

# WP7 < Involving the user: from codesign to piloting >

## Some lessons learned from pilot study

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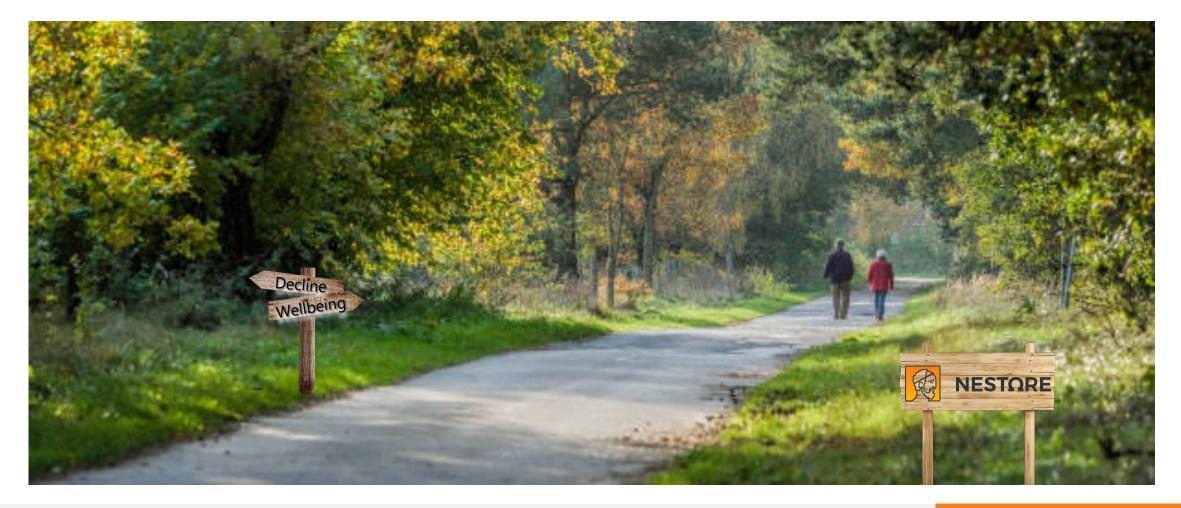
#### **SUMMARY**

- 1. The road: our starting point
- 2. Who we are?
- 3. Who are they?
- 4. What were we to do?
- 5. How did we do it?
- 6. What problems did we face?
- 7. What was participants' experience?
- 8. What did we learn?





