inter**iot**

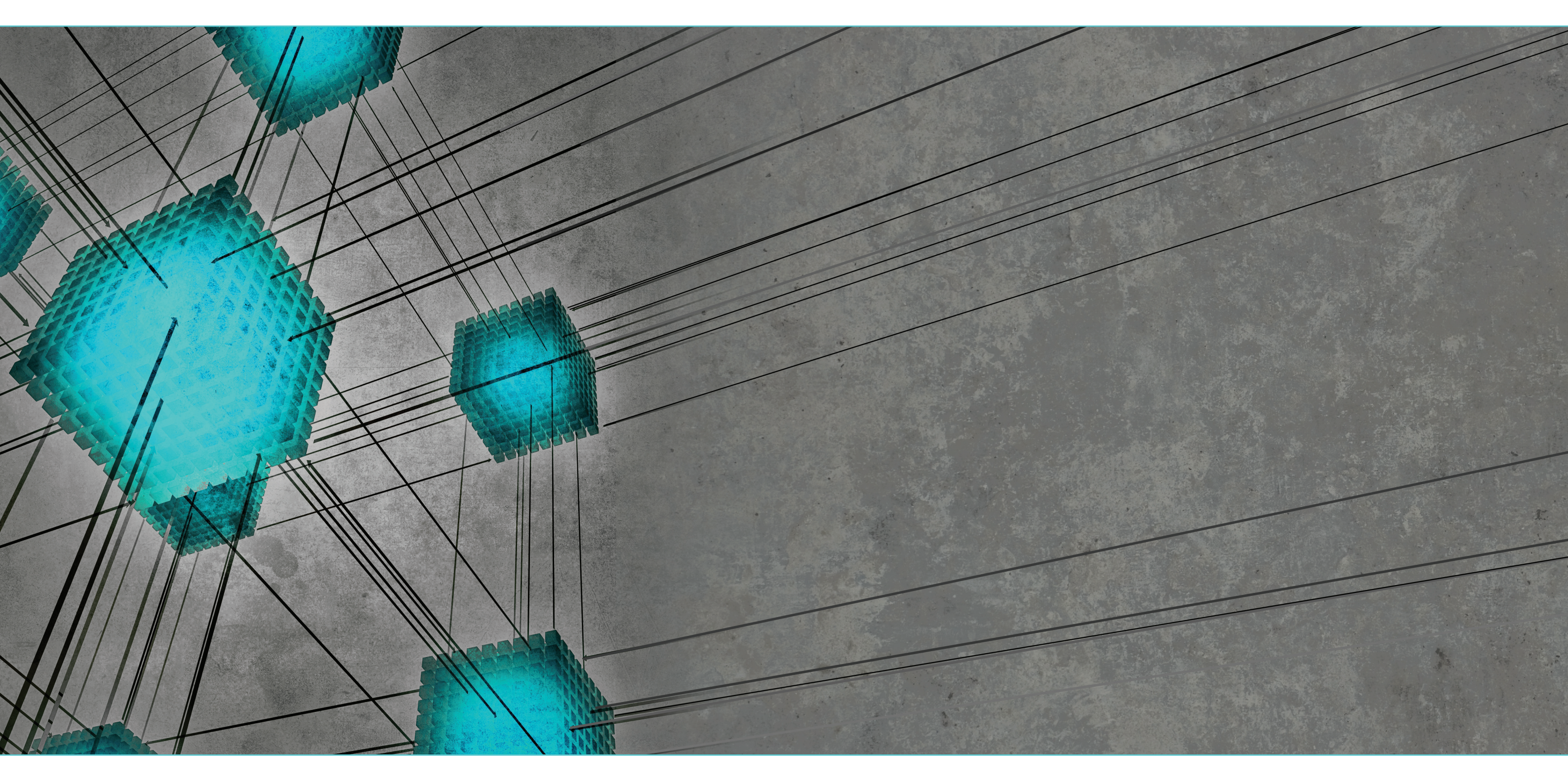