

NGI Zero: year 0

Come work for the internet
on privacy, trust, search & discovery

**Powered by the
European Commission Directorate-General
for Communications Networks
Content and Technology**

825322 / 825310



TODAY WE CREATE THE
INTERNET
OF TOMORROW



“From utopia to dystopia in just 29 short years”

“We demonstrated that the Web had failed instead of served humanity, as it was supposed to have done, and failed in many places. The increasing centralization of the Web ended up producing—with no deliberate action of the people who designed the platform—a large-scale emergent phenomenon which is anti-human.”

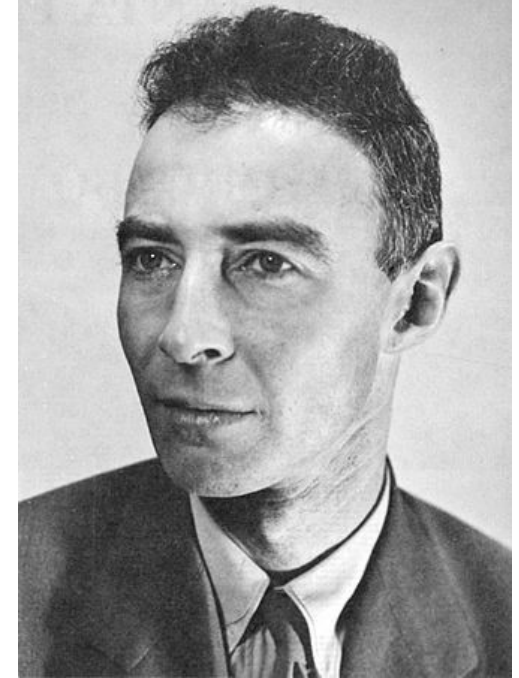


Tim Berners-Lee

An engineering race with high stakes



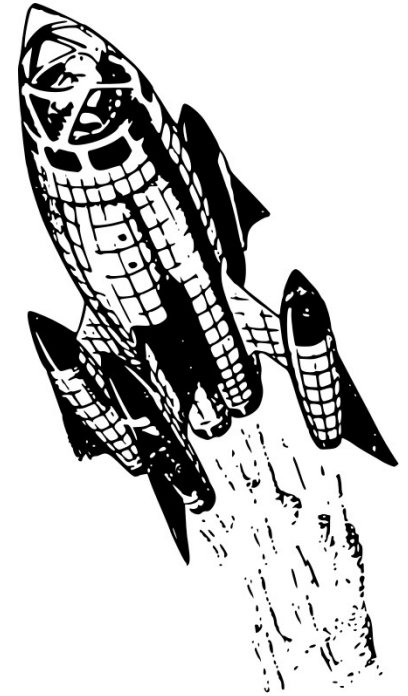
Wernher von Braun



Robert Oppenheimer

NGI is a moonshot ++ effort

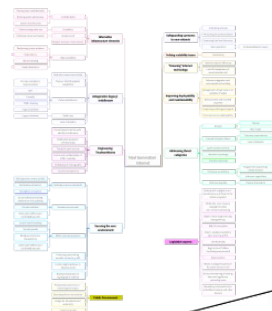
- The internet is the **largest** and **most pervasive** technical construct ever made by humans
- And we need to change it with 3.8+ billion people 'on board'.
- High political stakes. High economic stakes. Highly critical users users. Overloaded with expectations. From everybody.
- Work consistent and forward-thinking. No time to lose.



Consultation



Draft Topic analysis



Initial draft vision

An Internet of human values
Resilient, Transparent, Sustainable

The Internet of human values is a new paradigm for the Internet. It is a new way of thinking about the Internet, one that is centered on human values. It is a new way of thinking about the Internet, one that is centered on human values. It is a new way of thinking about the Internet, one that is centered on human values.

This vision is based on the following principles: 1. Human values are the foundation of the Internet. 2. The Internet should be designed to support human values. 3. The Internet should be designed to be resilient, transparent, and sustainable.

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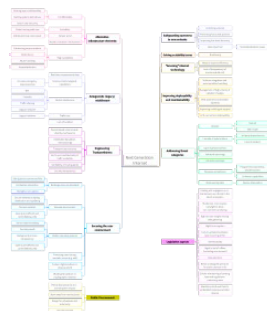
Internet of human values is a new paradigm for the Internet.



