Original values of the internet

- A universal and **decentralised** 'network of networks'
- Robust, **resilient**
- **Openness**, collaboration, transparency
- Supports permission-less **innovation**
- Premised on **voluntary exchange of data**

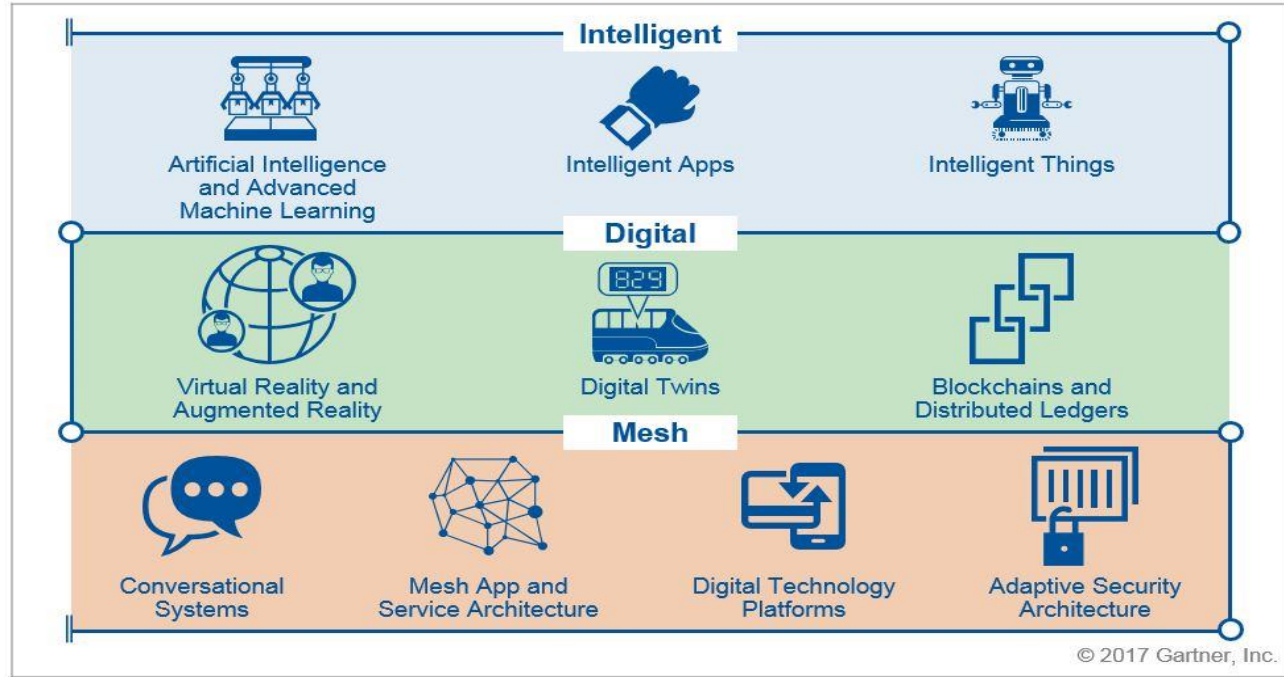
An untapped potential

- **Internet Users** in Europe **concerned** by private companies monitoring and commercializing personal information has increased from 68% (2014) to **77%** (2016)
- **Almost half of Internet users** (48%) have limited or kept from some online activities due to **security concerns**
- Only a **small proportion of world data** is stored in the EU
- A mere 25% of large EU enterprises and 10% of EU SMEs **used big data** analytics in 2017

Technology push



A number of technological trends will thoroughly **reshape** the internet over the next **10-15 years**

