

The Italian pilots meet the Pharaon Core Board

A general introduction to Objectives and Milestones

LEAD: University of Florence

Pilot Members: UP, CSS, CORO, ENT, OKEY

Technology Providers: ENT, CORO, SENLAB, SENTAB, ASC

University of Florence (UNIFI)

Laura Fiorini | Pilot Coordinator

Venue: Cooperativa Di Vittorio, Firenze (FI), Italy

March 31st, 2022



The objective of the Italian pilot is to: Propose personalized Integrated care for frail older adults



1. The idea is to present the **work done** and the **work planned** within the framework of Pharaon Objectives and milestone.
2. We will deliver a general presentation of objectives
3. and then we will present the work done within each milestone.

Pharaon – Overall Objective



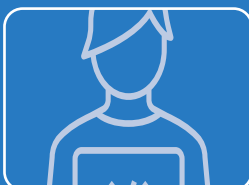
Objective 1: To identify the current state of interoperability between widely used platforms and partner solutions and solutions from third parties involved at Pharaon at the open calls, then develop and implement a generalised integration protocol.



Objective 2: To implement personalised analytics that provide older adults and their caregivers with the most pertinent physical and mental health as well as wellbeing information.



Objective 3: To demonstrate the feasibility of integrating the Pharaon platforms with existing systems related to intelligent transport and mobility, energy optimisation, and smart cities



Objective 4: To ensure user-friendly human-computer interaction modes that addresses various capacity limitations, provides rapid access to useable information.



Objective 5: To systematically implement, test and validate the Pharaon platforms at a pre-validation stage providing early feedback to the function and usefulness of these platforms and their integrated technologies.



Objective 6: To involve new stakeholders and their technologies, products, or services in the different ecosystems through the launch of open calls.



Objective 7: To pilot the platforms in 6 different sites from 5 countries, with a scope of thousands of users including older adults, formal, and non-formal caregivers.



Objective 8: To prove the efficacy of the platforms by applying standards and proven metrics, such as MAFEIP1.



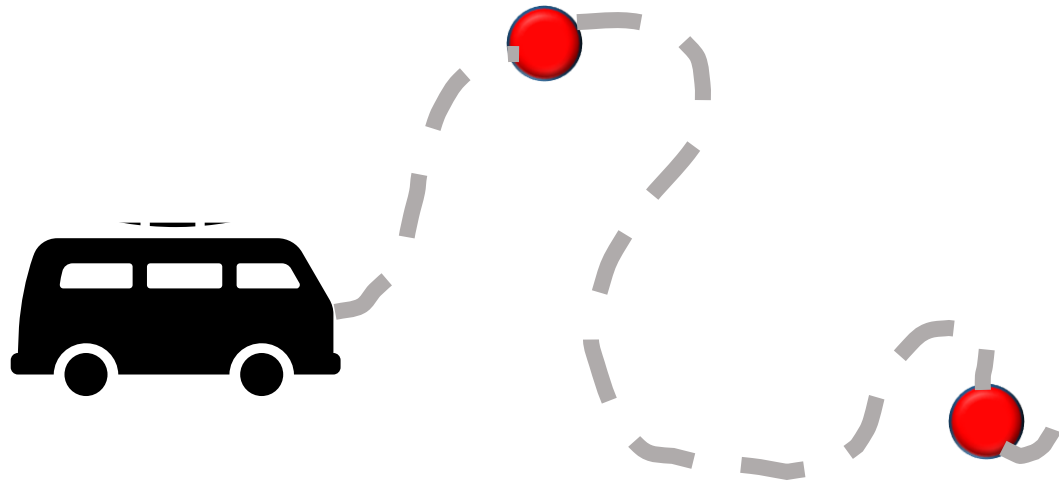
Objective 9: To widely share, disseminate and exploit the progress and outcomes of the project with a broad audience of caregivers, older adults, policy makers, the general public, and academics.



Objective 10: To liaise and inform standardisation bodies in order to align Pharaon solutions to the most recent standardisation efforts in the field and to contribute to those standards with the acquired technical and practical knowledge.

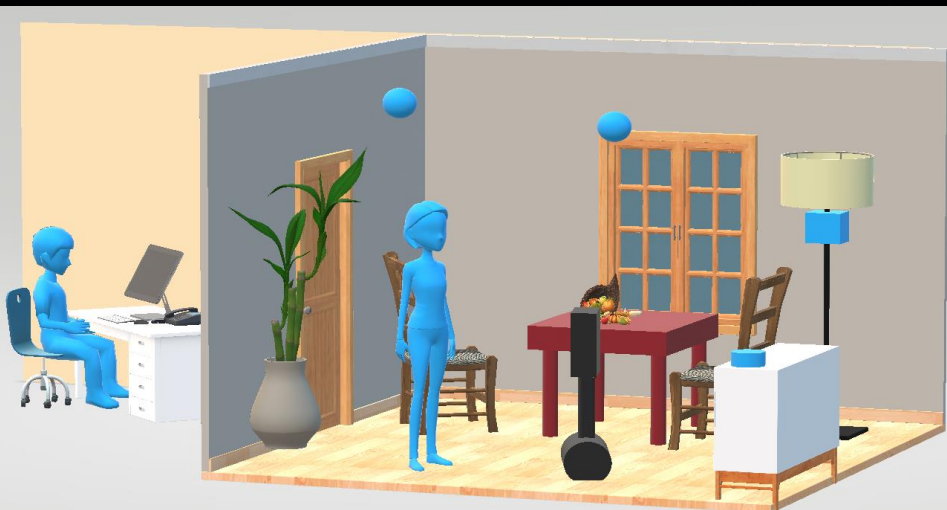
start from the project milestones....

And **evaluate how our work** is going....



