



our homes, our cities

tecnalía

MEMBER OF BASQUE RESEARCH
& TECHNOLOGY ALLIANCE



ECTP
INNOVATIVE BUILT
ENVIRONMENT

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The role of the built environments in the health and well being
Madrid 2nd December 2021

TECNALIA



A QUICK DEFINITION

Healthy ageing \neq absence of disease

People's ability **to do the things they value most**

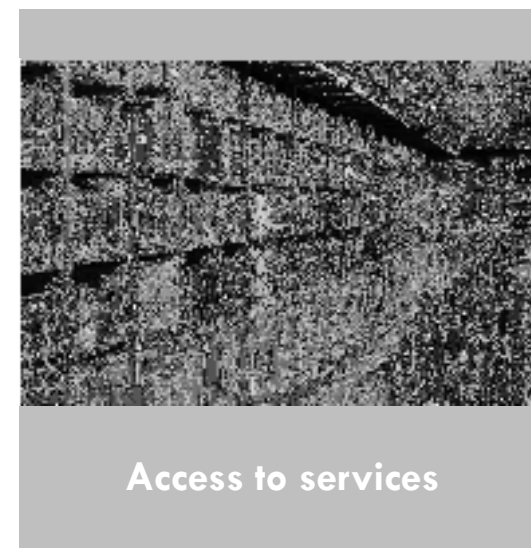
Depends on = intrinsic capacity + **the environment in which a person lives**



