



PCN - Horizon2020

# HORIZON 2020

LE PROGRAMME DE RECHERCHE ET  
D'INNOVATION DE L'UNION EUROPÉENNE

## Appels à projet 2017 : TIC pour l'Industrie du futur

*FoF-12; ICT-04 ; ICT 25, 27 et 28*

**Paris 7 juillet 2016**  
**Session d'émergence**

# Expertise/compétences : Simple Engineering

**Organisation : Simple Engineering  
France**

**Statut : SME/Startup**

<http://blog.simplytestify.com>

## **simplyTestify**

- **SaaS & PaaS on cloud** - on demand service
- **Extreme automation** of unit and end-to-end testing of services and things architectures
- **Functional, security, robustness, performance test**
- Foreground of the **EU FP7 MIDAS project #318786** and other french national projects
- **simplyTestify going to the market**
- Looking for **early adopters free of charge**
- Research: testing **very large scale** architectures of services and things

## **Compétences / Expertise**

- Service orientated computing and architectures
- Software engineering - model-based test automation
- Artificial intelligence - probabilistic inference
- Formal methods - model checking - temporal logic
- SaaS technical & business model for advanced technical facilities
- Cloud architecture - elasticity, dependability, security, performance

## **Contacts :**

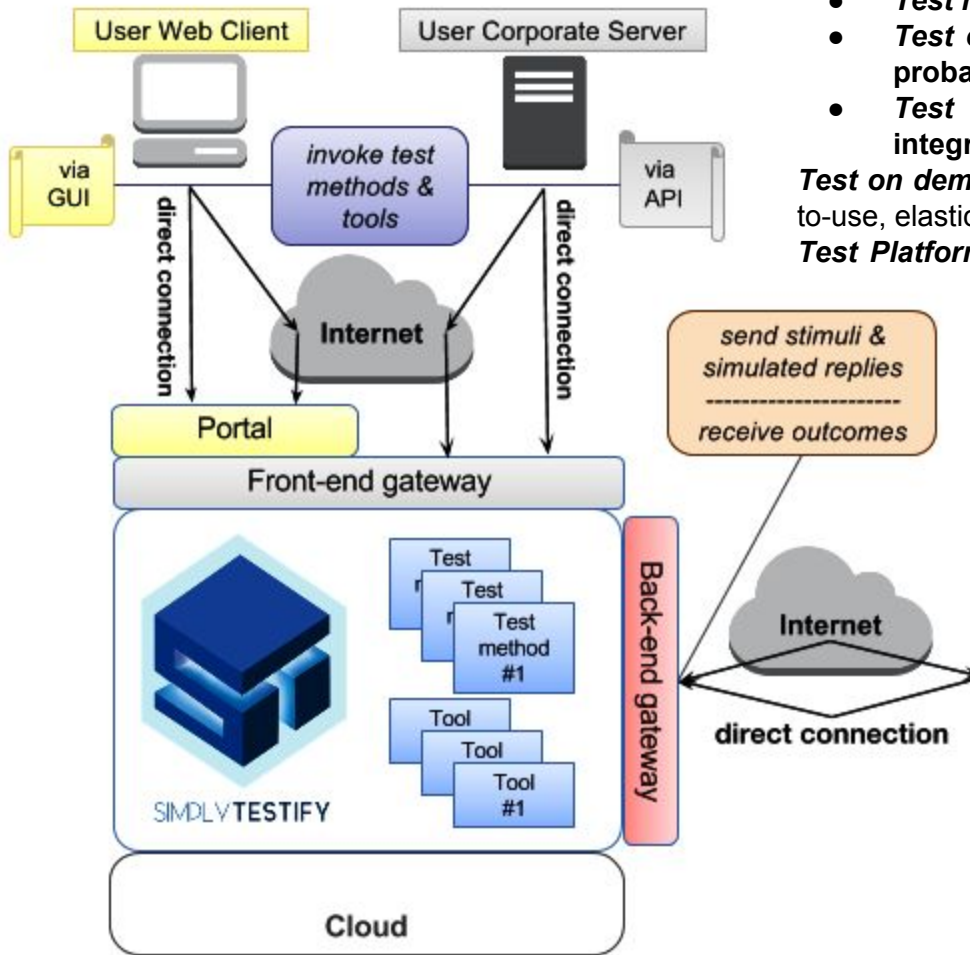
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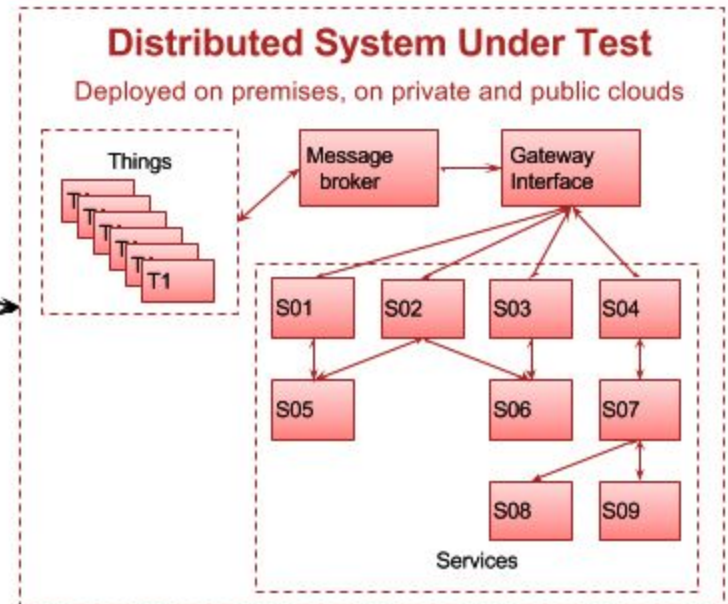
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# simplyTestify at a glance