Expert workshop



Topic analysis



Clustering

A table showing the results of clustering. It has columns for 'Cluster', 'Topic', 'Sub-topic', 'Value', and 'Weight'. The table contains several rows of data, with some cells highlighted in green.

Proposed vision

An Internet of human values
Resilient, Trustworthy, Sustainable

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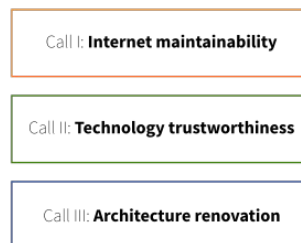
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Internet of human values is a new paradigm for the Internet.



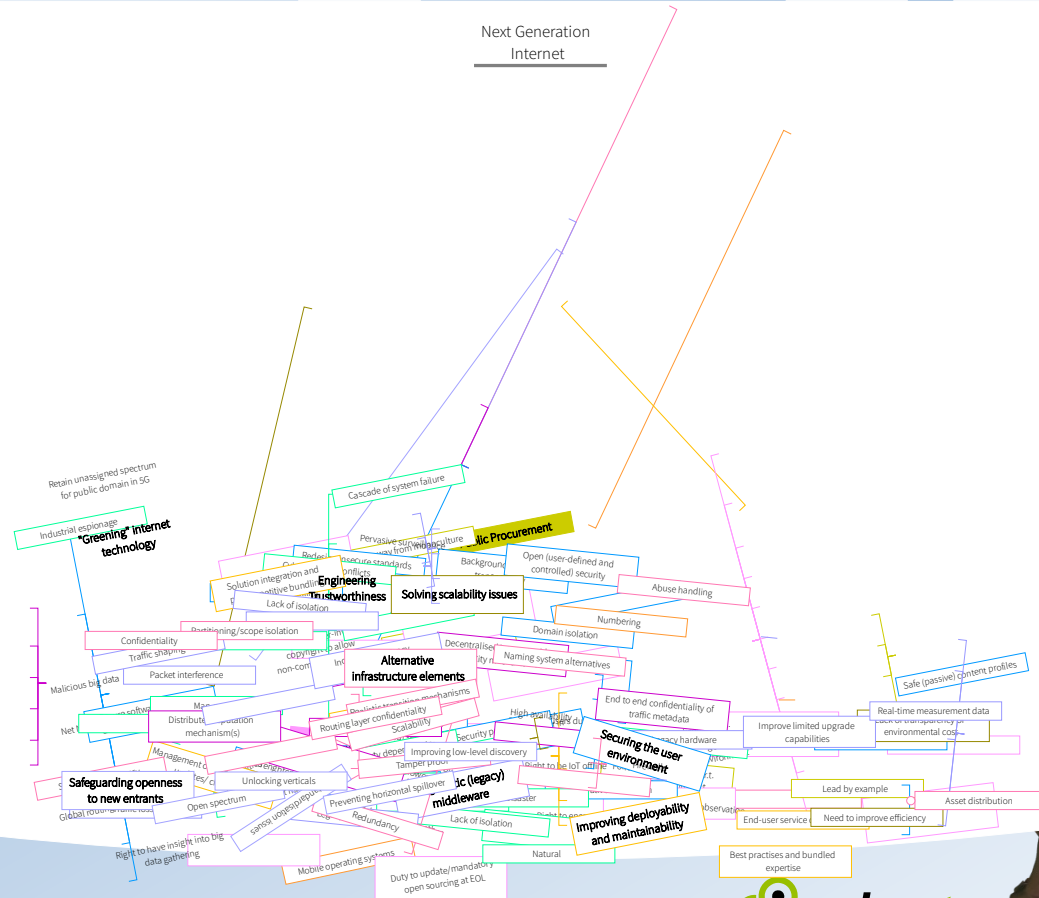
Pre-NGI (H2020)



NGI Flagship (after 2020)







