

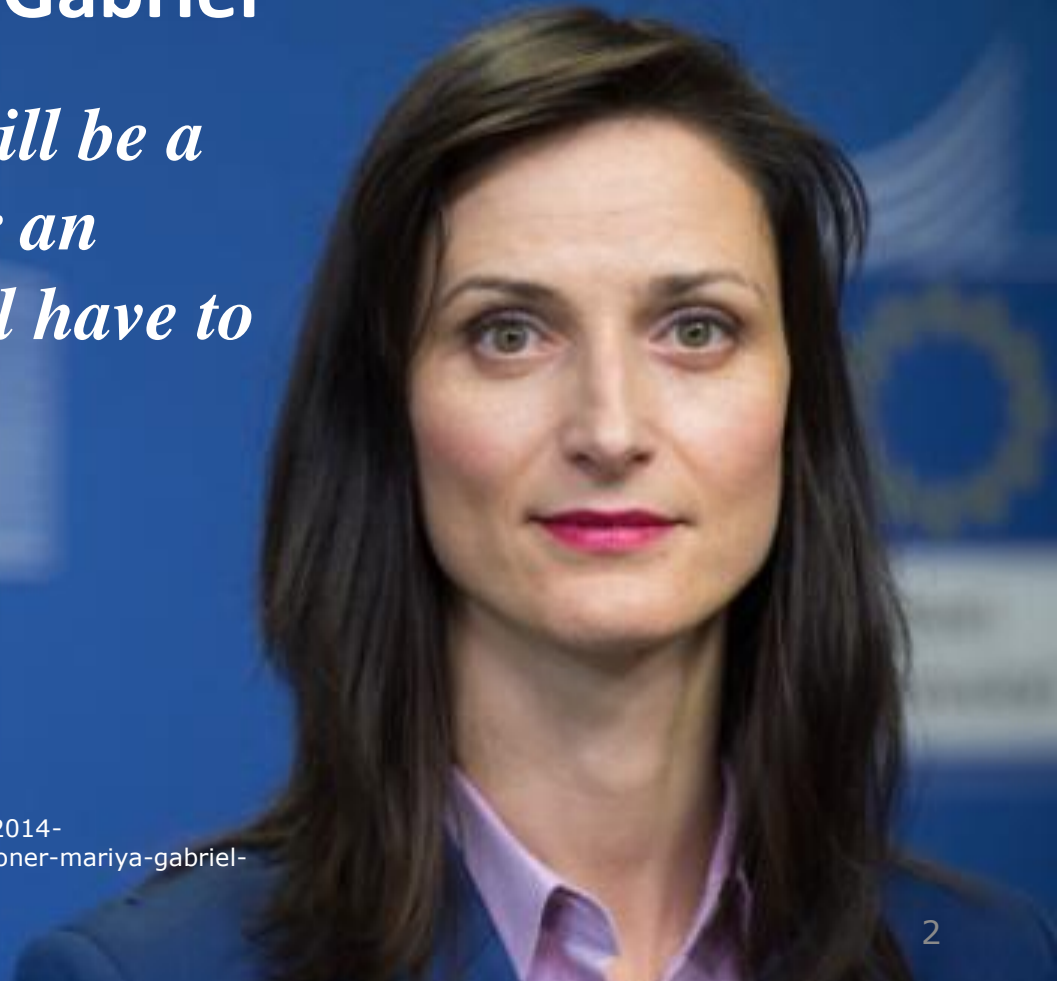
NGI – Status & Next Steps

Olivier Bringer
DG Connect

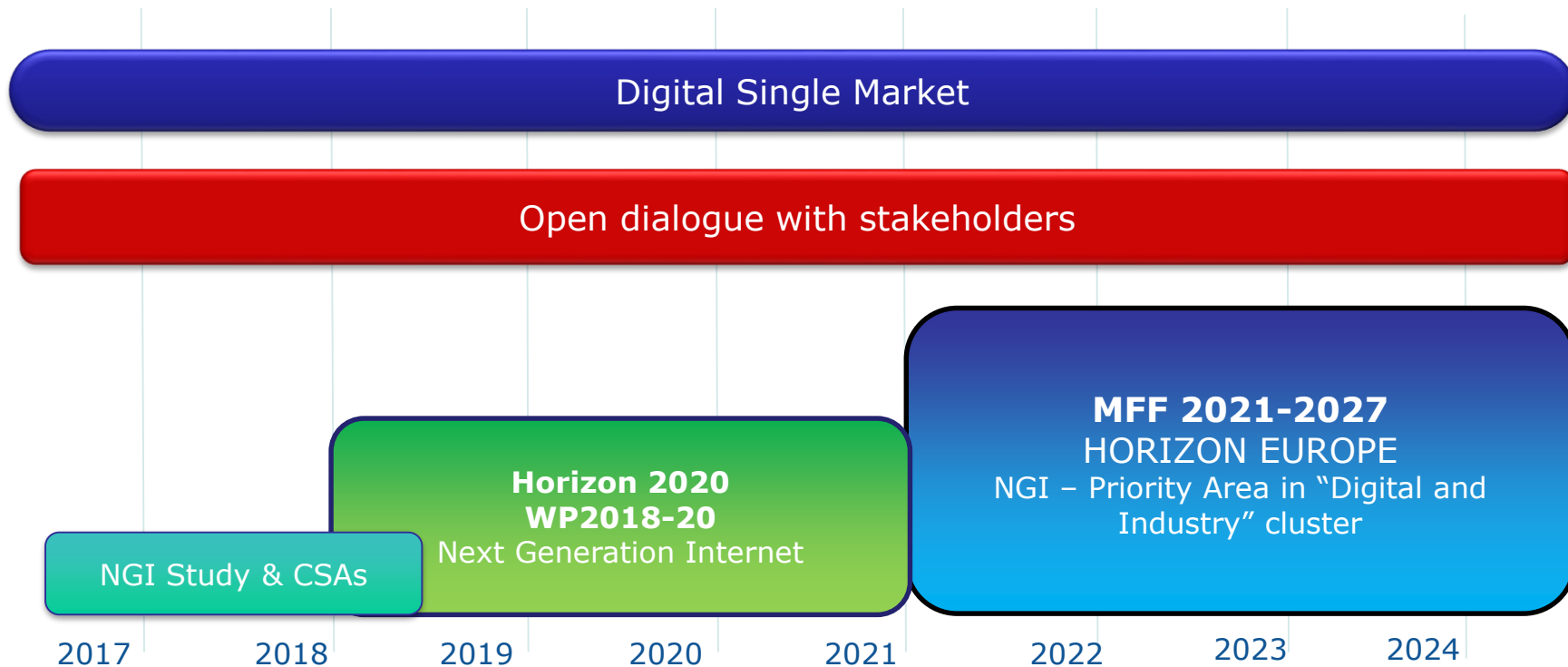
Commissioner Mariya Gabriel

The way I envision it, it will be a human centric internet or an internet of humans. It will have to be trustworthy, resilient, sustainable and inclusive.

Full speech: https://ec.europa.eu/commission/commissioners/2014-2019/gabriel/announcements/keynote-video-message-commissioner-mariya-gabriel-european-dialogue-internet-governance-eurodig_en



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](#)

NGI - Open Internet Initiative

[ICT-24-2018-2019](#) + [ICT-31-2018-2019](#)

5G

Cloud

HPC

Big
Data

Cyber
Security

R&I project implementation through sub-granting

Project submitted to EC call:
Run by organisations in the ecosystem
Leadership in the research area
Euro 7 million, 2-3 years,
80% for sub-grantees, pan-European
Procedures adapted to stakeholders

R&I Action:

Privacy and trust
enhancing
technologies

Activities include inter-alia:

- Definition of the calls for projects
- Attracting and selecting top-teams
- Monitoring
- Mentoring, Coaching, Sharing
- Community building

Sub-grantee: 

- One legal entity with one specific project
- **Internet innovators: young researchers from outstanding academics, hi-tech startups and SMEs, developers, ...**
- Carry out the R&I work
- 50.000 – 200.000 Euro, 9 – 12 month

Digital in the next MFF

Digital in Horizon Europe R&D&I

1. Digital under "global challenges"
 - Digital and industry cluster
 - Digital in other clusters - health, mobility, energy, environment,..
2. Open Innovation
3. Research Infrastructure under Open Science

Digital Europe: Capacities & roll out

1. High Performance Computing
2. Artificial Intelligence
3. Cybersecurity
4. Advanced digital skills
5. Digital transformation and interoperability

