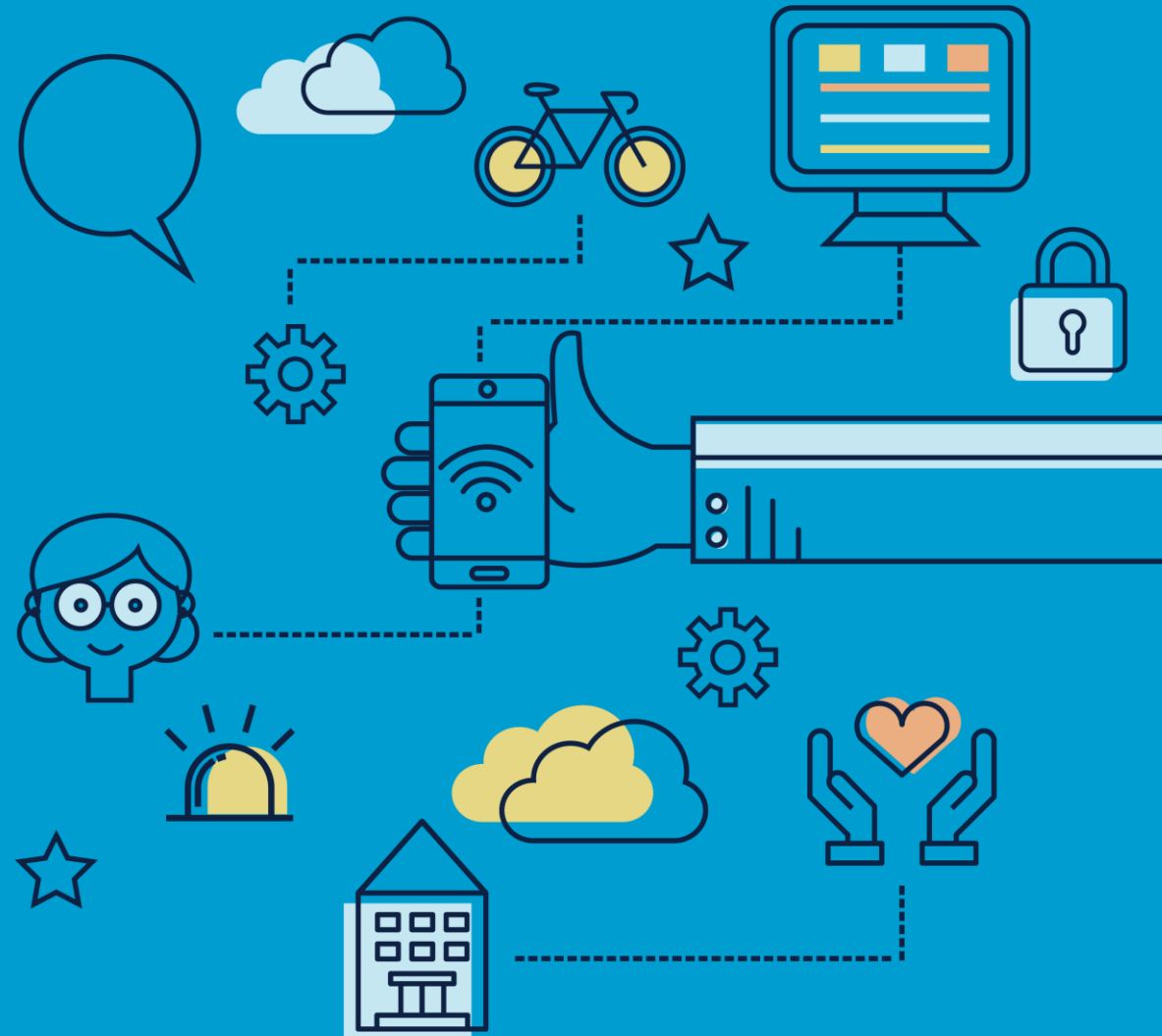


IOT ON ACTIVE & HEALTHY AGEING

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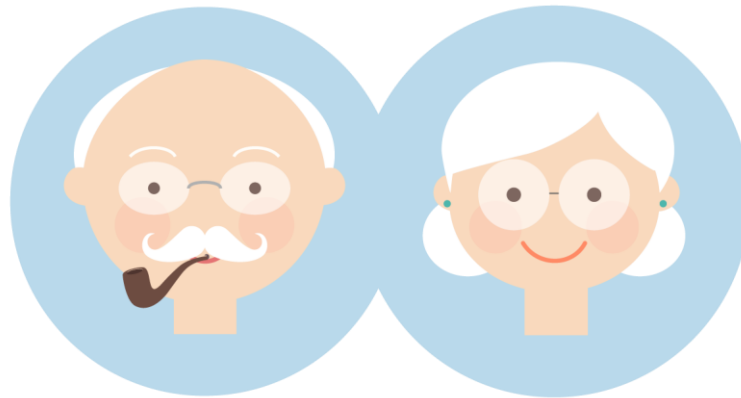


CONTEXT



A very simple message: ACTIVAGE is here to plant a seed that will change the life of 100 million people across Europe, including us.