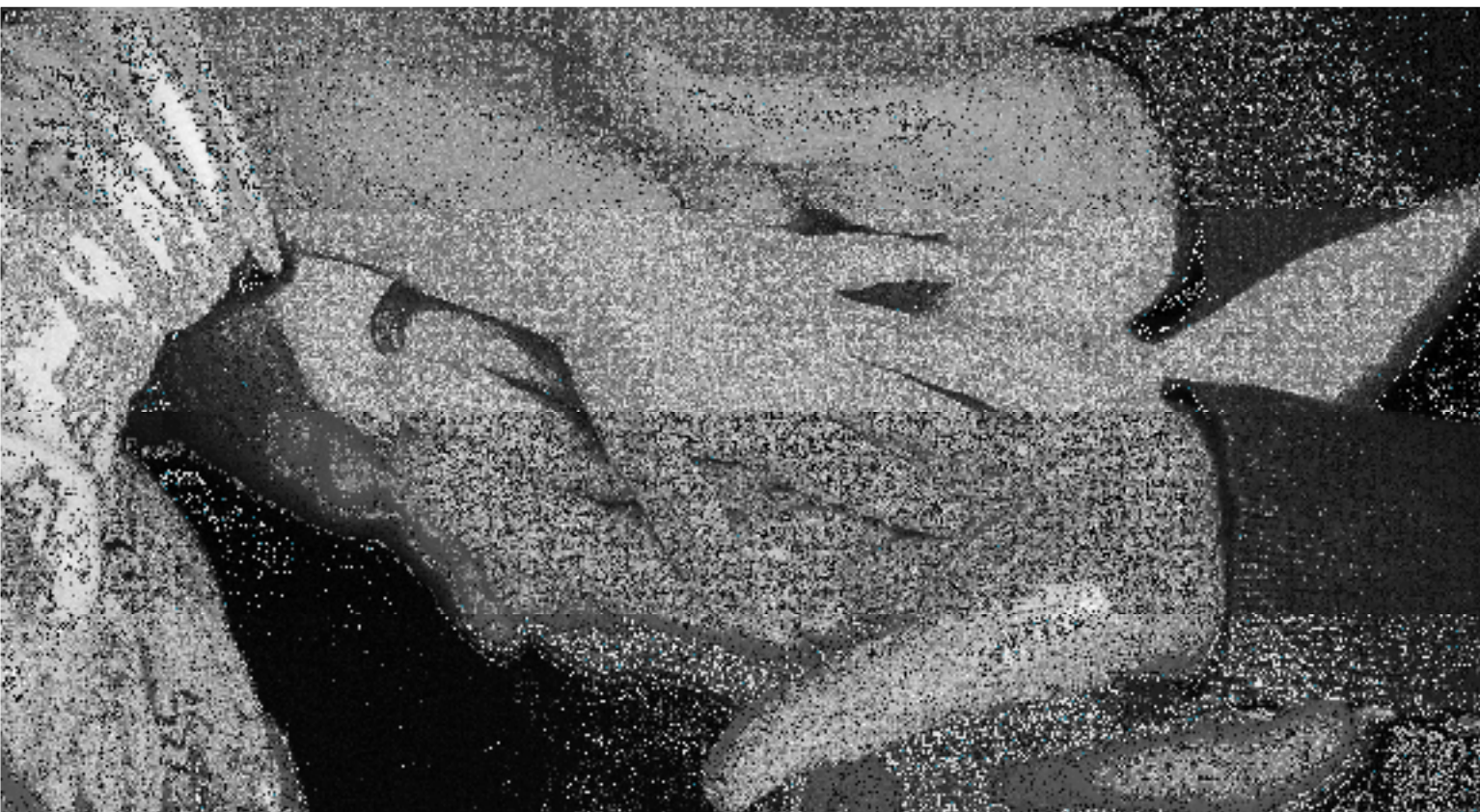
Loneliness & Isolation



Accessibility
and habitability



Access to services



This project has received funding from the Horizon
2020 Programme under Grant Agreement n°826295



HOMES4LIFE

Certification for Ageing in Place



building
 personal connectivity
 care safety health affordability neighbourhood emotional employment
 smart capacities
 accessibility preferences home activity privacy well-being
 dignity choice all-life-course
Homes4Life
 comfort social orientation identity

ABOUT US



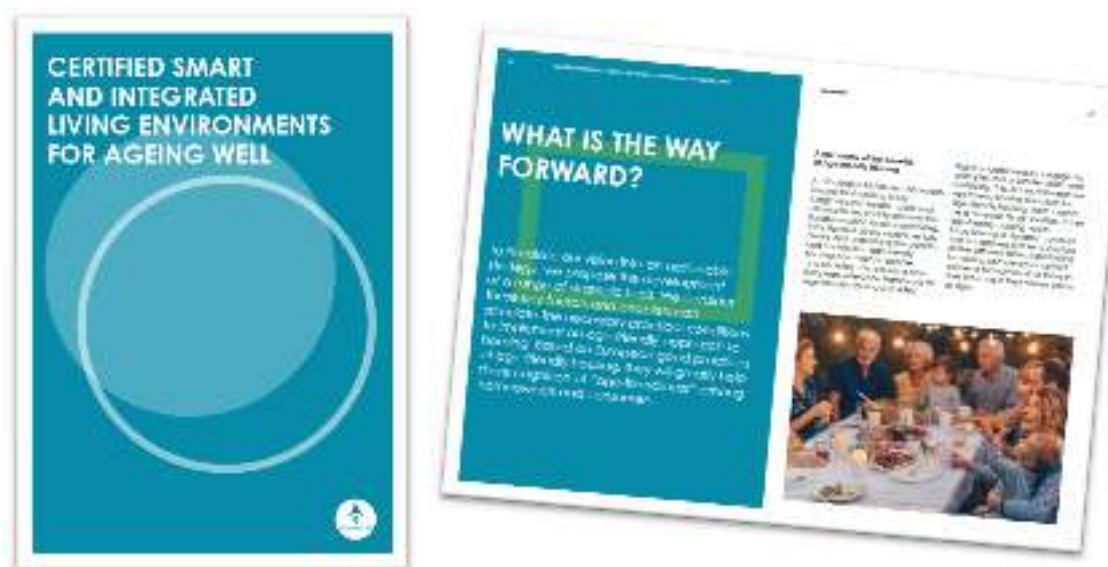
Project started in December 2018 – 27 months

9 partners from 5 EU countries

- TECNALIA | Spain (coordinator)
- TNO, Utrecht University | Netherlands
- Università Politecnica Delle Marche | Italy
- Certivéa and its subsidiary Cerway, R2M Solution | France
- ECTP, AGE Platform Europe, EUROCARERS | Belgium

MAIN OUTCOMES

- **Homes4life Vision:** The H4L Vision is a document outlining the sector vision at 2040. The Vision will provide guidelines and tools for stakeholders that have to create business and policies about age-friendly environments.



