NGI

DISCOVER THE NEXT GENERATION INTERNET

Latest update:

23 March 2021

NGI AT A GLANCE

The Next Generation Internet (NGI) initiative aims to shape the development of the Internet of tomorrow into an Internet of Humans that responds to people's fundamental needs, including trust, security and inclusion, and reflects the European values and norms.

Restoring **trust**

CHALLENGES

- ⤑ Protect personal data
- ⤑ Ensure privacy and security
- ⤑ Combat disinformation online
- ⤑ Guarantee access and freedom of choice
- ⤑ Respect fundamental rights
- ⤑ Enforce ethics and sustainability by design

€250m between 2018 and 2020

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SUPPORTING INTERNET INNOVATION & COORDINATION

To attract top talents, €75m of grants are directly supporting innovators including individual researchers, developers, start-ups and social innovators.
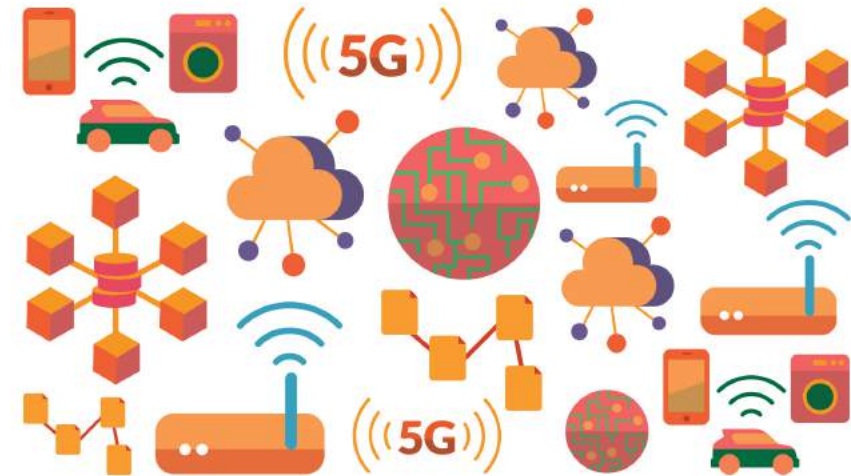
○ **Research and Innovation Actions** are acting as intermediaries: 20% of their budget to select, monitor, mentor, train and build the community; 80% to fund individual projects among 3rd party researchers, developers, hi-tech start-ups/SMEs

○ The NGI builds also on **Coordination and Support Actions** to ensure synergies across all stakeholders, with a focus on:

⇢ Outreach, community building, business acceleration

⇢ Policy and strategic programming

⇢ EU-US collaboration

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FED4FIRE+

Federated Testbeds for NGI Innovators

- Overall budget:

  ⇢ **€11.6m**

- Fed4FIRE+ runs a federation of experimentation facilities throughout Europe for Internet research and experimentation which are free to use by applicants.

- Testbeds cover various technology domains, including cloud computing, wireless and wired networking, sensor networks, and software defined networking.

- Fed4FIRE+ testbeds can be fully operated remotely, where the only technical requirement for experimenters is to have standard Internet connectivity.

- **117 open call winners**

fed4fire.eu/opencalls

LEDGER

Better data governance

- Total budget for projects 2018-2021:

  ⤏ **€5.6m**

- Projects leverage decentralised algorithms based on blockchains, DLT and/or P2P technologies to address privacy by-design, reliability, trustworthiness and openness.

- 9-month customized venture builder. Projects receive up to €150,000

- The most successful projects go on to phase 2 with an additional €50,000
  + access to a 3-month business-focused programme.

- A Demo Day is held at the end of the programme, with LEDGER helping its projects find corporate partners for market testing.

- 3/3 open calls completed

- **25 projects awarded**

ledgerproject.eu

NGI TRUST

Privacy

- Total budget for projects 2018-2021: **€5.6m**

- Projects focus on better management of consent; privacy enhancing protocols and technologies, (cryptography, federated identity, IoT, data transports) and the application of AI/machine learning/neural networks to serve Internet users.

