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NGI-POINTER welcomes 24 Next Generation Internet Architects that will revolutionise internet architecture



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PRESS RELEASE

NGI-POINTER, an H2020 project that contributes to the human-centric revolution of the internet architecture kicks off its first support programme for 24 Next Generation Internet (NGI) Architects that will bring new protocols, open software, and hardware.

The spread of digital services requires a more efficient, flexible and safe internet, which means there is a need for a new internet architecture. **NGI-POINTER will provide the building blocks for a technical revolution of the internet architecture towards a more efficient, scalable, secure, and resilient internet.**

As NGI-POINTER is a Research and Innovation Action structured under the **NGI initiative**, which aims to shape the development and evolution of the internet into an Internet of Humans, it adheres to the values that Europe holds dear to accomplish this purpose: openness, inclusivity, transparency, privacy, cooperation, and protection of data. **Therefore, NGI-POINTER also embraces the human-centric technical revolution of internet architecture.**

NGI-POINTER supports NGI architects who bear new protocols, open software and hardware intended for internet management in a wide range of cases or challenges related to the internet architecture renovation, such as:

- Privacy-by-design

- Internet of Things
- Network optimization
- Virtualization and isolation
- Limitations in the TCP/IP protocol suite
- eCommerce security
- Autonomous Network operations and control
- Energy Efficiency

Between 2020 and 2022, the NGI-POINTER has the mandate to support “internet talents” that will provide new marketable solutions for specific areas related to the internet architecture renovation.

“**Internet talents**” are researchers from well-known research groups as well as organisations and individuals with outstanding links and track records to internet governance bodies and open source communities that own the renovation problems the internet has today. This is what NG-POINTER calls **NGI architects** once they are accepted into our support programmes.

After its first Open Call, which closed on 1 June 2020, NGI-Pointer received 159 applications of “**internet talents**” interested in joining a community of **NGI Architects**. This considerable figure reflects the fact that nowadays more and more professionals care about improving the internet, explains Mirko Presser, NGI-POINTER Manager and Professor at Aarhus University, in Denmark.

After the evaluation of applications, 24 of those 159 “internet talents” have been invited to join NGI-Pointer as NGI Architects. They kick-off today with the launch of the 12-month NGI Pointer support programme with business and technical mentors. Each project proposed by our **NGI Architects** will receive up to € 200.000 in equity-free funding.

The projects submitted by our **NGI Architects** in alphabetic order are the following:

- **CBSDng** - Free BSD jail/vm orchestration made easy.
- **DATAHOP** - Incentivised content dissemination at the network edge.
- **DREAM** - Distributed Replicable Extensible Agency Machine.
- **EDGEsec** - New architecture for local (edge based) routers.
- **Firmware-lib** - European Firmware and app library.
- **Id-xover** - Internet-wide identity through realm crossover.
- **IGNNITION** - Fast prototyping of complex Graph Neural Networks for network optimisation.
- **KORUZA** - Wireless optical communication system for urban environments.

- **Linux-Regtracking** - Linux kernel regression tracking.
- **MirageOS** - Deploying MirageOS unikernels.
- **MPTCP5G** - Multipath TCP for 5G networks.
- **MPTCP** - Multipath TCP.
- **Lightmeter** - Email infrastructure reinvented
- **Ltt.rs** - Open source email client (JMAP).
- **Next** - Fully extensible power-browser.
- **Peergos** - Decentralised, end-to-end encrypted, and trustless protocol.
- **Reowolf** - From low-level internet sockets to high-level programmable connectors.
- **RIM** - Receiver-driven Incoming-traffic Management.
- **SCE** - Some Congestion Experienced.
- **Scuttlebutt** - The Gossip protocol.
- **Solid-Shape** - Reshaping linked data on the fly.
- **TA4NGI** - Trust and Authentication for Next Generation Internet.
- **VerifiedSCION** - Verified secure routing with SCION.
- **WireGuard** - Secure VPN tunnel for all major operating systems that use modern cryptography and cutting edge security design.

The adventure of revolutionising the internet architecture has just started. Stay tuned to NGI-POINTER in order to follow the future successes of our **NGI Architects**.

About NGI Pointer

NGI-POINTER contributes to the human-centric revolution of internet architecture by discovering NGI Architects who bring new protocols, open software, and hardware that are used to manage the internet.

NGI-POINTER will leverage Big Data Analytics technology provided by Linknovate to profile and scout 1.000+ outstanding researchers worldwide. FundingBox - European leader in Financial Support to Third Parties - will manage the open call mechanism on its 30.200 members strong platform. Aarhus University - a Top-100 University in the world - brings expertise in business mentoring and connections with more than 5.000 internet researchers. Digital Workx provides the technical expertise for software and hardware standardization and ties with more than 65.000 engineers and Open Software developers around the world that are part of the Internet of Things Network.

About NGI

The Next Generation Internet (NGI) initiative, launched by the European Commission in autumn of 2016, aims to shape the future internet as an interoperable platform ecosystem that embodies the values that Europe holds dear: openness, inclusivity, transparency, privacy, cooperation, and protection of data. The NGI will drive this technological revolution and ensure the progressive adoption of advanced concepts and methodologies spanning the domains of artificial intelligence, Internet of Things, interactive technologies, and more while contributing to making the future internet more human-centric. Visit the NGI website (www.ngi.eu/) to know more about this initiative.

For more information, please visit:

[Website](#)

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