

# NGI Zero: come work for the internet

Funding the Next Generation Internet

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

825322 / 825310



**Internet New Years Event**

**2019-01-17**

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.”

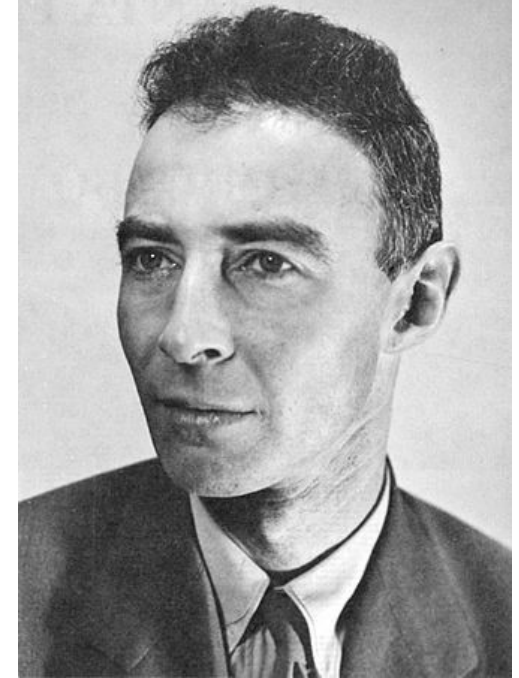


Tim Berners-Lee

# An engineering race with high stakes



Wernher von Braun



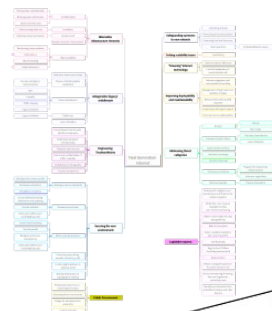
Robert Oppenheimer



## Consultation



## Draft Topic analysis



## Initial draft vision

**An internet of human values**  
Resilient, Transparent, Sustainable

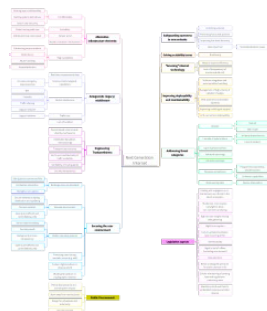
The vision of the Internet of Human Values is a vision of a future where the Internet is not just a tool for communication and information exchange, but a platform for human values. It is a vision of a future where the Internet is not just a tool for communication and information exchange, but a platform for human values. It is a vision of a future where the Internet is not just a tool for communication and information exchange, but a platform for human values.

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For more information, please visit <https://www.gartner.com/en/articles/initial-draft-vision-of-the-internet-of-human-values>



## Topic analysis



## Expert workshop



## Clustering

Cluster	Topic	Sub-topic	Value
1	Resilient	Resilient	1
2	Transparent	Transparent	2
3	Sustainable	Sustainable	3
4	Human values	Human values	4
5	Internet of human values	Internet of human values	5

## Proposed vision

**An internet of human values**  
Resilient, Trustworthy, Sustainable

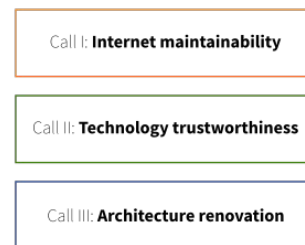
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## Pre-NGI (H2020)



