The overall mission of the Next Generation Internet initiative is to re-imagine and re-engineer the Internet for the third millennium and beyond. We envision the information age will be an era that brings out the best in all of us. We want to enable human potential and creativity at the largest possible scale.

In order to preserve and expand the European way of life, we shape a value-centric, human and inclusive Internet for all.
Decentralised solutions, including blockchain/distributed ledger

Data and Artificial Intelligence

Services and Applications

Vertical use cases, search and community

Open License

Trustworthy hardware and manufacturing

Network infrastructure incl. routing, P2P and VPN

Software engineering, protocols, interoperability, cryptography, algorithms, proofs

Operating Systems, firmware and virtualisation

Measurement, monitoring, analysis and abuse handling

Middleware + identity

10 layers of technology in NGI
The goal of NGI Assure is to support projects that design and engineer **reusable building blocks** for the Next Generation Internet to make distributed collaboration easier, and deliver a complete, strong chain of technical **assurances** for all stakeholders.

This for instance concerns the source and integrity of what you find on the internet:

- data
- people (identities)
- identifiers
- cyberphysical systems
- service components
- processes.
NGI Assure

Efforts to make security, trustworthiness and distributed collaboration easier.

28 projects from 13 countries, €1.05 million allocated. Next deadline: August 1st

Back-to-back bimonthly open calls.

From 5k€ to 50k€ for first project, with scale-up possibility. Open to individuals and organisations of any type. Libre/open source only.

quantum-proof cryptography □ public key infrastructure □ (augmented) authenticated key exchange □ ratchet mechanisms (such as Noise) □ distributed hash tables □ DAGs □ conflict-free replicated data types □ mixnets and onion routing mechanisms □ consensus protocols □ distributed ledgers and (post) blockchain technologies □ a priori usage control □ symbolic and formal proofs □ tamperproof open hardware implementations of core cryptographic primitives □ etcetera
Privacy and Trust Enhancing Technologies
149 ongoing projects involving 264 agents from 37 countries. M€ 5.6 allocated.

Next deadline: August 1st.

Search, discovery and discoverability
123 ongoing projects involving 203 agents from 33 countries. M€ 4.7 allocated.

Back-to-back bimonthly open calls.
From 5k€ to 50k€ for first project, with scale-up possibility. Open to individuals and organisations of any type. Libre/open source only.
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