

TRESCIMO

Testbeds for **R**eliable **S**mart **C**ity **M**achine-to-**M**achine **C**ommunication

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science
& technology
Department
Science and Technology
REPUBLIC OF SOUTH AFRICA



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our future through science

Call

- FP7-ICT-2013-10: Objective ICT-2013.1.7 Future Internet Research Experimentation
- Specific objectives of FIRE in WP2013
 - New or extend testbed **facilities**
 - **Multidisciplinary** investigation of key techno-social issues
 - **Share** best practises, solutions, applications and services



Activity

- **EU-South Africa cooperation on Future Internet Experimental Research and testbed interconnection**
 - Improve FIRE testbed capabilities in **Europe** and **South Africa**
 - Deployed and **tested** in both Europe and South Africa
 - Support **innovative** applications for social integration
- **Co-funded** by FP7 (European Union's Seventh Programme) and DST (South African Department of Science and Technology)



TRESCIMO supporting South African ICT RDI Roadmap

- **Unlock** the potential that ICT has for socio-economic development
- **“Towards a Digital Advantage”** in South Africa
- **Strengthen** ICT RDI ecosystem
- **27 market opportunities** grouped in 6 clusters
 - Broadband Infrastructure and Services, Development, **Sustainability and the Environment**, Grand Science, **Industry Applications**, The Service Economy



TRESCIMO & ICT RDI Roadmap Market Opportunities

- Industry Applications
 - Smart Infrastructure
 - Future Internet Applications
- Sustainability and the Environment
 - Green and ICT



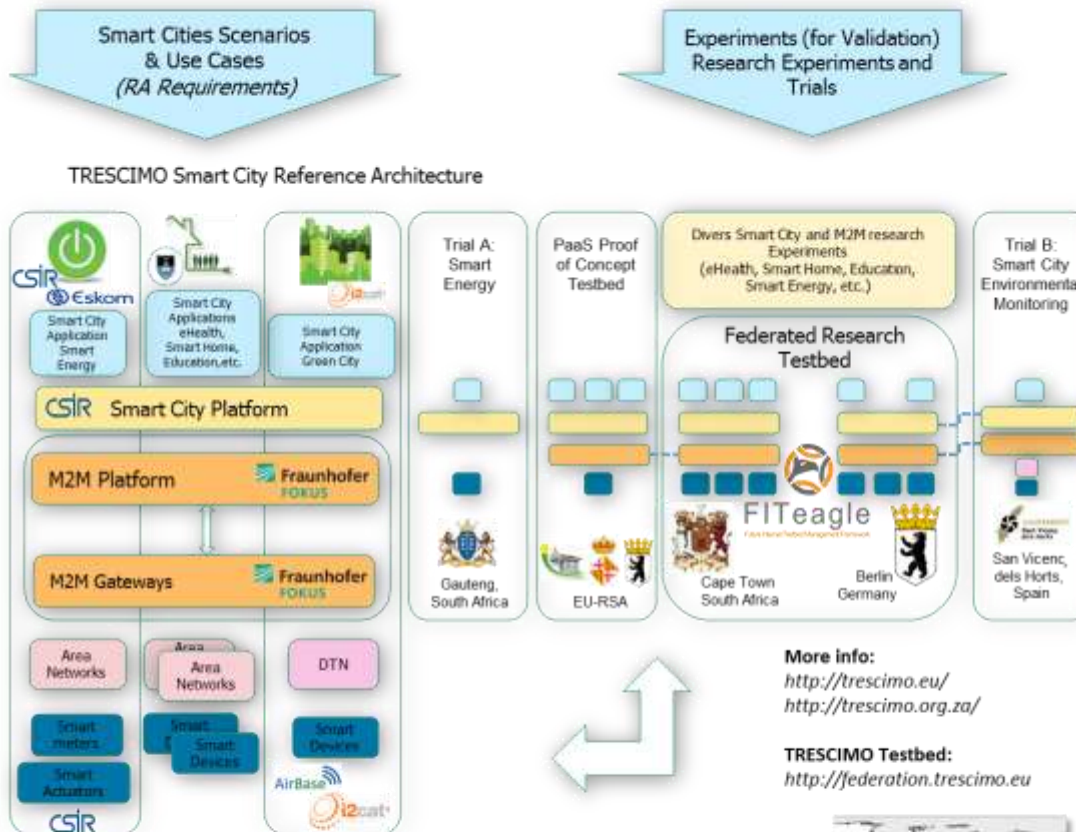


TRESCIMO

TRESCIMO

<http://trescimo.eu>

The plan!



More info:
<http://trescimo.eu/>
<http://trescimo.org.za/>

TRESCIMO Testbed:
<http://federation.trescimo.eu>

TRESCIMO improves Future Internet Research Experimentation (FIRE) testbed capabilities in Europe and in South Africa, demonstrated through experimental research linking smart and green technological and social innovation. A key impact is a new globally intercontinental testbed offered to FIRE community.



