

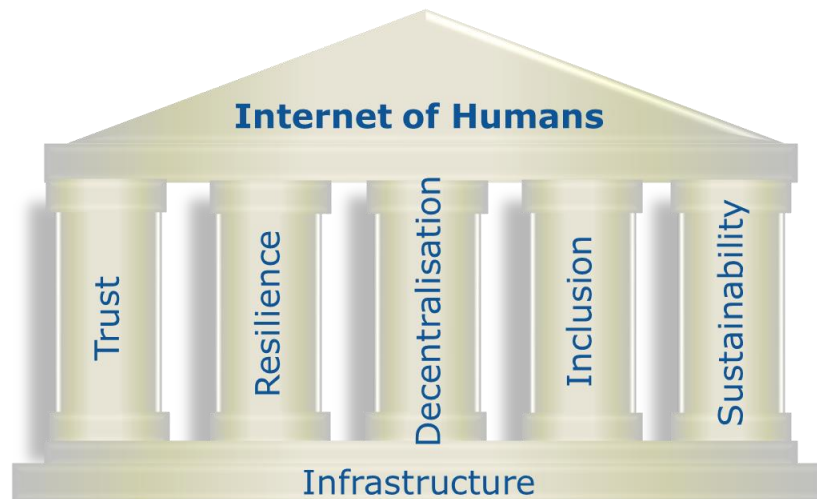


Next Generation Internet: Research priorities and funding opportunities

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DG Connect
European Commission

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 10 years investment plan

✓ **Horizon 2020**

- ❑ €250 million Commission investment in 2018-2020 on key internet technology areas, including blockchain, internet of things, social media, interactive technologies, multilingualism and accessibility

✓ **Involving internet innovators**

- ❑ €75 million to directly support internet innovators
- ❑ Equity-free grants to individual researchers, developers, start-ups, social innovators, makers
- ❑ Focusing on areas such as privacy, search, electronic identities or blockchain

✓ **Horizon Europe (2021 to 2027)**

- ❑ An intervention area in Horizon Europe, supporting the evolution of network technologies (5G/6G), internet infrastructures (Cloud, IoT) and applications



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

Next Generation Internet in Horizon 2020

NGI Key Priority

- Interactive technologies
- Artificial intelligence
- Internet of things
- Future media - social media
- A multilingual NGI
- An inclusive NGI
- NGI - Open Internet initiative

NGI - Open Internet initiative

- Focus on Internet innovators that do not normally participate in EC funded research
- Impact orientation: short research / validation cycles to quickly bring results to the market
- Cascading grants: agile programming, flexible implementation
- Supporting the human-centric Internet vision

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: hi-tech startups and SMEs, researchers, developers, ...**
- Carry out the R&I work
- 50.000 – 200.000 Euro, 9 – 12 month

What areas are we covering?

- *WP2018*
 - **Privacy and Trust enhancing technologies**
 - **Decentralized data governance**
 - **Discovery and identification technologies**
- *WP2019 (ddl 28th March 2019)*
 - **Strengthening internet trustworthiness with electronic identities**
 - **Service and data portability**
 - **Open Internet architecture renovation**
- *WP2020 (ddl January 2020): Blockchain for the Next Generation Internet*
 - **Advancing research on Blockchain and Distributed Ledger Technologies**
 - **Fostering trust in internet information exchange and content with blockchain**
 - **Bringing forward the emergence of collective intelligence on the internet**

NGI current research portfolio

NGIO-PET: address privacy concerns with bottom up approach; up to 50k€ (as first tranche); continuous call

NGI-TRUST: use-case oriented; up to 200K€ (with co-funding); 3 fixed-ddl calls



22.4M€ for innovators

NGIO-Discovery: same principles as NGIO-PET applied to discovery and identification technologies

LEDGER: blockchains projects in selected verticals; up to 200K€; 2 fixed ddl calls