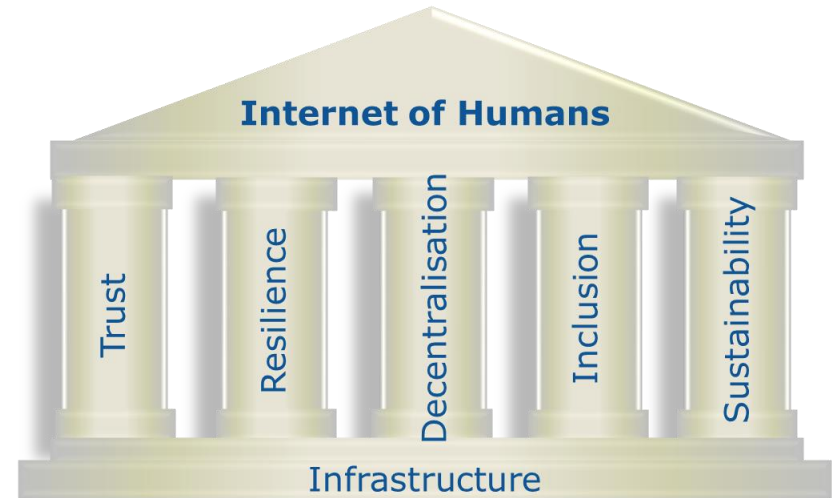


Source: NLnet & Gartner; Next Generation Internet study



Develop key internet technologies in line with core EU values and societal expectations

- **Trust:** users control their data
- **Resilience:** secure and resilient infrastructure
- **Decentralisation:** Secure peer-to-peer transactions
- **Inclusion:** All take part in online society
- **Sustainability:** Reduced carbon footprint