## NGI Flagship ( after 2020 )

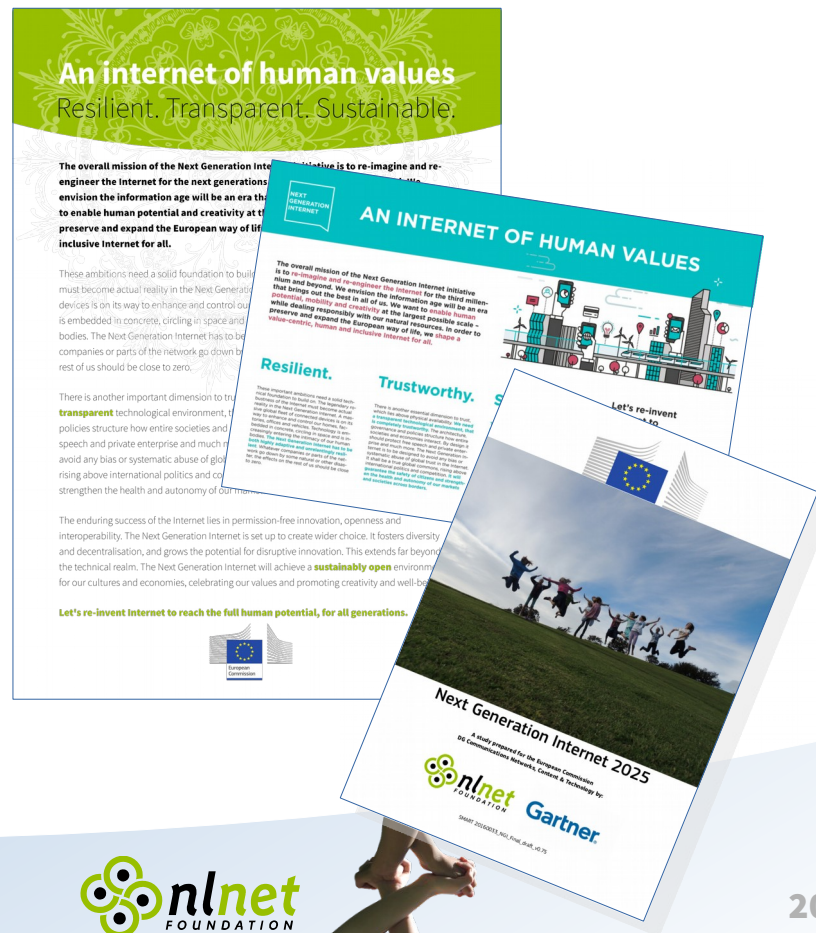




# NGI Vision

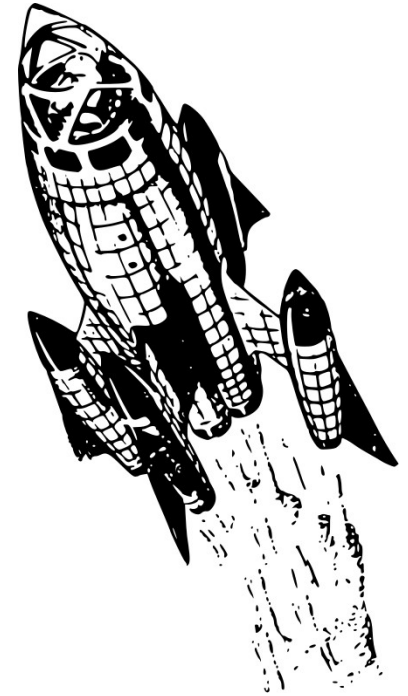
“The overall mission of the Next Generation Internet initiative is to re-imagine and re-engineer the Internet for the third millennium and beyond. **We envision the information age will be an era that brings out the best in all of us.** We want to enable human potential and creativity at the largest possible scale. In order to preserve and expand the European way of life, we shape a value-centric, human and inclusive Internet for all.”