- Projects:

  - ⤏ <€100k, technical feasibility and/or commercial potential;

  - ⤏ <€180,000 + matching funds <€90k (2/3, 1/3), R&D;

  - ⤏ <€200k + matching funds (50/50), transition to commercialization

- 3/3 open calls completed

- **57 projects awarded**

wiki.geant.org/display/NGITrust

NGI ZERO DISCOVERY

Technologies improving search and discovery

- Total budget for projects 2018-2021:

  ⇢ **€5.6m**

- Projects focus on new ideas and core open source technologies improving search and discovery.

- Project are awarded between €5,000 and €50,000 – with the option to scale up if there is proven potential.

- 11 open calls completed, 1 continuously opened call

- **81 projects awarded**

<nlnet.nl/discovery>

NGI ZERO PET

Open source privacy and trust enhancing technologies

○ Total budget for projects 2018-2021:

⇢ **€5.6m**

○ Projects focus on open source privacy and trust-enhancing technologies

○ Project are awarded between €5,000 and €50,000 – with the option to scale up if there is proven potential.

○ Accessibility and security audits

○ 11 open calls completed, , 1 continuously opened call

○ **126 projects awarded**

nlnet.nl/PET

NGI DAPSI

Data portability and services

- Total budget for projects 2019-2022:

  ⇢ **€5.6m**

- Projects focus on new technologies and solutions addressing the challenge of personal data portability on the internet.

- 9-month incubation programme, divided in two phases, where experts in diverse fields will provide a successful working methodology, access to top infrastructure, training in business and data related topics, coaching, mentoring, visibility and a vibrant ecosystem.

- Up to **50 third parties** will be supported

- 1/3 open calls completed

- **11 projects awarded**

dapsi.ngi.eu

NGI ESSIF LAB

Self Sovereign Identity (SSI)

- Total budget for projects 2019-2022:

  → **€5.6m**

- Business-oriented projects to support SSI solutions such as apps (e.g. for digital wallets) or protocols (e.g. verifying credentials). Applications may comprise HealthTech, e-Government, Education or fit in the generic track of Open Disruptive Innovation.

- Infrastructure-oriented projects for novel scalable and interoperable applications/components on eSSIF-Lab infrastructure.

- 1 call closed, 1 planned, 1 continuously opened call
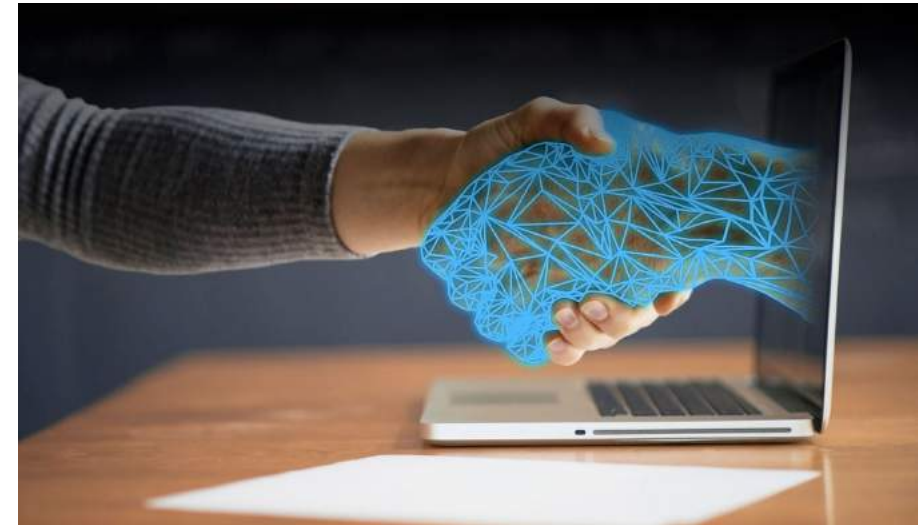
- **26 projects awarded**

essif-lab.eu

NGI POINTER

Architects to change the fabric of the Internet and Web

- Total budget for projects 2020-2022:

  ⇢ **€5.6m**

- To fund 3rd party projects to build on research with scalable protocols and tools to assist in the practical transition or migration to new or updated technologies, keeping European values at the core.