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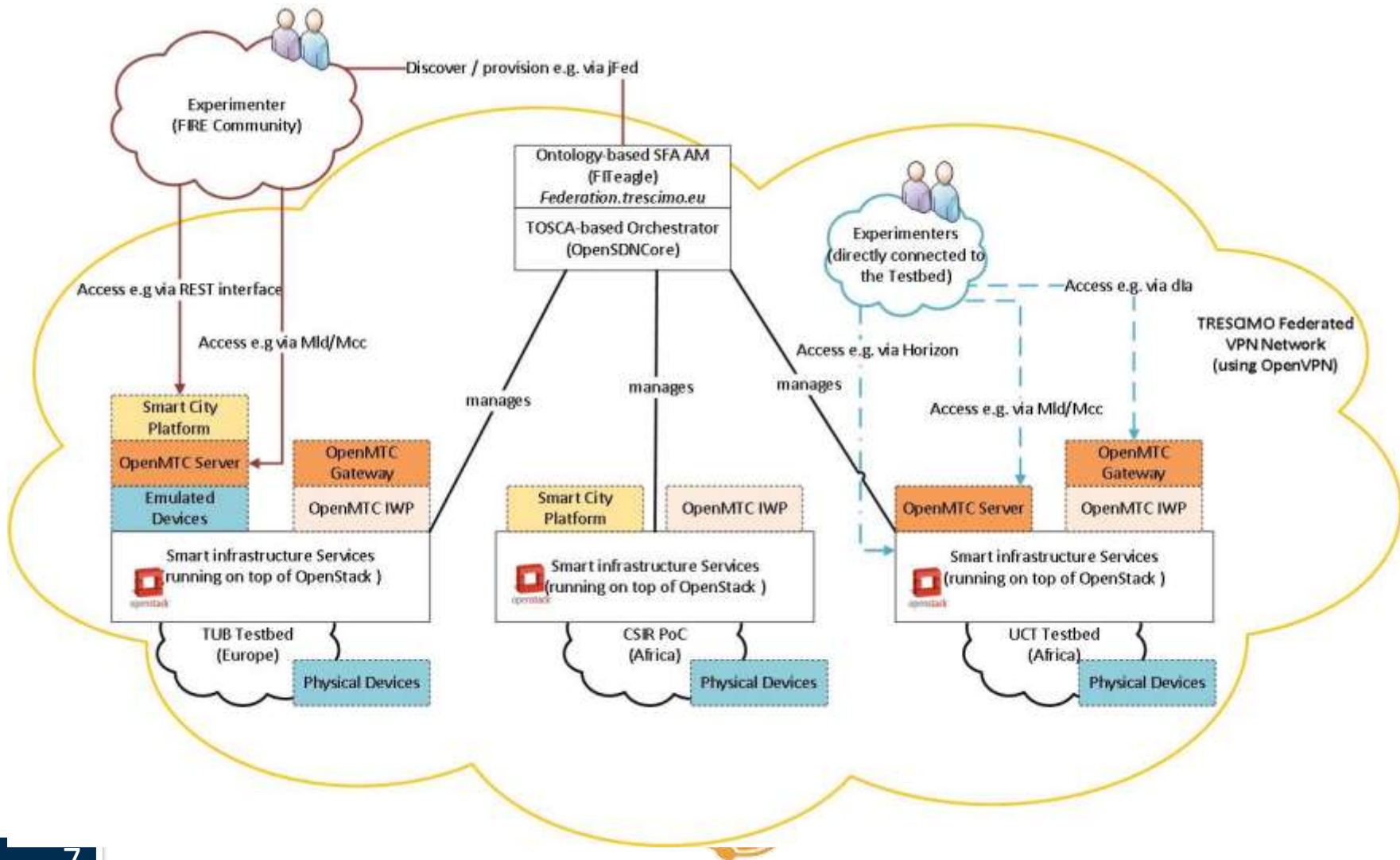


International Collaboration

2014 - 2015

The research leading to these results has received funding from the European Union's Seventh Framework Programme (FP7/2007-2013) under grant agreement n° 611745, as well as the South African Department of Science and Technology under financial assistance agreement DST/CON 0247/2013

TRESCIMO as TESTBED



International Federated Research Infrastructure



Trials



Objectives

- Technical
 - Trials, testbed & PoC
- Soft
 - Create opportunities
 - Build
 - Network of experts
 - Capacity & Capability
 - Expertise
 - Disseminate
 - Create shared exposure & understanding



Challenges

- Travel
- Synchronized start & very short timeframe
- Dual reporting (EU & DST)
 - Financial and status
- Difference in operational frameworks
 - Access to clients
 - Management of risk
 - Approval and procurement
- Certification of devices and equipment
- Keep momentum?



Worked well

- Political will
- Strong, shared leadership
- Funding model
- Consortium partnership
 - Complementary skills, areas of focus & objectives
- Collaborative, bi-directional learning
- Joint work & mutual benefit



Worked well

- Travel
- “Same” time zone
- “GoToMeeting”
- Enabling infrastructure SANReN/SEACOM (research networks)



Future Exploitation

- Proposals (EU H2020) to exploit
- Cross domain application
 - Safety & Security
 - Oceans and Coast
 - Natural environment – water, hazard, pollution
- Research facility: TEI
- Rapid response to opportunities
 - Plug & Play technologies



The Team



Final Review





Thank you

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