Connecting Europe Facility - Digital Connectivity






- 5G roll out
- BB 4EU, Connecting communities
- Synergies with Transport /Energy

Creative Europe MEDIA

Invest EU Research, innovation & digitisation

European Regional Development Fund / Cohesion Fund

Horizon Europe

Clusters	Areas of intervention	
Health 	<ul style="list-style-type: none"> * Health throughout the life course * Non-communicable and rare diseases * Tools, technologies and digital solutions for health and care 	<ul style="list-style-type: none"> * Environmental and social health determinants * Infectious diseases * Health care systems
Inclusive and Secure Societies 	<ul style="list-style-type: none"> * Democracy * Social and economic transformations * Protection and Security 	<ul style="list-style-type: none"> * Cultural heritage * Disaster-resilient societies * <u>Cybersecurity</u>
Digital and Industry 	<ul style="list-style-type: none"> * Manufacturing technologies * Advanced materials * Space * Circular industries 	<ul style="list-style-type: none"> * Key digital technologies * Artificial intelligence and robotics * Advanced computing and Big Data * Next generation internet
Climate, Energy and Mobility 	<ul style="list-style-type: none"> * Climate science and solutions * Energy systems and grids * Communities and cities * Industrial competitiveness in transport * Smart mobility 	<ul style="list-style-type: none"> * Energy supply * Buildings and industrial facilities in energy transition * Clean transport and mobility * Energy storage
Food and Natural Resources 	<ul style="list-style-type: none"> * Environmental observation * Agriculture, forestry and rural areas * Food systems * Circular systems 	<ul style="list-style-type: none"> * Biodiversity and natural capital * Sea and oceans * Bio-based innovation systems