Initial calls for innovators

- *First call:*
 - **156 applicants (36% SMEs, 33% individuals)**
 - **91 % never associated with H2020**
 - **52 selected (33% success rate)**
 - **TTC: +/- 2.5 months**
- *Second call:*
 - **132 applicants (41% SMEs, 30% individuals)**
 - **94% never associated with H2020**

*Reaching
untapped
talents*

Agility

*Small is
beautiful*

Simplicity

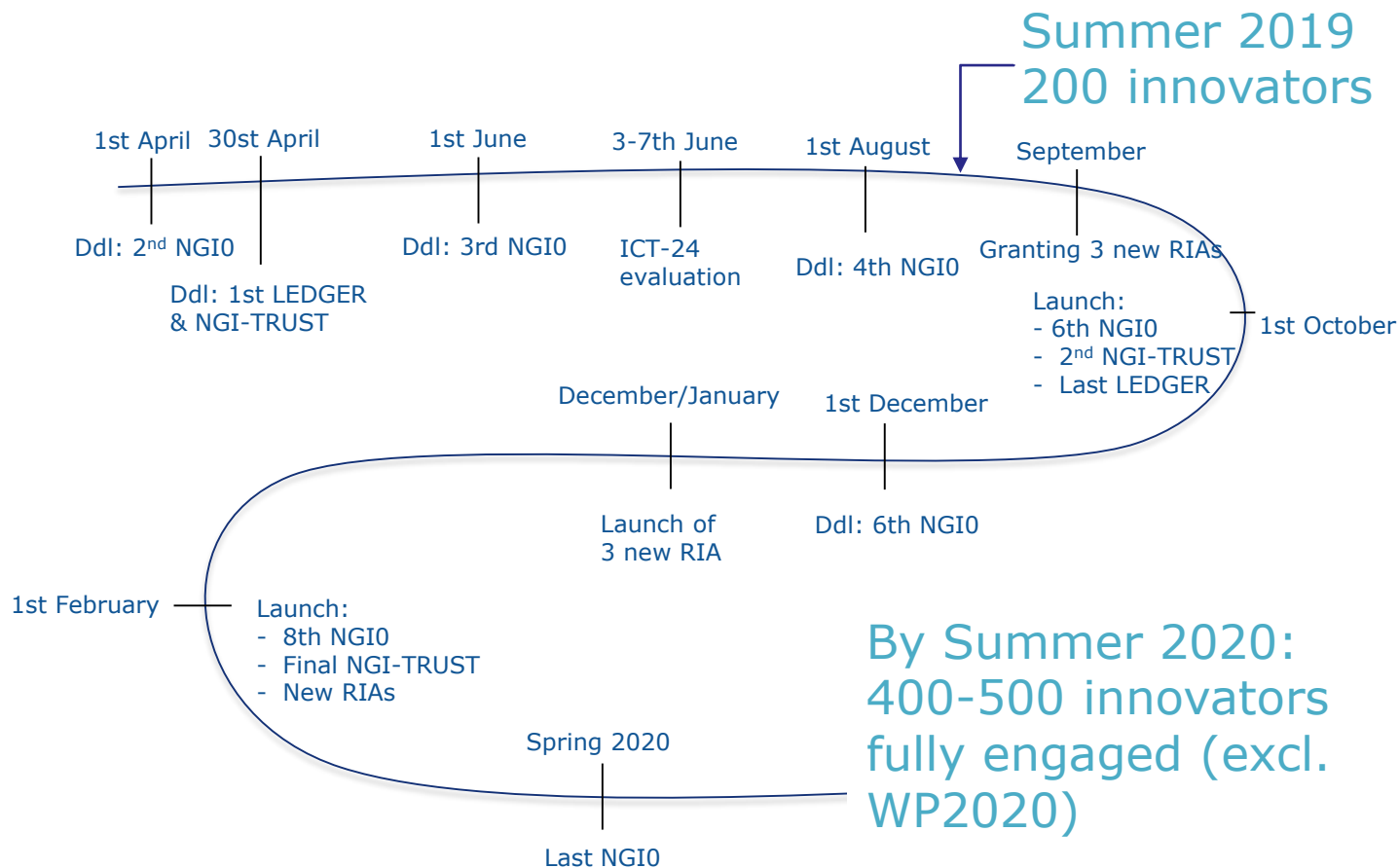
Scale

Mentoring

Complementary



18-month timeline (tentative plan)