The larger ecosystem



RIPE NCC
RIPE NETWORK COORDINATION CENTRE



W3C[®]



fsfe



**Internet
Society**



DIGITALEUROPE



EDRi

eco

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>

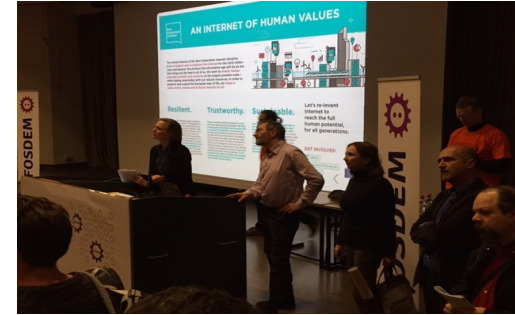


Facilitate incremental innovation as tech commons

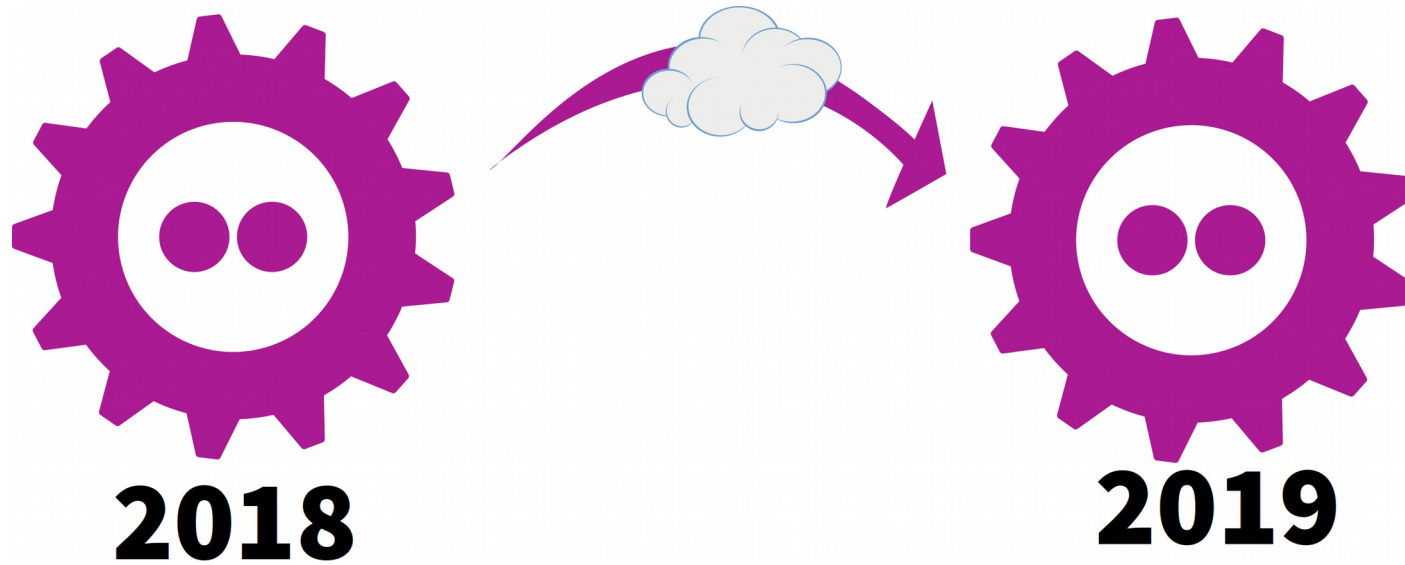


'R&I Actions' should encourage, when relevant, **open source** software and **open hardware** design, access to **data**, **standardisation** activities, access to testing and operational infrastructure as well as an IPR regime ensuring lasting impact and **reusability** of results.