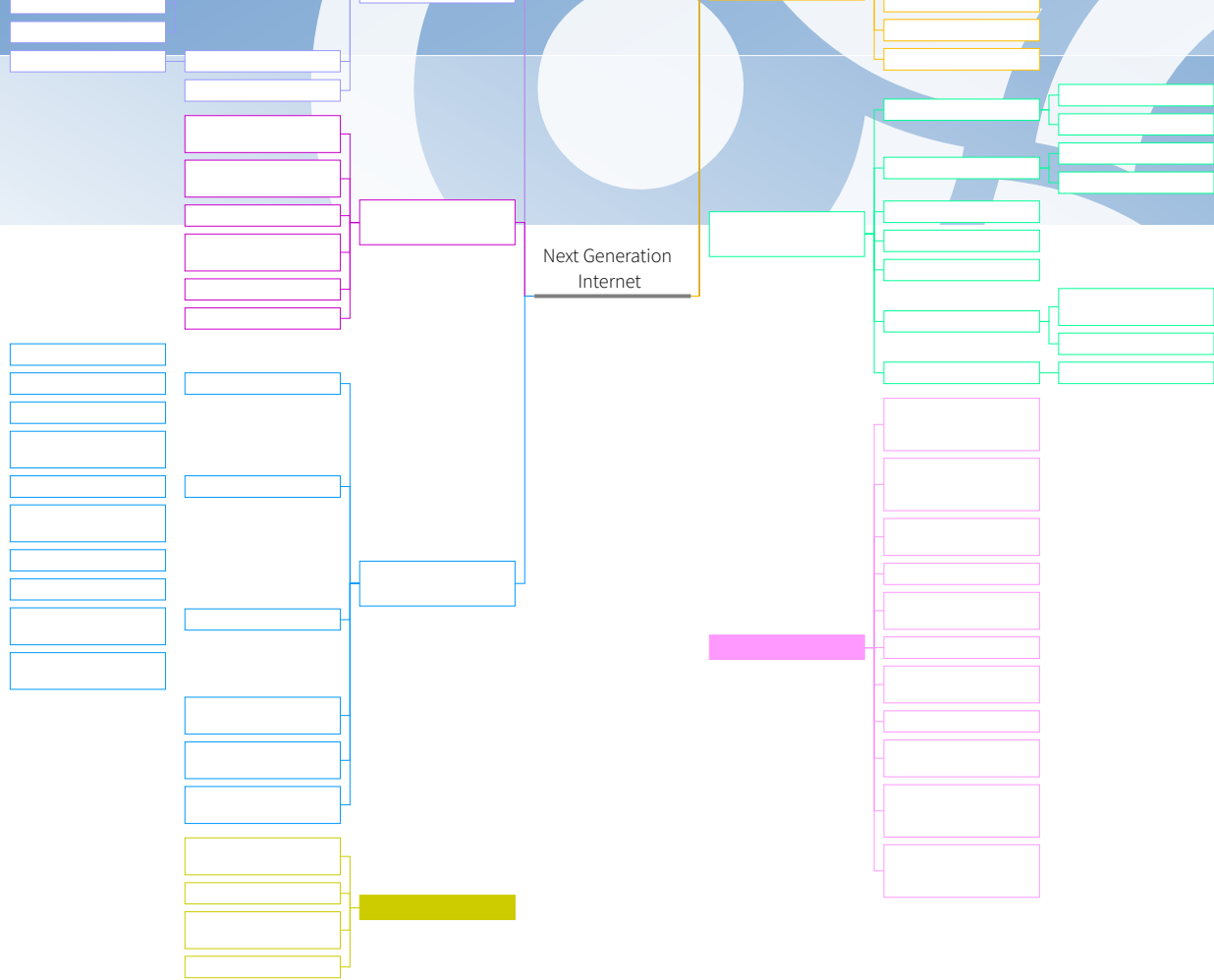
Read full text at <https://ngi.eu/vision>