## Test extreme automation

- **Test mechanisation** - all the test tasks
  - **Test optimisation** - boost **test efficacy and efficiency** with **probabilistic reasoning, model checking and temporal logic**
  - **Test routinisation** - complete **API for automated test integration in continuous DevOps** for Agile, TDD and BDD
- Test on demand** - self-provisioning, pay-per-use, cost-effective, easy-to-use, elastic, dependable, secure and performant **SaaS**
- Test Platform as a Service** - custom built test method and tools



# Idée de projet : Innovation for Manufacturing Platform



**Appel(s) à projet identifié(s) :**

**[FOF-12-2017 - ICT Innovation for Manufacturing SMEs \(I4MS\) - IA](#)**

**Contacts :**

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**Objectifs techniques :**

Competence center and open platform of development/testing facilities (SaaS) for suppliers and buyers of digital technologies, in particular for CPS and IoT, implementing Agile, Fast Prototyping, Test Driven Development and Behaviour Driven Design approaches.

**Areas:**

1. CPS and IoT
2. Robotics

**Durée/Budget : ~2 years / 4-6 M€**

**Partenaire(s) déjà identifié(s) :**

- [Nokia-Alcatel-Lucent - Research Coordination](#) (Germany)
- [Consiglio Nazionale delle Ricerche - ISTI](#) - Italy
- [University of Manchester](#) - Great Britain
- [Laboratoire d'Informatique de Paris 6](#) (UPMC, CNRS) - France

**Impacts :**

- Exploration of new application areas for advanced ICT in manufacturing
- More innovative and competitive technology suppliers, in particular SMEs
- More competitive European service providers
- Creation of a self-sustainable ecosystem of competence centers
- Critical mass of pan European experiments

# Idée de projet : Smart Everything Everywhere Platform



**Appel(s) à projet identifié(s) :**

**[ICT-04-2017 - Smart Anything Everywhere Initiative](#) - IA**

**Contacts :**

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**Objectifs techniques :**

Competence center and development/testing facilities (SaaS) for, companies that want to experiment with digital technologies inside their product, implementing Agile, Fast Prototyping, Test Driven Development and Behaviour Driven Design approaches

**Area 1: Cyber-physical and embedded systems**

**Area 3: Advanced micro-electronics components and Smart System Integration**

**Durée/Budget : ~2 years / 4-6 M€**

**Partenaire(s) déjà identifié(s) :**

- **[Nokia-Alcatel-Lucent - Research Coordination](#) (Germany)**
- **[Iskratel](#) - Iskratel, one of the EU leaders in Broadband and InfoCommunication solutions for telcos, railways, energy and public safety sectors**
- **[Sintesio](#) - Non-profit Foundation and NGN Conformance and Interoperability test laboratory (SISTI-Iskratel). Endorsed by ETSI (Slovenia)**
- **[University Politehnica of Bucharest](#) - Romania**
- **[Consiglio Nazionale delle Ricerche - ISTI](#) - Italy**
- **[University of Manchester](#) - Great Britain**
- **[Laboratoire d'Informatique de Paris 6](#) (UPMC, CNRS) - France**