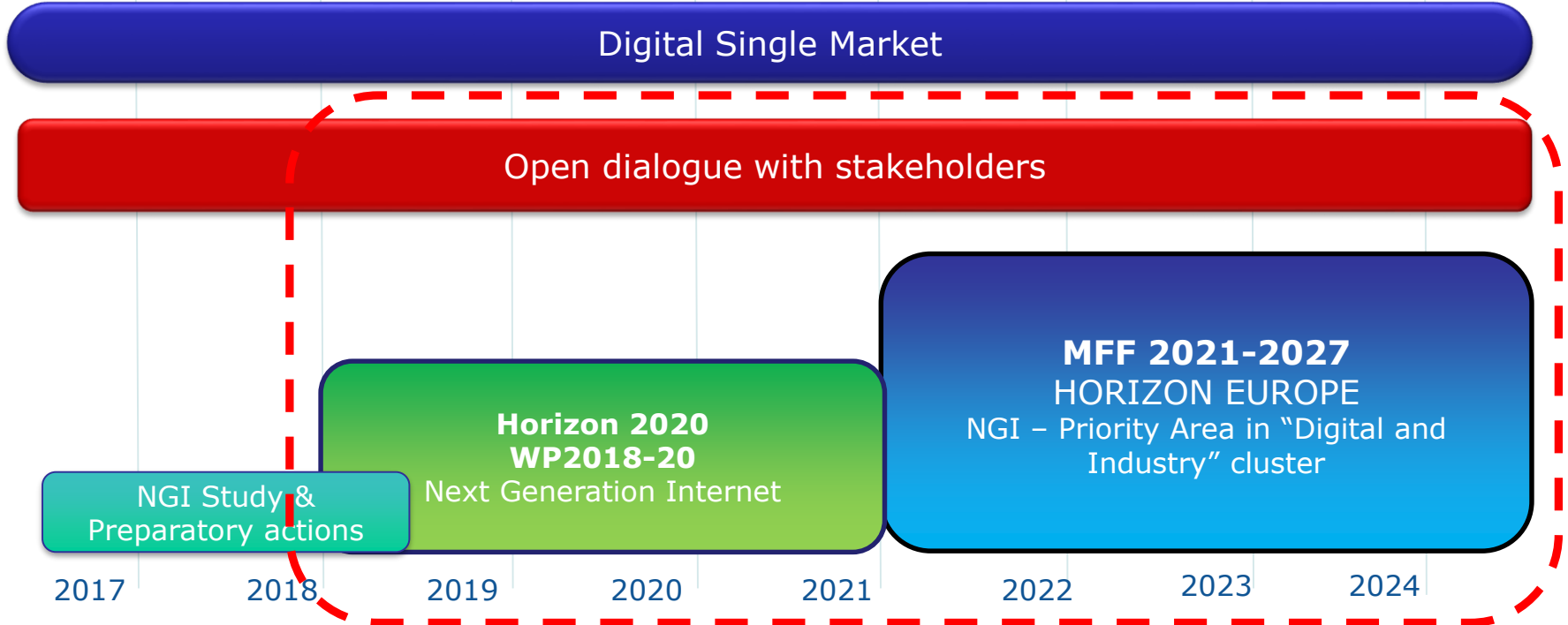


NGI: a joint effort

- ✓ **Defragment and connect:** Ecosystem of European actors and an Ecosystem which is broader than ICT
- ✓ Engage **new stakeholders:** Internet researchers & innovators, stakeholders who are not part of community RTD&I today
- ✓ Link **long-term research** with **applied research & innovation**
- ✓ **European core values:** Privacy, security, inclusion, open to innovation and preserving democracy
- ✓ **European movement:** Internet of Humans as a political goal

Unite
stakeholders on
a common
goal: **an
Internet of
Humans**

NGI Roadmap



Horizon 2020: NGI



Artificial Intelligence

[ICT-26-2018-2020](#)

Interactive Technologies

[ICT-25-2018-2020](#)

Internet of Things

[ICT-27-2018-2020](#)

Multilingual

[ICT-29-2018](#)

Global Social Sphere

[ICT-28-2018](#)

Inclusive

[ICT-30-2019-2020](#)

300 M€

NGI - Open Internet Initiative:

[ICT-24-2018-2020 + ICT-31-2018-2020](#)

