INTEROPERABILITY OF HETEROGENEOUS IOT PLATFORMS
INTER-IoT aim is to design, implement and test a framework that will allow interoperability among different Internet of Things (IoT) platforms.

The INTER-IoT project will make different IoT platforms talk. It will develop three main results: an open framework spanning different layers, an associated methodology and last but not least tools to enable interoperability between different IoT developments.

Open interoperability delivers on the promise of enabling vendors and developers to interact and interoperate, without interfering with anyone's ability to compete by delivering a superior product and experience. In the absence of global IoT standards, the INTER-IoT project will support and make it easy for any company to design IoT devices, smart objects, or services and get them to market quickly, and create new IoT interoperable ecosystems.

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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 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
INTEROPERABILITY OF HETEROGENEOUS IOT PLATFORMS.

INTER-IoT aims 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 layer 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?

[Image showing logos of participating organizations]