



The European Open Ecosystem for Future Internet Experimentation & Innovation

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Federated Interoperable Semantic IoT/cloud Testbeds and Applications

FIESTA-IoT enables Experimentation-as-a-Service (EaaS) in order that IoT testbed/platform operators can bring together their facilities in an interoperable way and focuses on integrating IoT data testbeds/platforms and their provided IoT data in the form of a marketplace. FIESTA-IoT copes with the need to aggregate and ensure the interoperability of data streams stemming from different IoT testbeds or platforms, as well as the need to provide tools, techniques, processes and best practices for building applications that integrate silo platforms and applications.

How does it work?

FIESTA-IoT works by enabling an online infrastructure facilitating researchers and solution providers to access, search and discover IoT data for designing and deploying large scale integrated applications (experiments) that transcend the (silo) boundaries of individual IoT testbeds or platforms. FIESTA-IoT aims to enable researchers and experimenters to share and reuse data from diverse IoT testbeds, opening up new opportunities in the development and deployment of experiments that exploit data from multiple testbeds.

agnostic way. FIESTA-IoT will provide researchers with tools for accessing IoT data resources (linked data) independently of their source IoT testbed/platform. (2) Execution of experiments across multiple IoT testbeds, based on a single API for submitting the experiment and a single set of credentials for the researcher. (3) Portability of IoT experiments across different testbeds, through the provision of interoperable standards-based IoT/cloud interfaces over diverse IoT experimental facilities.

Key achievements

The main goal of the FIESTA-IoT project is to open new horizons in the development and deployment of IoT applications and experiments at the EU (and global) scale, based on the interconnection and interoperability of diverse IoT testbeds and platforms. Overall, FIESTA-IoT's experimental infrastructure will provide European IoT experimenters with the following unique capabilities: (1) Access to and sharing of IoT datasets in a testbed-

How to get involved?

FIESTA-IoT project will issue, manage and exploit a range of Open Calls towards involving third-parties in the project. The objective of the involvement of third-parties will be two-fold: (1) To expand the FIESTA-IoT experimental infrastructure on the basis of additional testbeds/data sets. (2) To ensure the design and integration (within FIESTA-IoT) of more innovative experiments, through the involvement of additional partners in the project (including SMEs).

Project Facts

CALL: Collaborative Projects Call 1 - ICT11 | **EXECUTION:** From February 2015 to January 2018

COORDINATOR: Dr. Martin Serrano (National University of Ireland Galway, Insight)

PARTNERS: National University of Ireland Galway – NUIG-Insight (Ireland), University of Southampton IT Innovation (UK), INRIA (France), University of Surrey (UK), UNPARALLEL (Portugal), Easy Global Market (France), NEC Europe (UK), University of Cantabria (Spain), Com4innov (France), Athens Information Technology (Greece), SODERCAN (Spain), Ayuntamiento de Santander (Spain), Fraunhofer – FOKUS (Germany), Korea Electronics Technology Institute KETI (Korea)