



ACTION PLAN

Partner: Pannon Business Network Association
Region: West-Transdanubian (HU)

May 2022



European Union
European Regional
Development Fund

Contents

1. Abstract in English	2
2. Introduction.....	3
3. Process and Monitoring of the Action Plan.....	3
3.1 Action Plan.....	3
3.2 Aims and backgrounds.....	4
3.3 Implementation and monitoring.....	5
3.4 Supporting projects	7
4. Actions	9
4.1 Action 1: Smart Senior Room	9
4.1.1 Introduction.....	9
4.1.2 Implementation.....	10
4.1.3 Participants.....	12
4.1.4 Finance.....	12
4.1.5 Timetable.....	16
5. Signature.....	17

1. Abstract in English

Pannon Business Network Association located in the West-Transdanubian region, Hungary. PBN is an internationally oriented organisation, having participated in over 75 international partnership and research projects with more than 450 partners. Since 2016 the key domain is digitalization, leading to establishment of the first Hungarian digital innovation hub – am-LAB. Additional competency area was developed in a decade, involving the health and care sector. It started with product and application developments – mobile app for combatting mild cognitive impairment, real-time diagnostics visualisation with Ericsson, hospital innovation support methodology in Central Europe, etc. – than continued with home care market analysis. Finally, it led to the establishment of an additional department, focusing on digitalization in senior home care.

Based on the Finnish good practice in the INTENCIVE project – “Showrooms to demonstrate technological solutions related to health and wellbeing” PBN established the at.home - Smart Senior Room at the end of 2021, which is a Pilot Project and also the Action 1 of the regional Action Plan in the INTENCIVE project.

The Action Plan aims to impact: Szombathely 2030-Local-city level- Policy instrument, which was approved by the city and involved representatives in September 2021. Szombathely2030 is the strategic policy framework for the region, focusing on health- and social care, both with respect to FDI (Foreign Direct Investment) generation and community building. The Smart Senior Room is an important part of the programme.

The at.home/Smart Senior Room is focused on 4 main activities: Demonstration, Training, Research and Testing. PBN plans to organise study visits and policy maker workshops where the target groups can reach an increased capacity. Practical trainings will be continuously organized to different target groups: elderly and their relatives, secondary and higher education institutions, and companies. At local level there is a high interest from stakeholders’ side in the training possibilities: 3 interested parties (University of Pécs, Szent-Györgyi Albert Medical and Vocational School, Pálos Károly Social Service Centre, and Child Welfare Service) are already engaged to extend their training modules with practice in the Smart Senior Room.

Ensuring the durability, the Smart Senior Room will be the basis to elaborate strategic flagship projects in the current programming period 2021-2027 (e.g. Horizon Europe, ERDF, AAL, etc.) to ensure further developments of the facility.

2. Introduction

INTENCIVE project involves the West-Transdanubian region as statistical region of Hungary. Western Transdanubia in Hungary is bordering Austria, Slovakia, Slovenia, and Croatia, with app. 1 million people living in the 3 counties of the region: Vas, Győr-Moson-Sopron and Zala.

It is one of the fastest growing regions of the entire European Union, reaching nearly 80% of the EU average with respect to GDP per capita (from app. 55% a decade ago).

In the county capitals Szombathely and Győr the role of automotive multinationals and manufacturers for electronic components is decisive. In Szombathely and Zalaegerszeg the wood and furniture industry are significant and is based on locally available natural resources. Further notable sector is metal industry and machinery with local and multinational companies in all 3 county capitals.

Focusing on Szombathely the five largest industrial employers represent 30% of the total employment, 95% of the city industrial tax income. In Szombathely the local companies are mostly in the service sector – retailers, training and human-resources connected service providers and further players of the tertiary sector.

3. Process and Monitoring of the Action Plan

3.1 Action Plan

The originally targeted Policy Instrument in the INTENCIVE project was the Economic Development and Innovation Programme (EDIOP) for the 2014-2020 programming period which was focusing in the frame of Priority Axis to the “Research, development, innovation” activities. The targeted Policy Instrument was closed already in 2020 therefore PBN as the project partner has to be revised the possible new Policy Instruments and the Szombathely2030 was shown as a more relevant tool to be influenced by the project activities. The 1st PI was the continued version of the original policy instrument, the Economic Development and Innovation Programme Plus (EDIOP Plus) for the 2021-2027 programming period. The program is under negotiation with the EU and at the moment of the decision it was not foreseen when it will be accepted. On the other hand, PBN was took part in the process of designing the Szombathely2030 Program and it is ensured to be influenced by the project and the elements of the action have been built in the document. This policy instrument can support better the implementation of the action during the monitoring phase of the project. In this written document PBN focuses on Szombathely2030 as new Policy Instrument.