Me

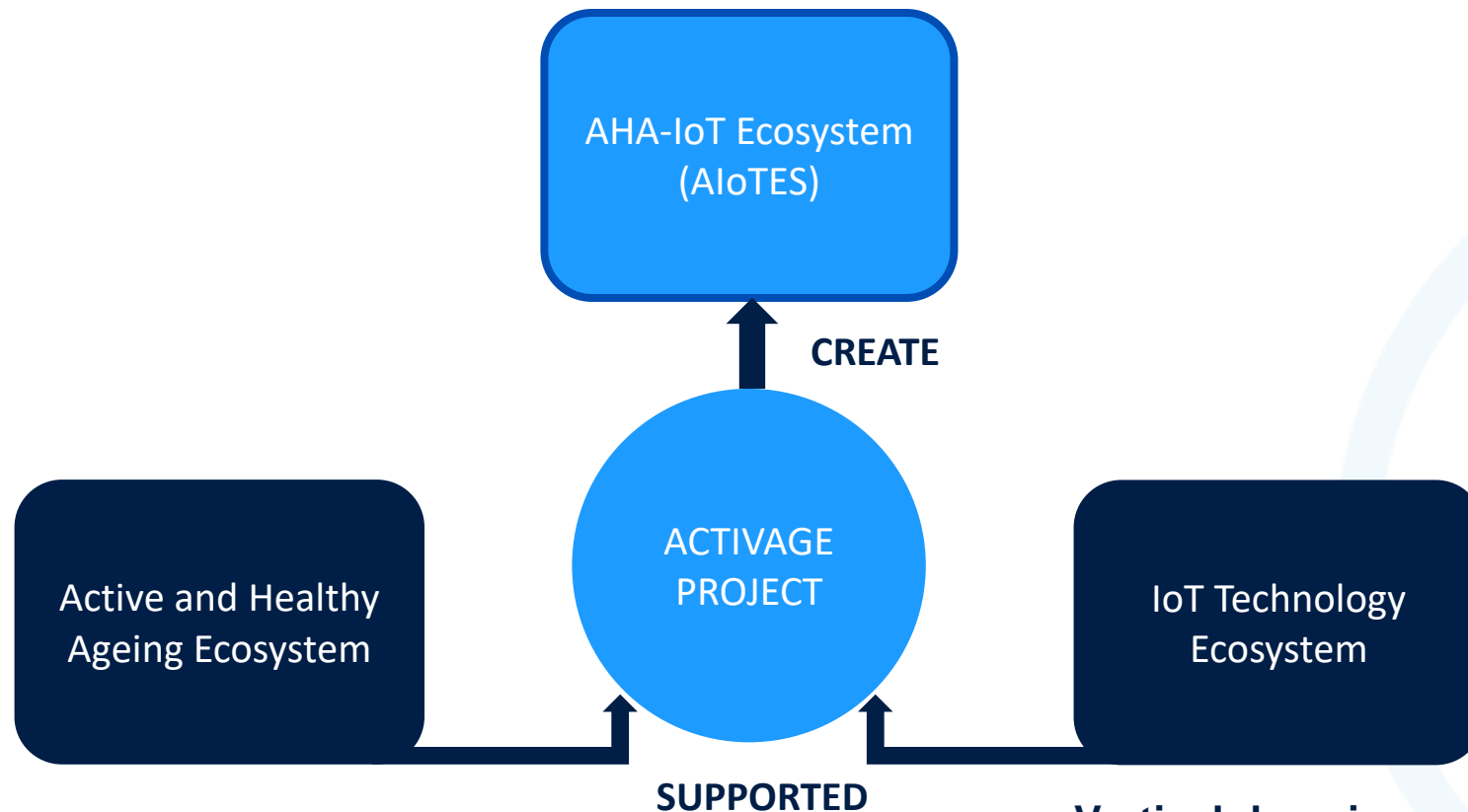


You

CONTEXT



ACTIVAGE is founded on the cross – road of two big strategic initiatives launched by the UE Commission in the frame of the **European Digital Single Market**



Tripple Win:

- Better Quality of Life and autonomy for the European Senior citizen
- Sustainability of the Health Care System
- Competitiveness of the European Industry and creation of jobs

Vertical domains:

- Digital Transformation in Health and Care
- Smart connected Factories
- Smart Farm

Horizontal enablers:

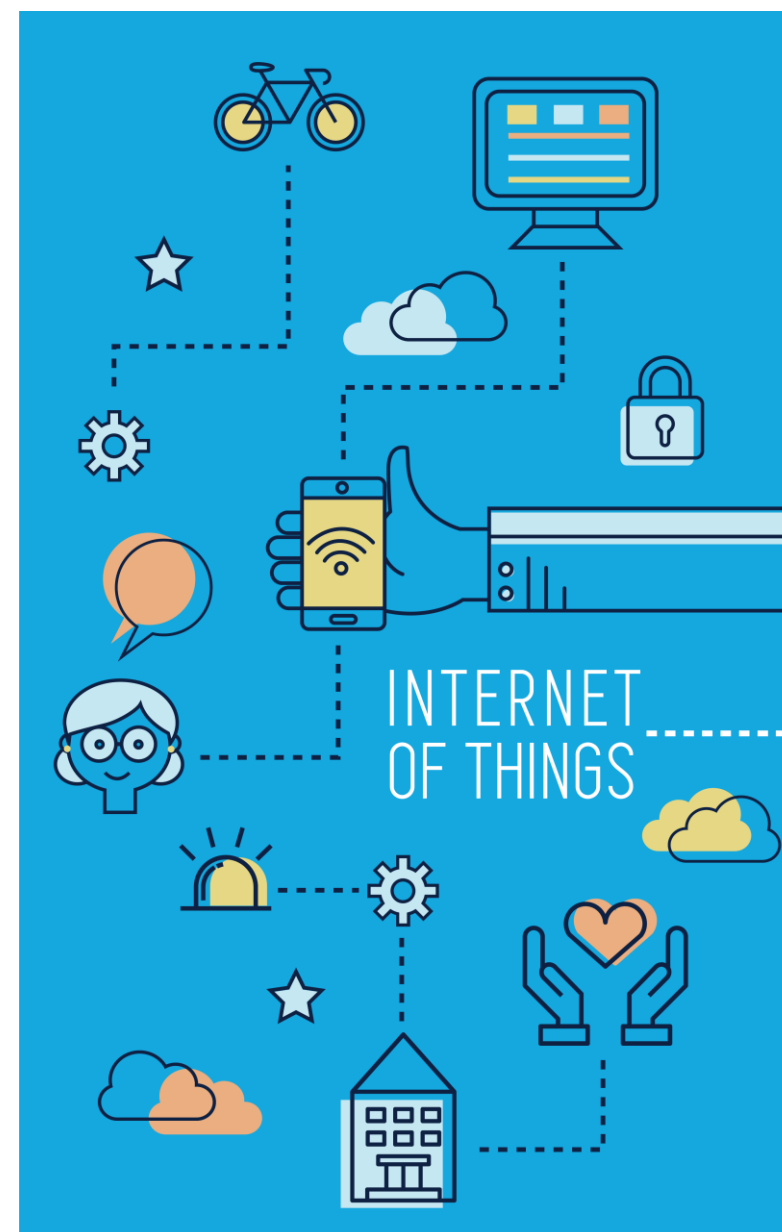
- Internet of Things
- European Data Platforms

