

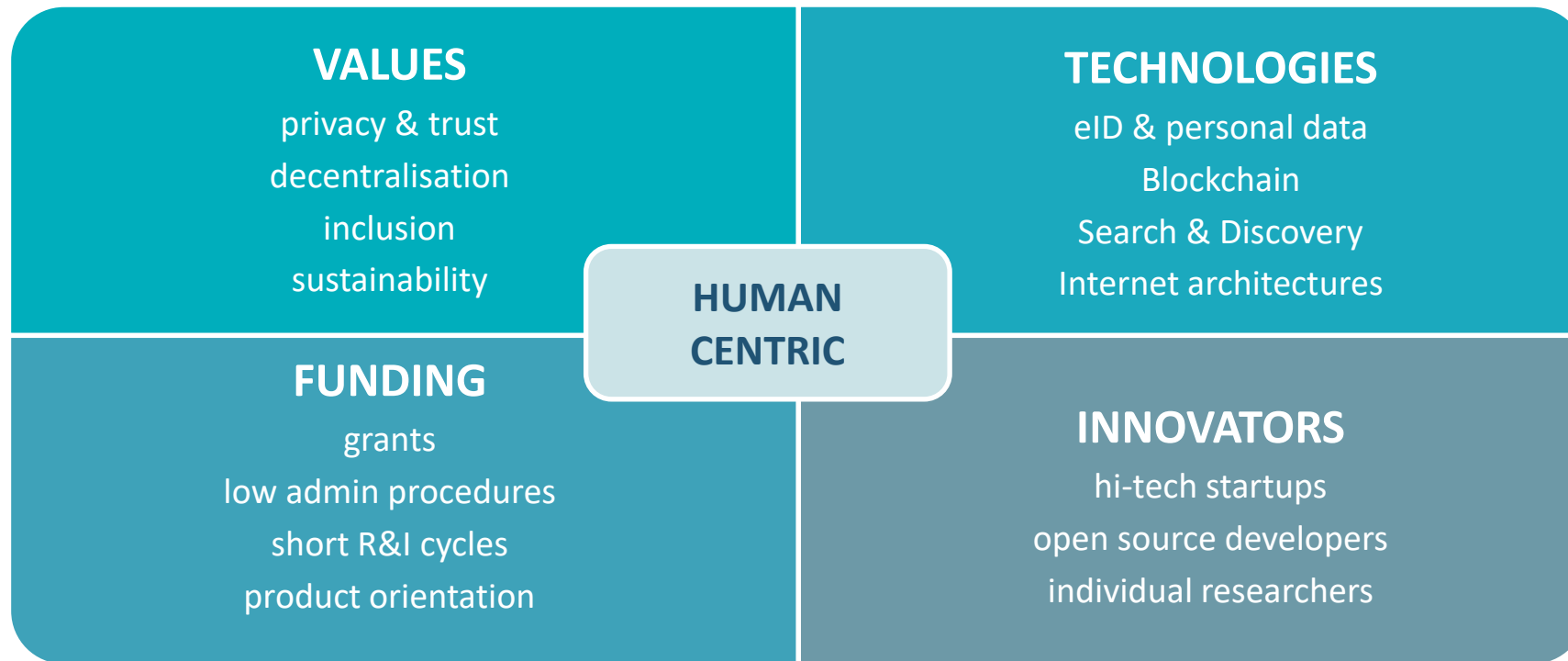
NGI

NEXT GENERATION INTERNET

Jorge GASÓS

European Commission – DG CONNECT

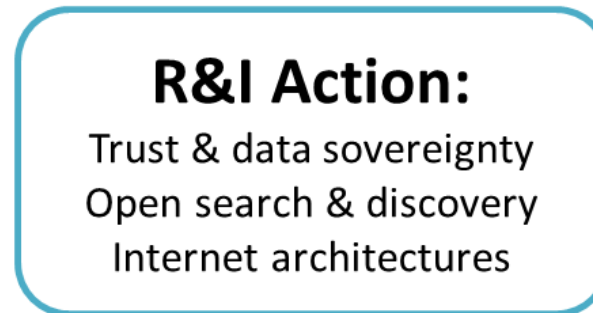
NEXT GENERATION INTERNET : AN INTERNET OF TRUST



R&I PROJECT IMPLEMENTATION THROUGH SUB-GRANTING

Project submitted to EC call:

- Run by organisations in the ecosystem
- Leadership in the research area
- 36 months duration
- 80% for sub-grantees, pan-European**
- Procedures adapted to stakeholders