- 1/2 open calls completed

- **24 projects awarded**

pointer.ngi.eu

NGI EXPLORERS

Technology mission to the US

- Total budget for projects 2019-2021:

  ⇢ **€950,000**

- NGI Explorers is sponsoring European top Researchers and Innovators to join a unique technology mission to the United States.

- A three-month immersive experience to work with a US partner, with travel and subsistence costs 100% covered, complemented by a free mentorship plan.

- 2 open calls completed
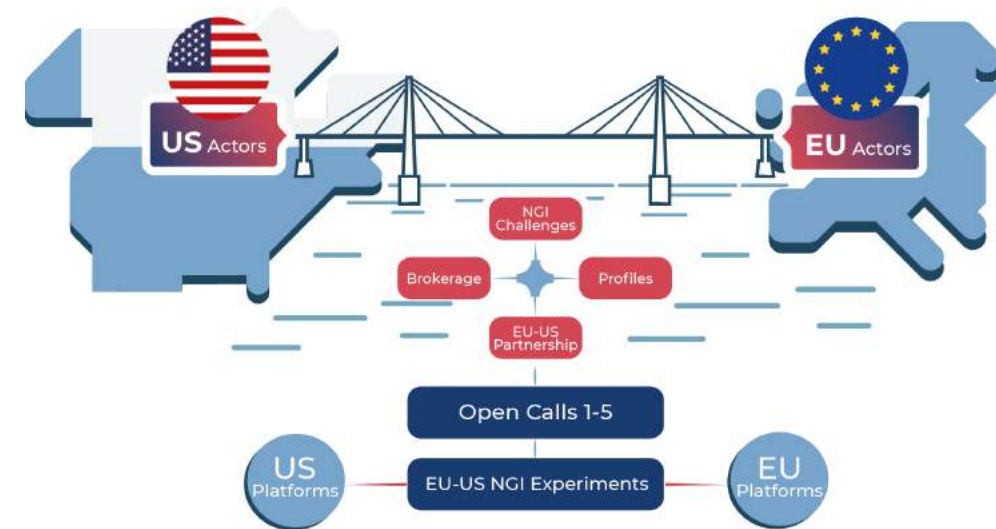
- **32 individuals** supported

explorers.ngi.eu

NGI ATLANTIC.EU

NGI experiments together with US research teams

- 5 Open Calls for Proposals, total budget **€2.8m**

- Projects funding range from **€50,000 to €150,000,** up to 3 or 6 months

- **The Twinning Lab**, a webspace for researchers, innovators and start-ups to partner with transatlantic peers

- An **External Pool of Evaluator**s (EPE) of 50+ members to support the review process - **continuous open call**