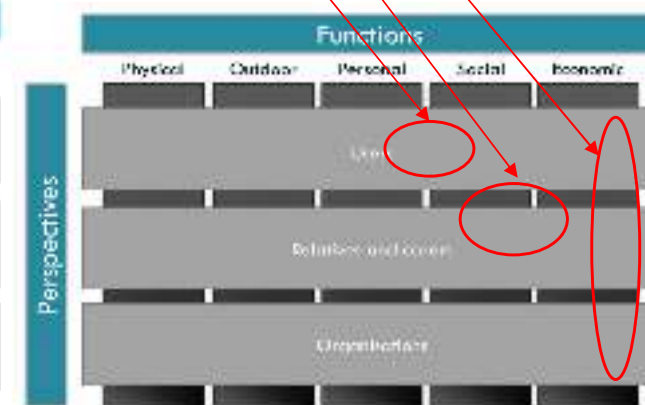
MAIN OUTCOMES

- **Taxonomy and KPI definition methodology:** The working taxonomy of age-friendly homes presents a structured and detailed breakdown of what it means for a home to be age-friendly. The KPI-framework uses the taxonomy as its structuring principle.

- Needs
- Preferences
- Effects



“Hot spots” and “hot zones”



MAIN OUTCOMES

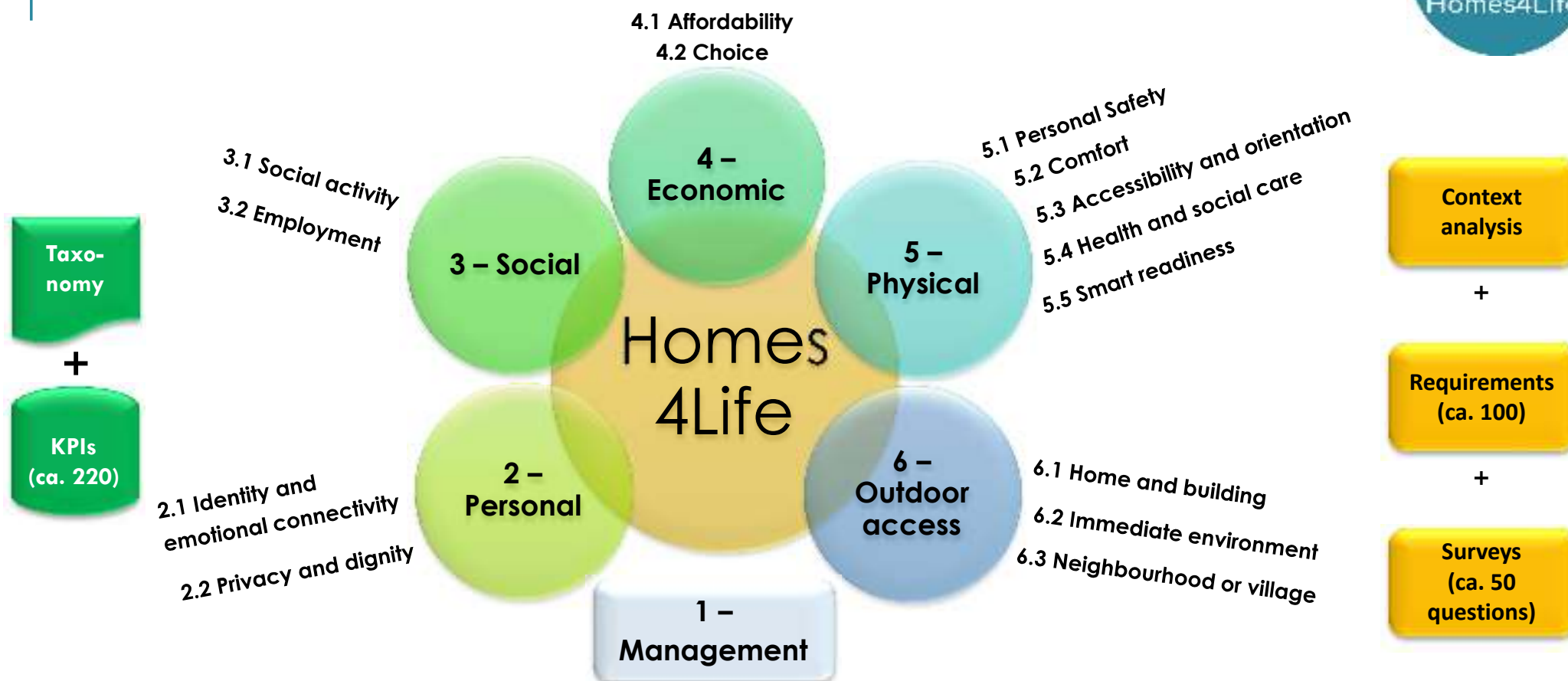


- **Homes4life Certification Scheme:** A new European Certification Scheme for age-friendly housing in Europe. The scheme is based on a long-term vision of people's needs and requirements built upon a holistic life-course approach and a new conceptual framework for age-friendly housing.