Activities include inter-alia:

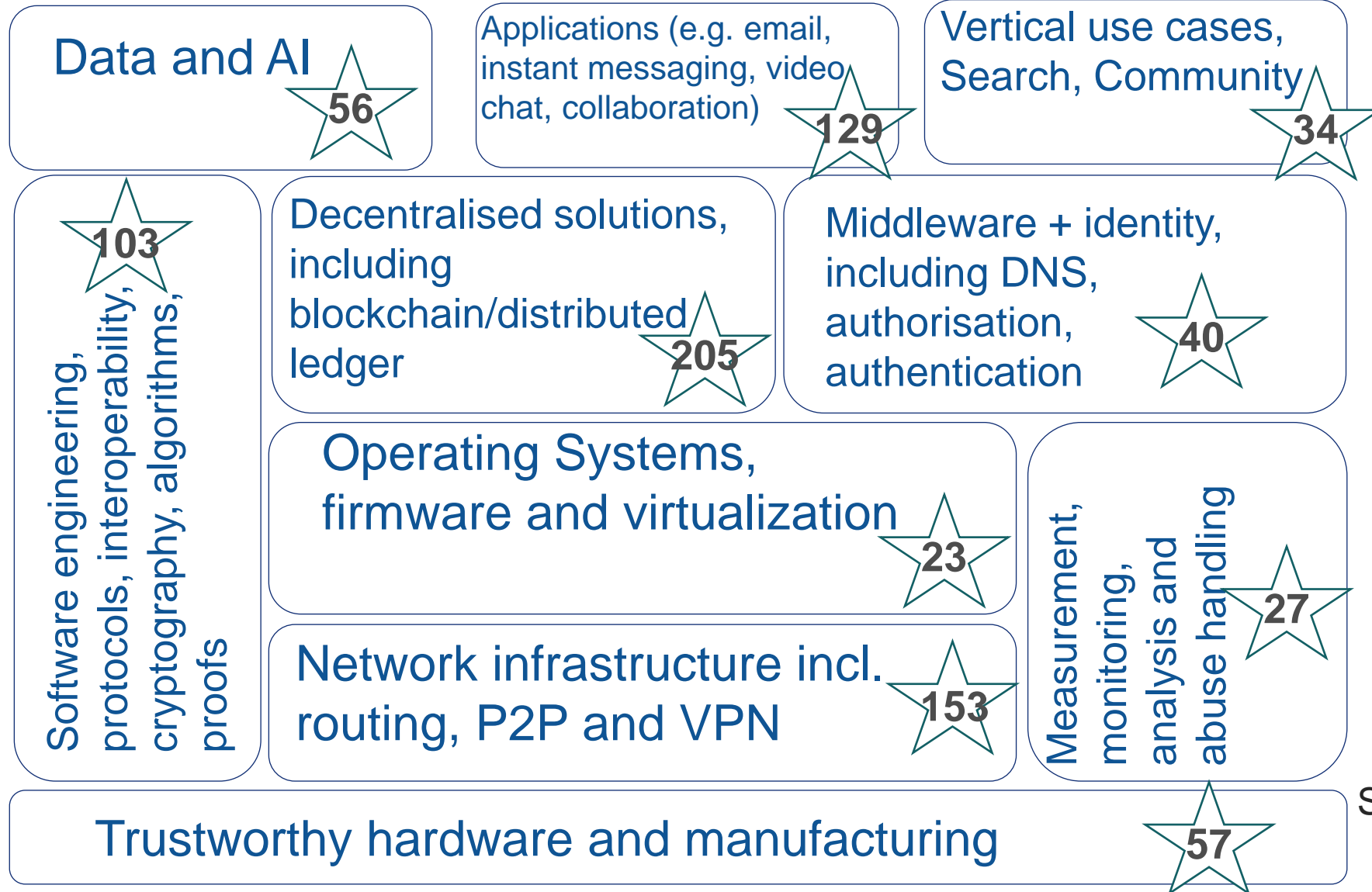
- Definition of the calls for projects
- Attracting / selecting top-teams
- Monitoring
- Mentoring, Coaching, Sharing
- Support to standardisation
- Community building

Sub-grantee:

- One legal entity or individual can have a project
- **Internet innovators: outstanding academics, hi-tech startups and SMEs, developers, ...**
- Carry out the R&I work
- 50.000 – 150.000 Euro, 9 – 12 month