- 2/5 open calls completed
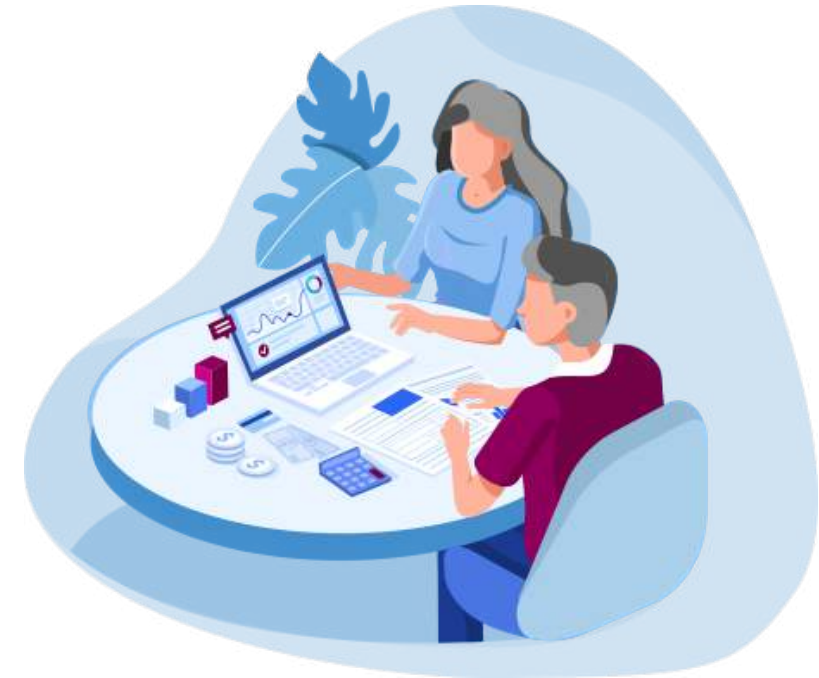
- **6 projects awarded**

ngiatlantic.eu

NGI ASSURE

Reinforcing the European Blockchain ecosystem

- NGI Assure starts from January 2021

- Projects support Libre Software, Open Hardware, Cryptography, Standardisation and Logic Proofs

- **6 open calls planned**

assure.ngi.eu

ONTOCHAIN

A new software ecosystem for trusted, traceable and transparent ontological knowledge management

- Blockchain-based knowledge management solutions with new apps in areas such as trustworthy web and social media, crowdsensing, service orchestration,

- **3 open calls planned**

ontochain.ngi.eu

NGI TRUBLO

Blockchain and decentralized ledger technologies

- Trust and reputation models on Blockchains
- Proof-of-presence and proof-of-location
- **3 open calls planned**
- 1st open call ended in March 2021
- More info coming soon!

trublo.eu

NGI THINK NEXUS

US-EU Think Tank

○ Total budget for projects 2019-2021:

⇢ **€996,000**

○ NGI Think NEXUS aims to reinforce EU-US collaboration, through its dedicated Think Tank, involving major stakeholders from both sides of the Atlantic on Next Generation Internet related thematic.

○ Three focus areas: Science and Technology, Innovation and Entrepreneurship, Policy.

thinknexus.ngi.eu

NGI FORWARD

NGI Forward Policy-in-Practice Fund

- Total budget for projects 2020:

  ⇢ **€100,000**

- NGI Policy-in-Practice Fund offers grants of up to €25,000 to ideas for an experimental policy intervention or practical tool that could help empower governments to build a better Internet. The fund will support projects to trial bold new solutions at a local level.

- Recipients of the grants can also benefit from guidance on effective project design, pathways to impact and communication of final results, as well as the sharing or scaling of insights among the wider NGI community.

research.ngi.eu/policy-practice-fund

COORDINATION AND SUPPORT ACTIONS

The NGI initiative is supported by five ongoing Coordination and Support Actions:

- **NGI4ALL**, coordinates the NGI Outreach Office (NGIO).

- **Think Nexus**, aims to reinforce EU-US collaboration, through its dedicated Think Tank.

- **NGI Explorers**, conducts missions to the USA for Top European Researchers & Innovators.