ACTIVAGE CONTEXT

Ageing population



- Mortality rates have fallen significantly: **heavy impact on health and social care systems**
- Final goals for EU initiatives related to older adults: **Active ageing and independent living**
- Active and Healthy Ageing (**AHA**) **community** pretends to **answer and prevent health and social care systems challenges** through Internet of Things (**IoT**)
- **Removing interoperability barriers** to convert the **current available IoT platforms** in a DYNAMIC ECOSYSTEM with **connected devices and open systems and architectures integrated within different areas**



VISION



The VISION of ACTIVAGE is to be the global world-wide reference for providing the EVIDENCE that STANDARD-SECURE-INTRAOPERATIVE IOT ECOSYSTEMS enable new BUSINESS MODELS and cost-effective solutions for ACTIVE AND HEALTHY AGEING, contributing to the sustainability of the health and care systems, the competitiveness of the European industry through innovation, and the improvement of the quality of life and autonomy of older adults in the form of independent living.

SIMPLICITY IS NOT A FEATURE OF ACTIVAGE!!

**Lets put in more simple words for our guests
(and some of our consortium members)...**

VISION



“My Quality of Life is better because I have a blend of affordable services that fit my (our) needs. I feel free to choose what is better for me (us) any time and I have full control on my life”



“As Service Provider, I have enlarged my portfolio of services for the living of senior people customers and I am able to upgrade, downgrade, adapt to the very personal needs of my customers. Moreover, I have enlarged my customer base!!!! And now I am more profitable!! “



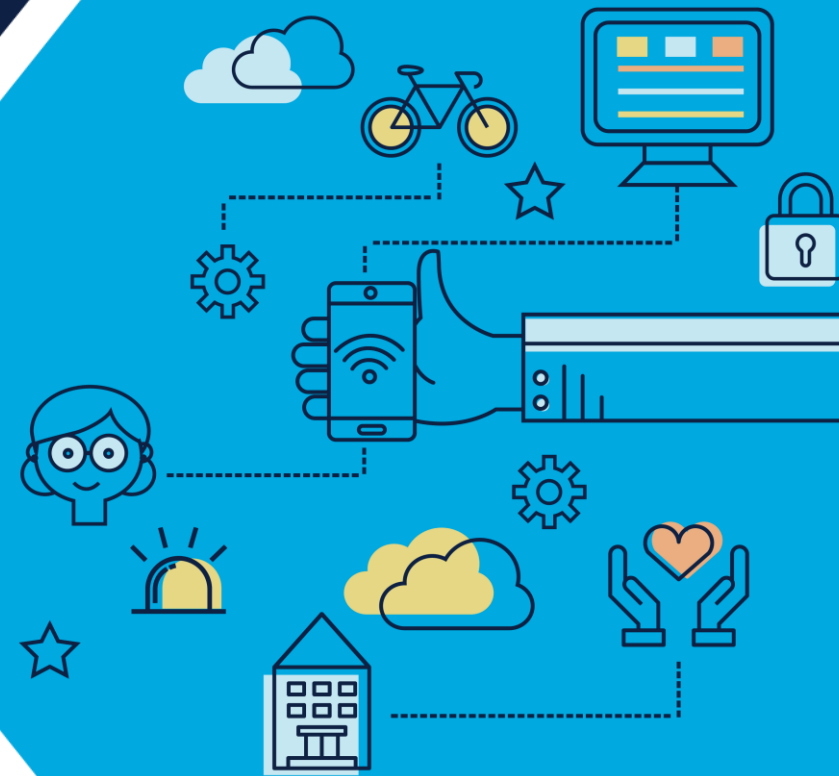
“In my small company we are developing a new advanced algorithm to predict risks of and prevent Falls. Our competitive advantage is that we only use context data and no wearables. We leverage spread IoT ecosystems through Europe to reach international market. We raised 500K of venture capital to go international”



“In my town we have deployed an IoT smart City infrastructure. In addition to city services we are providing platform service to our Social Care Office to deliver multiple services through providers to senior citizens in town .