The Action Plan aims to impact:

<input type="checkbox"/>	Investment for Growth and Jobs programme
<input type="checkbox"/>	European Territorial Cooperation programme
<input checked="" type="checkbox"/>	<u>Other regional development policy instrument</u>

Name of the policy instrument addressed:

Szombathely 2030-Local-city level- Policy instrument, approved by the city and involved representatives in September 2021

3.2 Aims and backgrounds

Szombathely2030 is the strategic policy framework for the region, focusing on health- and social care, both with respect to FDI (Foreign Direct Investment) generation and community building. The economy of Szombathely is extremely fragile as it is purely dependent on the automotive industry. The pandemic of 2020 demonstrated the vulnerability of the one-leg structure, urging the need for diversification. To be able to introduce new production profile – healthcare related manufacturing – the entire ecosystem must be involved. It is a transformative change, covering from research-and-development areas through new institution developments to mindset shift by promoting industrial transformation and specializing on complex rehabilitation within the health industry. Smart Senior Room is an important part of the programme.

Together with the city representatives and other stakeholders, PBN representatives were contributing to elaborate the city level-policy strategic document. PBN was also contributing to the strategy with giving inputs on its international experiences and competencies, defining flagship projects in the manufacturing and health related sessions, as well as it was also checking the stakeholders' contributions and incorporating them into the final strategy.

The idea of the action came from the learning process in the INTENCIVE project which started with a bilateral study visit at PP2 SeAMK showroom during the Kick-off meeting in October 2019 and continued with the BIKVA analysis related to the good practices at regional level.

Seinäjoki University of Applied Science in South Ostrobothnia region, Finland shared a good practice called "Showrooms to demonstrate technological solutions related to health and wellbeing" in the frame of exchange of experiences process of INTENCIVE project. The objective was to build physical contact points (showrooms) to demonstrate modern equipment and services related to telemedicine, eHealth, robotics, artificial intelligence, and mobile health. The showroom at PP2 SeAMK can benefit local companies, both in IT and in health- and wellbeing sector, when they want to develop themselves and plan new services. Also, education and research can utilize showrooms in their actions.

After the study visit the good practice and lessons learnt were introduced to the local stakeholders who are very keen to start a similar initiative also in West-Transdanubian region and a formal agreement was signed between the local social care institution and Pannon Business Network to cooperate on the implementation.

PP3 PBN contacted PP2 SeAMK and share the concept with the representative of the university. PBN got to know more about the ecosystem in South Ostrobothnia especially with focus on e-health. Defining the scope of the Smart Patient Room there were many contacts made with PP2 SeAMK to go deeper in experiences of realization e.g. direct communication related to the purchased equipment.

Elements transferred from the PP2 Good Practice include:

- 1. infrastructure development** - furniture and equipment for a bedroom - which can be showcased as a normal elderly person's room. Pilot room will act as a demonstration environment where different actors can visit and learn. For example, smart carpet; adjustable tabletop next to the bed, rolling, braked; smart watch to monitor heart rate, blood oxygen, ECG, fall detection, malaise, activity; smart blood sugar meter; telemetric system; dog barking simulator, etc.
Due to the pandemic situation the demand for health monitoring has grown dramatically. Equipment purchased in the frame of the pilot project includes self-monitoring of seniors, also remote follow-up of health status from the side of the informal caregivers. However, the flexibility of care organizations is also in the focus of the service characteristic. Enabling service providers to adapt to various fluctuation of demand is essential, and the Smart Senior Room concept is a tool to educate the ecosystem members in that direction. It is equally valid for seniors, formal and informal caregivers.
- 2.** During the preparation and the implementation PP3 is continuously in contact with PP2 to exchange experience on how the Finnish showroom as teaching and research unit was **integrated to the host organisation and to the university** as demonstration and training facility. During the pilot project one Smart Senior Room will be implemented to PP3 premises. PP3 has already discussed with University of Pécs which actions have to be taken **to build in the local ecosystem**. University of Pecs will be an important stakeholder for the pilot project. The purpose of the pilot project is also to establish collaboration with universities and educational institutions in the West-Transdanubian region. PP3 relies also on PP2's experiences in infrastructure development, accessibility and demonstrability. Furthermore, the lessons learnt on development process of the equipment (how can GP evolve from the standard to developed equipment with added value e.g. robots in healthcare) is also a learning point which will be transferred to PP3. Also, investigate how to join the pilot project to different national and international cooperation.
- 3.** As the pilot project is also a teaching facility the **training materials** will be elaborated in close cooperation with the GP owner. PP3, together with key stakeholders in the region, would design and execute the training materials as well as the actual trainings. The trainings will be held by 2 engineers part time supported by the project management team.