- **NGI Forward** sets out a strategy as well as a policy and research agenda.
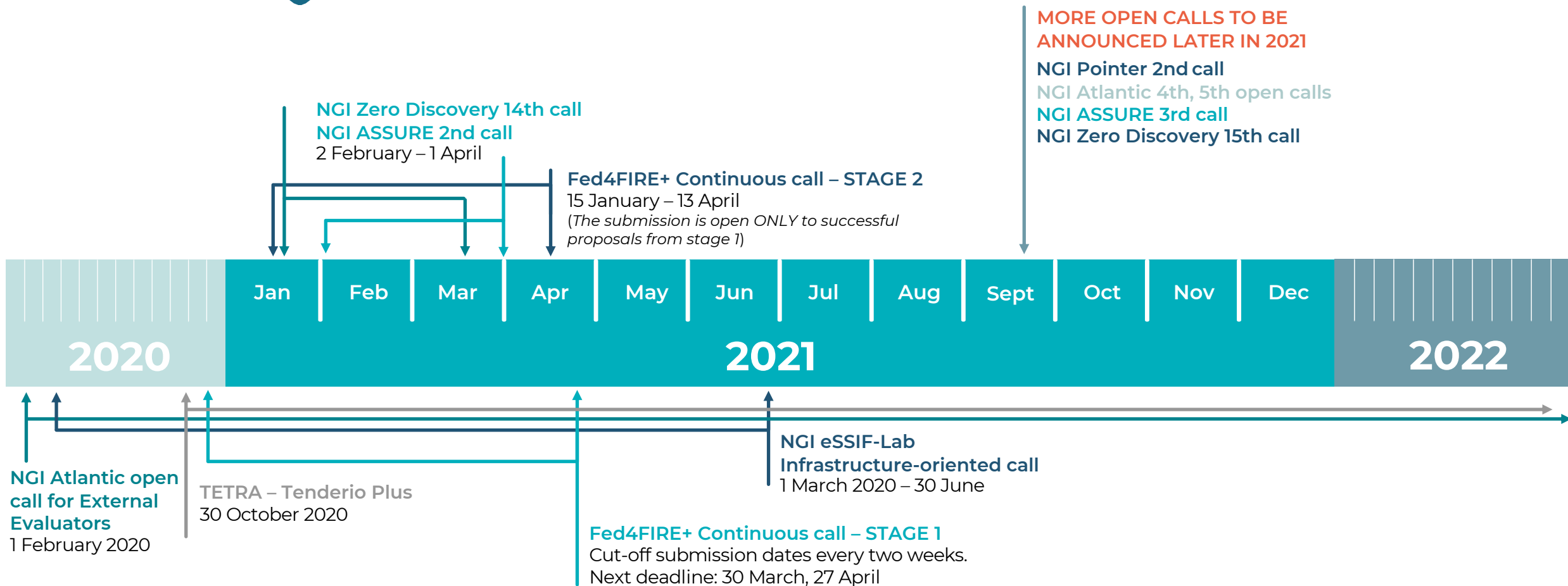
- **Tetra** is the business accelerator for NGI.

JOIN US AND GET FUNDED!

NGI.EU/OPENCALLS

TIMELINE OF NGI OPEN CALLS 2021

MORE OPEN CALLS TO BE ANNOUNCED LATER IN 2021
NGI Pointer 2nd call
NGI Atlantic 4th, 5th open calls
NGI ASSURE 3rd call
NGI Zero Discovery 15th call

NGI Zero Discovery 14th call
NGI ASSURE 2nd call
2 February – 1 April

Fed4FIRE+ Continuous call – STAGE 2
15 January – 13 April
(The submission is open ONLY to successful proposals from stage 1)

2020	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	2022
							2021						

NGI eSSIF-Lab Infrastructure-oriented call
1 March 2020 – 30 June

NGI Atlantic open call for External Evaluators
1 February 2020

TETRA – Tenderio Plus
30 October 2020

Fed4FIRE+ Continuous call – STAGE 1
Cut-off submission dates every two weeks.
Next deadline: 30 March, 27 April

