

NGI Zero PET & Discovery

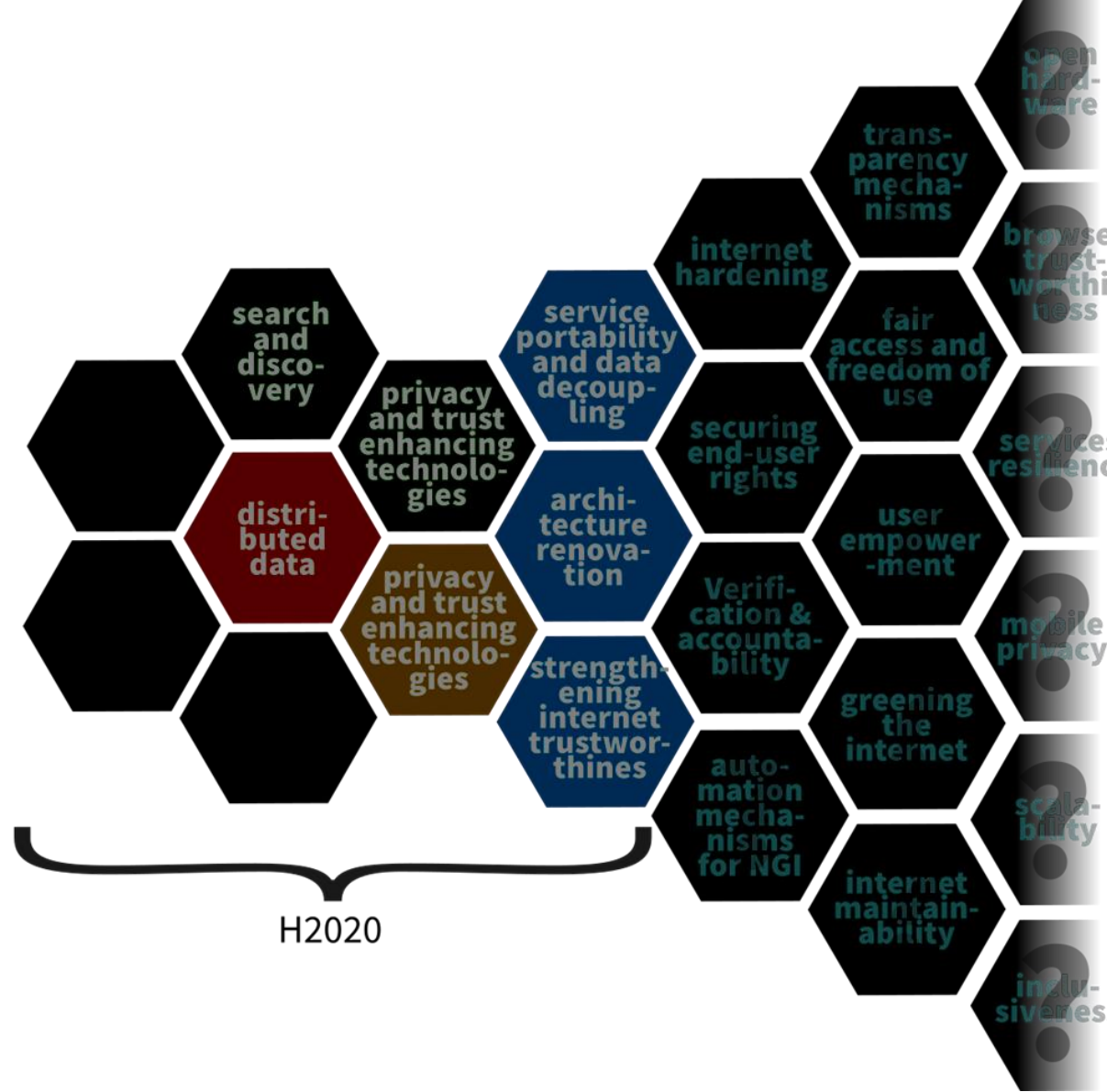
Open bi-monthly R&D funding calls
Privacy and trust enhancing technologies
Search and discoverability

EC grant agreements 825322 / 825310

IoT Week, Aarhus


2019-06-18

Next Generation Internet Research & Innovation actions






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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:

[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

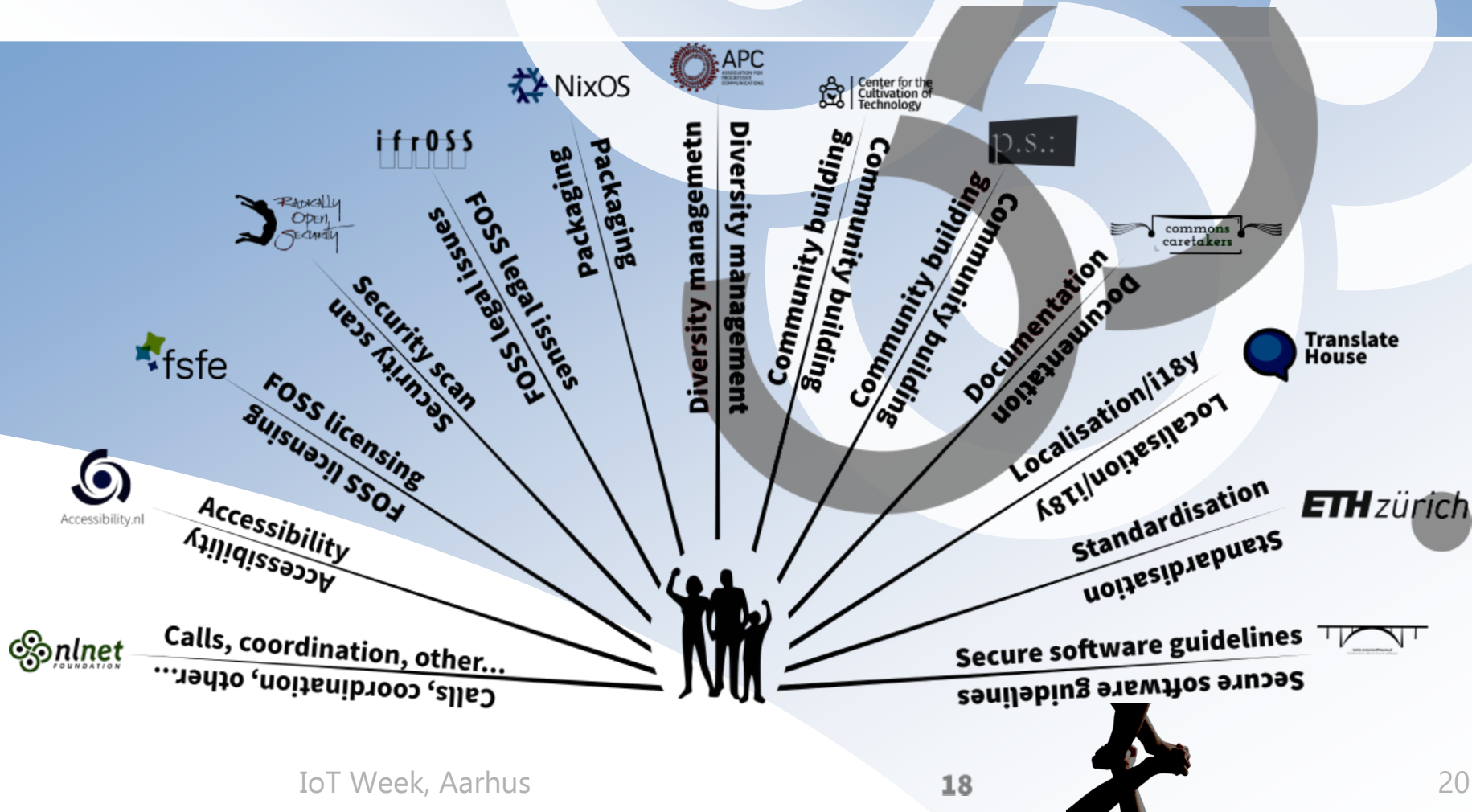
Calls

Send in your ideas.

Deadline:

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

We aim to be project-centric



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

Different layers

- End user applications

- Searx, Plaudit, Blink RELOAD, Sonar, El Repo, Transparency Toolkit, CoinDiscovery

- Technical building blocks

- GNU Name System, Software Vulnerability Discovery, IPFS Search, DID Resolver/Registrar

- Community infrastructure

- StreetComplete, Fediverse.Space, SCION Geotagging, DeltaBot, In Common, SCION-SWARM, Fediverse Space

- Explorative search and discovery



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.



Different layers of trust

- New end user applications bringing Privacy and Trust to users
 - Conversations, Sylk, Briar, Autocrypt, Cryptpad, Manyverse, Wireguard
- Human-centric middleware/Enablers:
 - IRMA, node-TOR, ValOS, Replicant OS, Rocket CWMP, Mobile Nixos, SCIM, ARPA2 ACL/SASL
- New standards and protocols to solve critical issues “upstream”
 - DID*, GNU Name System*, IMSI Pseudonymisation, TLS-KDH, SASL XMSS, Reowolf
- Technical and fundamental building blocks for trustworthiness

Key characteristics

**search
and
discovery**

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

**privacy
and trust
enhancing
technologies**

Projects between 5k-
50k

5.6
million
euro
in small
grants
between

Walk the talk:

Inclusion
Security
Localisation
Open Standards

5.6
million
euro
in small
grants
between



Shoutouts to the larger ecosystem



RIPE NCC
RIPE NETWORK COORDINATION CENTRE



DIGITALEUROPE



Great! But what does this mean for IoT?

- Fixing persistent internet (and IoT) privacy and security issues
 - Rocket CWMP develops CWMP-client for ISPs supporting TR-069/TR-181 capable of integrating into existing solutions for automatic and remote software installation of CPE's
 - TLS-KDH mbed standardizes TLS-KDH combining Kerberos authentication with Perfect Forward Secrecy key exchange for TLS
- Developing distributed privacy-friendly and secure (IoT) search and discovery
 - Neuropil builds a de-centralized messaging layer where persons, machines and applications first identify partners/content through built-in distributed hash table before information is exchanged

The Team



Center for the
Cultivation of
Technology

Accessibility.
nl

i f r o s s

p.s.:





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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>