## The Road: our starting point







#### WHO WE ARE?

#### THANK YOU TO MAKE IT POSSIBLE!



















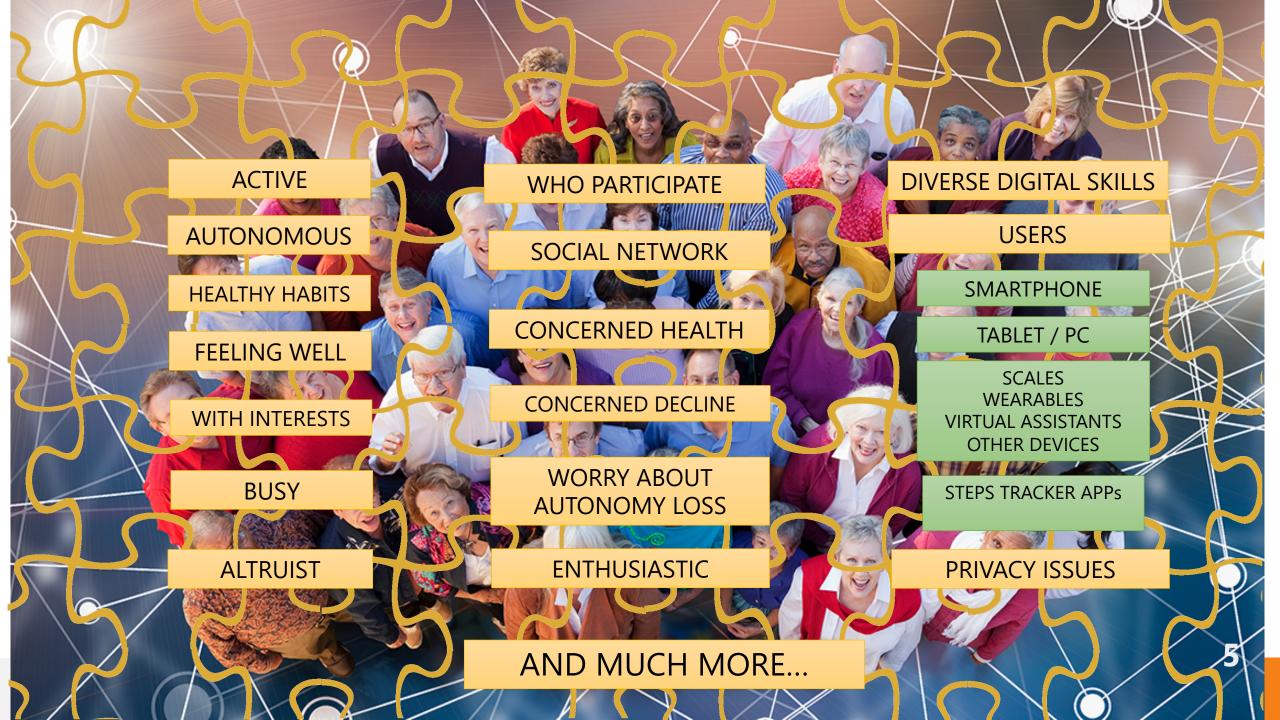




Associació Club de Jubilats i Pensionistes de Ripollet Grey Panthers







#### WHAT THEY EXPECTED?

- To get involved in a project to help older people
- To know how to improve their health status
- To know how they can improve or retain their status
  - To monitor their physical activity performance and to be motivated to do it
  - To retain their autonomy
  - To retain their cognitive status
  - To monitor their sleep quality
  - To know how to improve their healthy eatings habits
  - To lose weight (sub-group)





#### The Road

Aim 1

 Assess the feasibility of a study to show the impact of the device over health status and wellbeing.

Aim 2

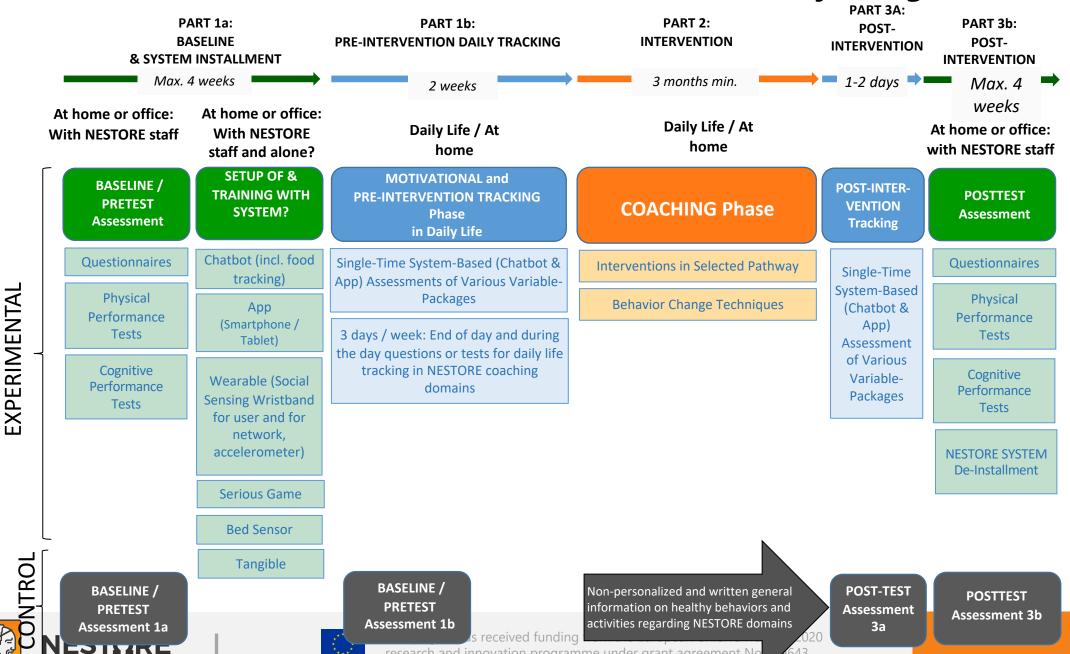
 Assess the validity of technological procedures developed by the NESTORE partners for this project.