VISIT WWW.NGI.EU AND JOIN US

REGISTER TO THE **NGI MAP**
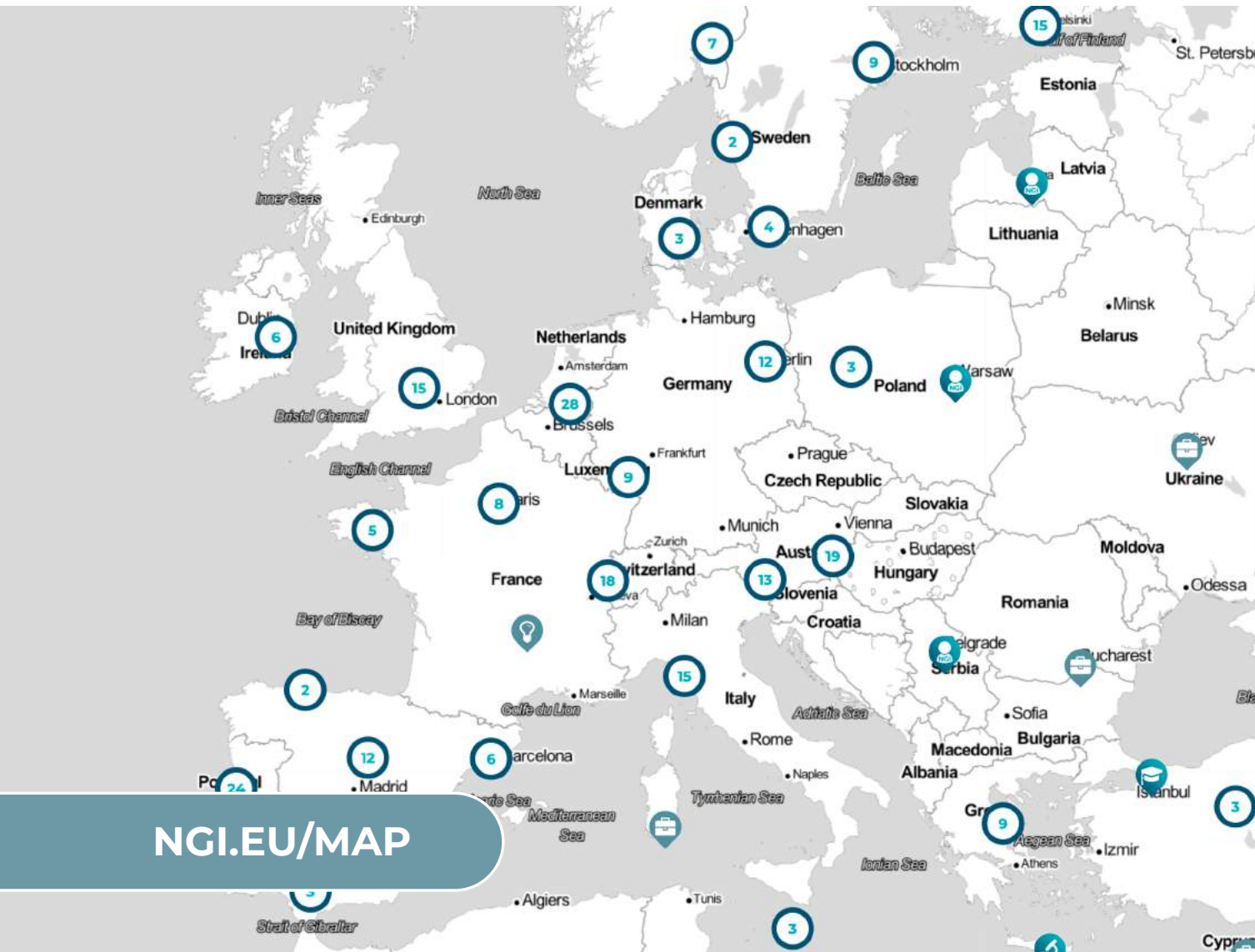
JOIN THE **NGI COMMUNITY PLATFORM**

JOIN THE **NGI EXCHANGE PLATFORM**

SUBSCRIBE TO THE **NGI NEWSLETTER**

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NGI MAP

REGISTER YOUR EVENT, INITIATIVE, OR ORGANISATION

NGI.EU/MAP

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