

# NGI Zero: come work for the internet

Funding the Next Generation Internet

**European Commission Directorate-General  
for Communications Networks,  
Content and Technology**

825322 / 825310



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**Web Summit**

**2018-11-06**

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

# Leaving the Gold Rush behind us...



**IDEAS**  
Wanted DEAD or ALIVE  
REWARD €50.000 in CASH

European  
Commission

**Do NOT try to run or install  
May cause danger to your systems**

Please report immediately to your  
**NEAREST NATIONAL CONTACT POINT**







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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



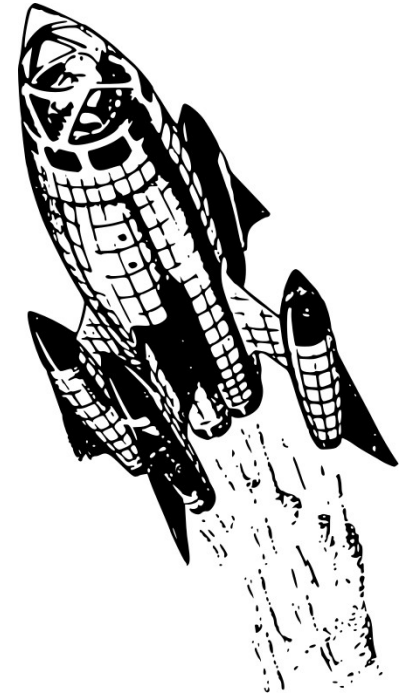
# Starting point: NGI Vision

“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.”