Technology building blocks: internet commons

SSI
 DID
 IRMA
 IPFS
 F-droid
 Qubes OS
 Replicant OS
 Maemo Leste
 Scion
 Nixos
 PowerDNS
 OpenPGP
 Tor
 Let's connect
 Wireguard
 Nitrokey
 Libre SOC
 Balthazar
 RISC V SOC
 RISC V Phone



BigBlueButton
 Jisti
 Sylk
 Deltachat
 Matrix
 Thunderbird
 Xwiki
 Cryptpad
 Fediverse
 Mastodon
 ActivityPub
 Peertube
 Wordpress
 LibreOffice
 Nextcloud
 Solid
 OpenFoodFacts
 OpenStreetMap
 Software Heritage
 Searx

NGI: state of play

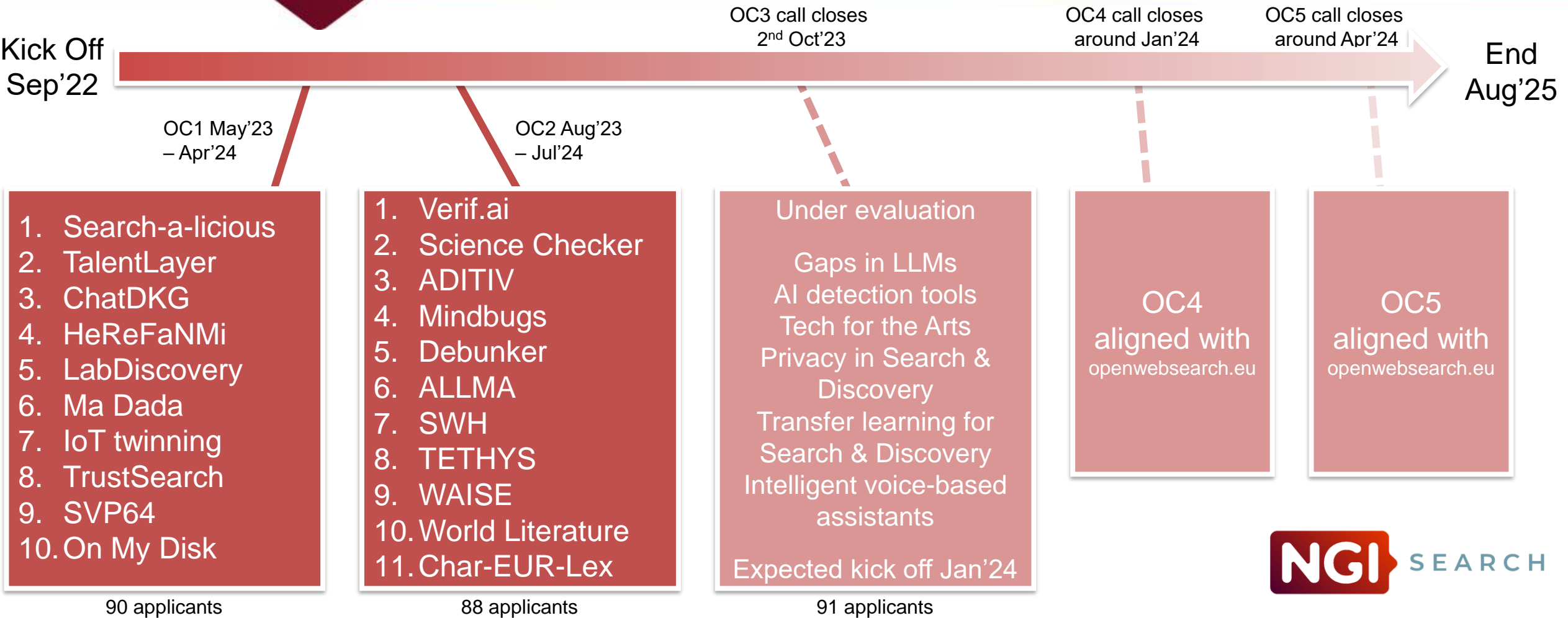
- 5 years in operation; 17 + 6 new R&I actions
- 800 projects awarded mobilising 80M€; 15% success rate in open calls
- >>1000 innovators engaged
- 83% never received EU funding
- Very selective (1/7)
- Today 100% open source

A unique eco-system of highly talented grass-root innovators driven by meaning and values and actually changing the course of the internet

“The [digital commons] would build on existing programs and initiatives that have proved efficient like the Next Generation Internet to fund commons and open-source technological components on strategic segments, both at the European and at the national level”

