





# Co-developing the future digital solutions for better aging

Higher education embracing co-development with companies and end-users

Dr. Toini Harra, Metropolia UAS









The project will be funded as part of European Union response to the covid-19 pandemic.



## The old age to working-age ratio will almost double in next 40 years

65+ People Share of Population in Finland in 2019

Amount of 65+ 1,21 M (21,9%)

(total population 5,52 M)

#### About 35% of 65+ Finnish are living alone

#### Elderly housing situation +75 at the end of 2020

92% In a regular home mainly in owner-occupied housing

**7.3**% Assisted living in a service house

**0.7**% In hospital

THL, Sotkanet 2021

United Nations Population Division, World Population Prospects 2019 population.un.org/wpp/Download/Standard/Population/



#### Digital Solutions for all Phases



#### **Third Phase**

- Wellbeing and more freetime
- Delay the transition to other stages

#### **Preparative Phase**

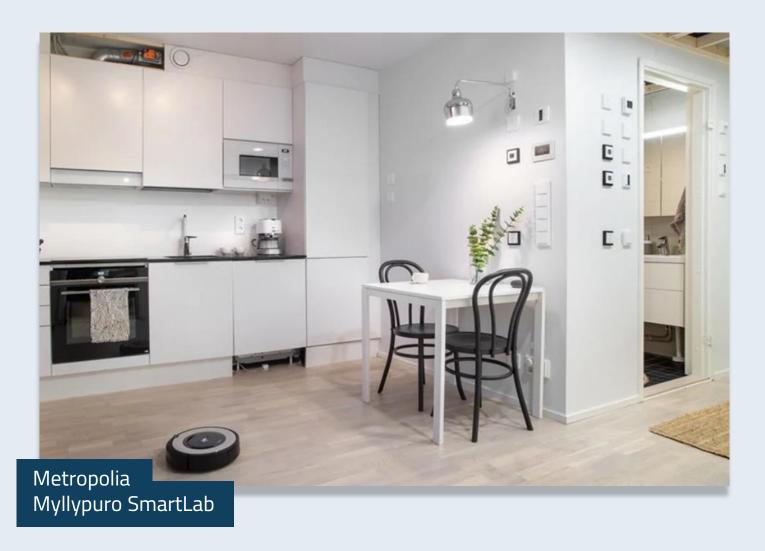
- Frail in body and mind begins
- Changing living conditions

#### **Fourth Phase**

- Dependence of others
- Meaningful life in assisted living



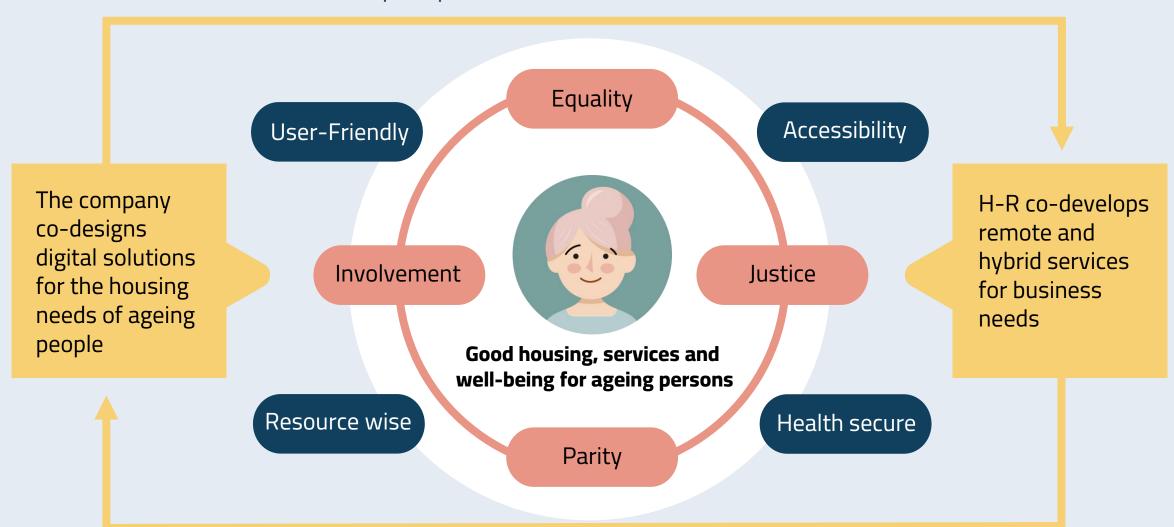
#### Adaptive housing for elderly in the future