Milestone No. and Name	Due date	Status
MS2: System Requirements and Architecture	M22	OK WAITING FOR D2.2 FINAL REVISION BY EC
MS3: Initial strategy for external promotion, legal and ethical issues	M27	OK WAITING FOR FINAL VERSION OF D10.1 (FEB 2022)
MS4: First integrated Pharaon ecosystem released	M26	OK SUBMITTED M28
MS5: Pre-validation	M27	OK SUBMITTED M27
MS6: 1 st Pilot Deployment Phase	M41	Planned
MS7: Final Phase of Pilot Deployment	M48	Planned
MS8: Strategy for Future Sustainability	M48	Planned

Monitoring Health



Stimulation



Socialization



Activities performed within the Pilot: Pre-validation plan

Methodology and peculiarities of the italian pilot



WHO

27 users



HOW LONG

1/2h «private» interaction in a «controlled» environments (i.e. cooperative, hospital)



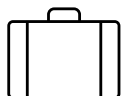
WHAT TEST

Single Technology



KPIs

- **Global KPIs:**
 - ASQ
 - SUS
 - Malfunctioning: Issue Tracker GITlab
- **Local KPIs**
 - Qualitative data from interviews
 - Log Diary



KITS

- # 1 for CSS
- #1 for UP

PHASE – 1

PHASE – 2

26 users

Techonology were installed at home

- Monitoring Service
- Socialization Service
- **Global KPIs:**
 - ASQ
 - Modified SUS
 - Malfunctioning: Issue Tracker GITlab
- **Local KPIs**
 - Qualitative data from interviews
 - Log Diary
 - Cognitive Assessment
 - Tecnostress
 - TEI
- # 5 for UP
- # 5 for CSS

MS5: Pre-validation

Overview of the participants recruited

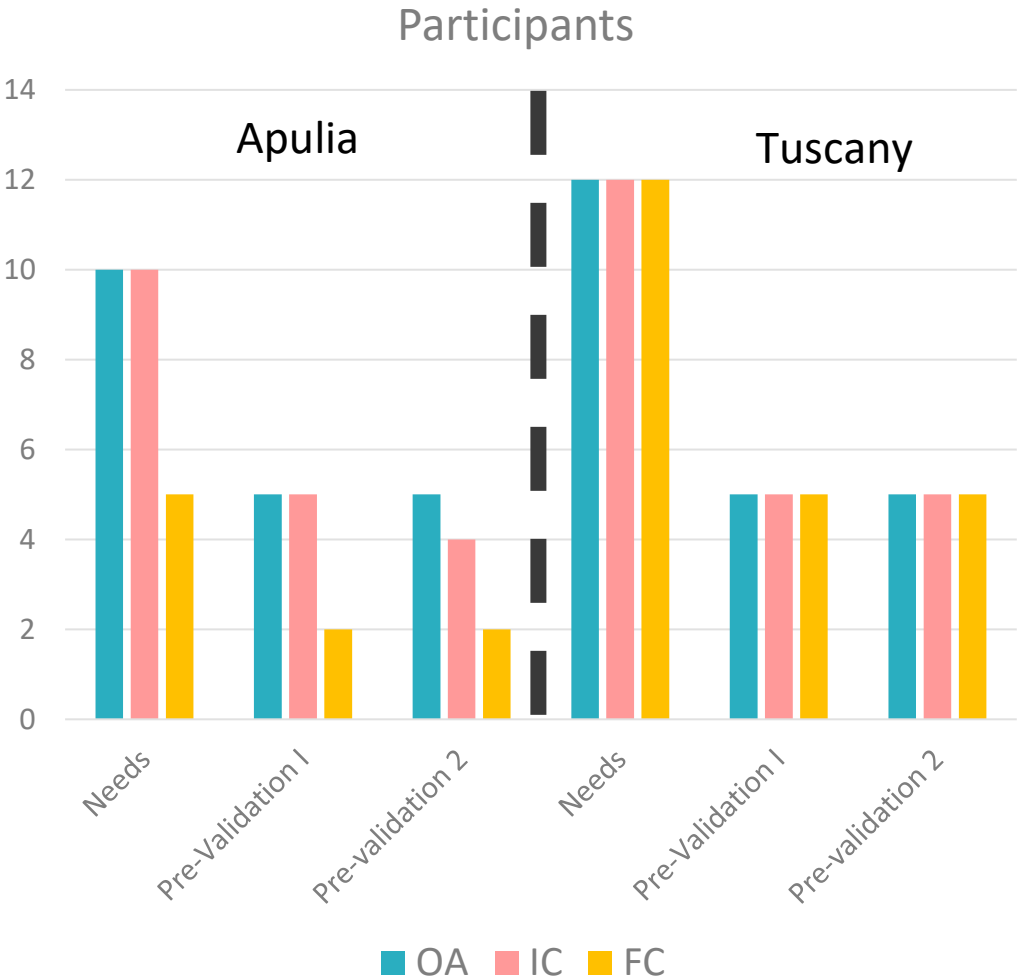


Apulia	Older Adult	Informa Caregiver	Formal Caregiver	Tot for Phase	Tot	%
Needs	10	10	5	25	35	10,00
Pre-Validation I	5	5	2	23		
Pre-Validation II	5	4	2	12		
Pre-validation III	5	5	2			

17,14%

Tuscany	Older Adult	Informa Caregiver	Formal Caregiver	Tot for Phase	Tot	%
Needs	12	12	12	36	45	12,86
Pre-Validation I	5	5	5	30		
Pre-Validation II	5	5	5	15		
Pre-validation III	5	5	5			









23,14 %



Presenters: Pre-validation responsible for each pilot site

MS5: Pre-validation

What we tested

	Partner	Phase I : Tech	Phase II: Integrated Services			
			Socialization Service 	Monitoring Service	Socialization Service 	Monitoring Service
Vanilla App	SENTAB	 	X		X	
TV Box	SENTAB				X	
Tablet	SENTAB	NA	X			
Discovery Dashboard	ASC	 		X		X
IoTool	SENLAB	-		X		X
SmartHabits	ENT	-		X		X
Ohmni	CORO					X*
SmartWatch	SENLAB	-	X*	X	X*	X
Environmental Sensors	SENLAB	-		X		X