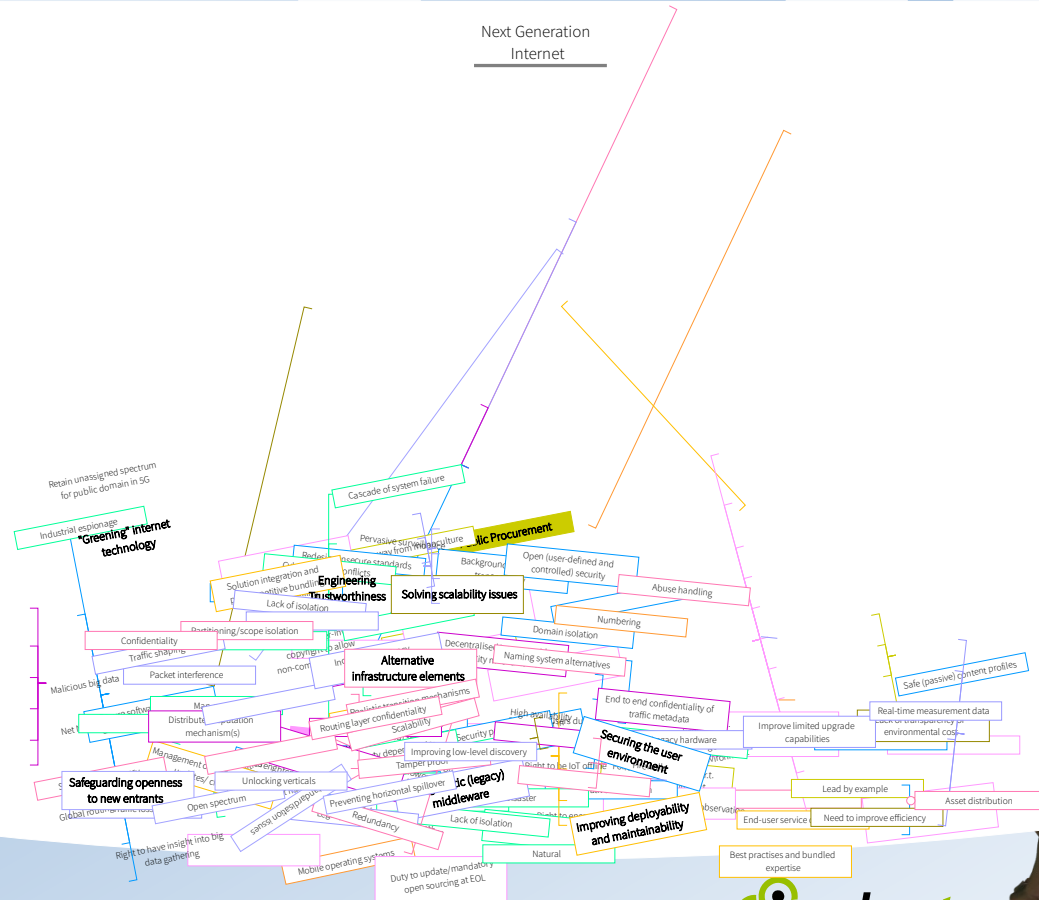
# NGI is a moonshot ++ effort

- 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.