#### HIPPA-Remote 2021-2023: Principles and values

All activities are based on horizontal principles of EU

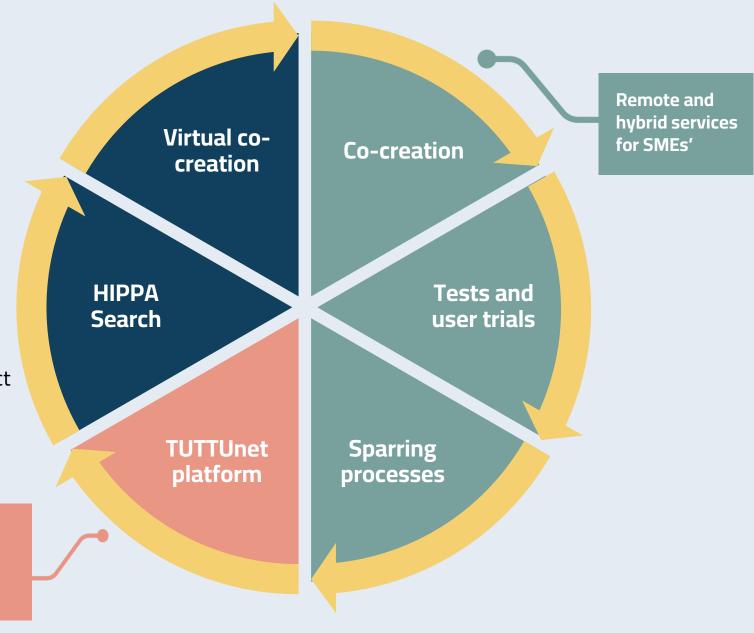




### Activities of HIPPA Remote

- Current project
- Ongoing development from the last project
- Previous project

**Open access**models, information,
insights, studies and
services for all





#### **Co-development for two purposes**

Digital solution co-development



Thematic co-developer clubs

Harra & Lintula 2020 Read the article





#### Digital solution co-development

#### **Purposes**

- To co-create added value
- Test and user trial planning in co-creation

#### **Participants**

 Business partner, end-users, researchers, students and other stakeholders

#### Modes

- F2F
- Remote
- Hybrid

#### References

- co-creation processes (n=28)
- testing services and user trials (n=25)
- testing in authentic service house environments (n=21)



#### Thematic co-developer clubs

#### **Purposes**

- Building up networking
- Utilize multidimensional voice
- and co-create better understanding

#### Method examples

- 'Time out' method
- Personas
- Comparison of virtual environments

#### **Participants**

 Business partners, elderly, relatives, researchers, students and other stakeholders