# 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.

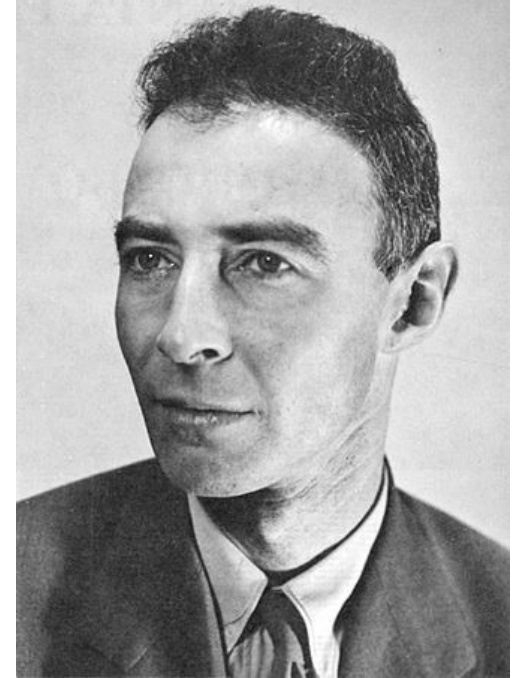




# An engineering race with high stakes



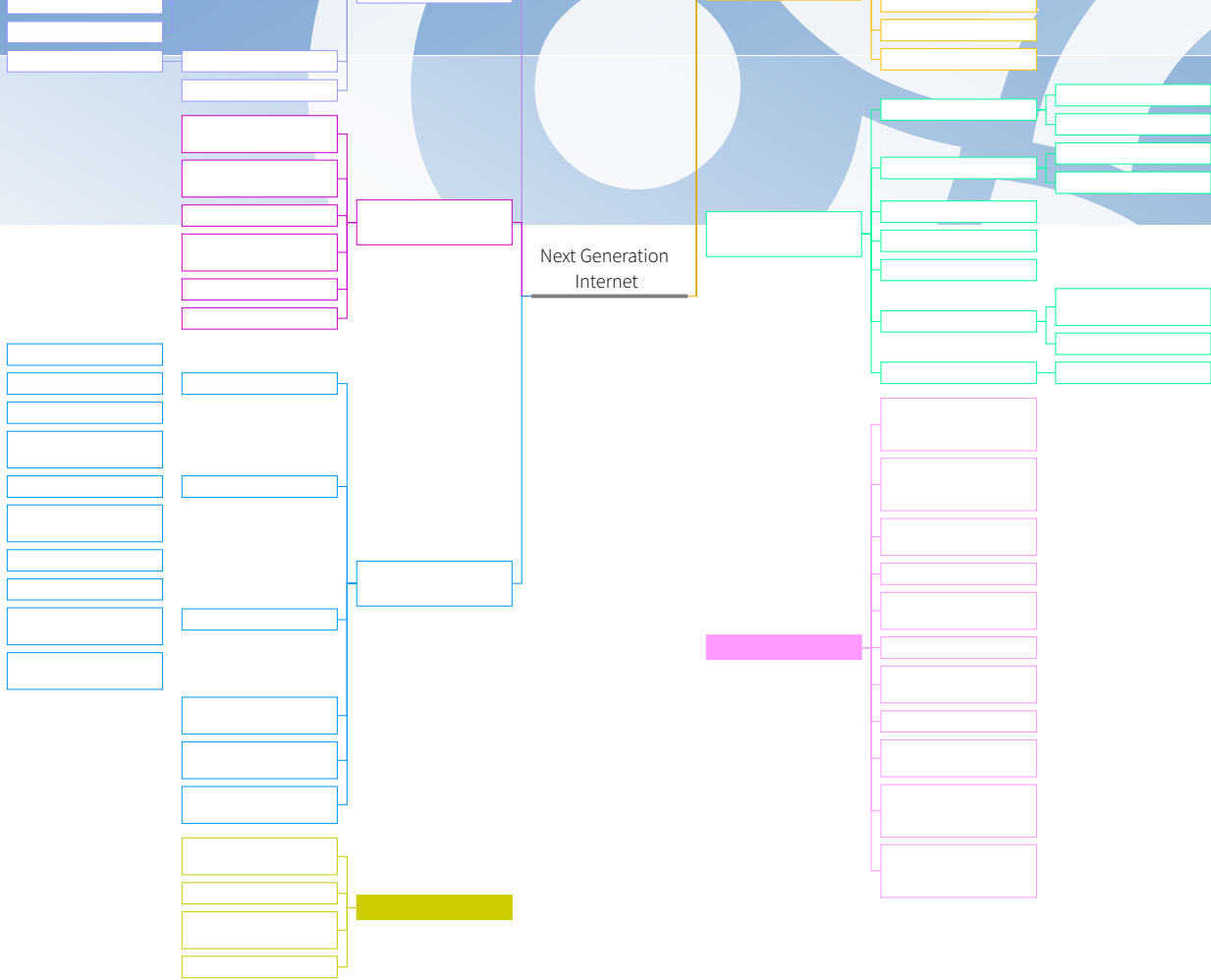
Wernher von Braun



Robert Oppenheimer