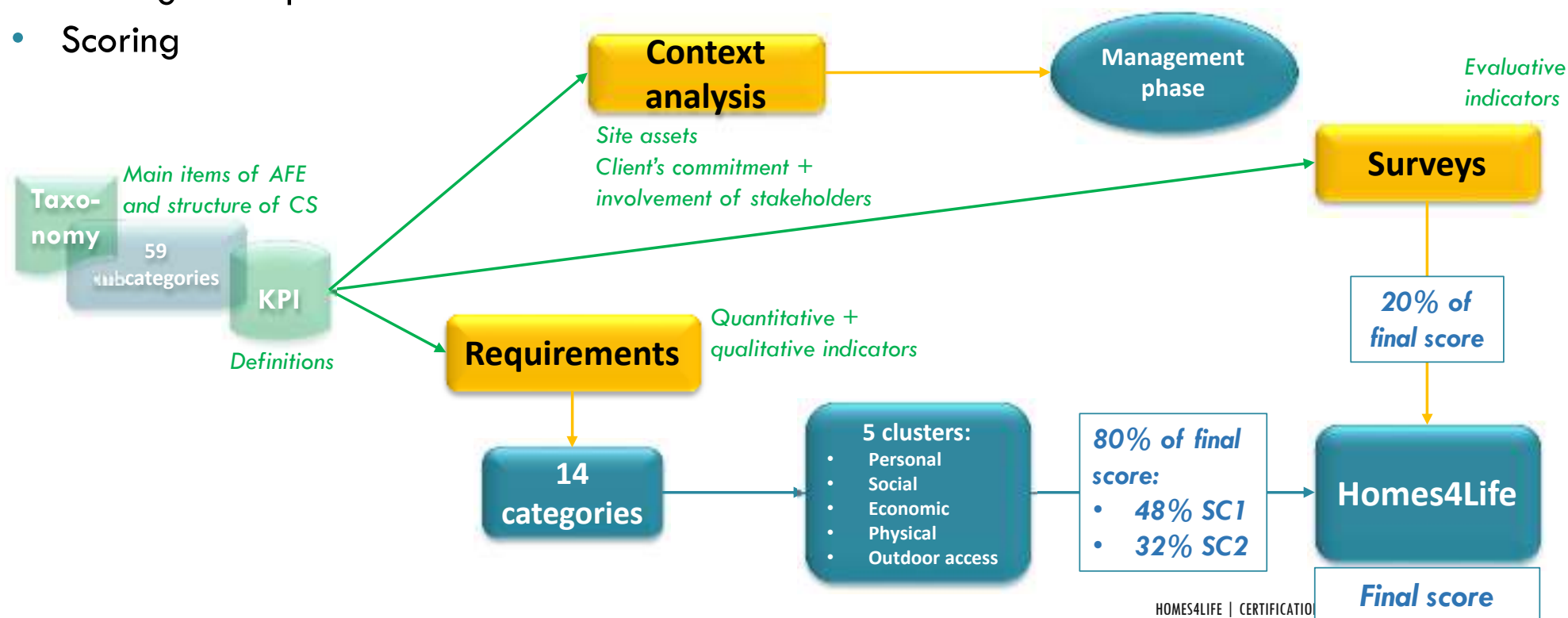
CERTIFICATION SCHEME STRUCTURE





VALIDATION OF THE CS

- General structure
- Management phase
- Scoring



VALIDATION OF THE CS

- Awards



Award

- No medals
- Certified if score $\geq 60\%$ points



Qualification of the level achieved

- Good practices ($\geq 60\%$)
- Very good practices ($\geq 75\%$)
- Best current/known practices ($\geq 90\%$)

