



IoT-enabled eHealth: The VICINITY Way to Smart and Inclusive Cities

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Optimise total load balance
Peak consumption management
Charging Plan
Leverage predicted use
Energy flexibility
Neighbourhood level



IoT enabled energy services
Energy cluster effect, knowledge transfer
Shared assets performance
Demand response analysis
DER RES IoT enabled services management



Quick response team
Shared resources - multimodal integration
Multi-domain integration
On-demand assignment
Area management
User access management



Analyse buildings and eHealth IoT info
Correlate information
Identify "abnormal behaviour"
Introduce preventive medicine
Promote fit lifestyle
Urban-scale competition







VICINITY IoT powering the eHealth Revolution

Using IoT systems to convince healthy people to change their living habits and to help sick patients adhere to doctors' prescriptions would be a true breakthrough. Potential annual

MCKINSEY GLOBAL INSTITUTE THE INTERNET OF THINGS: MAPPING THE VALUE **BEYOND THE HYPE** JUNE 2015



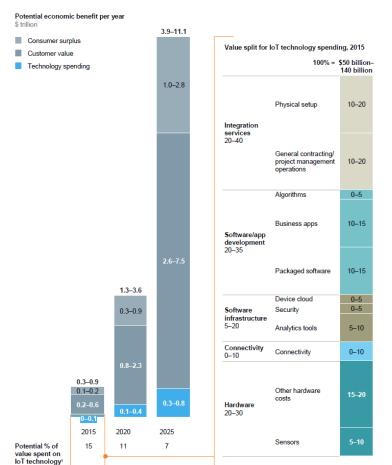


with chronic

diseases

value of IoT from monitoring and treating patients







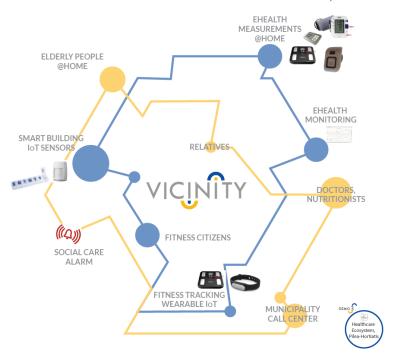
SOURCE: Industry interviews; McKinsey Global Institute analysis







MUNICIPAL SCALE ASSISTED LEAVING & EHEALTH ECOSYSTEM, GREECE







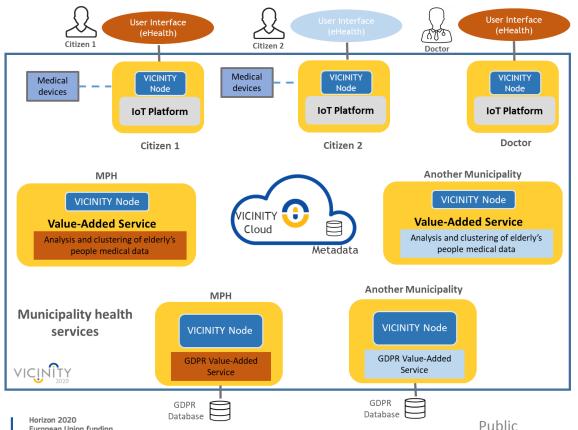
- Healthcare institutions have software which are not compatible with the hardware that is used. This means lack of interoperability and leads to investing considerable funds to make systems that operate with different standards interoperable
- Lack of cyber security requirements for medical devices. Handling personal data through the internet and new technologies have emerged the need to protect those data in order to use them only for medical purposes and not for commercial ones
- Not major investments in interactive technologies static websites just providing health information
- 73% of Member States do not have an entity responsible for the regulatory oversight of mobile health apps for quality and safet despite widespread use of such technology
- 38% of Member States have yet to establish a dedicated telehealth policy







VICINITY General concept of eHealth Domain

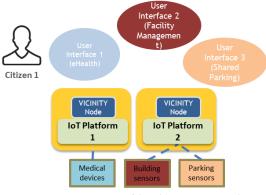




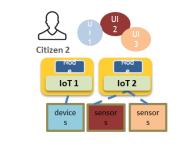




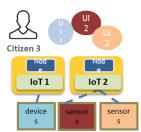
VICINITY VICINITY Market Place



More Citizens can grant access of their devices to certain Value-Added Services. Although VICINITY Citizens register all their devices in VICINITY Platform, they can choose which data are accessible by which Value-Added Service by creating certain "friendships".