3.3 Implementation and monitoring

The implementation of the Action Plan is ensured by PBN's active participation in the strategy elaboration process. The starting point of the strategy was the **Local Economic Development Conference** organised by PBN and City Szombathely with 100 participants including CEOs, governmental actors, local companies, and NGOs in February 2020. As the results of the conference and further coordination meetings a Cooperation Agreement between the city and other relevant actors of the county was launched to promote the success of the region in digital competition. Based on this agreement City of Szombathely joined to the European digital smart cities program - www.living-in.eu - with the signature of the Mayor of Szombathely. As the city is taking part in the **ICC Program** (Intelligent Cities Challenge) the elaboration of a resilient knowledge-

based economy was started in June 2020. By the end of the year 2020 the **Szombathely2030 strategic program** was designed by the local stakeholders (city, BSOs, universities, etc.) with the objectives on (1) promoting industrial restructuring (1a. Strengthening the existing manufacturing companies and 1b. attracting health industry) and (2) promotion of a green smart city.

In 2021 the process of **public participation** was started, and cc.1000 inhabitants and large company leaders expressed their opinion on the strategy which were built in the final document. In May 2021 in the frame of the **Prime Minister's conciliation** an operational task force launched to support the strategy at national level as well.

In parallel with the national legislations the City of Szombathely with the coordination of PBN took part in the **Interreg Europe Peer Review** meeting on 29-30. June 2021. The 2-days event was organised by the Policy Learning Platform involving 5 peers across Europe to support the region in attracting of manufacturing industries in the health sector. Szombathely started from a broad concept, and after two days it ended up with complex rehabilitation orientation and with loads of content-related thematic elements.

During the summer 2021 the key projects were defined and a **cooperation agreement** of 7 organisation including 3 universities was prepared and officially **signed** in August. In September 2021 the **Prime Minister's conciliation on the financing schedule** was started to gain resources for the key projects.

The lessons learnt in the exchange of experiences process within INTENCIVE project are constantly built in the Szombathely2030 Strategy. By learning about the good practices in other European regions and evaluating the Hungarian practices by the BIKVA methodology, as well as the study visits in which besides PBN's staff and local stakeholders were also taken part led finally to the decision of the stakeholders to define "**Creating a Smart Senior Room**" as an Action for the Regional Action Plan.

The Action is included into the Szombathely2030 Strategy as focus on the **complex rehabilitation as an internationally unique development and test environment**, ranging from households to senior homes and thermal baths to virtual hospital infrastructure. There is a particular emphasis on sports, stroke, and musculoskeletal rehabilitation. It combines academic and applied research with user needs. Attracting health industry **1.1.2 Health Science and Technology Park** contains the concept of the Smart Senior Room (at.home) as creating "Test before invest environment". Furthermore, it also linked to the chapter **1.1.3 Healthcare training and attitude formation** as supporting the digital skills of future workforce by offering practical place for educational institutions. Within the Green and Smart City pillar the Chapter **2.5 Smart City Pilot projects** includes the health and home care supports for elderly (2.5.6) especially highlighting the extending the Alarm system for elderly as the result of BIKVA analysis in the INTENCIVE project.

During the project duration and in the Phase2 the implementation of the Action Plan is ensured on the one hand due to the obligation to carry out the Smart Senior Room **pilot project** and on the other hand by the active participation of PBN who is in charge to coordinate together with the City of Szombathely the stakeholder working group. The working group has **regular meetings** at least quarterly where the actual status of the implementation is discussed. The next event is foreseen by the end of the project (July 2022). All results from the realization of the action will be communicated to the stakeholders (policy makers) at local, national and international level by bilateral and group meetings to have an impact on new calls.