VALIDATION OF THE CS



Pilot sites

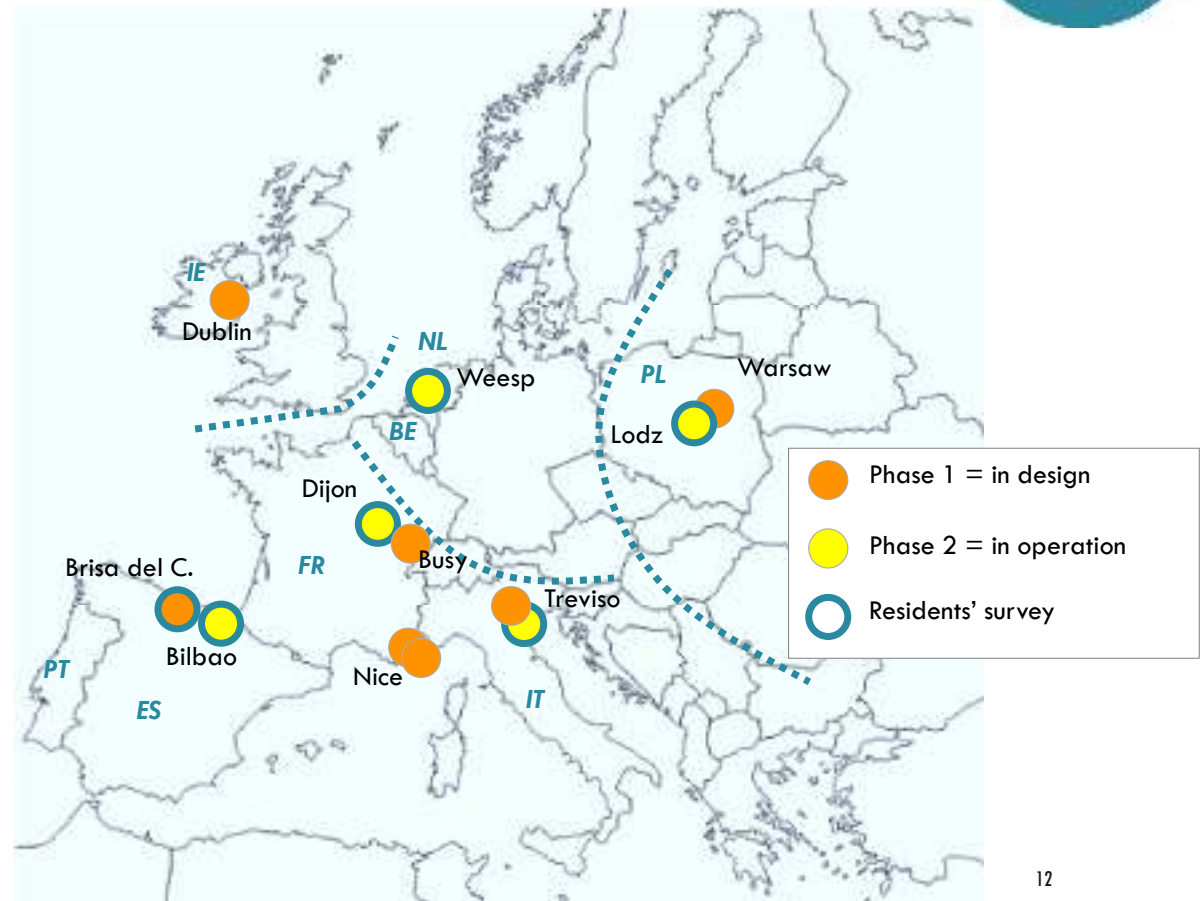
- 10 pilots/12 buildings in 4 European areas
- Public or private organisations

Test phases

- Phase 1: sites in design phase (Spring/Summer 2020)
- Phase 2: sites in operational phase (Autumn 2020)

Sources

- WP2





TO THE MARKET: WHO IS BEHIND ? MANAGEMENT OF THE CERTIFICATION

WORK WITH US !

- **Get your buildings certified !**
- Join the **Advisory Committee** of the certification (open call will be launched by Certivea / Cerway)
- Become an **accredited trainer / assessor** (especially in EU members states where we are not yet present)

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Enhanced URBAN planning for AGE-friendly cities through disruptive technologies

An enormous untapped potential in the use of disruptive technologies in Public Sector to support **evidence-based decision-making processes** and **the impact** that such technologies may have in the current urban planning practice **is yet to be assessed**



URBANAGE will assess the potential **benefits, risks and impact** of implementing a **long-term sustainable framework for data-driven decision-making in the field of urban planning for aging well in cities**, by means of an engagement strategy with relevant stakeholders and users, supported by disruptive technologies such as **Urban Digital Twins, Big Data Analytics, Artificial Intelligence, and Gamification**



