# Next Generation Internet

Partnership for innovative technological solutions to ensure privacy & enhance trust for the human-centric Internet

Open Calls 2019-2021

Grant Agreements 825618 / 825322 / 825310 / 825354

NEXT GENERATION INTERNET

the next generation internet initiative cordially invites you to

# work for the internet

**Full time and part-time paid and unpaid positions available.**

☞ Work from home (or anywhere you like)
☞ Collaborate with people from all over the world
☞ Challenge your talents to the extreme
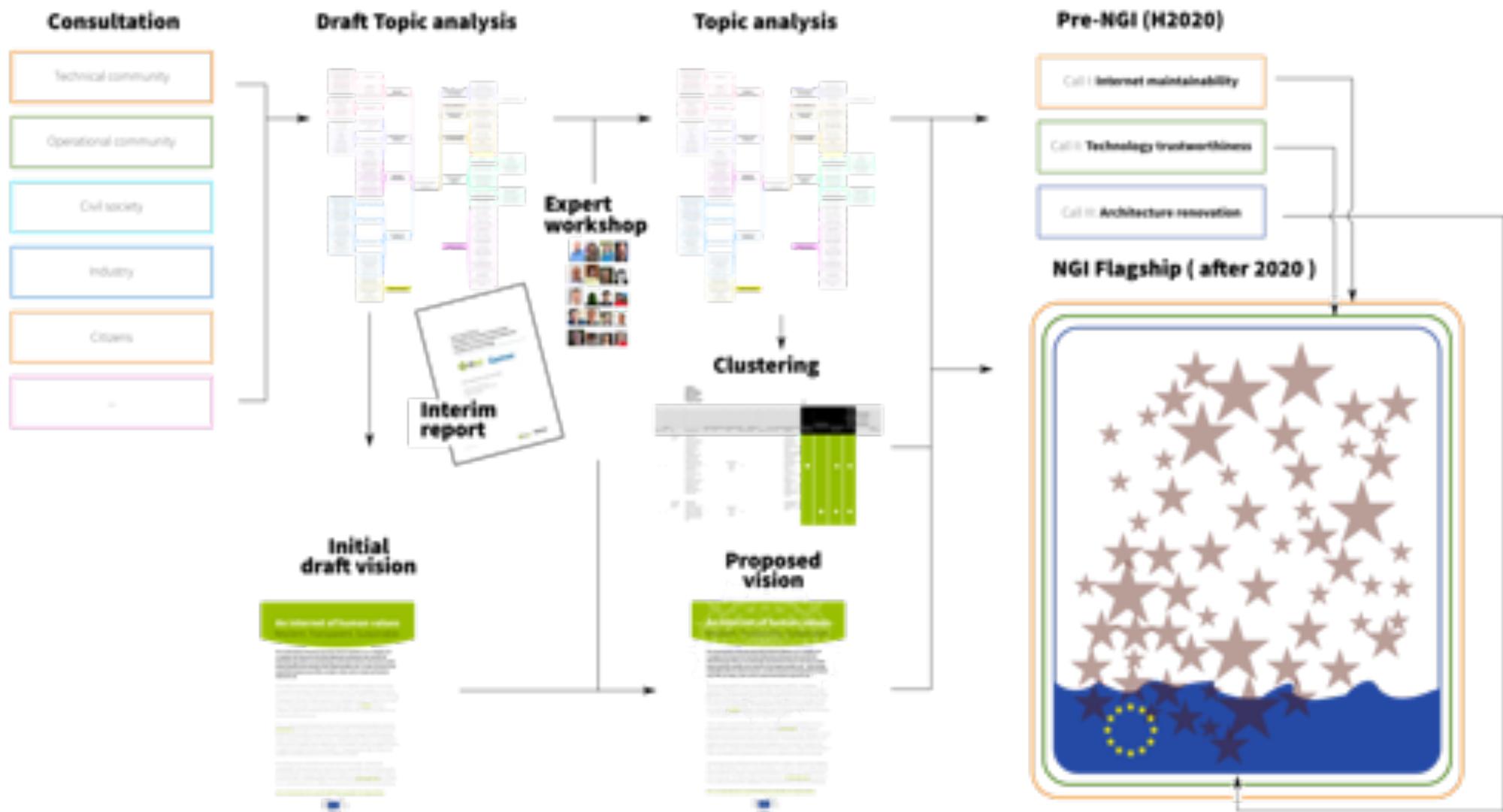☞ Help save future generations

European Commission

# NGI Vision

"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."