* Not yet integrated – work in progress

Presenters: Pre-validation responsible for each pilot site

MS5: Pre-validation

Experience become actions

Lessons Learned from Pre-validation



Robot

Big call on TV

Training of facilitators

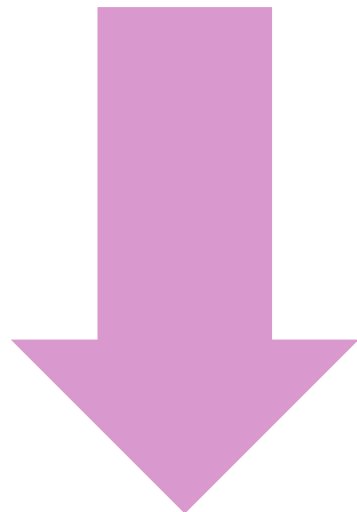
Prolonged use of technology

Weekly update



Actions for deployment

1. **Change wearable technology. It is not usable.**
2. **Change environmental sensor (CSS)**
3. New ethics assessment and risk assessment
4. **Necessity to update user stories**
5. Change the recruitment process
6. Reinforce the training
7. Consolidate the evaluation framework and divide the training sessions
8. Reliable technology. We need to pre-validate any new functionalities



Smartwatch

Environmental data frequency

Caregiver dashboard

Length of training sessions with older adults

Revisions of User Stories

Revision



GOAL MODEL	PGM_I01: Manage Health		PGM_I01: Socialize
USE CASE SCENARIO	PUCS_I01.1: Monitor Health	PUCS_I01: Manage Health	PUCS_I02: Socialize

Service	Priority	
[4] Physical Exercise Stimulation & Monitoring	T	A
[5] Cognitive Exercise Stimulation & Monitoring		
[2] Make a necessity call		

Service	Priority
[2] Physicological Support prescribed	A
[2] Educational Support	T
[3] Monitor the status of older person	
[4] Environmental monitoring	

Priority
A
T

Service	Priority
[1] Share information on life memories, hobbies and habits	
[2] Mantain Relationship	
[3] Be informed about events and life styles	*content sharing

+ detailed user stories for each scenario

+ Open Call

MS5: Pre-validation

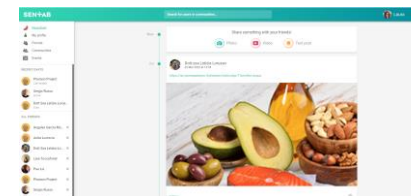
Technology after the pre-validation Phase

Tuscany

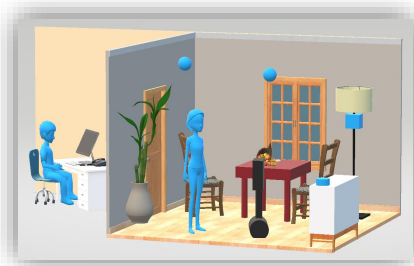
In Common

Apulia

**SERVICE A:
SOCIALIZATION &
STIMULATION**



**SERVICE B:
MONITORING**



Air quality
Sensor

Status of work done to achieve MS6

Action Research Plan

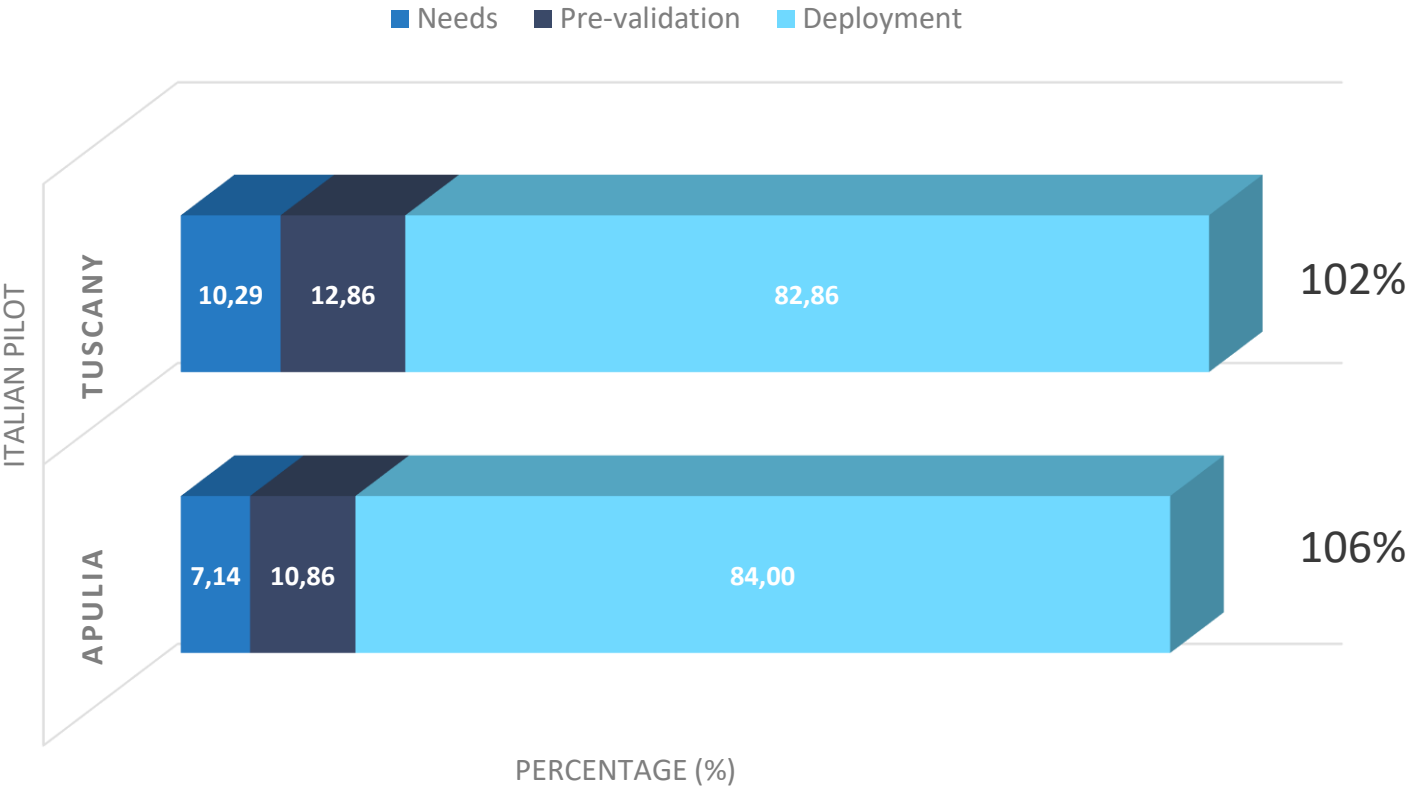
Code	Domain	TIMELINE	RESPONSIBLE
PILOT ORGANIZATION			
PO1	Definition of Activity Research Plan	June 2020 (revision March 22)	Pilot Coordinator
PO2	Periodic meeting of the italian pilot site	EVERY WEEK (THU at 11 AM)	Pilot Coordinator
PO3	Periodic meeting at Tuscany/Apulias lever	EVERY MONTH	Pilot Managers
REFLECTION			
RE1	Reflect together after each Phases (tops/flops, lesson learnt, fine-tune following phase)	Reflection Pre-validation I 07.10.2021 Reflection Pre-validation II 02.02.2022	Pilot Coordinator
CELEBRATE MILESTONE			
CM1	Communication (newsletter, social media)	Open Call → Italian pilot newsletters Pre-validation → Pharaon newsletter	Dissemination managers
CM2	Pharaon Celebration Day	START/END OF DEPLOYMENT tbd	Pilot Managers
STAKEHOLDER INVOLVMENT			
SI1	Organize periodic meeting with local social service to monitor the interest and the potential benefit.	INTERMEDIATE and FINAL DEPLOYMENT	Pilot Coordinator
SI2	Organize local event to involve different stakeholders (e.g. Pharaon Cafe, Artefacendo) or join local initiative on the territory.	INTERMEDIATE and FINAL DEPLOYMENT	Pilot Managers
SI3	Joint scientific publications	AFTER REACHING PR. MILESTONE - Needs Analysis -> Published	Members of the pilot