Aim 3

 Assess the usability and applicability of the platform.

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## WHAT WERE WE TO DO? NESTORE Study Design



research and innovation programme under grant agreement No

## WHAT WERE WE TO DO? GROUPS

- Intervention: 20 persons per site (gender balanced)
  - Will use the NESTORE system (12 weeks)
  - Participant will select at least one pathway of interest.
  - Once selected, the NESTORE system gather information during 2 weeks and then proposes machine-learned tailored advice to the participant until the end of follow-up.
  - Run-in period: Replacement of persons not using the system by their own will during the first 15 days.
- Control: 10 persons per site.
  - Control group will receive printed material or audiovisual with general recommendations of healthy habits, without any component of the NESTORE system

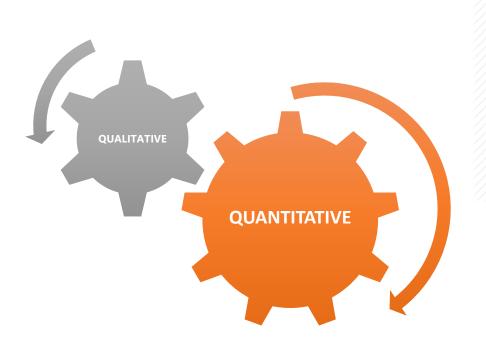




#### How did we do it?

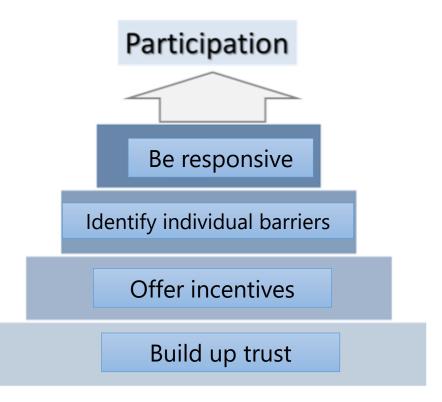
Mixed methods

Person-centered approach





TiBAR Model applied



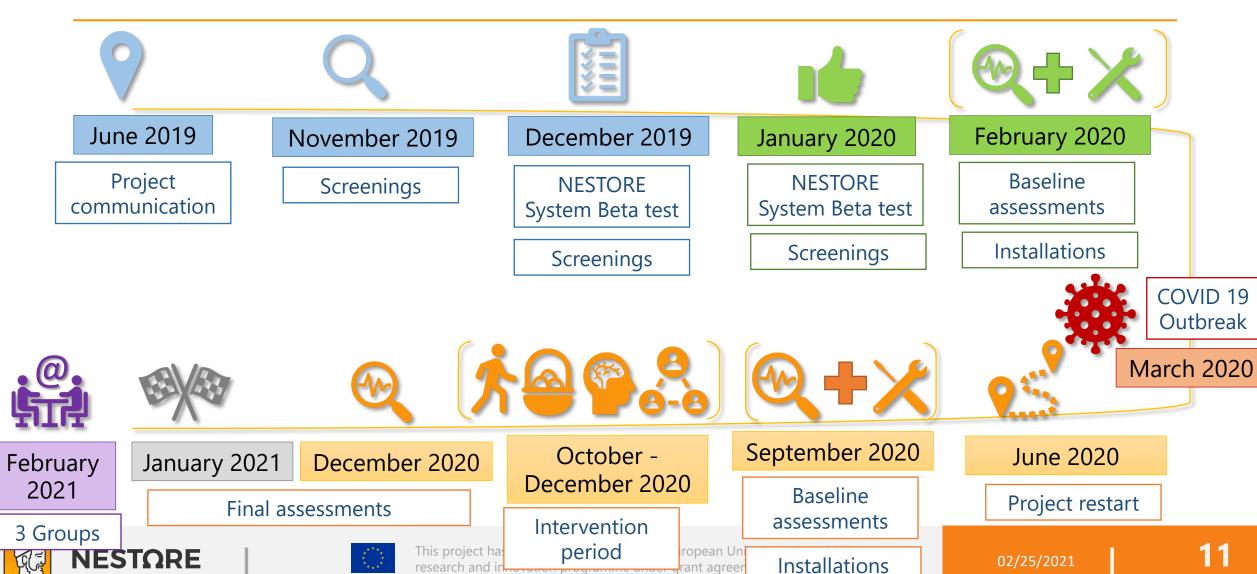
Source: Kammerer, et.al. 2019. DOI: <u>10.13094/SMIF-2019-00012</u>