Grant Agreement n. 101004590

URBANAGE Consortium

12 partners from 6 European countries with an excellent complementary background



Grant Agreement n. 101004590

Age-friendly environments

'Cities are, for the most part, spaces that are imagined and structured with a younger, working age demographic in mind. Older people are not, typically, incorporated into the mainstream of thinking and planning around urban environments' Handler (2015:12)

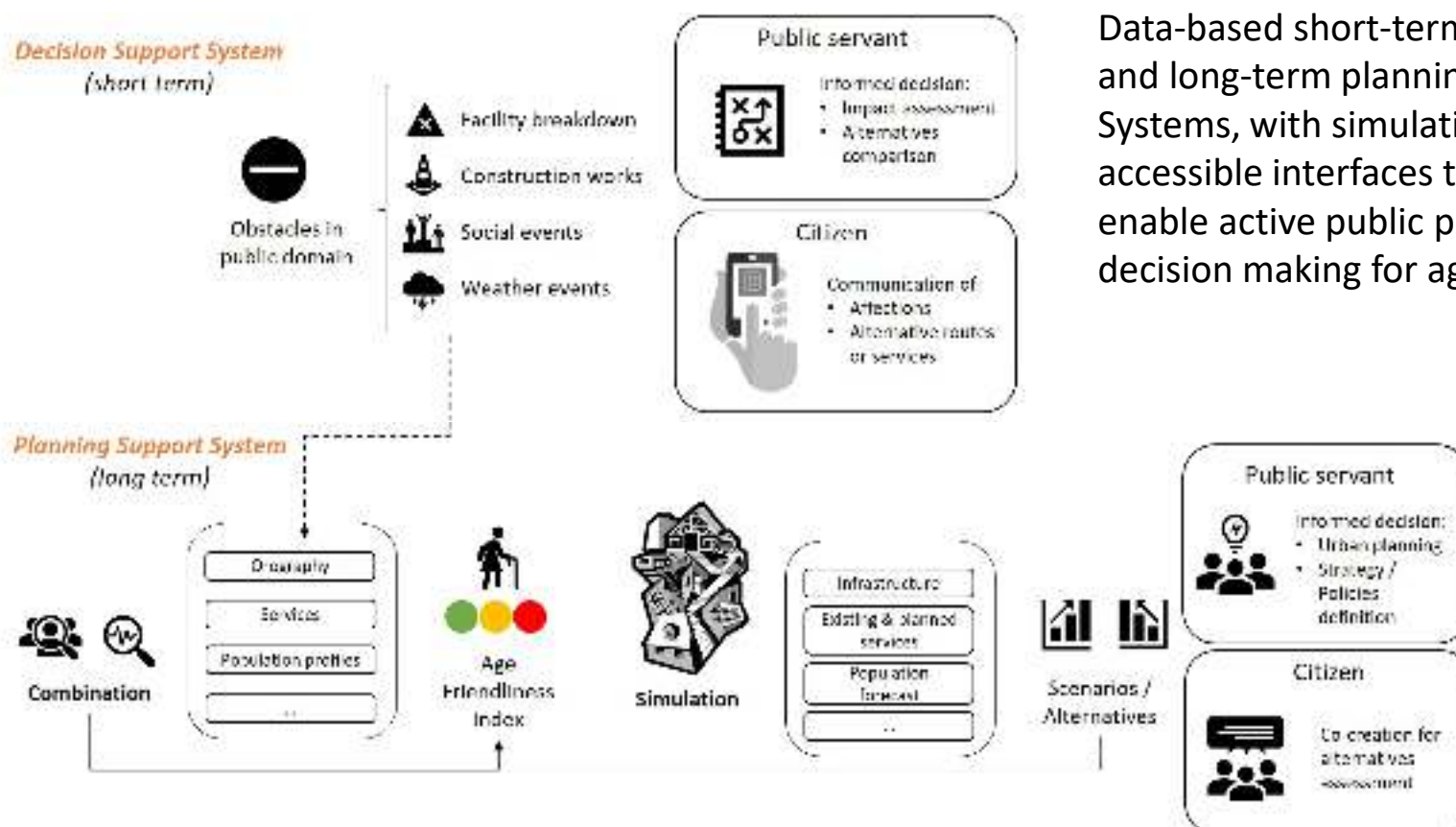


Analysis, modelling and simulation of physical conditions for ageing well in cities: **accessibility** and safety in all areas of the physical environment, including public spaces, streets, public transport and housing, as well as the location of public equipment and services or the access to community services.