Status of work done to achieve MS6

Deployment plan



POPULATION DISTRIBUTION



	OA	IC	FC	Total
DoA	300	300	100	700
Apulia	150	150	50	350
Tuscany	150	150	50	350

Status of work done to achieve MS6

Recruitment overview



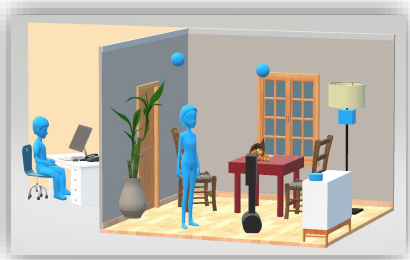
From D7.1



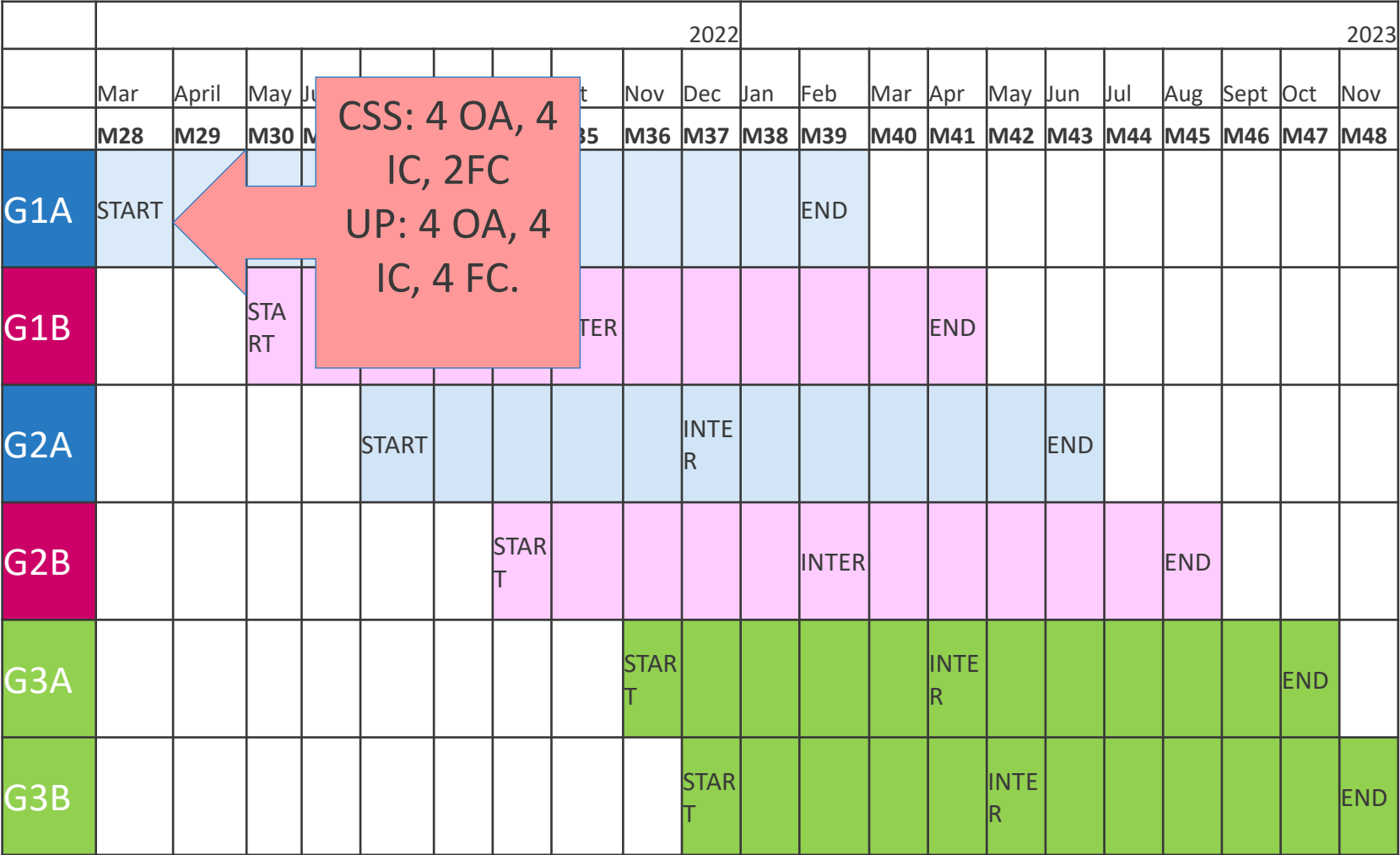
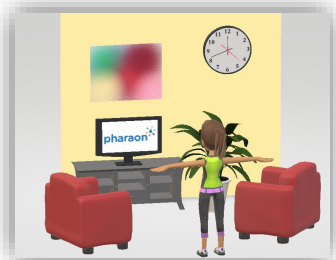
SERVICE **A**:
SOCIALIZATION &
STIMULATION



