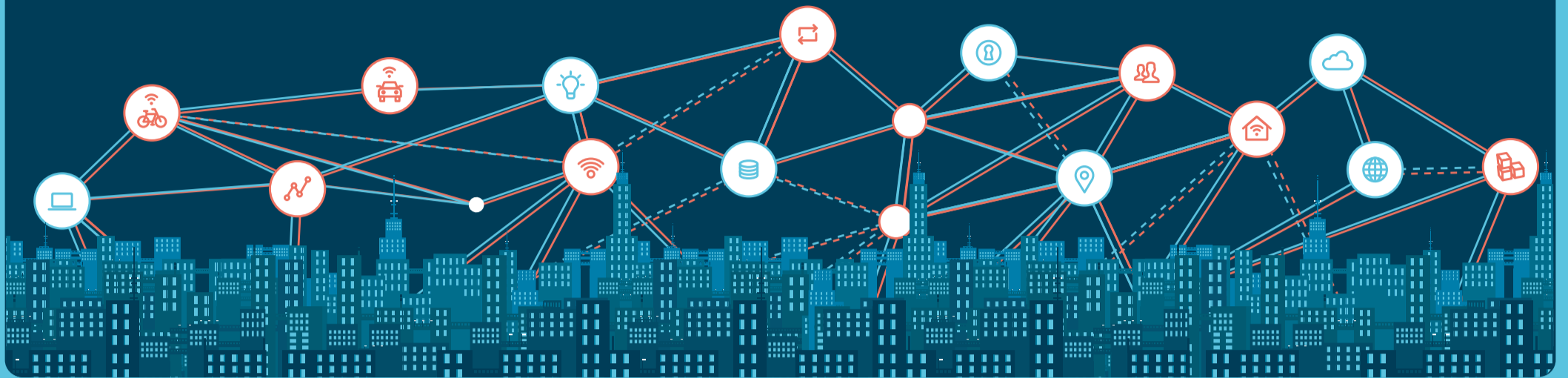# Multi-layered Security Technologies
for hyper-connected smart cities

M-Sec empowers researchers, entrepreneurs, business and public institutions to create IoT innovations that improve the security and connectivity of smart cities.

www.msecproject.eu
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✉ hello@msecproject.eu   in M-Sec Project   🐦 @MSecProject   #MSecProject

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Keywords: IoT, Smart Cities, Security, Blockchain, Big Data, Cloud computing
Start date: July 2018
Duration: 36 months
Type of action: RIA Research and Innovation action
Topic: EUJ-01-2018 Advanced technologies

M-Sec Use Cases

Facilitating diverse areas of smart city life, from improving the wellbeing of growing elderly populations, to monitoring rubbish collection, to creating playable city 'games'.

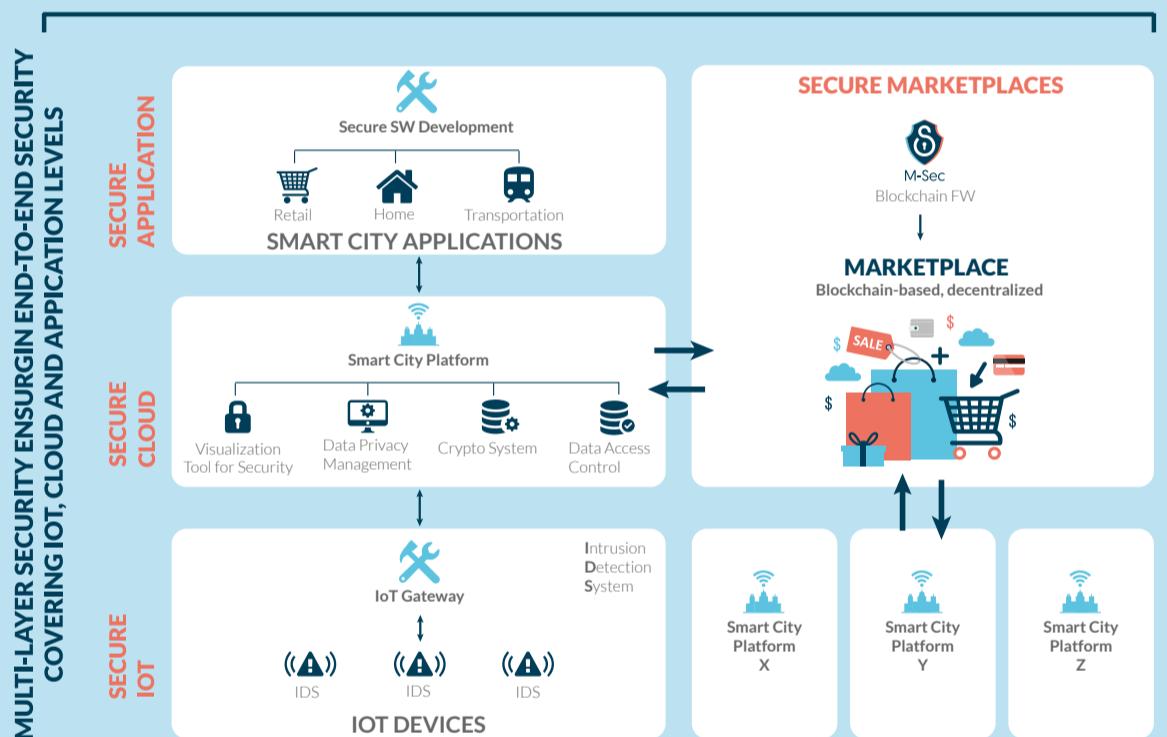| Fujisawa, Japan	Cross-border	Santander, Spain
Secure and Trustworthy Environment Monitoring with Automotive, Participatory and Virtual Sensing Techniques	A marketplace of IoT services for effective decision making	Reliable IoT devices with multi-layered security for a smart city
Secure and Trustworthy Hyper-connected Citizens Care	Citizens as sensor	Home monitoring & Wellbeing Tele-assistance for active and independent ageing people

Architecture

Enabling Secure Sharing, Dealing and Interaction among Cities

MULTI-LAYER SECURITY ENSURGIN END-TO-END SECURITY COVERING IOT, CLOUD AND APPICATION LEVELS

SECURE APPLICATION

Secure SW Development

Retail   Home   Transportation
SMART CITY APPLICATIONS

SECURE CLOUD

Smart City Platform

Visualization Tool for Security   Data Privacy Management   Crypto System   Data Access Control

SECURE IOT

IoT Gateway

Intrusion Detection System

IDS   IDS   IDS
IOT DEVICES

SECURE MARKETPLACES

M-Sec Blockchain FW

MARKETPLACE
Blockchain-based, decentralized

Smart City Platform X   Smart City Platform Y   Smart City Platform Z

Expected results

- M-Sec IoT infrastructure
- M-Sec Smart City Ecosystem
- M-Sec Marketplace
- M-Sec Replication Plan

With an ambitious approach

- Open technologies and architecture
- New business and economic models
- Multi-layered security support
- IoT marketplace based on blockchains
- Citizen engagement and co-design
- Real-life pilots in Spain and Japan

We use innovative technologies in our smart city solutions

Cloud   IoT   Device level   Big Data security   Blockchains   End to End security

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Partners

Worldline   ENSEY ICCS   cea   F6S   TST   SANTANDER   NTT EAST   Keio University   YNU   国立情報学研究所 National Institute of Informatics   WASEDA University   NTT DaTa Trusted Global Innovator