ACTIVAGE have to prove with measurable key performance indicators that all the above and more is possible and true.

HOW WE ARE GOING TO IMPLEMENT

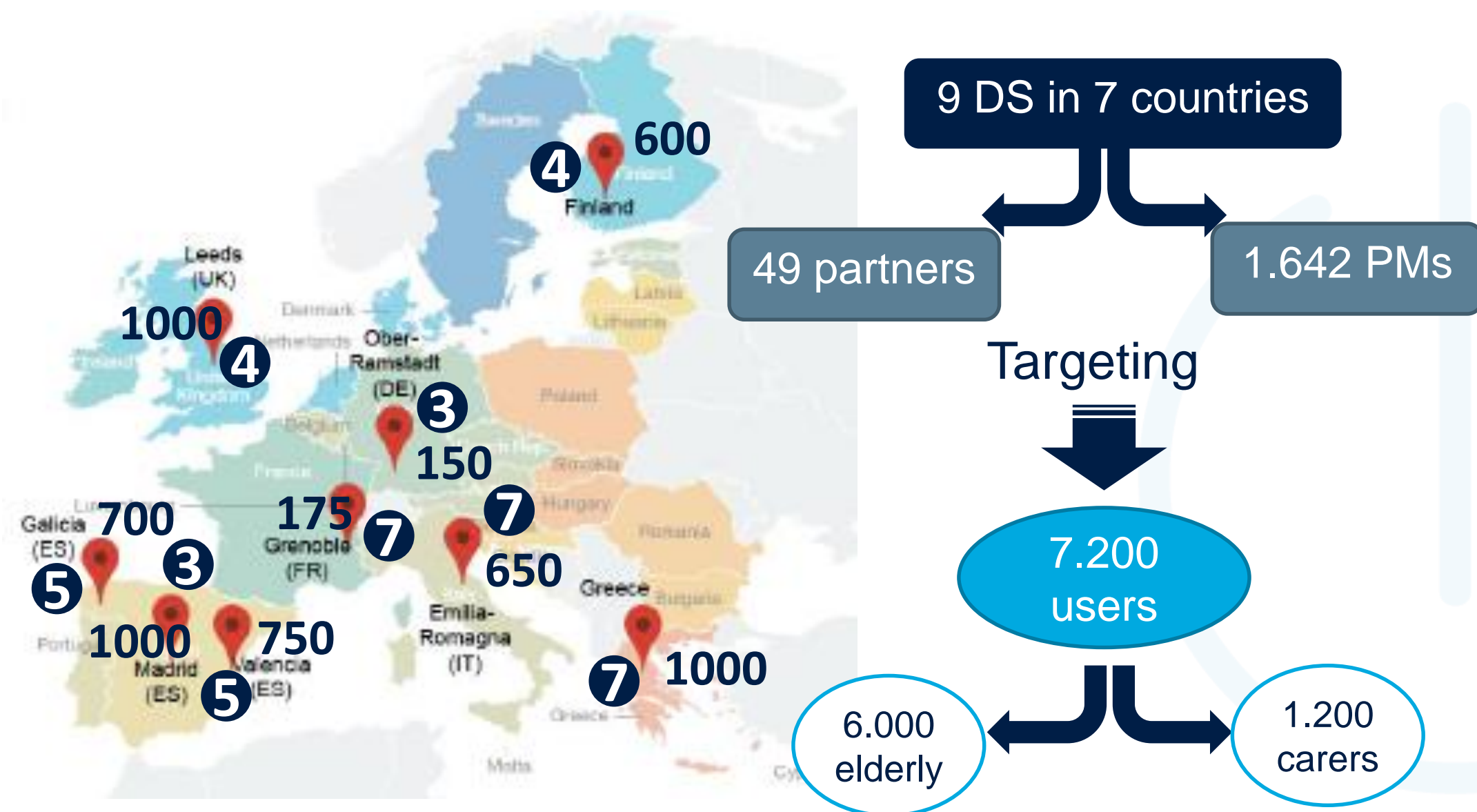


MAIN ACTIVAGE OBJECTIVES



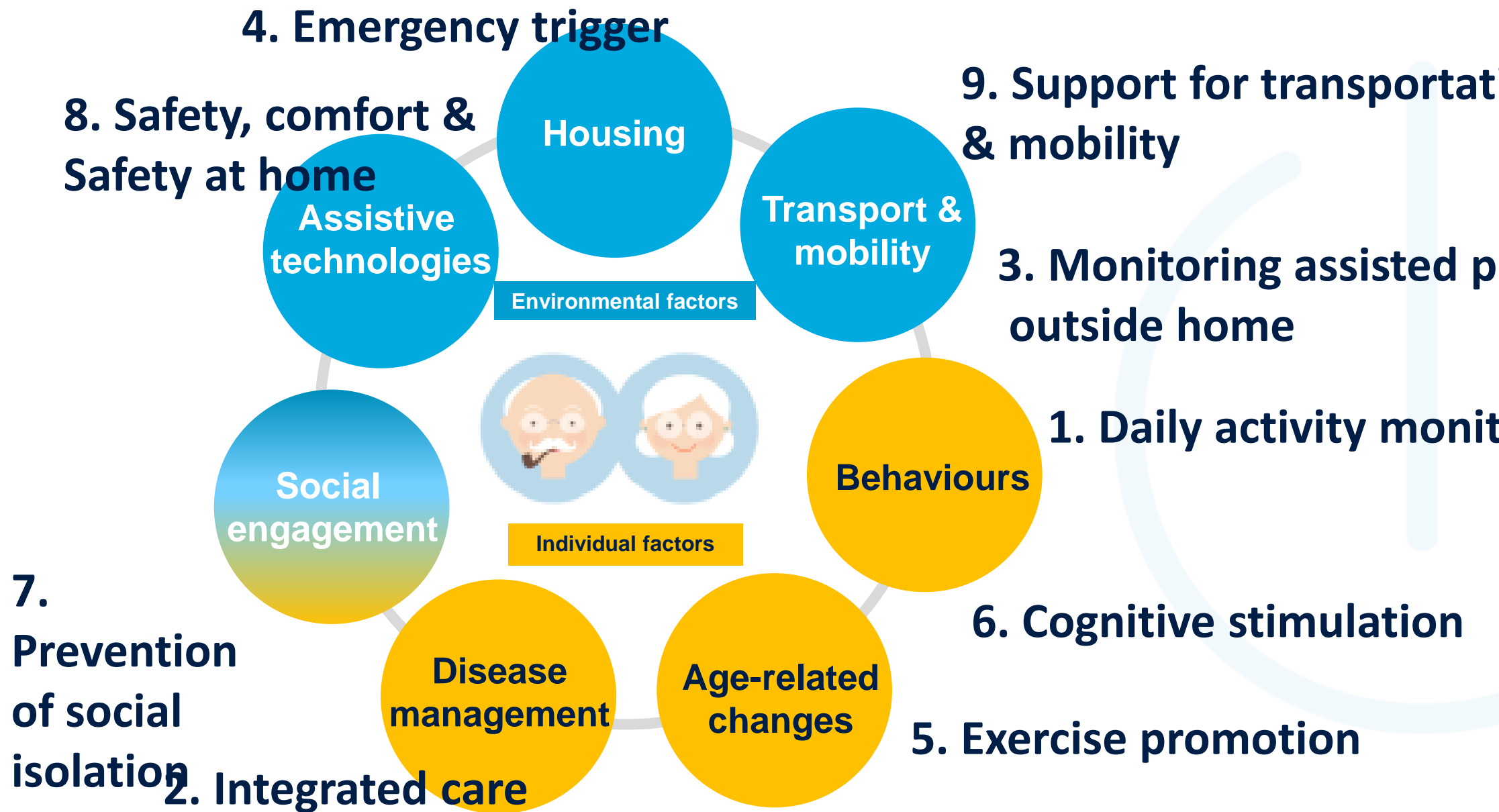
- **Prolong and support the independent living of older adults in their living environments**
- Respond to **real needs** of **caregivers**, **service providers** and **public authorities**
- Deployment of **innovative and user-led large scale pilots** across **nine Deployment Sites** in **seven European countries** based on the IoT technologies
- Create the **first European interoperable and open ecosystem, reusing existing IoT platforms, technologies and standards** that will enable to develop AHA IoT services and solutions at large scale.
- Assess the **socio-economic impact**, the benefits of **IoT-based smart living environments** in the **quality of life and autonomy of older citizens**, and in the **sustainability** of the **health and social care systems**
→ **new business models**