SERVICE **B**:
MONITORING



SERVICE **C**:
OPEN CALL
(Cognitive & Physical
Stimulation)



Data Protection Agreement

- Status
- Focus on Joint controllership
- Shared the template with other pilot coordinators

Ethical requests

- Approval for deployment
- Need to manage Open Calls

Ethical Risks management

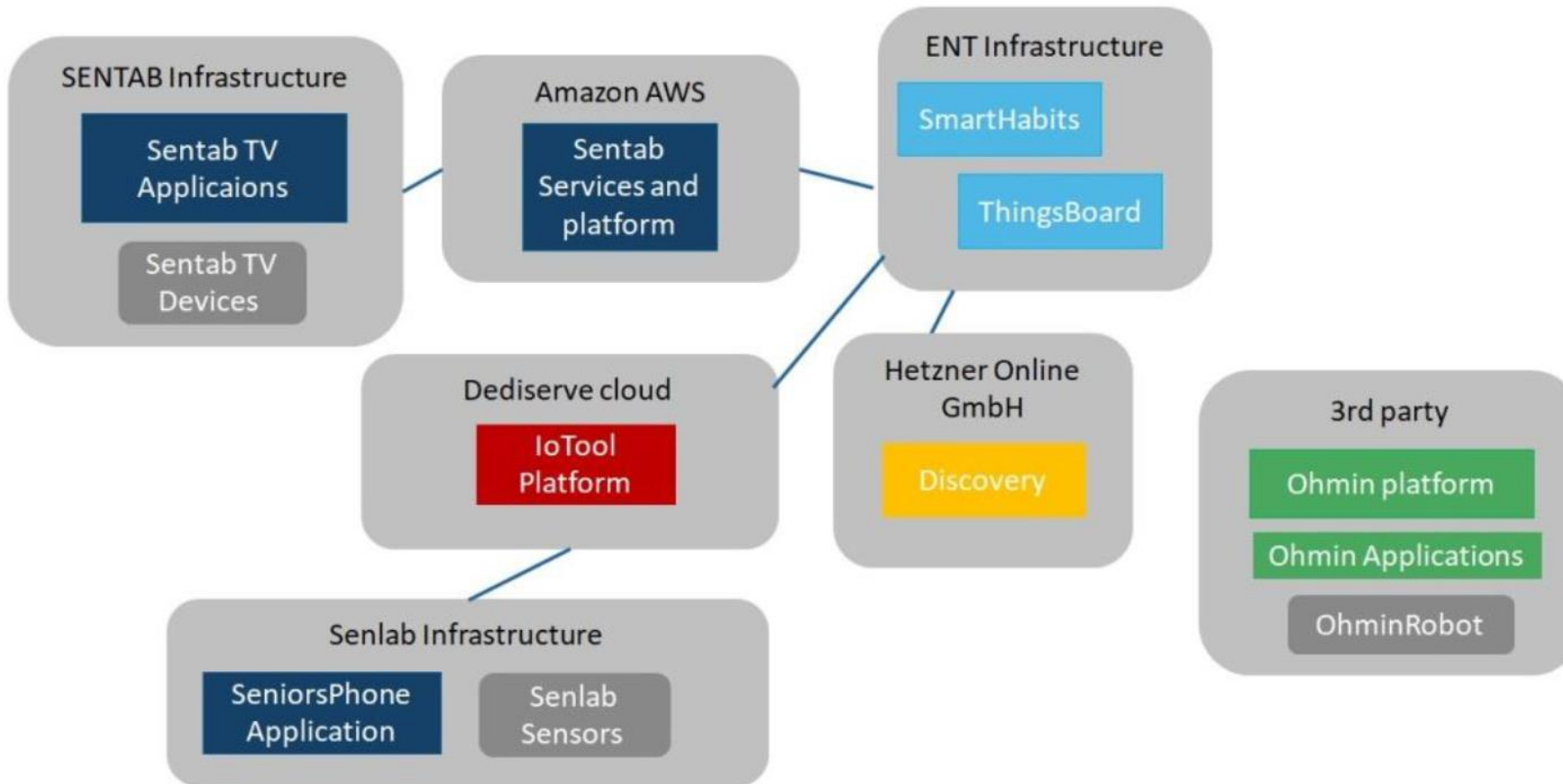
- Use of name/surname for social network
- FitBit
- Data sharing