3.4 Supporting projects

Pannon Business Network Association has a more than 10 years experiences in business developments with the topic health and social care. These developments were carried out at national to international level:

Decade of Care and Health Sector Involvement



INTENCIVE

INTENCIVE: (INTERREG EUROPE): smart senior room equipment related to furniture, self-monitoring of health status and supporting applications for social caregivers. INTENCIVE project – through its peer review from the Finnish partner – could contribute to the **equipment elements** of the room as well as to the elaboration of **training materials**

<https://www.interregeurope.eu/intencive>

There are complementary actions financed by the Interreg Central Europe programme that contribute to the regional strategy but that the actions submitted to the Interreg Europe programme are independent both in terms of finances and activities and implementable with no funding from other sources:

4STEPS project

4STEPS (INTERREG CENTRAL EUROPE): The equipment (being requested to be purchased in WPT2 Act2.3 DIH Development) related to **smart home applications** for improved life-quality of senior people, and it is going to be also beneficial for companies in the **utilisation of the data from the equipment**.

<https://www.interreg-central.eu/Content.Node/4STEPS.html>

INTENCIVE

INnovation and Technology ENhancing Customer Orlented Health SerVicEs

PGI06004

Chain Reaction project

CHAIN REACTIONS (INTERREG CENTRAL EUROPE): In the Chain Reactions the focus is the **application of advanced technologies** in a smart senior care environment. The equipment purchased in the framework of Chain Reactions are related to **monitoring of vital parameters** in clinical quality, implementation of personal robot and virtual reality applications.

<https://www.interreg-central.eu/Content.Node/CHAIN-REACTIONS.html>

BRIDGES

The international relevance and opportunities of the rehabilitation-oriented “knowledge-intensive manufacturing” program of Western Transdanubia (including the Szombathely 2030 program and the at.home initiative) through **value chain mapping**.

<https://www.interregeurope.eu/bridges/>

4. Actions

4.1 Action 1: Smart Senior Room

The Smart Senior Room is a complex micro-environment, integrating multiple elements of the smart room dedicated to senior people and care organizations and functioning as a demonstration, dissemination, testing and research facility.

4.1.1 Introduction

The phenomenon of an **ageing society** is a global trend that we cannot ignore. While today 1 in 5 people is over 65, in 10-15 years 1/3 of society will belong to this age group. This dramatic increase will put additional strain on an already 100% functioning care system. A growing proportion of older people will be forced out of the **care system**, and families will have an increasing responsibility to care for their loved ones, who will increasingly be forced to live alone in their homes. The at.home/Smart Senior Room aims to facilitate this process by offering them the possibility to use the tools available on the market in a real environment.

In line with global trends, the same is happening in the Western Transdanubian region. Recognising this, the local city government has taken the initiative to strengthen the existing industries and to establish a new industry in the area, for which a structured development plan has been developed in the framework of **Szombathely2030**. The aim is to find an adequate response to demographic and economic structural changes, so that the economy of Szombathely can be resilient. Within the strengthening of the **health industry**, structured support is to be provided in the future for rehabilitation-focused developments based on local assets.

Building on 1.5 decades of **experience in enterprise development**, Pannon Business Network has participated in the elaboration of the development plan and, with the involvement of **am-LAB digitalisation laboratory**, is able to support the development processes of businesses with the most modern Industry 4.0 solutions.

The health, social and elderly care activities and projects are carried out in a national, cross-border and international context. The combination of many years of experience and global trends has led to the desire to address the issue of home care in an organised framework. So at the end of 2021 PBN established the at.home Smart Senior Room based on the Finnish good practice, which is the Action 1 of the regional Action Plan in the INTENCIVE project.

The at.home/Smart Senior Room is focused on 4 main activities:

Demonstration - The Smart Senior Room offers the possibility for visiting the room and testing, showcasing the available equipment for all interested parties. PBN plans to organise study visits and policy maker workshops where the target groups can reach an increased capacity. The equipment of the demonstration room will be maintained and further developed by different projects (national project calls and international innovation/R&D/cooperation projects).

Training – The educational and training organisations at different levels as well as institutions or companies in social care can use the smart senior room platform as practical training facility built in the official training courses. Cooperation agreements between the Smart Senior Room and the training institutions could ensure the long-term durability of the pilot project. At local level there is a high interest from stakeholders' side in the training possibilities: 3 interested parties (University of Pécs, Szent-Györgyi Albert Medical and Vocational School, Pálos Károly Social Service Centre, and Child Welfare Service) are already engaged to extend their training modules with practice in the Smart Senior Room. Collaboration programs generate further projects in the field of training e.g. in ERASMUS+ or in the national operation programs.

