Multi-layered
Security
Technologies
for hyper-connected
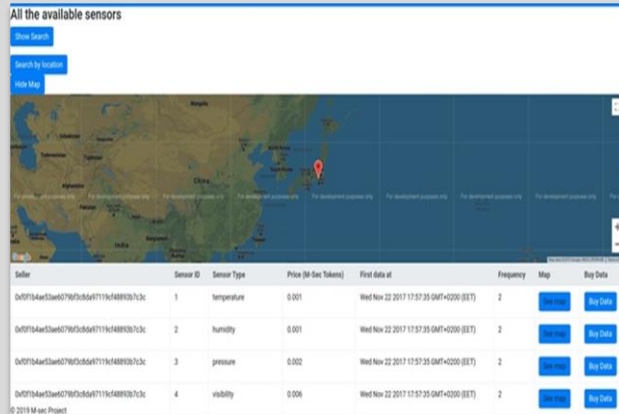smart cities

A EU-Japan collaboration

# IoT Marketplace

## Implementation of a novel marketplace, where smart objects can exchange information and services, through the use of virtual currencies.

**Brief description about the FG** *"The FG implements a platform to assist the exchange of IoT devices data, as well as media, between registered users from all over the world. It is accessible through its web browser and API endpoints and the data exchanged can be distributed on off-chain and on-chain databases."*

## FEATURES

- "**IoT sensor data and media exchange.**"

- "**User authentication** and **anonymity** within the app**.**"

- "**Accessible** through **web app** and **API** clients**.**"

- "**Enhanced Security** based on **Blockchain** and **end-to-end encrypted** communication."

- "**KYC** and **Trust & Reputation mechanisms**"



## KEY BENEFITS

*"Safely and easily register, sell and purchase IoT device data and media."*

*"Support of purchases using M-Sec tokens."*

*"User friendly UI with visual aids (map view)."*

*"End-to-end encrypted communication with the server."*

## SYSTEM REQUIREMENTS

- "The IoT Marketplace server runs on **NodeJS**."
- "The front-end web client can be accessed from common **browsers**, while the exposed API responds to **JSON** requests."
- "**TLS/SSL** certificates are obtained from certified well-known providers."
- **Smart Contracts** deployed on **Blockchain**.

## DID YOU KNOW?

*"M-sec IoT marketplace users can exchange IoT sensor data and media easily, securely and with complete anonymity. It* allows the real-time matching of supply and demand enabling the creation of liquid markets with profitable business models of the IoT stakeholders. *IoT devices and humans using mobile applications and APIs are able to exchange data and value through the M-Sec blockchain-based implementations."*