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

Blockchain for the NGI
ICT-54-2020

5G   Cloud   HPC   Big Data   Cyber Security

NGI - Open Internet initiative

Focus on *Internet innovators*: hi-tech startups, open source developers, individual researchers, and other multidisciplinary actors

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

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R&I project implemented through sub-granting

Project submitted to EC call:
Run by organisations in the ecosystem
Leadership in the research area
Euro 6 / 8 million, 2-3 years,
70% 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: outstanding academic research groups, hi-tech startups and SMEs, developers, …**
- Carry out the R&I work
- 50.000 – 200.000 Euro, 12 month (indicative)

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What areas?

- *WP2018*
  - **Privacy and Trust enhancing technologies**
  - **Decentralized data governance**
  - **Discovery and identification technologies**

Presented this morning

- *WP2019 (Projects start end 2019 / early 2020)*
  - **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**

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i. Advancing research on Blockchain and Distributed Ledger Technologies

- Conducting research, proofs of concepts, piloting, testing and benchmarks **to improve and further develop advanced blockchain technologies**, for example regarding energy efficiency and sustainability, consensus protocols, a priori usage control, scalability and throughput, security, privacy, robustness, interoperability, cryptography, smart contracts, governance, compliance to regulatory frameworks. This action should **contribute to standardisation activities**.

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ii. Fostering trust in internet information exchange and content with blockchain

- Develop decentralised blockchain-based solutions that can be scaled in a sustainable manner, combined with the use of trustworthy electronic identification, authentication and verified pseudonyms, **to preserve the integrity and reliability of information and content**, including the underlying sources, **on the internet**.

- Two use cases:

  a) develop and implement new transparent and accountable reputation-based models to increase trustworthiness of the information exchange on the internet and social networks and

  b) provide solutions for transparency, trustworthy transactional content handling, on the internet and social networks.

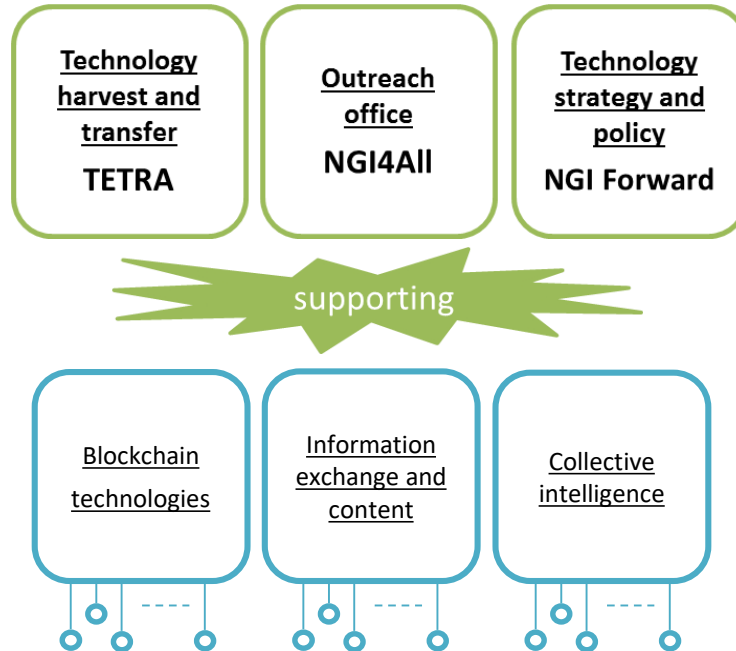# iii. Bringing forward the emergence of collective intelligence on the internet

- Develop approaches for **scientific understanding and technology-based stimulation of collective intelligence** on social media and the internet to foster trustworthy knowledge and information sharing, and to enhance social inclusion.

- Two use cases:

  a) develop new community-based service models on social networks that exploit collective intelligence to provide enhanced community services, and increase the availability of trustworthy content and

  b) in the context of collective intelligence develop and implement new concepts for connecting people and smart objects/agents/AI on social media.

- Approaches for both use cases must be **rooted in scientific analysis of collective behaviour** (taking into account gender difference, where relevant) **and network mechanisms**, harness decentralised technologies such as P2P or blockchain for governance and support a dependable collective memory.

Blockchain for the NGI - Timing and budget

- *Call opening*: 09/07/2019   *Call closing*: 16/01/2020

- *Budget*: i. RIA: 8 M€; ii. RIA: 6 M€; iii. RIA: 6 M€

- *Expected duration*: 24 to 36 months

- As the primary purpose of the action is to support and mobilise internet innovators, a *minimum of 70% of the total requested EU contribution should be allocated to financial support to the third parties*

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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/digital-single-market/en/tackling-online-disinformation**

- **https://ec.europa.eu/digital-single-market/en/blockchain-technologies**

- **www.eublockchainforum.eu**