ACTIVAGE CONSORTIUM

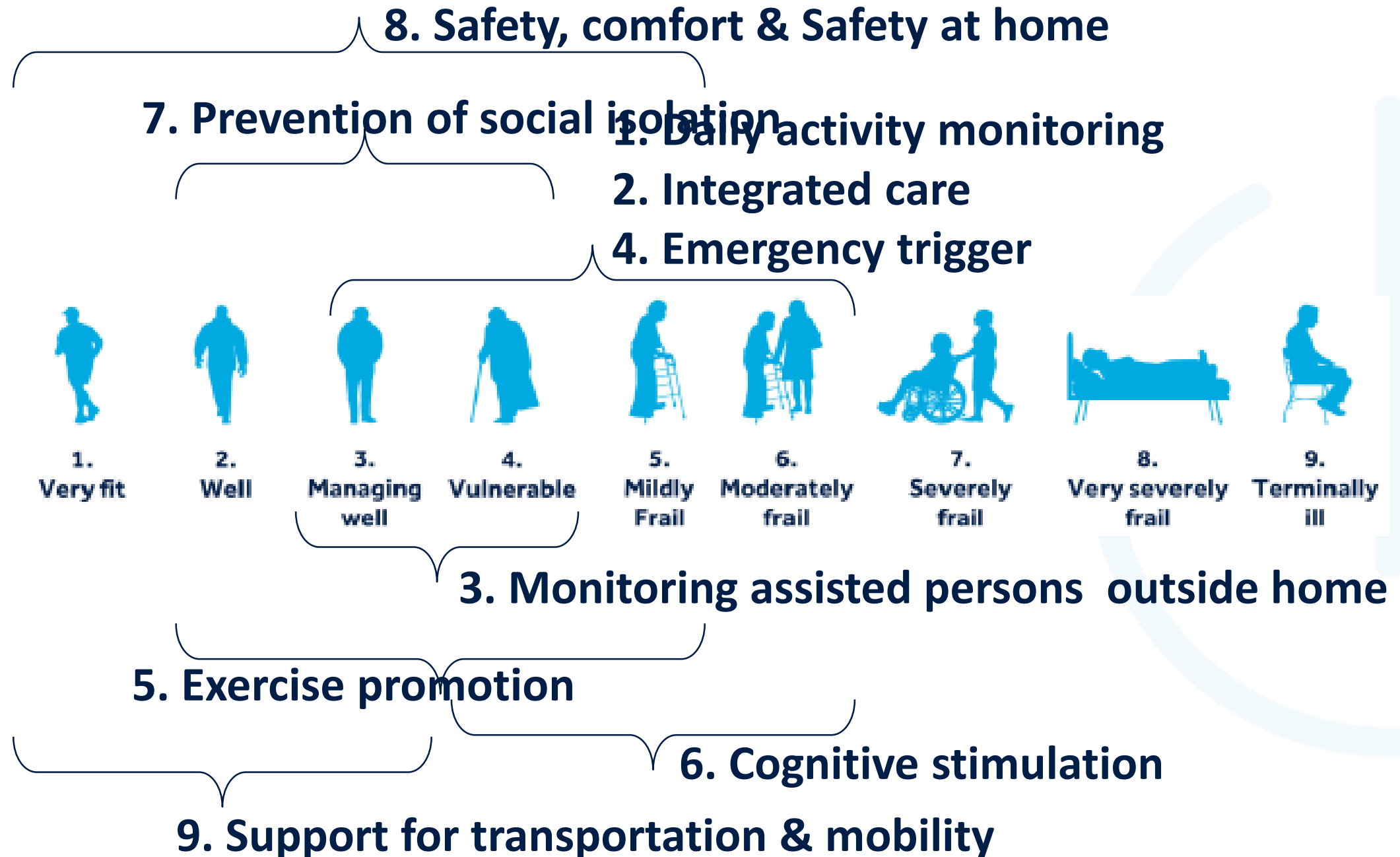


N Number of partners in the local ecosystem

ACTIVAGE USE CASES



UC MAPPING TO USER GROUPS



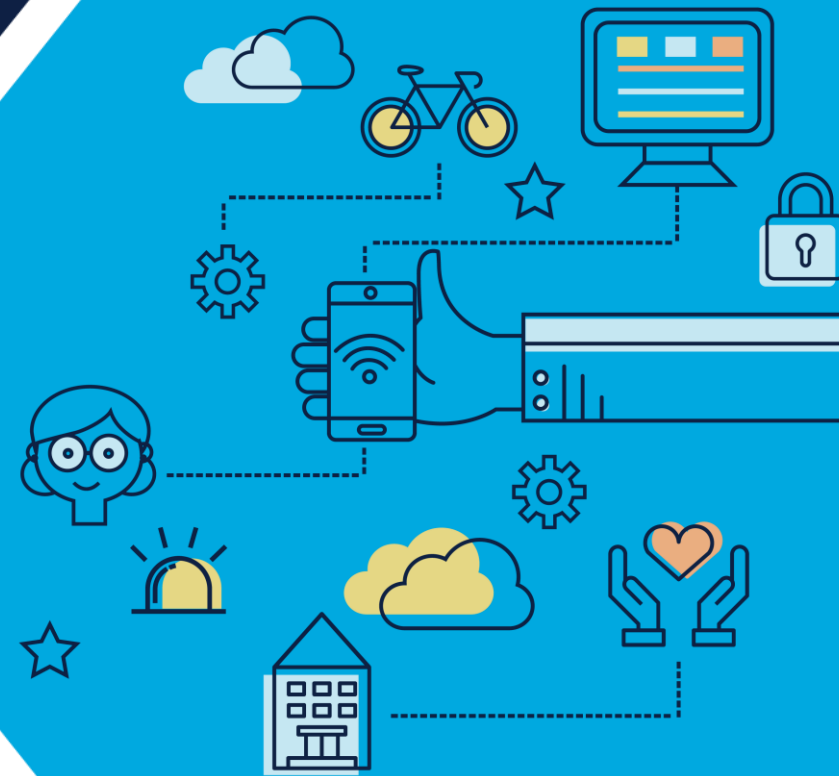
UC MAPPING TO DS



- ① Daily activity monitoring
- ② Integrated care
- ③ Monitoring assisted people outside home
- ④ Emergency trigger
- ⑤ Exercise promotion
- ⑥ Cognitive stimulation
- ⑦ Prevention of social isolation
- ⑧ Safety, comfort & Safety
- ⑨ Support for transportation & mobility