Join us in this exciting journey



<https://www.ngi.eu>

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

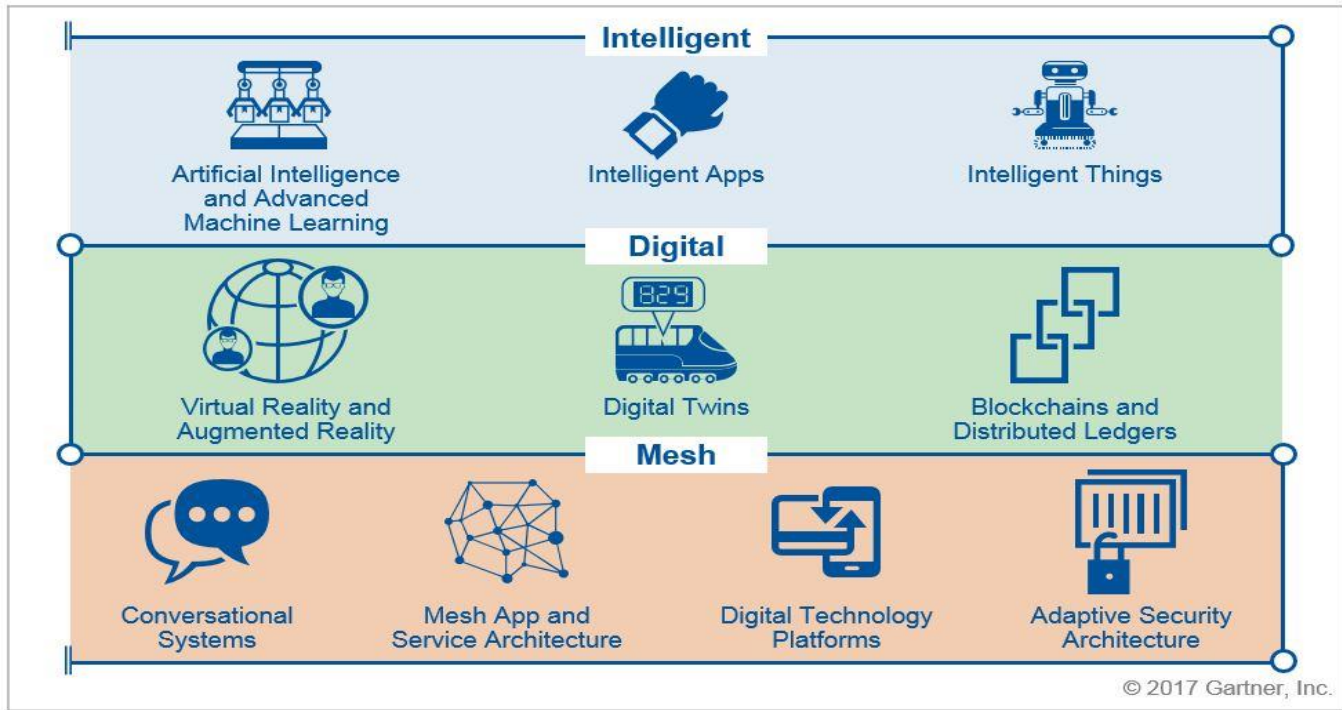
<https://ec.europa.eu/research/participants/portal>



Next Generation Internet (NGI): Connected Objects and the Internet of Things WP2020 Perspectives

**Rolf Riemenschneider
Peter Wintlev-Jensen
Internet of Things
DG Communications Networks, Content and Technology
European Commission**

IOT Week, 18/6/2019, Aarhus



Source: NLnet & Gartner; Next Generation Internet study

- ➔ **Connecting a vast number of heterogeneous devices and**
- ➔ **Foster privacy, data monetization and contractual arrangements**