NGI broad lines of activity



- Future network and service infrastructures, including beyond 5G, Internet of Things, Cognitive Clouds, Edge/Fog computing, Blockchains,



- Human-centric Internet applications, including trust and privacy, inclusive multi-modal interaction concepts, language independency and trustworthy social connectivity and media



- Software-based middleware incl. distributed ledger technologies, embedding Artificial Intelligence, distributed processing and data analytics

In a nutshell



- An **ambitious** and significant initiative for the next decade
- A **human-centric** approach
- A joint effort involving **Internet innovators**
- Need **active support** from Member States and NGI Contact points

Join us in this exciting journey



<https://www.ngi.eu>

<https://ec.europa.eu/digital-single-market/en/next-generation-internet-initiative>

<https://ec.europa.eu/research/participants/portal>

Building a community

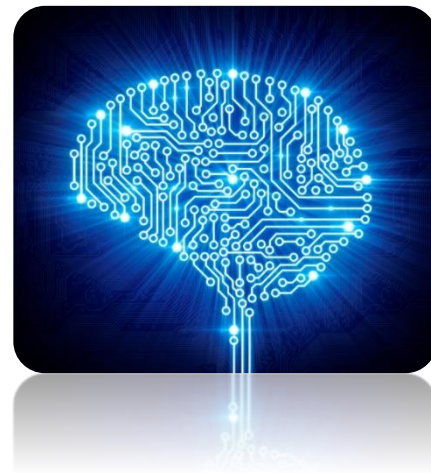
- ✓ **Follow us @NGI4eu**
 - ✓ **Read more about NGI: www.ngi.eu**
 - ✓ **Be part of NGI & Register:
<https://www.ngi.eu/ngi-map/>**
 - ✓ **Register in the NGI Newsletter/News:
<https://www.ngi.eu/subscribe>**
 - ✓ **LinkedIn group:
<https://www.linkedin.com/groups/2206279>**
- + Engaging Member States via the [H2020 FIF expert group](#) & the [NGI Contact points](#)**



Back-up slides

Building a solid regulatory framework

- GDPR (General Data Protection Regulation)
- Free Flow of Non-personal Data
- Net Neutrality (open internet)
- Online platforms (illegal content)
- Cybersecurity



A joint effort



- **Defragment and connect:** *Ecosystem of European actors and an Ecosystem which is broader than ICT*
- Engage **new stakeholders:** *Real Internet researchers & innovators, stake-holders who are not part of community RTD&I today*
- Link **long-term research** with **applied research & innovation**, with **policy & societal expectations**
- **European core values:** *Openness, security, privacy, participation, a level playing field for all business actors, open to innovation and preserving democracy*
- **European movement:** *human Internet as a political goal*

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

NGI R&I actions in 2018 call

Privacy and Trust Enhancing Technologies

- ✓ Sensors, devices, AI-based algorithms incorporated in our digital environment
- ✓ Greater control when sharing personal data, attributes and information
- ✓ Robust and easy to use technologies

Decentralised Data Governance

- ✓ Open hardware and software ecosystems based on blockchains, DLT, P2P technologies
- ✓ Attention to ethical, legal and privacy issues
- ✓ Supporting autonomy, data sovereignty and ownership

Discovery and Identification Technologies

- ✓ Large heterogeneous data sources, services, objects and sensors, multi-media content
- ✓ Contextual querying, personalised information retrieval and increased quality of experience

NGI R&I actions in 2019 call

Strengthening internet trustworthiness with electronic identities

- ✓ Authentication, authorisation, traceability, privacy and confidentiality (incl. objects, ...)
- ✓ New business models for verifying and valuating data
- ✓ Scalability, standardisation, deployability, ease of use, ...

Service and data portability

- ✓ Separation of data from services provided to end-users
- ✓ Handling mixed data sets, standardisation, operational and business models
- ✓ Techno-legal constraints, simplification of terms of use

Open internet architecture renovation

- ✓ Internet architecture evolution towards better efficiency, scalability, security & resilience
- ✓ Auditing, testing and improving protocols and open source SW and HW
- ✓ Ability to roll-out at internet scale

Call for RIAs opens: October 2018

Deadline submission proposals: March 2019

First call for sub-grantees: Q1 2020