**Impacts :**

- **Innovation in products, processes and business models**
- **Business growth and increase competitiveness of digital technology suppliers, in particular SMEs**
- **Creation of a self-sustainable ecosystem of innovation hubs**

# Idée de projet : SME research & benchmarking facilities



## Appel(s) à projet identifié(s) :

[ICT-27-2017 - System abilities, SME & benchmarking actions, safety certification](#) - RIA

## Contacts :

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## Objectifs techniques :

Access to support services and technology that are relevant to the new market being addressed including access to specialised development/testing facilities, implementing Agile, Fast Prototyping, Test Driven Development and Behaviour Driven Design approaches

Development of benchmarks and metrics

**Durée/Budget : 3 years / ~6 M€**

## Partenaire(s) déjà identifié(s) :

- [Nokia-Alcatel-Lucent - Research Coordination](#) (Germany)
- [Iskratel](#) - Iskratel, one of the EU leaders in Broadband and InfoCommunication solutions for telcos, railways, energy and public safety sectors
- [Sintesio](#) - Non-profit Foundation and NGN Conformance and Interoperability test laboratory (SISTI-Iskratel). Endorsed by ETSI (Slovenia)
- [University Politehnica of Bucharest](#) - Romania
- [Consiglio Nazionale delle Ricerche - ISTI](#) - Italy
- [University of Manchester](#) - Great Britain
- [Laboratoire d'Informatique de Paris 6](#) (UPMC, CNRS) - France

## Impacts :

- Contribute to overall growth of SMEs targeting new markets
- SMEs conducting and utilising research to access new markets
- Wide acceptance in both academia and industry of, benchmarking, testing and evaluation tools

# Idée de projet : Shared facilities for safety certification in healthcare



## Appel(s) à projet identifié(s) :

[ICT-27-2017 - System abilities, SME & benchmarking actions, safety certification](#) - IA

## Contacts :

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## Objectifs techniques :

- Development of testing protocols for shared space cooperative and collaborative systems.
- Trials leading to viable safety certification standards
- Contribution to standards and regulations.

in the Healthcare industry

**Durée/Budget : 3 years / ~6 M€**

## Partenaire(s) déjà identifié(s) :

- [Dedalus S.p.A.](#) - leading provider of healthcare IT software in Europe) - Italy
- [HL7 International - European Office](#) - (worldwide standardisation organism - non profit) - Belgium
- [IHE Europe](#) (worldwide standardisation organism - non profit) - Belgium
- [Sintesio](#) - Non-profit Foundation and NGN Conformance and Interoperability test laboratory (SISTI-Iskratel). Endorsed by ETSI (Slovenia)
- [Consiglio Nazionale delle Ricerche - ISTI](#) - Italy
- [Laboratoire d'Informatique de Paris 6](#) (UPMC, CNRS) - France

## Impacts :

- Broad acceptance of testing protocols and validation processes for a wide range of shared space applications in the healthcare industry.
- New validation processes on which deployment regulations and standards can be based.

# Idée de projet : Shared facilities for safety certification in logistics and transportation

## Appel(s) à projet identifié(s) :

[ICT-27-2017 - System abilities, SME & benchmarking actions, safety certification](#) - IA

## Contacts :

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Lom Messan HILLAH - VP Research  
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## Objectifs techniques :

- Development of testing protocols for shared space cooperative and collaborative systems
- Trials leading to viable safety certification standards
- Contribution to standards and regulations.

In the transport and logistics industry

**Durée/Budget : 3 years / ~6 M€**

## Partenaire(s) déjà identifié(s) :

- [ITAINNOVA](#) (the Technological Institute of the Aragon Region) - Spain
- [Sintesio](#) - Non-profit Foundation and NGN Conformance and Interoperability test laboratory (SISTI-Iskratel). Endorsed by ETSI (Slovenia)
- [Consiglio Nazionale delle Ricerche - ISTI](#) - Italy
- [Laboratoire d'Informatique de Paris 6](#) (UPMC, CNRS) - France

## Impacts :

- Broad acceptance of testing protocols and validation processes for a wide range of shared space applications in the logistic and transportation industry.
- New validation processes on which deployment regulations and standards can be based.