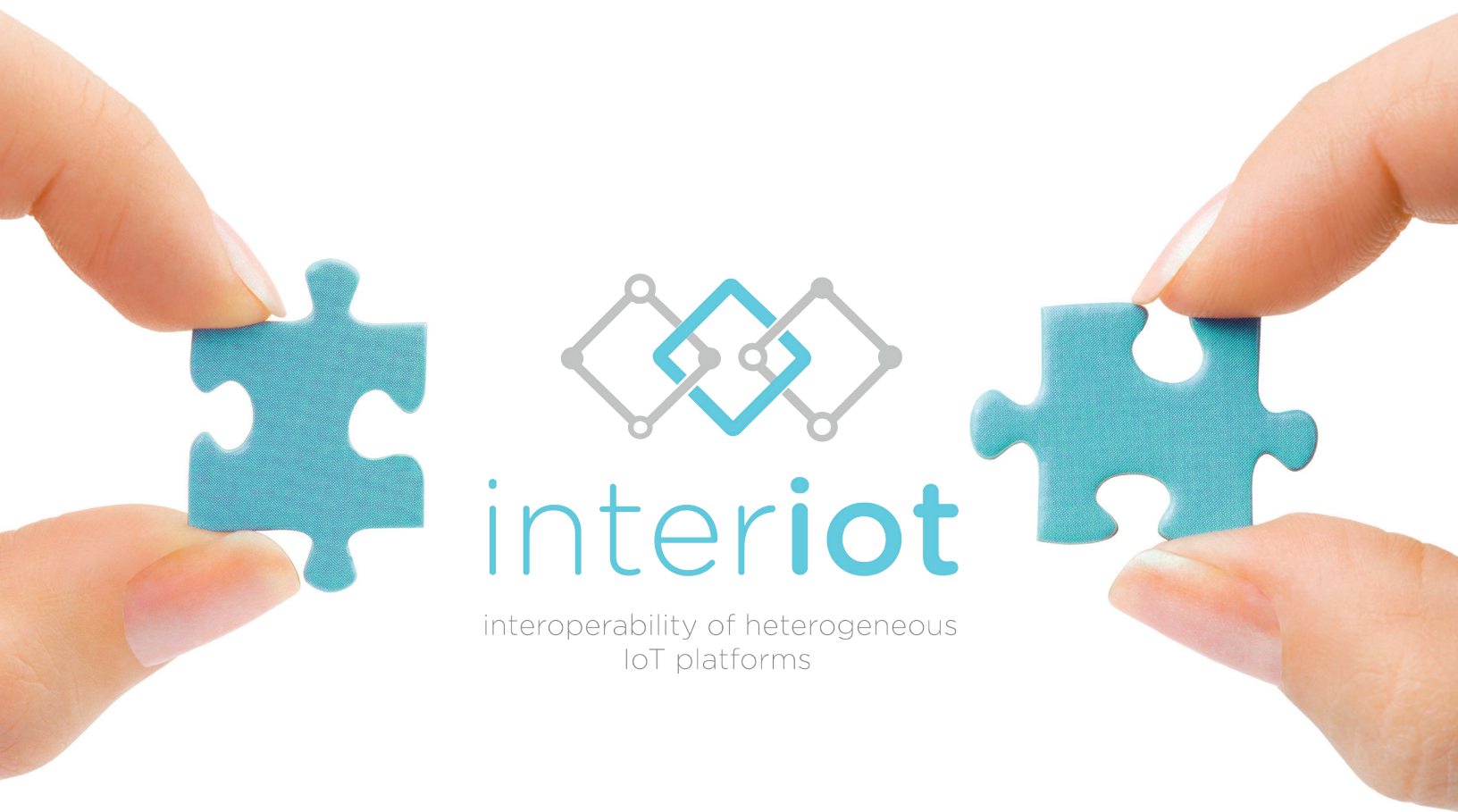INTEROPERABILITY OF HETEREOGENEUS IOT PLATFORMS