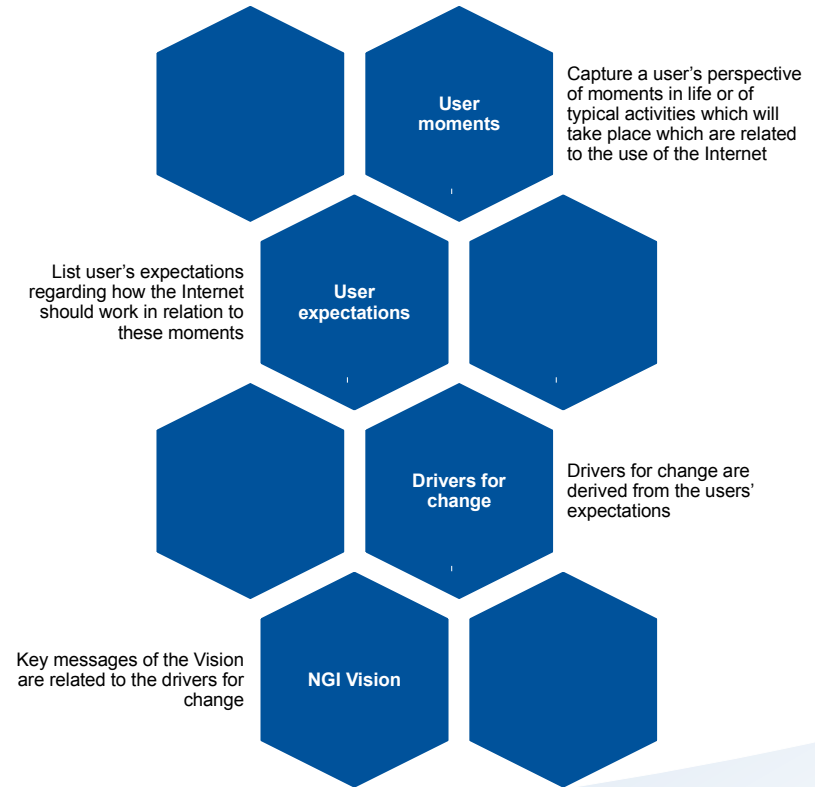




# Thorough and strategic approach

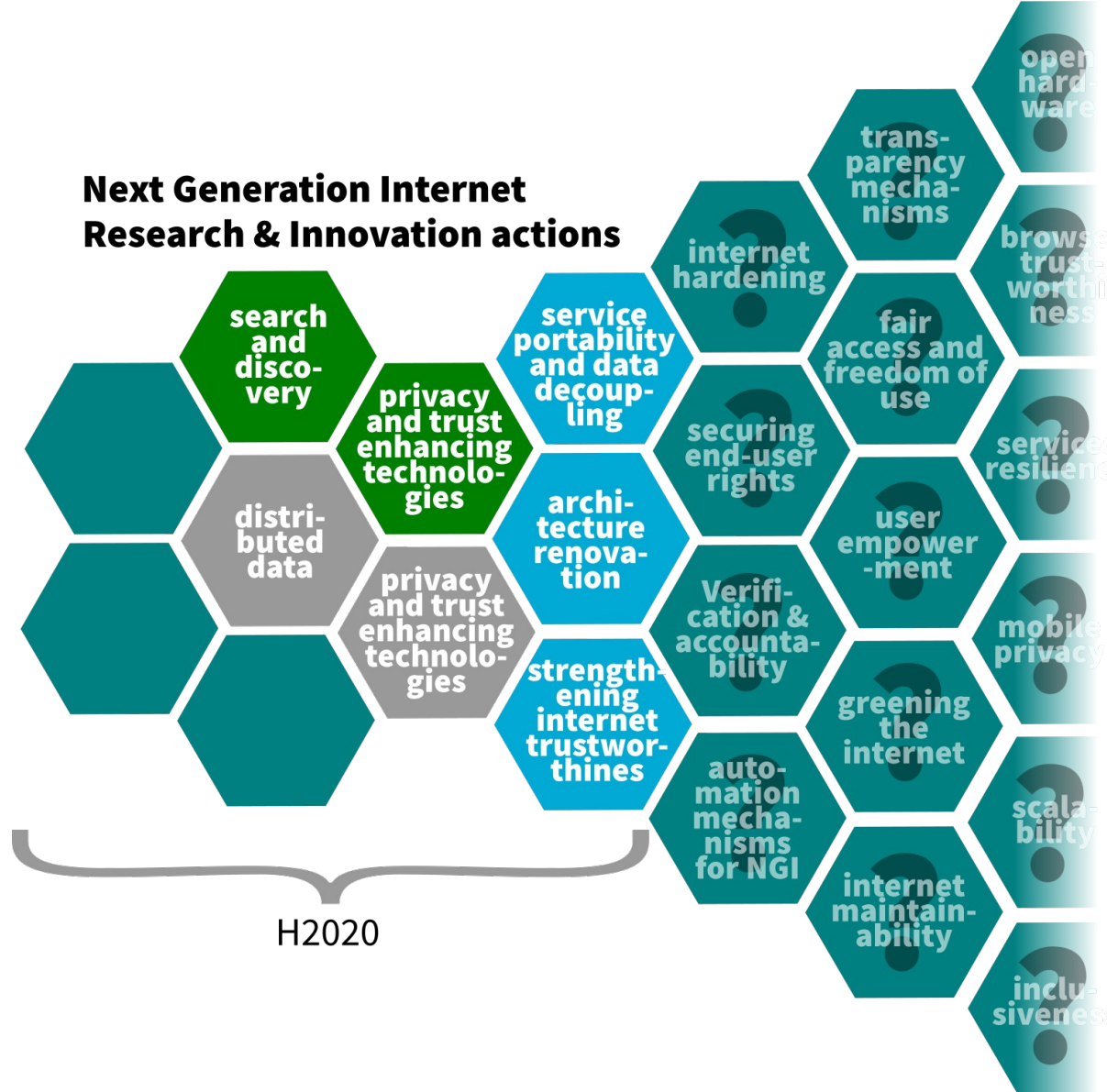
Work up from **user needs**,  
**operational understanding**  
and **systemic requirements** to  
create a **coherent framework**