For example, a Citizen with medical devices and building sensors can authorize eHealth domain VAS to access only the medical devices.

VICINITY Node Value-Added Service eHealth domain: Analysis and clustering of elderly's people medical data

Municipality health services

VICINITY Node Value-Added Service **Building domain:**

Building Facility Management Service

VICINITY Node Value-Added Service Mobility/Parking domain: Sharing of parking spaces

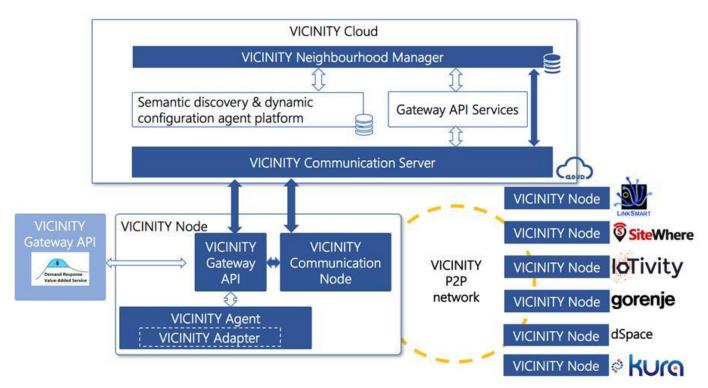
Shared Parking Service Provider







Key Value Point : Integration

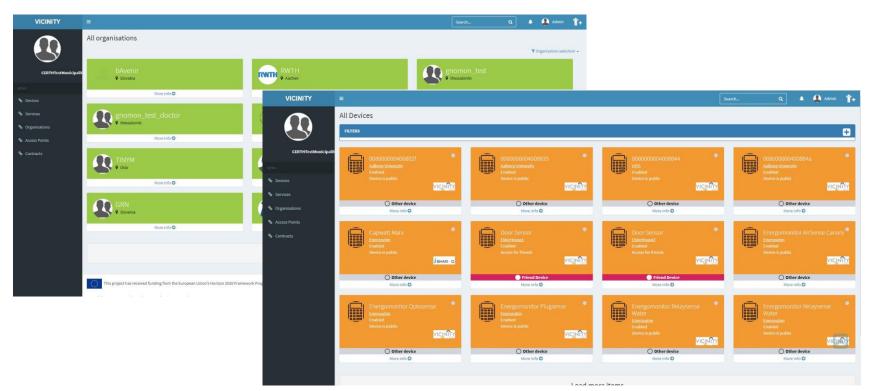








Key Value Point II: Manageability

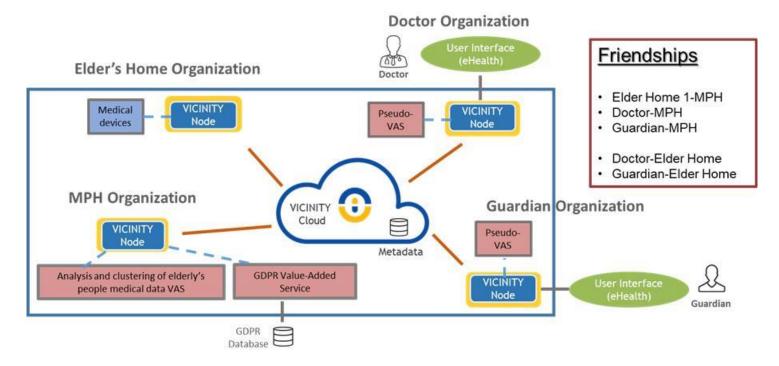








Key Value Point III: Extensibility







Service for semantic cross domain interoperability









