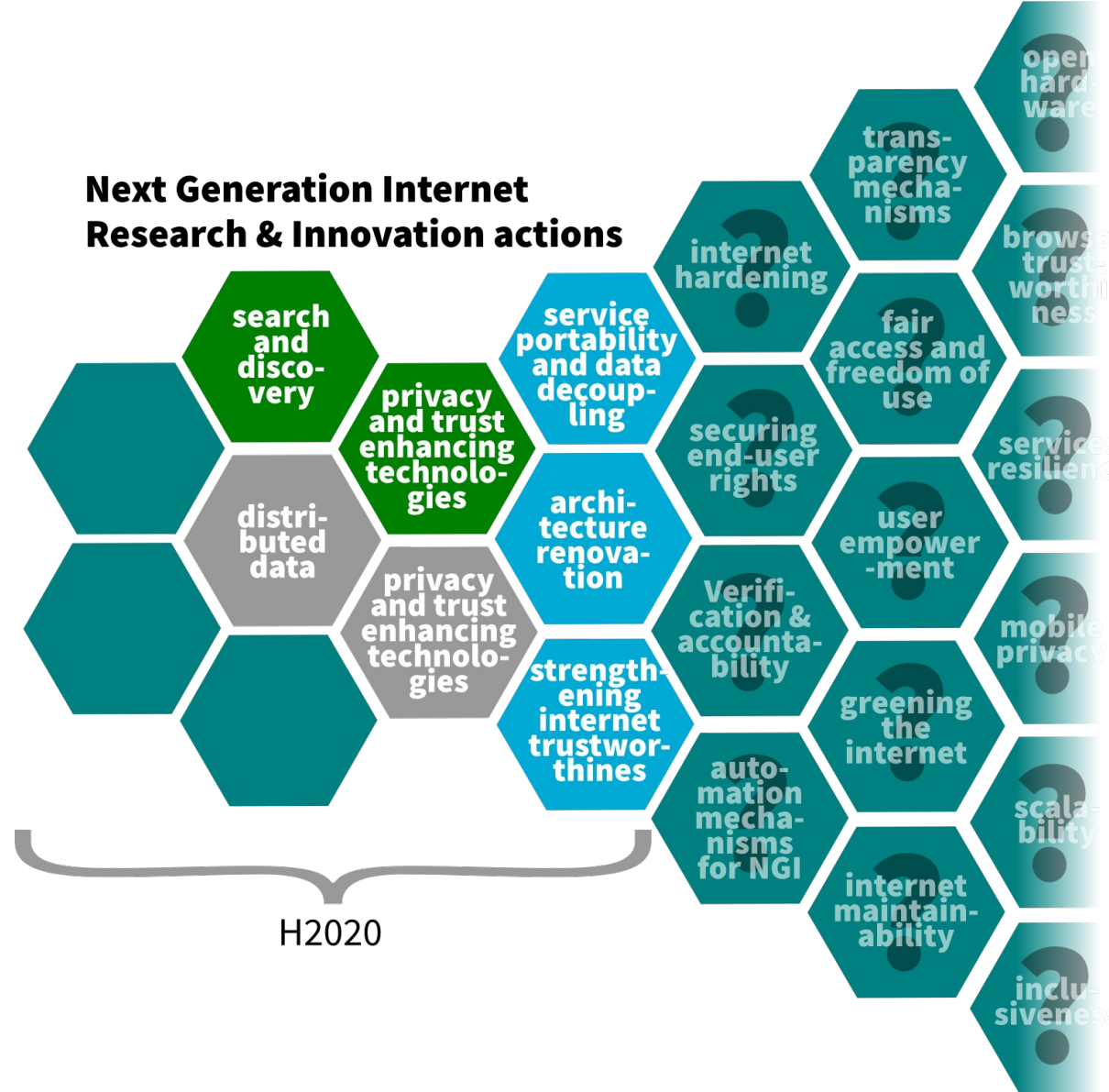


# Facilitate incremental innovation as tech commons



'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.

## Next Generation Internet Research & Innovation actions





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



## News

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

Bob Goudriaan successor of Marc Gauw  
2017/10/12

NLnet Labs' Jaap Akkerhuis inducted in Internet Hall of Fame  
2017/09/19

## Apply for a grant

Next deadline: February 1st 2019 12:00 CET

This form can be used to request support for your project. Note that some larger funds like the [Discovery Fund](#) and the [Privacy & Trust Fund](#) have special and strict conditions, and you'd better have a look at them before you submit a proposal. Also note that releasing software, hardware and content under open licenses, and the application of open standards where possible are transversal requirements for all. From our end we will provide a transparent and fast selection process. Please check the call-specific guide for applicants for the call you are interested in.

## Calls

Send in your ideas.  
Deadline Feb 1st, 2018.



Want to help but no money to spend? Help us by [protecting open source](#) and its users.





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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



# Project-centric





# The larger ecosystem



**RIPE NCC**  
RIPE NETWORK COORDINATION CENTRE



**W3C**<sup>®</sup>



**fsfe**



**Internet  
Society**



**DIGITALEUROPE**



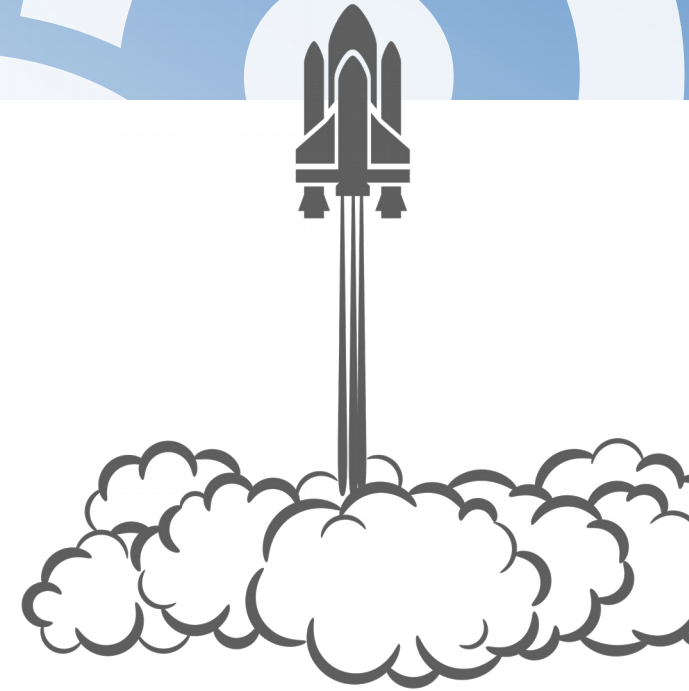
**EDRi**

**eco**

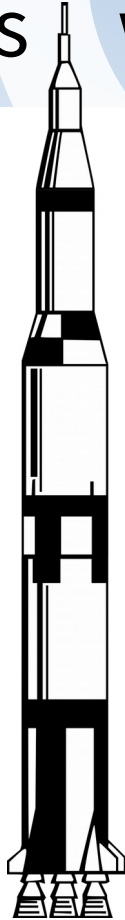
# Our approach

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  
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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 INO.  
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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