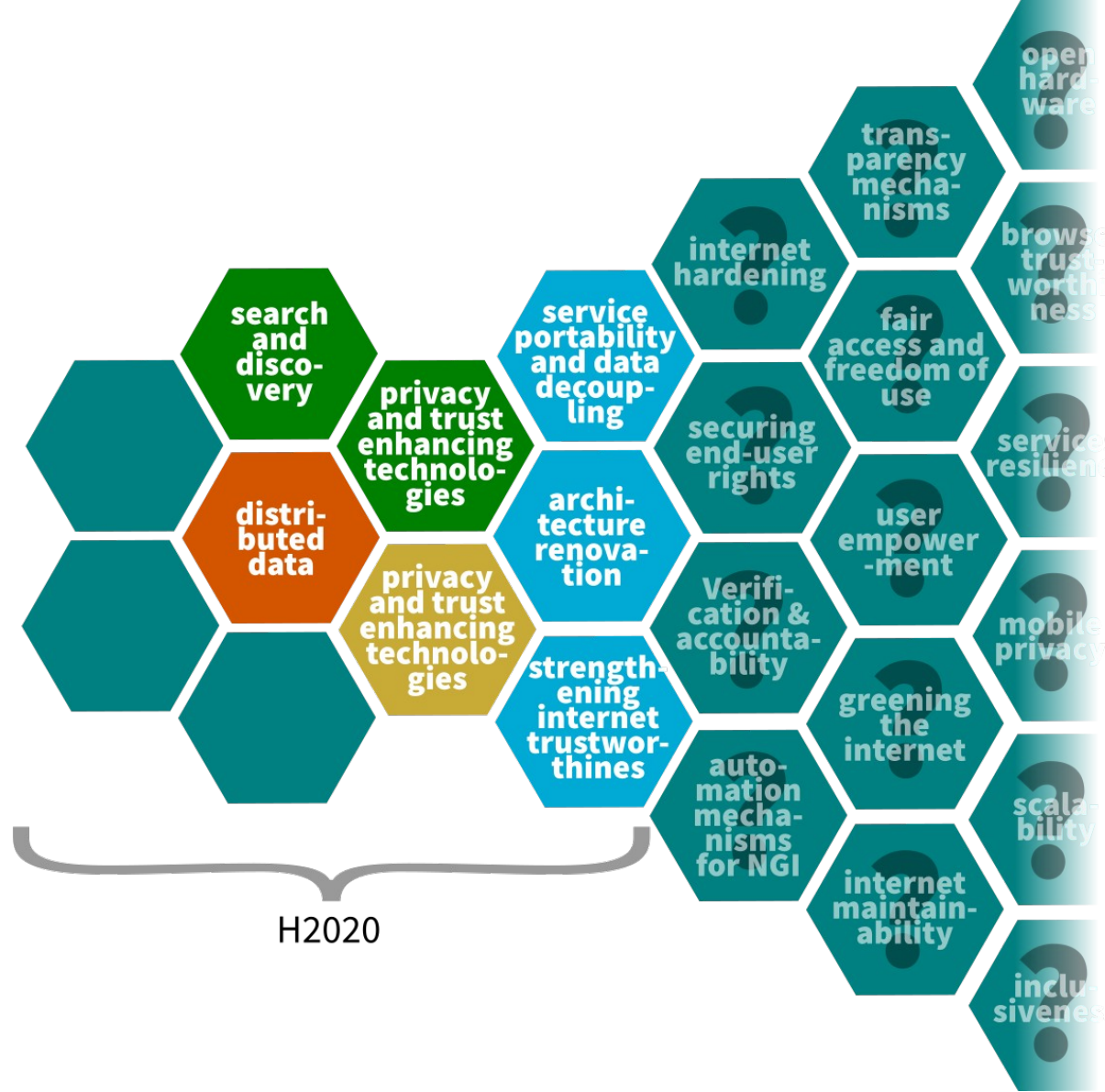
One year ago in a room rather close to this one...