MS2: System Requirements and Architectures

Where we started and where we arrived

From D5.1

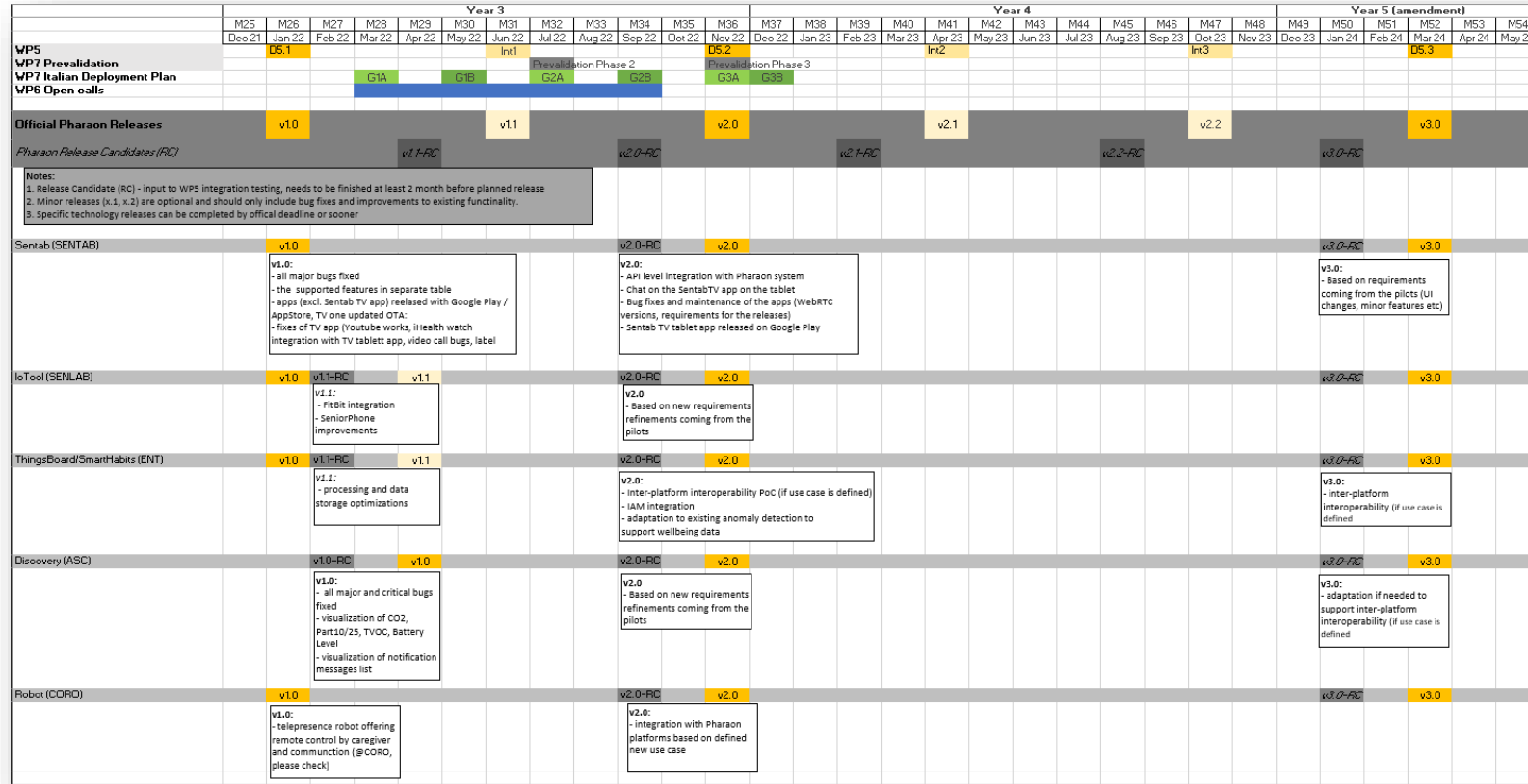
Figure 18: Overview of the Staging Environment for the Italian Pilot



Presenter: Miran Mosmondor - Technical Manager of Italian Pilot

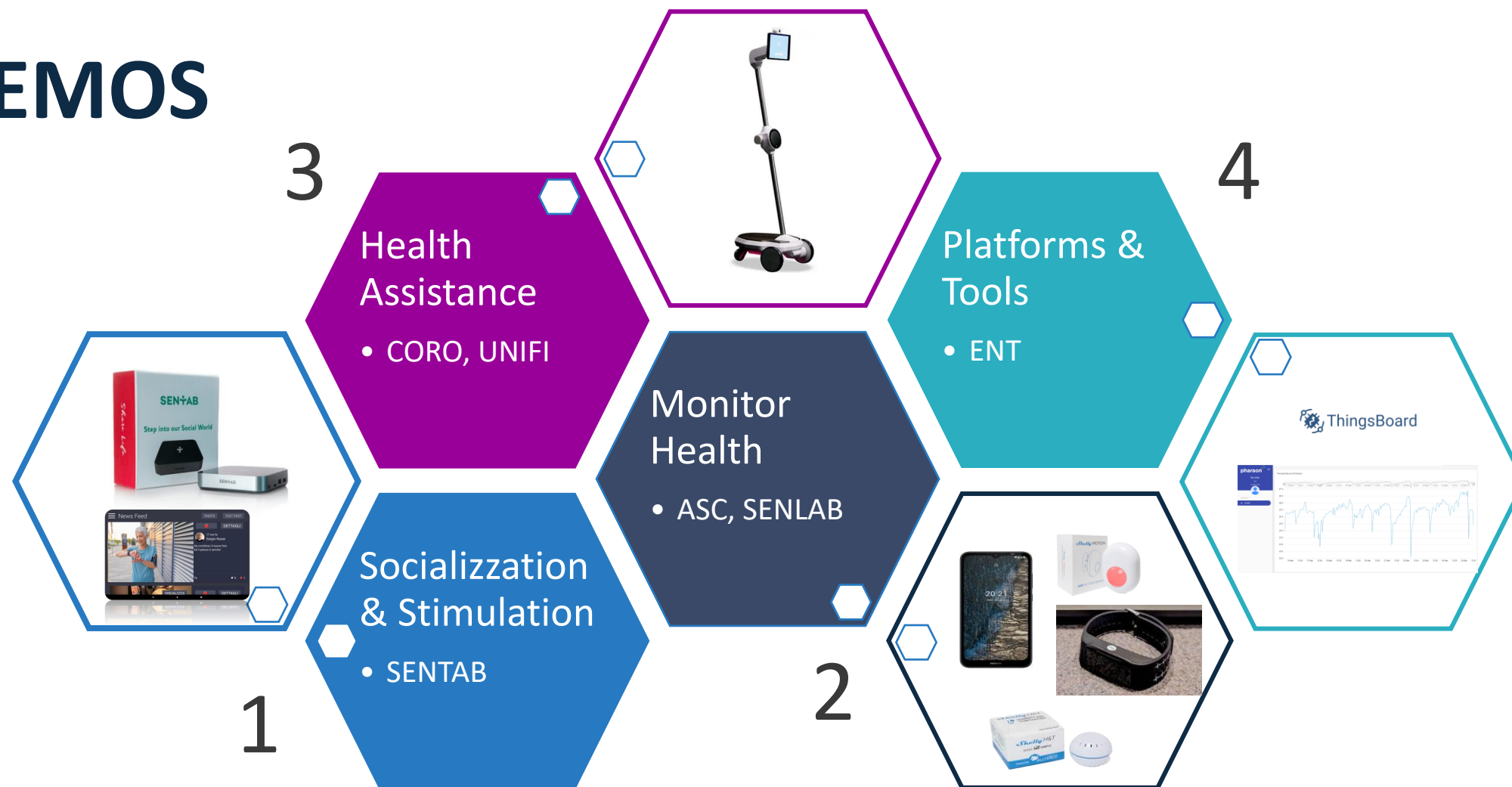
MS2: System Requirements and Architectures

Technical Deployment Plan



- Release plan
- Alignment between the WP7 and WP5 at italian pilot level.
- Management of technical deployment risks and plan.