**Read full text at https://ngi.eu/vision**

**Consultation**

- Technical community
- Operational community
- Civil society
- Industry
- Citizens
- ...

**Draft Topic analysis**

**Expert workshop**

**Interim report**

**Initial draft vision**

An internet of human values

**Topic analysis**

**Clustering**

**Proposed vision**

An Internet of human values

**Pre-NGI (H2020)**

- Call I: Internet maintainability
- Call II: Technology trustworthiness
- Call II: Architecture renovation
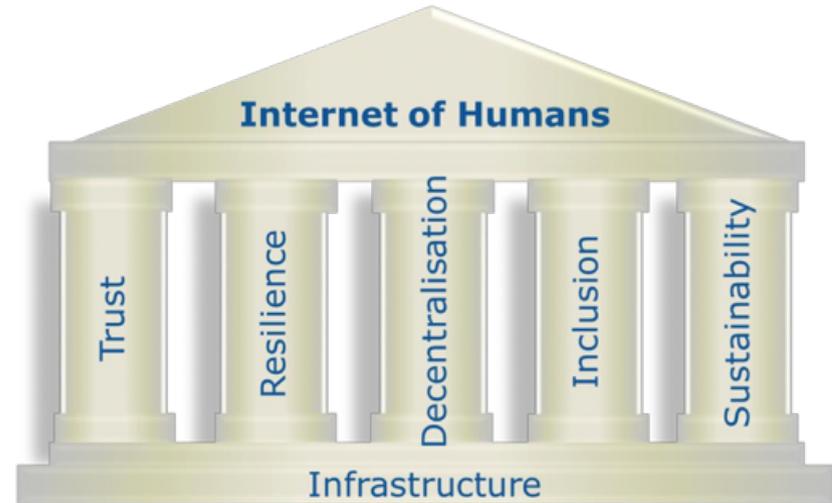
**NGI Flagship ( after 2020 )**

# The larger ecosystem

# NGI Vision

**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

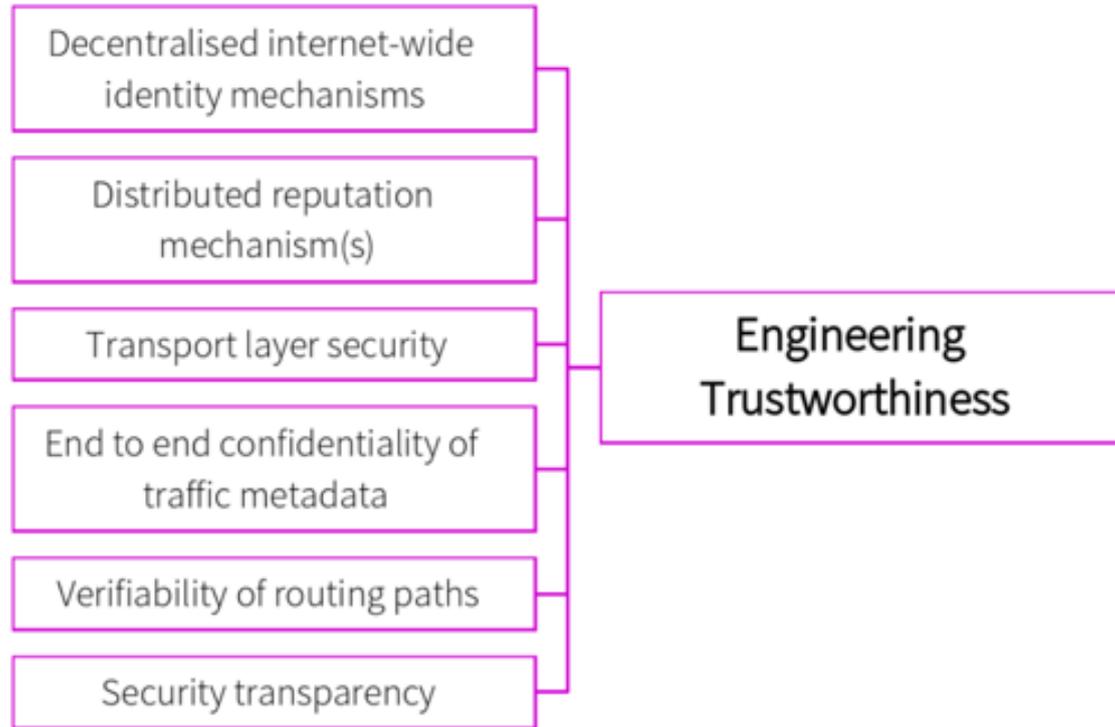- **Sustainability**: Reduced carbon footprint