Design for sustainable  
**real-world impact** and  
consistently build on **best  
practices** in the **public interest**





# Next Generation Internet Research & Innovation actions



H2020

# Facilitate incremental innovation



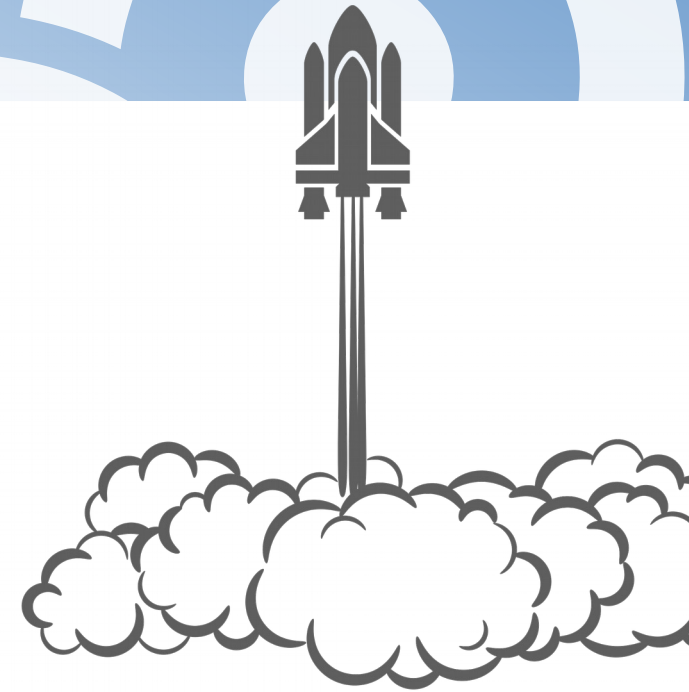
'R&I Actions' should encourage, when relevant, open source software and open hardware design, access to data, standardisation activities, access to testing and operational infrastructure as well as an IPR regime ensuring lasting impact and reusability of results.



# Our approach

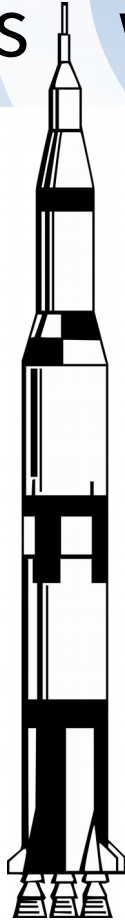
Design a light-weight and confidential application procedure providing adequate insight into technical capabilities as well as the urgency, relevance and relative cost effectiveness of the projects proposed.

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



# Apply best practices (“act as if its for real”)

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



# Software security

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





# And other best practices...

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



# The Team



Accessibility.nl



Center for the  
Cultivation of  
Technology



NixOS



www.securesoftware.nl  
constructive about secure software



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

**ETH** zürich



# The larger ecosystem



DIGITALEUROPE 



# Summary

**search  
and  
discovery**

5.6 million euro  
in small grants  
between now and  
2021

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

**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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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://nl.net.nl/discovery>

👉 <https://nl.net.nl/PET>

👉 <https://ngi.eu>





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