4 DEMOS



Presenters: SENTAB, ENT, SENLAB, ASC, CORO

Facilitators: UP, CSS, UNIFI

MS4: First integrated Pharaon ecosystem released

How it work, what will you see

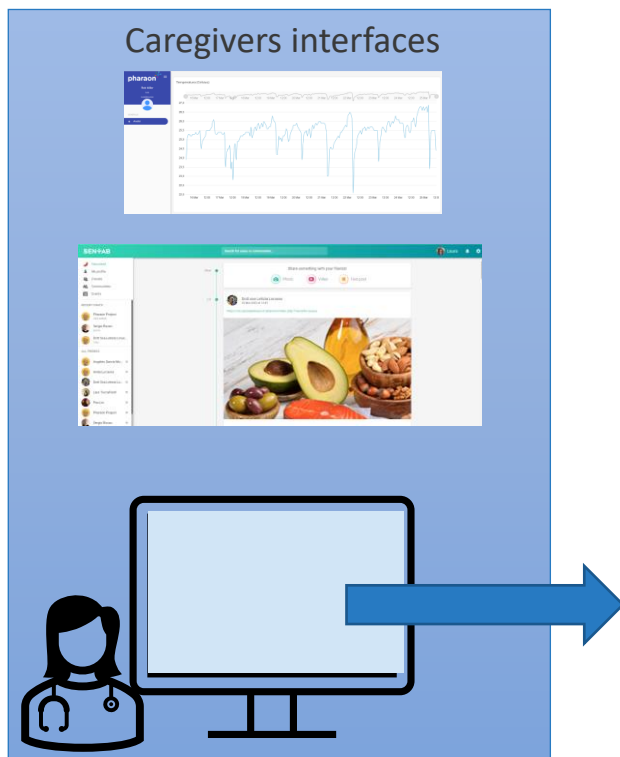
Technology Leaders:

- ENT
- SENTAB
- SENLAB
- ASC
- CORO

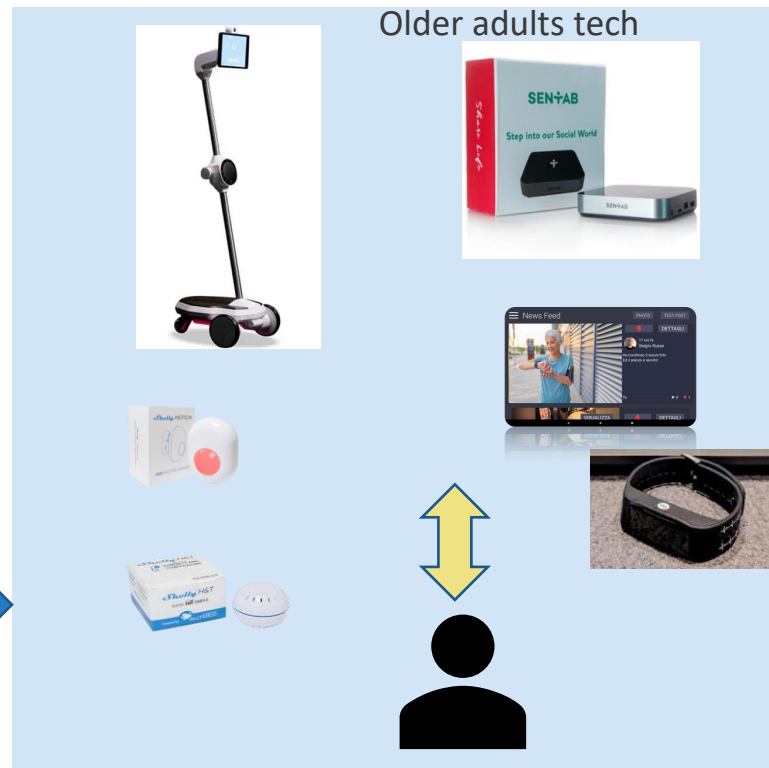
Facilitators:

- UP
- CSS
- UNIFI

Caregivers place



Older home



- You will see as a caregiver what will happen in the older home.
- Demo will follow a precise script that will follow the scenarios
- During the break you can go and see the technology