# Engineering trustworthiness

The original core architecture has been exposed as rather fundamentally untrustworthy. A key rationale for creating a Next Generation Internet.

As one interviewed expert succinctly put: *"we need trust built from the ground up"*. Every technical primitives from the current internet needs to be re-evaluated in terms of the complete threat catalogue.

# Building security from the ground up



Decentralised internet-wide identity mechanisms

Distributed reputation mechanism(s)

Transport layer security

End to end confidentiality of traffic metadata

Verifiability of routing paths

Security transparency

Engineering Trustworthiness

Visit www.ngi.eu

# NGI OPEN CALLS

– OPEN –

**PRIVACY ENHANCING TECHNOLOGIES**

NGI TRUST OPEN CALL

**DECENTRALISED TECHNOLOGIES**

LEDGER OPEN CALL

**NEXT GENERATION SEARCH AND DISCOVERY**

NGI ZERO DISCOVERY

**PRIVACY & TRUST ENHANCING TECHNOLOGIES**

NGI ZERO PET

3/

# NGI OPEN CALLS

Visit www.ngi.eu

– OPEN –

### PRIVACY ENHANCING TECHNOLOGIES

**NGI TRUST OPEN CALL**
April 30th deadline!

### DECENTRALISED TECHNOLOGIES

**LEDGER OPEN CALL**
April 30th deadline!

### NEXT GENERATION SEARCH AND DISCOVERY

**NGI ZERO DISCOVERY**
April 1st deadline!

### PRIVACY & TRUST ENHANCING TECHNOLOGIES

**NGI ZERO PET**
April 1st deadline!

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# EU-US Collaboration

NEXT GENERATION INTERNET

Next Generation Internet
Research & Innovation actions

search and discovery

privacy and trust enhancing technologies

distributed data

privacy and trust enhancing technologies

service portability and data decoupling

architecture renovation

strengthening internet trustworthines

internet hardening

securing end-user rights

Verification & accountability

automation mechanisms for NGI

transparency mechanisms

fair access and freedom of use

user empowerment

greening the internet

internet maintainability

open hardware

browser trustworthiness

service resilience

mobile privacy

scalability

inclusiveness

H2020

# Key characteristics



Go to
https://ngi.eu
and navigate to
Open Calls

5.6 million euro in grants between now and 2021

5.6 million euro in small grants between now and 2021

Three Competitive calls – 30th April (and again in October + February 2020)

Viability (up to €100k)
Execution (up to €180k)*
Commercialisation (up to €200k)*

Competitive calls every **two months** until the budget is allocated.

Projects between €5k-50k

# Key characteristics

**search and disco-very**

5.6 million euro in small grants between now and 2021

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**distri-buted data**

5.6 million euro in grants between now and 2021

Competitive calls every **two months** until the budget is allocated.

Projects between €5k-50k

nlnet FOUNDATION

Up to €200k

LEDGER

# Contact me…

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http://ngi.eu/opencalls/