#### **TUTTUnet**









#### **HIPPA-SEARCH**

















Omakotitalo Varsinais-Suomi



Palvelutalo, Uusimaa

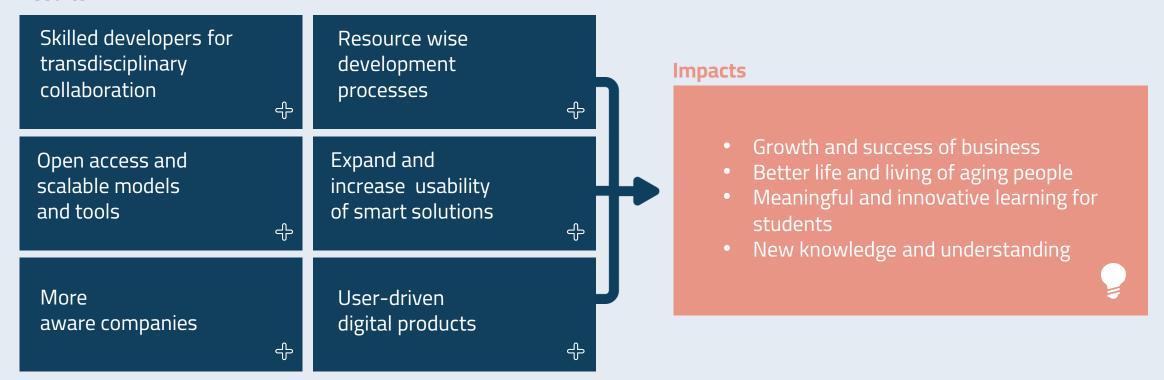


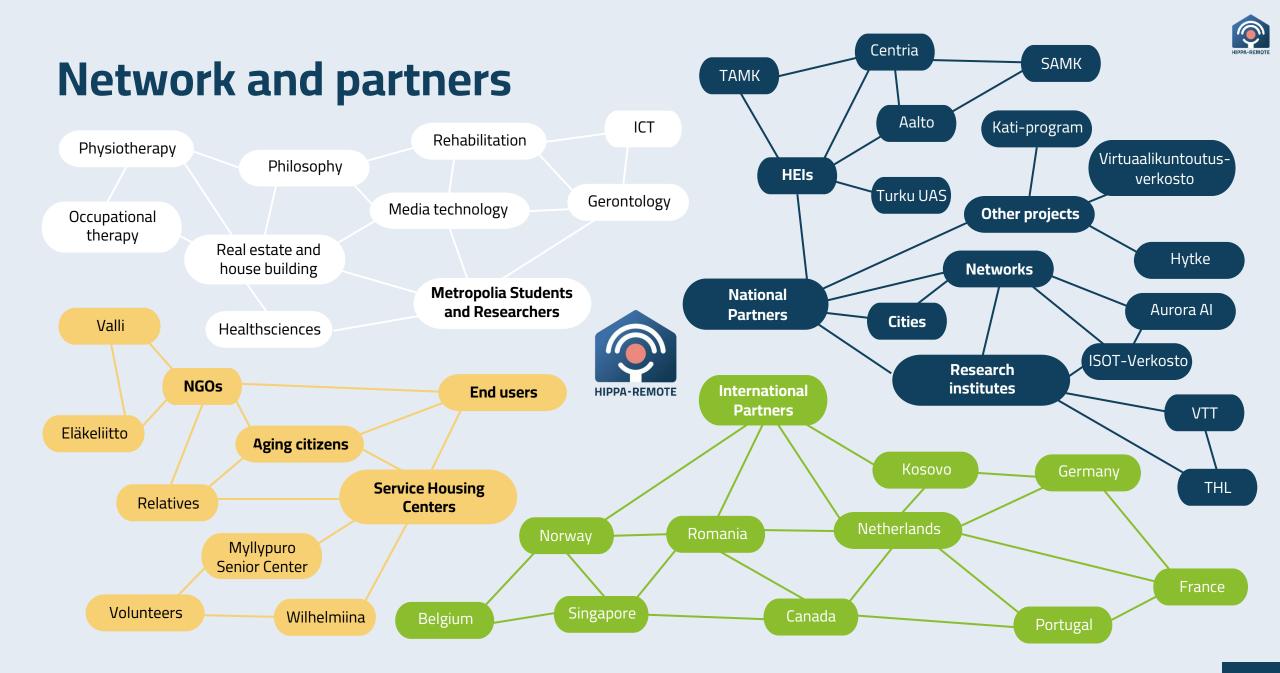




#### **Results and impacts**

#### Results







#### **Business partners**

















































Medeka



































# Co-developing the future digital solutions for better aging

Join HIPPA-Remote!

Toini.harra@metropolia.fi