ACTVAGE
PROJECT

AHA-IOT ECOSYSTEM



IOT LEGACY PLATFORMS

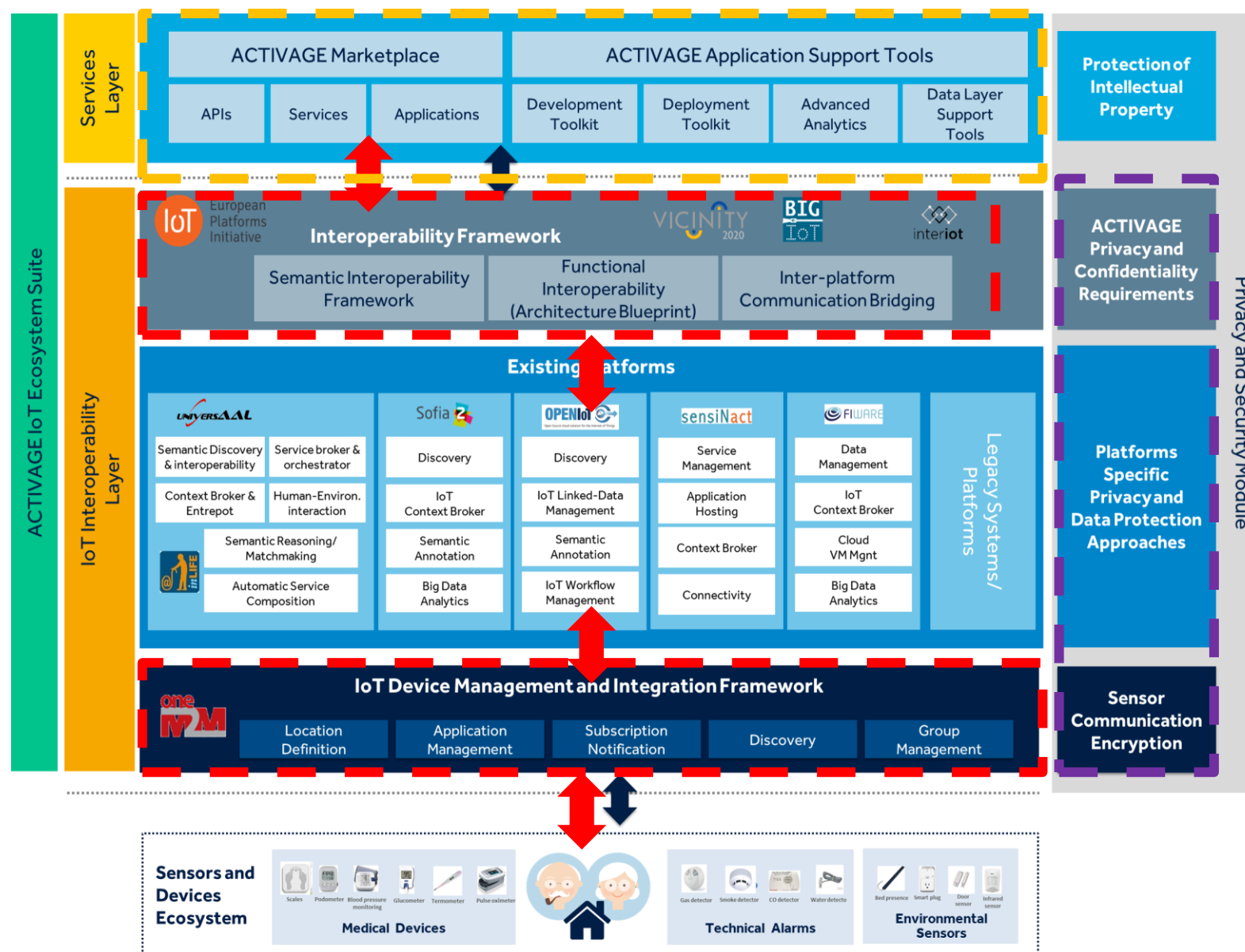


- 1  FIWARE
- 2  OPENIoT
- 3  sensiNact
- 4  Sofia 2
- 5  universAAL IoT

IOT DEVICES

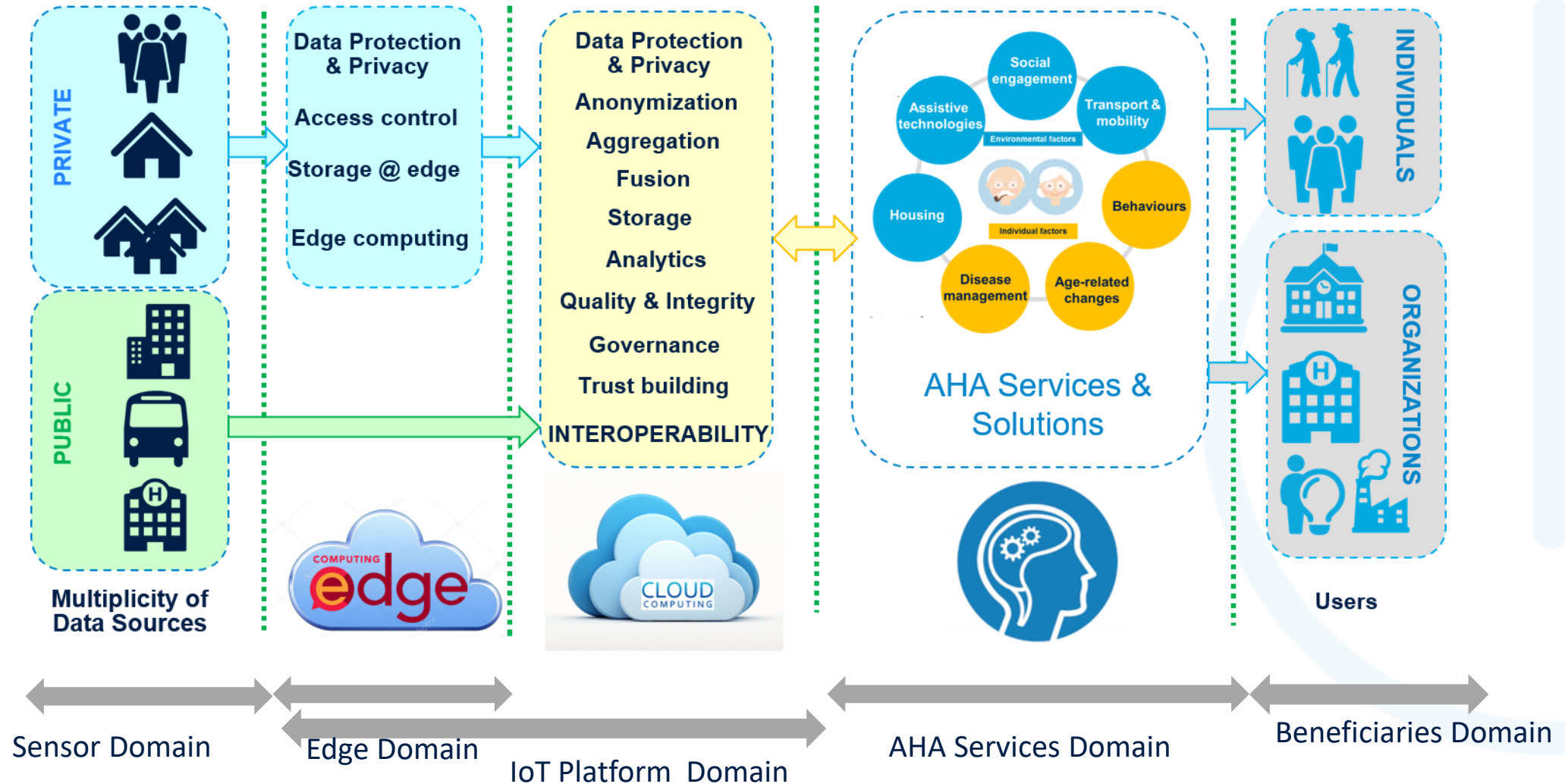


- 1** In-door sensors/actuators
- 2** Outdoor sensors
- 3** Wearable sensors
- 4** Health devices
- 5** User interaction devices

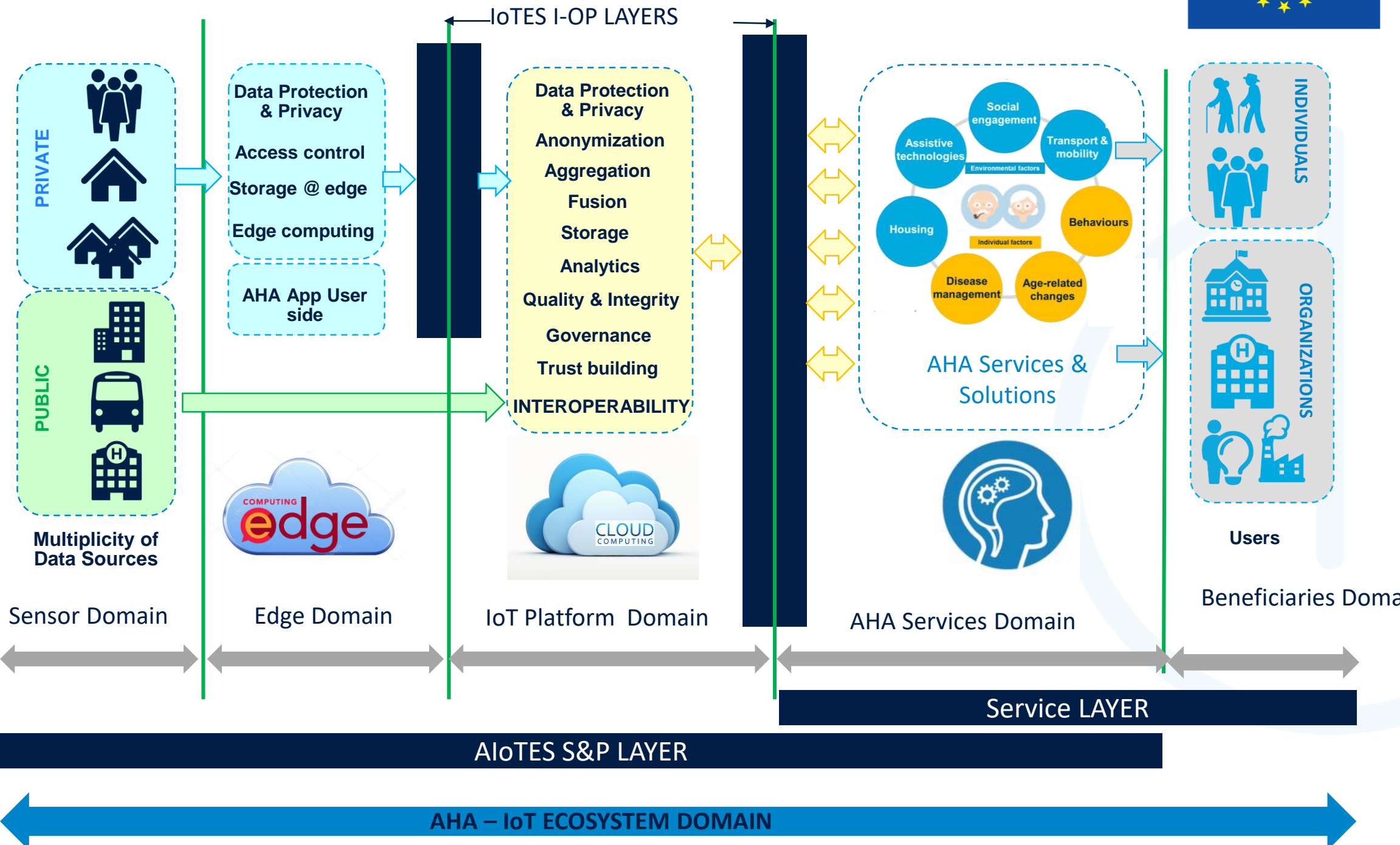


AHA-IOT GENERIC ARCHITECTURE

Baseline



FULLY-OPEN AHA-IOT ECOSYSTEM





The most radical and disruptive innovation produced by ACTIVAGE will be the creation of a **standards-based IoT Ecosystem for Health and AHA** that includes a **“Person Centered Data Management Framework”**

TOWARDS AND IOT ENABLED SOCIETY



We got DATA



Give us
SOLUTIONS!!



IOT ON ACTIVE & HEALTHY AGEING

Thank you for
your attention

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