Research and Testing – In order to ensure durability, the Smart Senior Room will be the basis to elaborate strategic flagship projects in the current programming period 2021-2027 (e.g. Horizon Europe, ERDF, AAL, etc.) to ensure further developments of the facility e.g. AI based camera development to recognize accidents with seniors at their home, integration of robot solutions, etc.

The projects could finance skills developments, know-how transfer, product developments, higher TRL performance.

4.1.2 Implementation

1. The creation of the at.home room started with an **assessment of the current situation**. PBN provided an applied research tool for optimization of the services in the framework of INTENCIVE project by using BIKVA model. During the analyses, we conducted an interview survey involving 32 elderly people and 5 caring women about the use of the alarm bracelet as one of the Hungarian Good Practices in the INTENCIVE project. The questionnaire survey was supplemented by the analysis of demographic data and the processing of previous alerts in the system, from which the following conclusions were drawn:
 - **6%** of the seniors move out daily
 - **25%** can't leave his/her home at all
 - **90%** live alone among the interviewed 65+
 - The **role of the family** is taken over by the social care system
 - Living in blocks of flats increases the likelihood of **loneliness**
 - The longer they want to live in their **own home**
 - Feeling of **security** is a priority
 - **2%** of 65+ seniors with dementia are taken care of in the public care system
 - Demand for **social relationship** (more call, conversation, attention)
 - Increase of sense of **security** (within and out of the home)
 - **Comfort**
 - Assistance in **everyday tasks**
 - **Professional support** during self-monitoring (GPs, specialist, caregivers)
2. Subsequently, the **development concept** of the at.home nursing home was developed, defining the main areas of activity, the target group, the necessary infrastructure, time schedule and budget. We created a legal basis for the implementation with the involvement of three international projects. On August 23, 2021, JS approved the feasibility of the Smart Senior Room pilot project

within the INTENCIVE project, which began the **physical design of the room** and the acquisition of equipment. The room was completed by the end of 2021 and is suitable for smaller groups (6-10 people).

3. Following the design of the room, the **development of training materials** and the compilation of a training plan with the involvement of local stakeholders began. On the part of the Pálos Károly Social Centre, caregivers helped to develop the comprehensibility of the curriculum, while University of Pécs and Szent-Györgyi Albert Medical and Vocational School prepare the educational modules suitable for vocational training. The goal as an accredited training centre is to provide a practical location for current educational and social institutions. During the trainings we focused on 3 target groups: 1. the elderly and their relatives, 2. secondary and higher education institutions, 3. companies. Due to the pandemic caused by COVID-19, attendance training is supplemented by online training, which was also considered in the design of the curriculum. By June 2022, we plan to implement 6 **online** and 6 **on-site trainings** that will affect a total of more than 100 people. As a further activity PBN plans to organise further **12** (mostly on-site) **trainings** (1 per month) and the implementations of these trainings will be monitored **during the Phase 2**.
4. In parallel with the demonstrations and trainings, a **test environment** will be created where companies can place their finished or semi-finished products for testing in a real environment and user feedback can be evaluated through a single interface. The test environment means building a network of hundreds of private households, which requires careful preparation for legal, technical, communication, data management and other issues, which is the main goal of this Action Plan in the future. The test environment will be financed by PBN from international funds (e.g. EIP on AHA, TEF, EIT, etc) the testing environment could be extended by international experiences, contacts as well as households. To launch the first version of the testing model is expected in the Phase 2 section therefore the implementation of this activity will also be monitored by the end of July 2023.
5. The integration of the activities described above into **local and international ecosystems** is essential for maintaining the unity provided by networking with relevant actors and participation in the work of international networks. To this end, we are organizing awareness-raising workshops for local and national decision-makers, contacting the most internationally relevant organizations and preparing a number of new projects in the period 2021-2027 focusing on the four main activities of at.home.