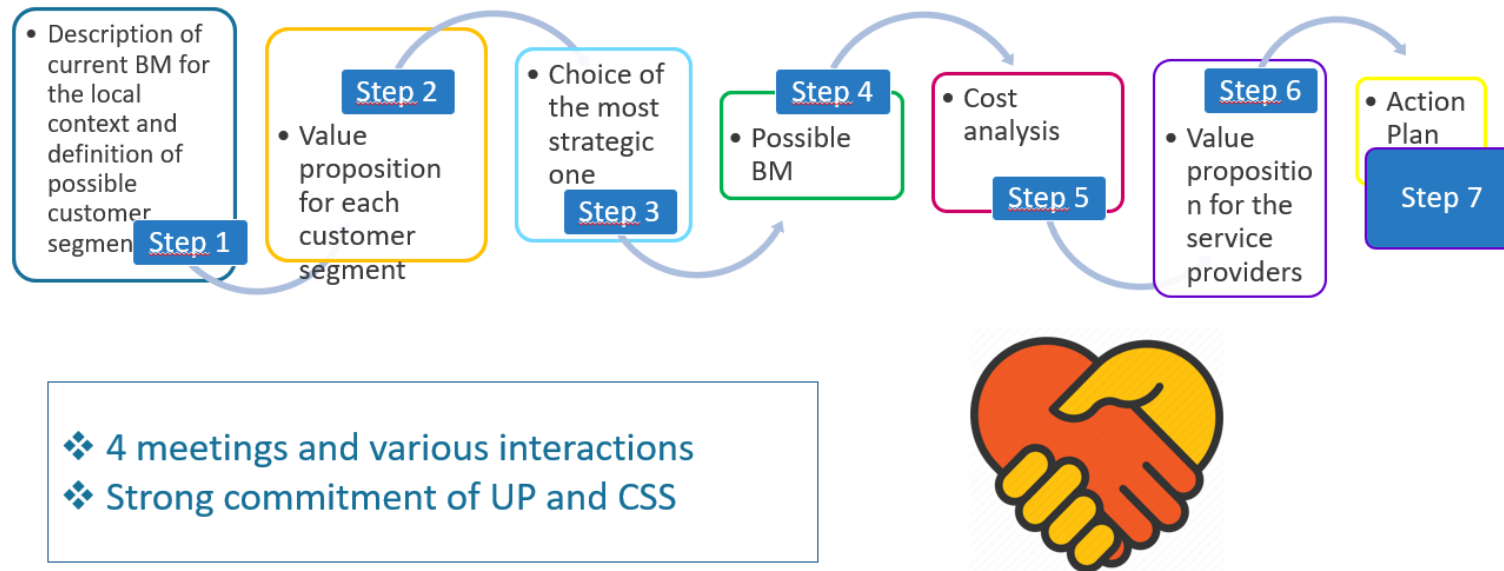
Disclaimer: for privacy reasons you want see real older adult data on the caregiver dashboard, but real data that are not acquired from older adults.

MS8: Strategy for Future Sustainability

Business Case

Methodology for BC definition

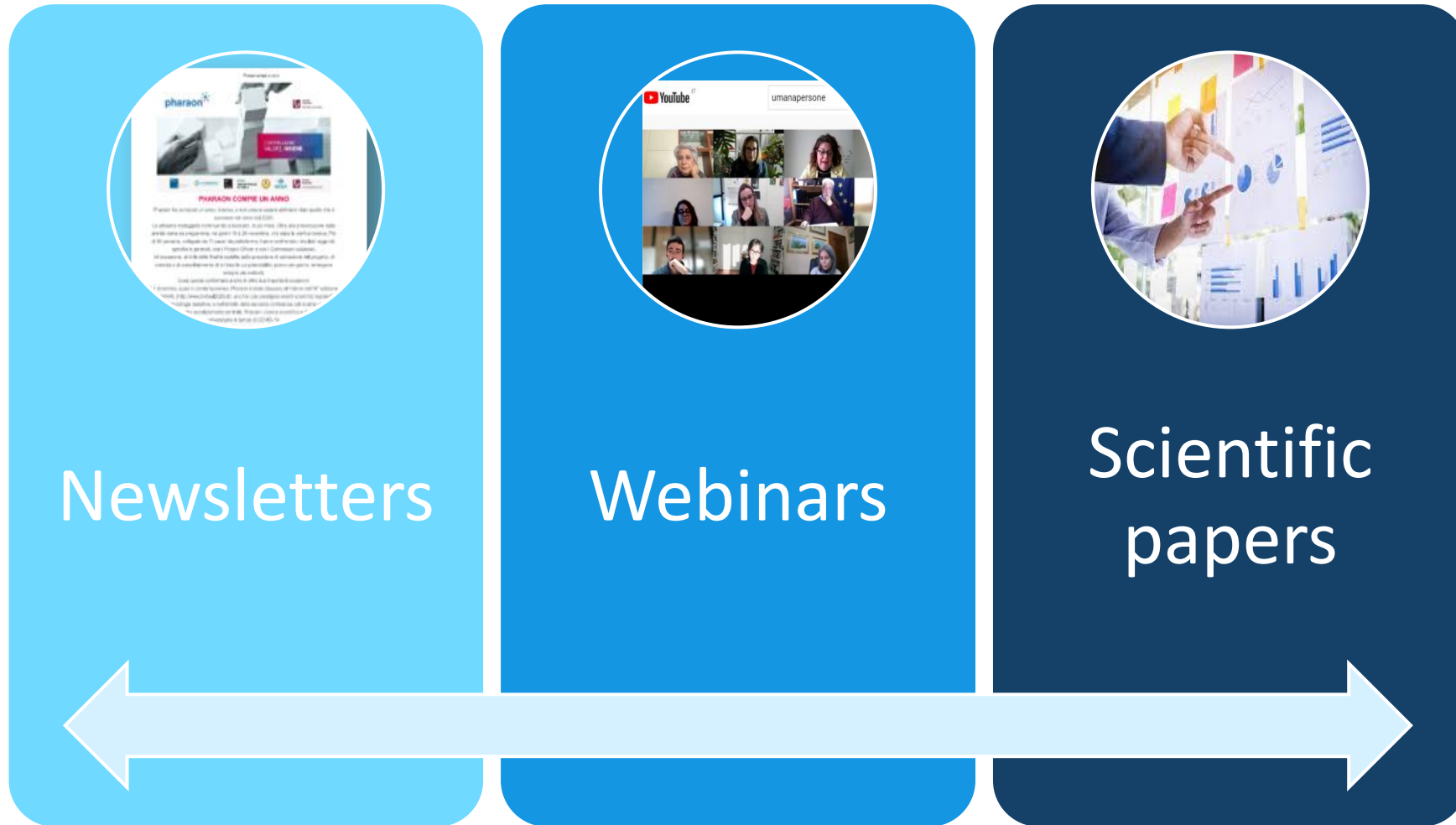
7 steps process



- Kick off of the activity at Italian plenary meeting (Feb. 22)
- Definition of customer services
- Identification of value propositions
- Preliminary Cost Analysis
- Release of the action plan

MS3: Initial strategy for external promotion, legal and ethical issues

Dissemination Activity



Presenter: Massimo Campedelli, Lara Toccafondi, Italian Dissemination Manager

Thank you for your attention



Questions?

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