Declaration of the French presidency on a European initiative on digital commons

NGI Search status (Oct '23)



NGI Search OC4 and OC5

Open Call Topics

PAST

- Gaps in Large Language Models
- AI detection tools for cultural content
- Search and Discovery Technology for the Arts
- Privacy in Search & Discovery
- Transfer learning for Search & Discovery
- Intelligent voice-based assistants
- Natural language processing
- Semantic analysis
- Social Computing
- Data visualization
- Ethics in Search and Discovery
- Power cognitive search by reinforcement learning
- Machine-based data
- AI based Taxonomies
- AI-based search tools and content generators
- Network Analysis
- Enabling new ways of discovering and accessing information (generic topic)

FUTURE (OC4/5)

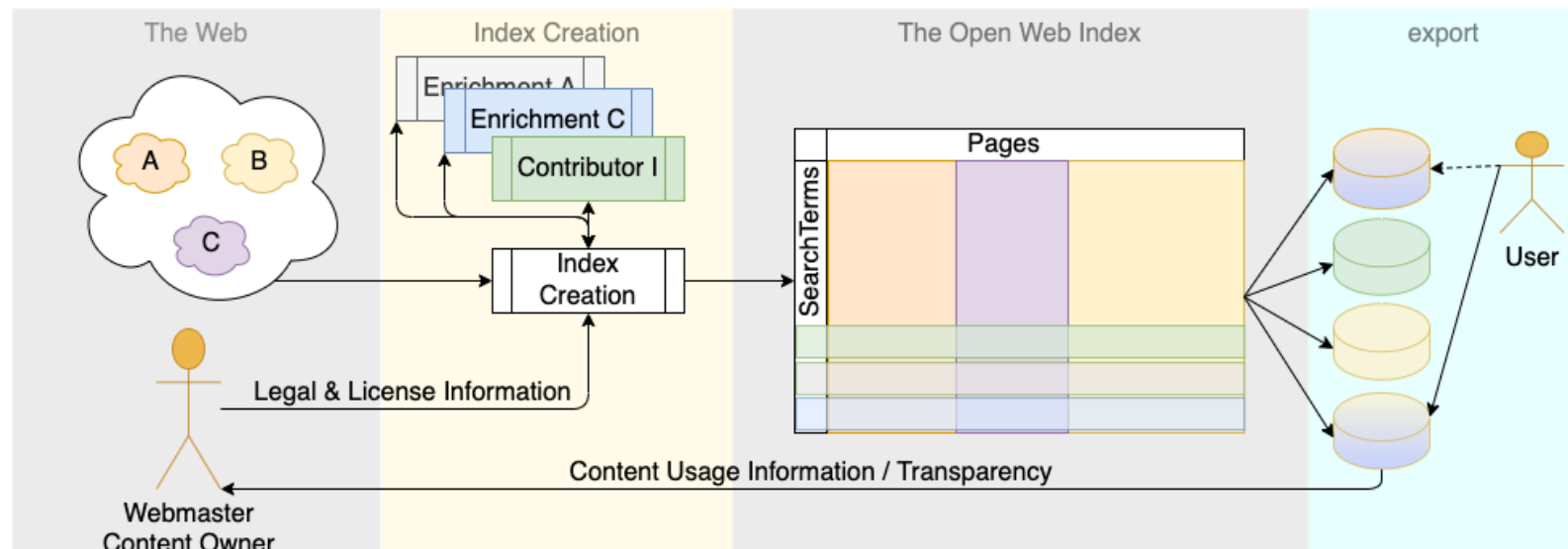
- Align with openwebsearch.eu
 - Using open web index
 - Adding tools and mechanisms
 - Legal and ethical considerations
- Additional topics gaining interest.
- Always a general topic: Enabling new ways of discovering and accessing information

Build an Open Web Index
(incl. pipelines and infrastructure)

Empower users, researchers &
innovators to build on top
of the Index

Principles for an Open Web Index

- Open Data for maximum re-use
- Open Source / Open Configuration for transparency
- Open Resources for using your own resources
- Open to contributions from third parties – empower innovators
- Collaborative management of a Web Index – connect existing infrastructure organisations
- Content control – respect legal, societal and ethical frameworks



Join us in this exciting journey

<https://www.ngi.eu/>

<https://digital-strategy.ec.europa.eu/en/policies/next-generation-internet-initiative>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal>

<https://www.ngisearch.eu/view/Main/OpenCalls>