5G

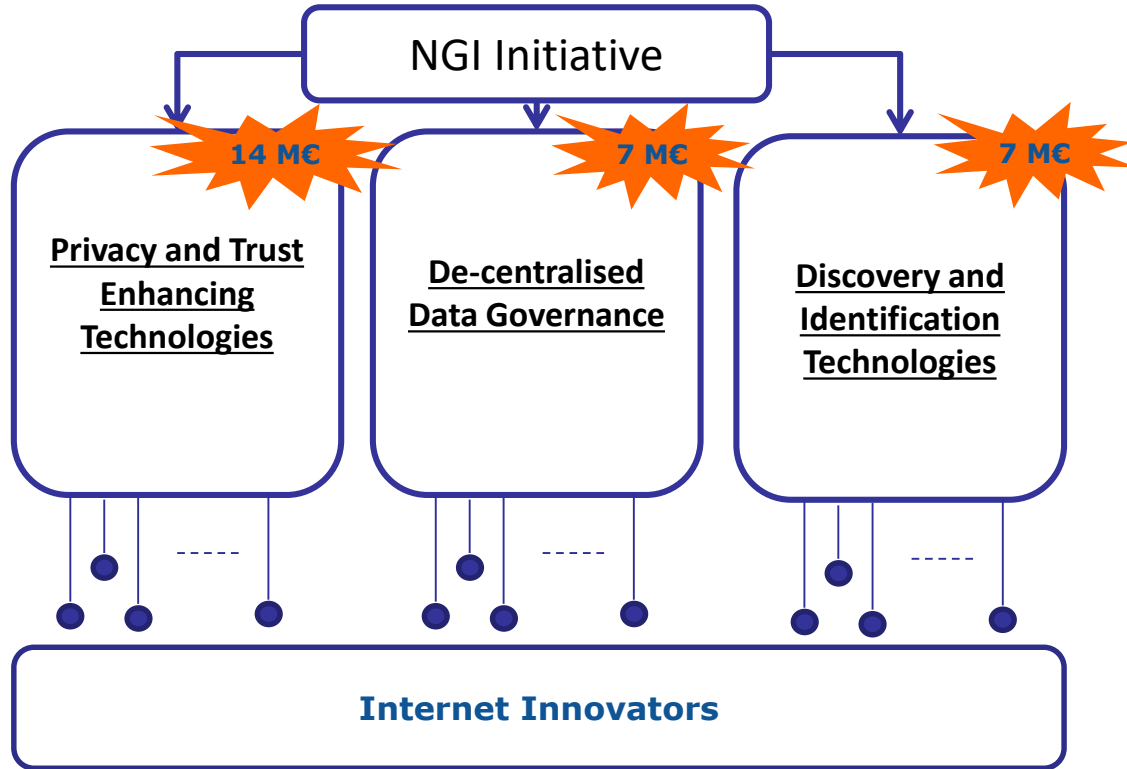
Cloud

HPC

Big
Data

Cyber
Security

Involving Internet Innovators – WP2018



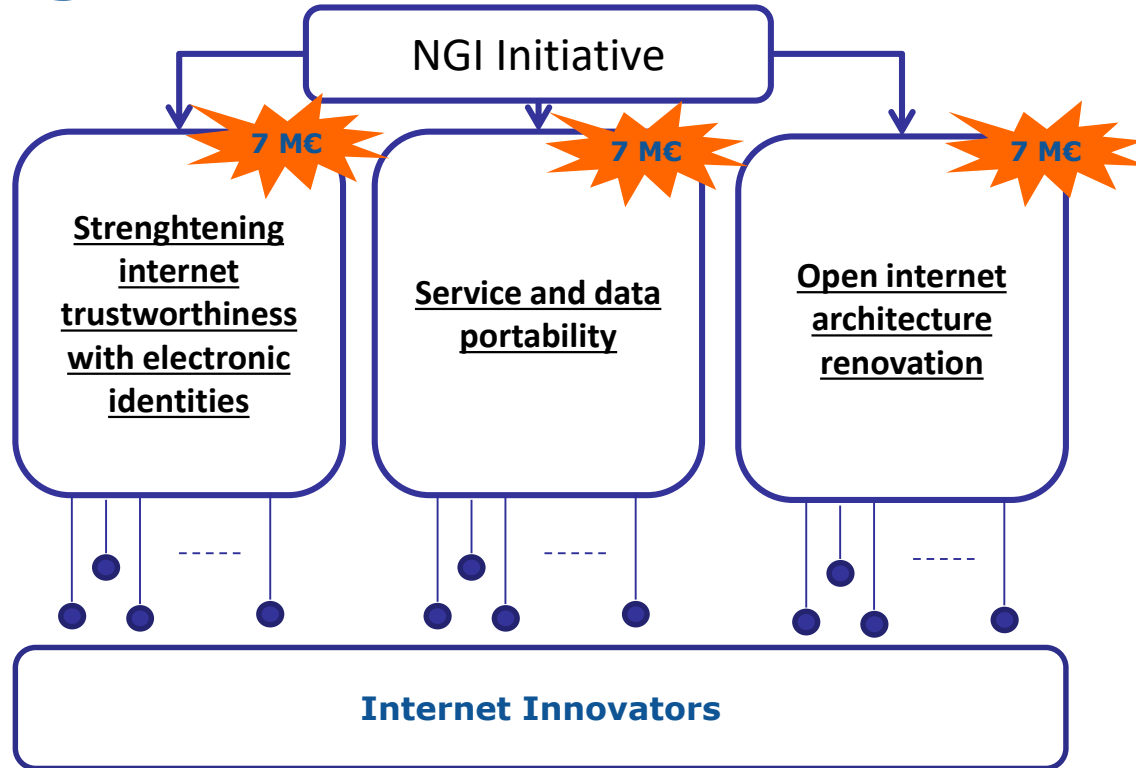
The Intermediaries:

- ✓ Open calls with funds for new stakeholders (startups, SMEs, young researchers, civil society,...)
- ✓ Fast & flexible, continuously agile
- ✓ providing training and support
- ✓ Launch early 2019

The Sub-Grantees:

- ✓ 1 legal entity with 1 specific Project
- ✓ Young researchers, outstanding academics, hi-tech startups and technology researching SME's
- ✓ Carry out the R&I work
- ✓ 50,000 – 200,000€, 9-12 months

Involving Internet Innovators – WP2019



Take-aways

- NGI is an **ambitious** and significant EU-led effort involving **internet innovators**
- Build an **internet of humans**
- **Direct financial support** to innovators: grants 50,000 – 200,000€, 9-12 months
- An initiative for the next decade **2019-2030**: be involved from the start!