At local level it is foreseen to organise at least 1 meeting per half yearly with the working group of the Szombathely2030 who are continuously informed about the implementation of the Action "Smart senior room". PBN is also member of this working group therefore it is ensured to take part actively in the process. Within the working group PBN is one of the responsible partners for the above-mentioned topics within the Policy Instrument and during the negotiations it will be represent the interest of Smart senior room. Furthermore, PBN is working in strong cooperation with the national decision makers (Ministry for Finance) who are responsible for new project calls, and they will regularly inform about the status and activities of the action. At least 1 meeting will be organised with them in the Phase2.

4.1.3 Participants

Pannon Business Network is implementing the action: taking part in the exchange of experiences as adapting region, designing the infrastructure; elaborating training materials, Peer-Review document, Training Plan; organising trainings, study visits, policy learning lab workshops, press conference; preparing flagship projects.

Károly Pálos Social Service and Child Welfare Service Centre provides professional control, participated in the local survey (alarm system for the elderly), developed training materials, and provided elderly households for a test environment. In case of trainings, it actively participates in reaching out to the target groups and the employees are also committed to at.home in training.

With the political support of the **City of Szombathely**, it ensured that the initiative appeared in the Szombathely2030 development plan, and the utilization of the results achieved in the INTENCIVE project is incorporated into the development proposals. Furthermore, they undertake that the at.home room, as a key element of the Western Transdanubia Action Plan, will maintained to be one of the elements to be supported by the city in the future.

The **University of Pécs - Faculty of Health Sciences** is participating in the development of training materials and is open to integrating at.home into its existing education system as a practical training place.

All results from the realization of the pilot action will be communicated to the above-mentioned stakeholders (policy makers) by bilateral meetings.

4.1.4 Finance

Resources:

Financial: (see table1)

- Interreg Europe Program INTENCIVE project as pilot project
- Central Europe Program 4STEPS project
- Central Europe Program CHAIN REACTIONS project

Human Resources (HR):

- 1 Coordinator (part-time)
- 1 Manager (full time)
- 1 Expert (part time)
- 2 Technicians (full time)

Budget:

Implementation of smart senior room

A total budget of 67.300 EUR from 3 Interreg projects.

Partner	Staff costs	Office & admin.	Travel & accommodation	External expertise & services	Equipment	Total partner budget
INTENCIVE project (IE)	10 000 EUR	1500 EUR	0 EUR	0 EUR	10 000 EUR	21 500 EUR
4STEPS project (CE)	10 000 EUR	1500 EUR	0 EUR	0 EUR	6 500 EUR	18 000 EUR
ChainReaction project (CE)	12 000 EUR	1800 EUR	0 EUR	0 EUR	14 000 EUR	27 800 EUR
Total	36 000 EUR	4800 EUR	0 EUR	0 EUR	30 500 EUR	67 300 EUR

1 year operation of the smart senior room

Regarding the maintenance of the project some of the above-mentioned financial items will remain also after the implementation of the Action in Phase2. The approx. yearly budget of the Smart senior room takes cc. 80 500 EUR yearly which consist of the following budget lines:

- 70 000 EUR Human Resources (HR): the salary and contributions of the coordinator, manager and at least 2 technicians
- 10 500 EUR overhead (rental, energy, bookkeeper etc.)

Test environment setup

The test environment is a network of hundreds of private households, where the planned initial investment is 30 000 EUR.

These costs could be increased in case there’s specific developments to realize. PBN must find the abovementioned budget in order to ensure the maintenance the action. The upcoming financial EU period could serve a good basis for the maintenance of the pilot project. As it is a partly new activity at the organisation in the specific field of the economic (health industry). PBN can utilize its already existing partners and networks to find the right funds for the Action. On the other hand, thanks to the home care and health industry focus new financial resources could be open for the future activities.

In order to find the right possibilities to cover the budget of the activities, thanks to its international department PBN is continuously mapping the potential funds. At the time of writing the Action Plan the following resources were identified:

Funding opportunities

National level

1. Economic Development and Innovation Operational Programme Plus (EDIOP Plus/GINOP Plus)

The OP is targeting the (1) improving the adaptability of employees, (2) supporting knowledge-intensive sectors and (3) balancing different territorial development level.

Priority Axis 2: Research, development, innovation

2.2 Skills development for the smart specialization, industrial transformation, and entrepreneurship

Activities/Items can be financed from this resource:

- Supporting health-related research and developments through providing trainings and digital solutions for companies, especially for SMEs.

2. Human Resource Development Operational Program Plus (HRDOP Plus/EFOP Plus)

The EFOP Plus covers developments in five human areas (health, public education, social inclusion, social and child protection, and family and youth policies, to which culture and sport also contribute), mainly for the fourth policy objective for the period 2021-2027 (PO4 - A more social Europe).