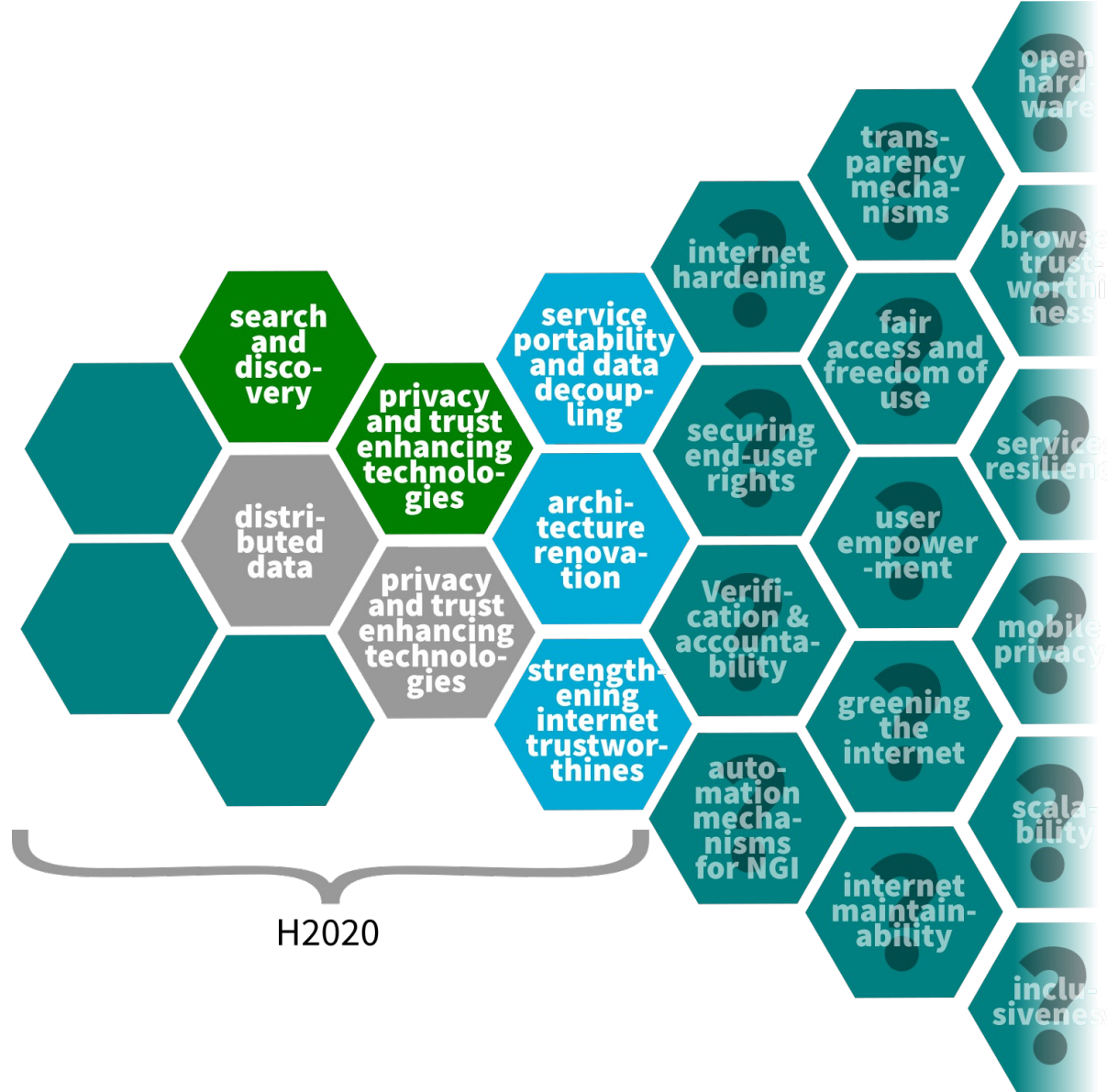


Fast-forward...



Next Generation Internet Research & Innovation actions







[▸ home](#) [▸ foundation](#) [▸ people](#) [▸ funding possibilities](#) [▸ theme funds](#) [▸ projects we support](#) [▸ press](#) [▸ contact](#)



your donations
make a difference



News

NGI Zero awarded two EC research
and innovation actions 2018/12/01

EC publishes study on Next
Generation Internet 2025
2018/10/05

Bob Goudriaan successor of Marc

Open call for funding

Deadline for submission: April 1st 2019

[Submit a proposal](#)

Do you have a valuable idea in the area of networking and internet technology,
[privacy and trust enhancing technologies](#) or [search and discovery](#)? And are
you looking for financial means to make your ideas come to life? Or do you

Calls

Send in your ideas.
Deadline April 1st, 2019.

