

**19 May 2021**

**Press Release**

**PLEDGER: “Paving the way for next-generation edge computing”**

Connectedness has grown up in the last year with the increased usage of smart devices now integrated in citizens daily life. This IoT digital mesh has split traditional edge approaches into three different concepts: near, far and data center edges. The situation is highlighting, even more, the need of improved control and data planes to manage several different resources offloading in multiple ways, and not only on an edge-to-cloud bidirectional approach. In this context, the workshop aims to bring together multidisciplinary researchers dealing with current challenges such as network connectivity or intelligent resource management, among others, to present how they are dealing with them.

Furthermore, with the exponential proliferation of service-based infrastructures, it becomes clearer that the complex and decentralised nature of the Edge-Cloud continuum introduces multiple technical challenges. Many services have critical QoS/QoE requirements and perform intensive operations from a computational, memory, network, or data transfer perspective. Hence, it is crucial to ensure that the infrastructure couples the benefits of low latencies on the edge, with the robustness and resilience of cloud infrastructures. PLEDGER is an innovative project that combines the benefits of edge and cloud computing paradigms, delivering a toolset that will pave the way for next generation edge computing.

During this last project year, the work has been focused on developing a set of tools, integrated into a modular reference architecture, that can cover specific business needs for those companies embedded in a digital transformation process.

Ranging from technical innovation to business growth, PLEDGER provides:

- Means for communication cloud, edge and IoT layers covering all potential needs of application providers.
- Reduction of bandwidth and amount of data sent over the network extending computation closer to things.
- Security and privacy mechanisms all over the value chain.
- Integration with most well-known technologies to ensure the maximum uptake.
- More affordable domain agnostic tools for both, cloud/edge providers and application providers.

PLEDGER’s modular solution allows its integration with other already existing solutions and its deployment in a wide variety of use cases, independently of the vertical domain they applied.

Tools are available under different open source licensing schemes at <https://gitlab.com/pledger/public>.

Stay tuned for updates!



**PLEDGER** is an EU-funded project under the H2020 programme. Led by ATOS (Spain), the consortium consists of nine European industrial and academic partners from seven different countries, including large companies (ENG, INTRA, FILL), SMEs, (HOLO, INNOV), research centres (ICCS, i2CAT) and local public administration (IMI).

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More information on the PLEDGER project can be found at [www.pledger-project.eu](http://www.pledger-project.eu).

More information on the PLEDGER consortium partners can be found at <http://www.pledger-project.eu/consortium>

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