Priority Axis 1: Healthcare development - Measures to improve access to long-term care

Activities/Items can be financed from this resource:

- Demonstrations and trainings for the target groups especially for elderly and their relatives, as well as health and social care institutions (and its employees) to improving their skills in home care solutions.
- Developing home care and social care related training materials

3. Territorial Operational Programme Plus (TOP Plus)

The OP is addressing the lagging behind regions outside the capital in relation to the EU regional development average and the territorial disparities within the country, especially the least developed regions.

Priority Axis 1: Competitive county - ICT and smart city developments

Priority Axis 3: Caring county - Local community and cultural, local sports and leisure facilities and services, as well as health and social developments

Activities/Items can be financed from this resource:

- Strengthen the Action in the local ecosystem through involvement of local actors
- Implementing smart solutions in social care with the involvement of the local social care centre
- Extending the equipment park with ICT and smart solutions
- HR financing

European level

1. Interreg Europe Programme

Interreg Europe helps regional and local governments across Europe to develop and deliver better policy. Based on this a follow-up project of the INTENCIVE project could deal with the living lab policies in the partner regions collecting and learning from the European Good Practices.

The following priorities could fit our proposal:

Smarter Europe - Digitisation for citizens, companies, research organisations and public authorities

More social Europe - Equal access to health care, health systems resilience, family-based and community-based care

Activities/Items can be financed from this resource:

- Strengthen the Action in the local ecosystem through involvement of local actors, policy makers
- Building new cooperation for the region in the field of health industry and home care
- Raising awareness of the importance of the social processes
- Workshops and trainings for policy makers
- Developing the operation of the smart senior room especially the testing environment through exchange of experiences with other European regions
- financing HR and externals

2. Horizon Europe

The Horizon Europe funding possibilities could serve as a basis for health-related research and developments

Activities/Items can be financed from this resource:

- Developing new approaches in the home care and health industry
- Purchasing new equipment for research and development purposes
- Implementing exact R&D activities at PBN as own projects as well as at local companies
- financing the HR

3. ERASMUS+

ERASMUS+ is supporting life-long learning processes which offers possibilities for the Smart Senior Room to elaborate new projects in the topic training and education with cooperation of the relevant partners

Activities/Items can be financed from this resource:

- Elaborating new training materials with the involvement of national and international actors
- Trainings for the target groups
- Supporting knowledge exchange processes
- financing the HR and externals

4. Connecting Europe

The program could finance the Test and experimentation

Activities/Items can be financed from this resource:

- Utilization and development of the testing environment
- financing HR and externals

Other

EIT Innovation Actions for health/e-health related developments

Activities/Items can be financed from this resource:

- Supporting SMEs' smaller scale health related developments
- Utilization and development of the testing environment
- financing HR and externals

4.1.5 Timetable

Preparation: 12 months (*Phase1*) *September 2020 – August 2021*

Step1:

- a. Local Research – September 2020 – December 2020
- b. Development Plan – January 2021 – August 2021

Implementation Phase1: 11 months September 2021 – July 2022

Step2: Infrastructure development (room + equipment) - September 2021 – December 2021

Step3: Training materials – January 2022 – February 2022

Step4: Trainings – February 2022 – June 2022/continuous

Step5: Integrated to the local and international ecosystem – March 2022 - June 2022

Implementation Phase2: 12 months - August 2022 – July 2023

1 year operation of the smart senior room

implementing trainings (12 trainings, 1 per month)

implementing R&D projects

Setting up test environment in private households

applying for fundings for future operation

- GINOP for financing trainings and developments for SMEs
- TOP for financing local demonstration, trainings activities as well as developments of the smart senior room
- Interreg Europe Program for financing learning processes on testing facilities – March – May 2022 (3months)
- Horizon Europe Program for financing R&D activities
- Erasmus+ Program for financing trainings

monitoring workshops with policy makers: 1 with national actors, 2 with local actors

In total (Preparation + Implementation): 35 months

5. Signature

Municipality of Szombathely realizes the importance of implementation of this action plan. I, András Nemény Dr., confirm that I have the required authority of my organization to sign and that the required authorization process of my organization has been duly carried out.

Szombathely, 2022.

András Nemény Dr.
Mayor
Municipality of Szombathely

Official stamp