interiot

interoperability of heterogeneous
IoT platforms

BENEFITS FOR COMPANIES AND PROJECTS

Most current existing IoT developments are based on ''closed-loop'' concepts, focusing on a specific purpose and being isolated from the rest of the world. Integration between heterogeneous elements is usually done at device or network level, and is just limited to data gathering. Our belief is that a multi-layered approach integrating different IoT devices, networks, platforms, services and applications will allow a global continuum of data, infrastructures and services that can will enable different IoT scenarios. As well, reuse and integration of existing and future IoT systems will be facilitated, creating a de-facto global ecosystem of interoperable IoT platforms.

In the absence of global IoT standards, the INTER-IoT results will allow any company to design and develop new IoT devices or services, leveraging on the existing ecosystem, and bring get them to market quickly.

Third parties can benefit from the components that will be developed within the project, namely Methodologies, tools, protocols and API. Every result of the project will be released as open item available to develop new applications and services, and they could be used to build and integrate services and platforms at different layers according to the needs of the stakeholders and developers.

INTER-IOT OBJECTIVES

1. Open Cross Layer Framework
2. IoT Platform Layers Interoperability Tools
3. CASE-driven Methodology
4. Logistics Platform Implementation
5. E-Health Platform Implementation
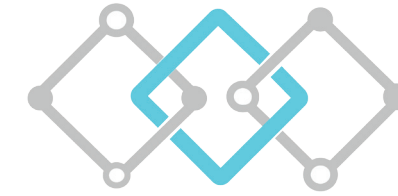6. Cross-domain use case

PROJECT APPROACH

INTER-IoT aim is to design, implement and test a framework that will allow interoperability among different Internet of Things (IoT) platforms.
Our approach is general-purpose and may be applied to any application domain and across domains, in which there is a need to interconnect IoT systems already deployed or add new ones.
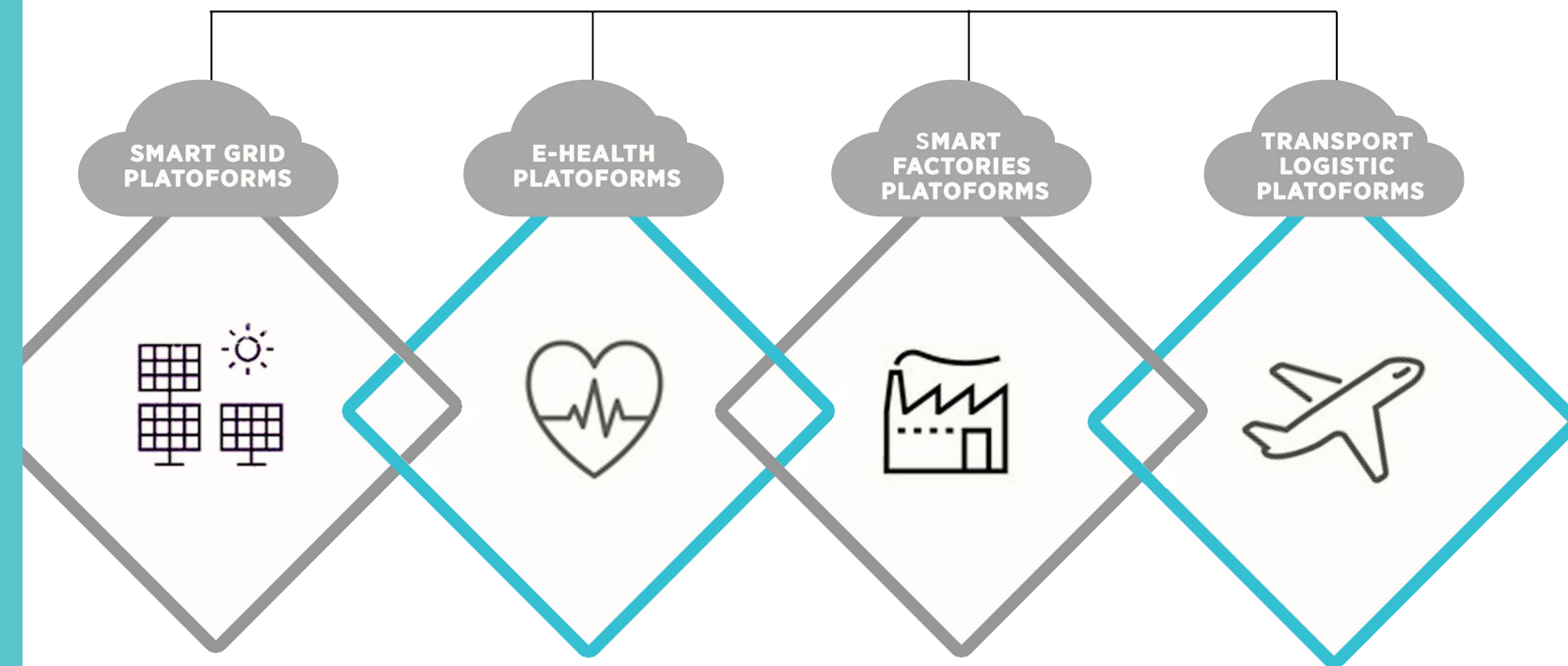INTER-IoT will be based on three main building blocks:

1. Methods and tools for providing interoperability among and across each layers of IoT platforms (IN
2. Global framework (INTER-FW) for programming and managing interoperable IoT platforms; and
3. Engineering Methodology (INTER-METH) based on CASE tool for IoT platforms integration/interconnection.build and integrate services and platforms at different layers according to the needs of the stakeholders and developers.

WHO IS DOING IT?

INTEROPERABILITY OF HETEREOGENEUS
IOT PLATFORMS.

SMART GRID PLATOFORMS

E-HEALTH PLATOFORMS

SMART FACTORIES PLATOFORMS

TRANSPORT LOGISTIC PLATOFORMS