Grant Agreement n. 101004590

Urban planning and management



Data-based short-term management and long-term planning Support Systems, with simulation capacities and accessible interfaces to inform and enable active public participation in decision making for age-friendly cities.

“ Physical environments ~~can~~^{must} be co-created with older people and older people’s associations. “

SANTANDER



HELSINKI



FLANDERS



Grant Agreement n. 101004590

Stakeholder engagement in decision-making

Co-creation strategy to:

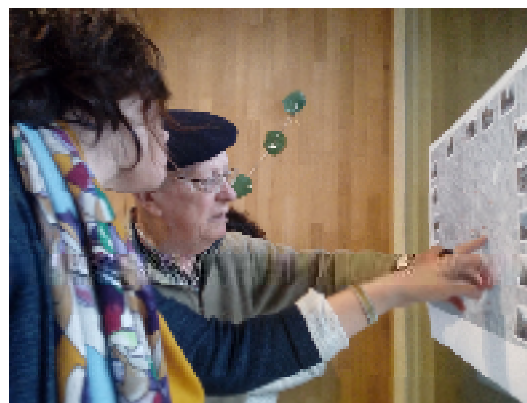
- assess the potential **benefits, risks, impact and acceptance**.
- **Co-define challenges & solutions**

Need to engage 2 target groups:

- Public servants
- Older citizens

Gamification techniques to involve older adults.

Importance of ethic and legal consequences.



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CASE STUDIES

Santander

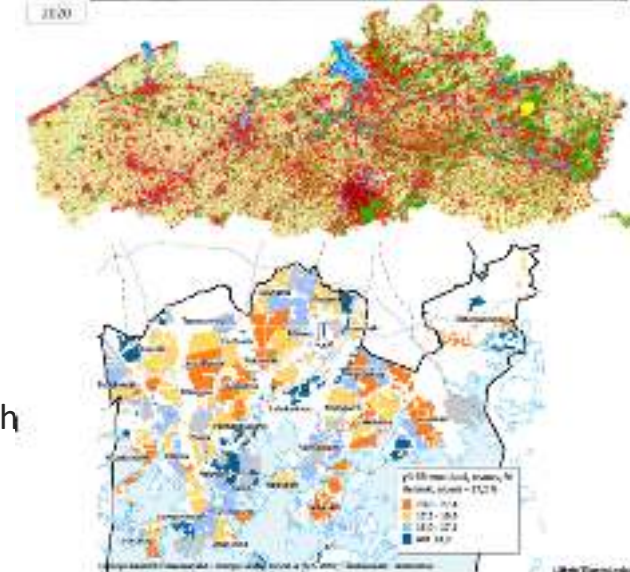
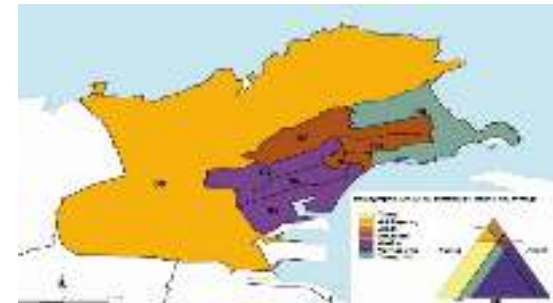
- Accessibility facilities information
- Neighborhood assessment for PGOU review
- No previous digital twin
- Large amount of data from people and city sensors

Flanders Region

- Pilot in a municipality to be chosen
- Interest in management of obstacles on public areas
- Evaluation of services and equipment for the elderly population
- Previous digital twin of the region (DUET)

Helsinki

- Real-time information provided by citizens, active participation
- Application with accessibility map in real time
- Previous digital twin in the Kalatasama district, but it will be applied in a reduced area, with high percentage of elderly population.



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Santander Use Cases after CCs

Short-term



Medium-long-term,

the aim is to provide a tool to the public administration about how to improve the **age friendliness neighbourhood index** of an specific neighbourhood(urban accessibility, access to public services....) helping them to make decision about which are the optimal places to install a mechanical ramp or a lift or in which places is needed a specific public infrastructure (civic center, library ...) or public space (parks or green areas) .

**MULTI-CRITERIA ANALYSES
DECISION MAKING TOOL**



Grant Agreement n. 101004590



<http://www.homes4life.eu/>



<https://www.urbanage.eu/>

THANK YOU FOR YOUR ATTENTION!
GRACIAS POR SU ATENCIÓN

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