**HELP FUNDRAISING FOR THE
OPEN INTERNET
WITH FIVE MINUTES OF YOUR TIME**

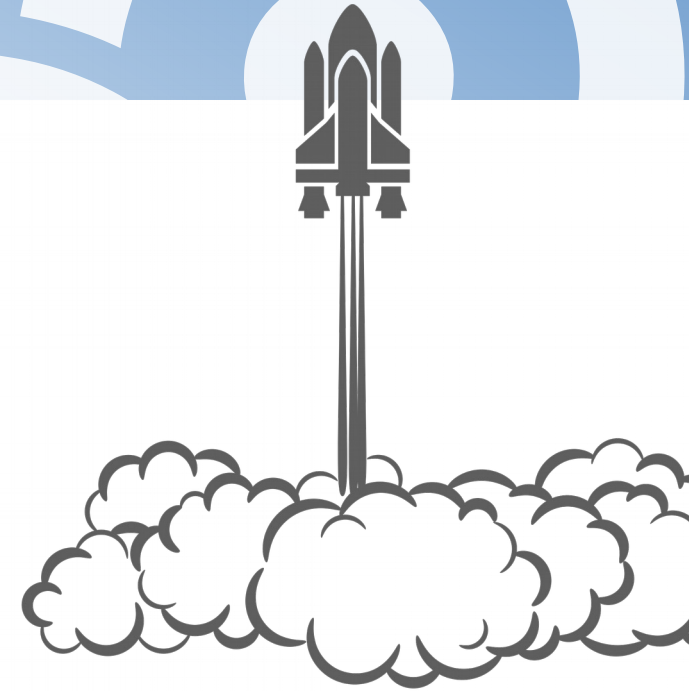
Project-centric



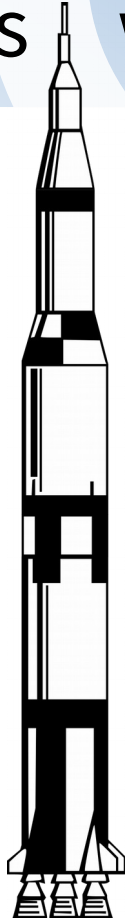
Our approach

Design a light-weight and confidential application procedure providing adequate insight into technical capabilities as well as the urgency, relevance and relative cost effectiveness of the projects proposed at a low cost to the **applicants**.

Weight	Criterion
30%	Technical excellence/feasibility
40%	Relevance/Impact/Strategic potential
30%	Cost effectiveness/Value for money



Improve ideas where needed



.. we use a staged approach which identifies and amends missing or inadequate aspects of the proposals prior (and conditional) to the start of a project.

... and guide and support projects with essential QA and strategic aspects that require additional expertise



Be consistent in requirements and best practices

*Make sure every project delivers on **accessibility***

*Make sure projects can be **localised**/internationalised*

*Make sure **licensing** is compatible and all legal stuff is in order*

Support with dealing with **standards** setting organisations

Provide a **responsible disclosure** procedure

Provide **documentation** for users/developers



(continued)

Mentor with applying best practices
in **secure software** development
across all projects

Create a **reproducible** build
environment and help design
automated tests

Perform an early stage
independent **security scan** of
the project plan

Make software **available** early
to allow for 'many eyeballs'

Independent **security scan** of
the actual outcomes



(continued)

Liaise and mentor projects with interacting with **ecosystem** and **target groups**, e.g. technical and operational community, digital rights organisations, free software community, businesses, consumer organisations, end users

Manage and support **diversity** and gender bias in the design phase



Privacy & Trust Enhancing Technologies



Privacy & Trust Enhancing Technologies

Privacy isn't dead, but we lack the right tools to protect our intimacy

Reliability, confidentiality, integrity and security should be the '**new normal**' of the internet, something ordinary users should not have to worry about.

Trust is one of the key drivers for the Next Generation Internet, and an adequate level of privacy is a non-negotiable requirement for that.



Next Generation Search & Discovery



Next Generation Search & Discovery

**The pen may be mightier
than the sword, but how
does it fare against the
search button?**

Search should not be a gatekeeper, a black box or a privacy nightmare. If the internet is the equivalent of a global brain, we need creativity and diversity in the pathways across that brain to unlock its true potential. Search and discovery are basic human needs for humans of all ages, and we would like to put powerful new technology in the hands of future generations as building blocks for a fair and democratic society and an open economy that benefits all.



Key characteristics

search and discovery

5.6 million euro
in small grants
between now and
2021

Competitive calls every
two months until the
budget is allocated.

Projects between 5k-50k

Walk the talk:

Inclusion

Security

Localisation

Open Standards

Free & Open Source

Deliver to deploy

privacy and trust enhancing technologies

5.6 million euro
in small grants
between now and
2021

For other calls and more info

**privacy
and trust
enhancing
technolo-
gies**

5.6 million euro
in grants between
now and 2021

NGI Trust
LEDGER

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

**distrib-
uted
data**

5.6 million euro
in grants between
now and 2021



The Team



Accessibility.nl



Center for the
Cultivation of
Technology



NixOS



Everything we ever learned about grant management and maturing technology comes together in NGLS.
The idea of great grant making is after all simple: it is not about the funders, but about the fundees.

ETH zürich



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join us and help discover and shape the next generation internet
and claim your spot in human history

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

Read all about it on

👉 <https://nlnet.nl/discovery>

👉 <https://nlnet.nl/PET>

👉 <https://ngi.eu>



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