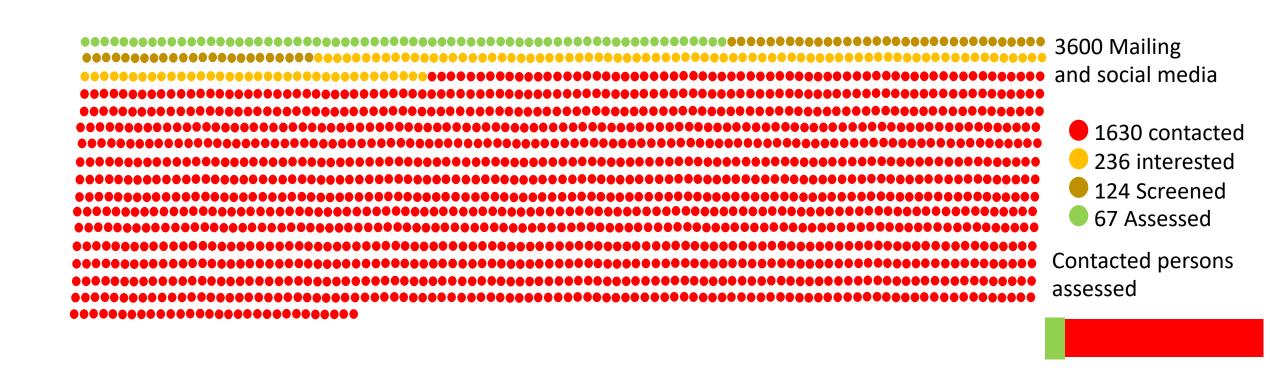
#### **HOW LONG DID IT TAKE?**

### NESTORE fieldwork itinerary in 250 days



#### WHAT PROBLEMS DID WE FACE?

A problem based on numbers / Recruitment







#### **HOW WE DEAL WITH PROBLEMS?**



Diversy recruitment sources



Monitor the sample



Follow-up

Time investment



Gender perspective



Accept our limitations and weakness to reach certain profiles

Apply Social Responsibility and Research Ethics





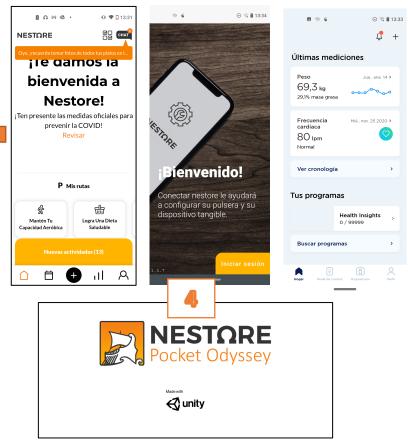
#### WHAT PROBLEMS DID WE FACE?

## A problem based on numbers / The System



Wearable
Bioimpedance scale
Tangible Coach
Sleep Monitor
5 Environtmental beacons
5 Social beacons
Flexibility tool









http://my.nestore-coach.eu

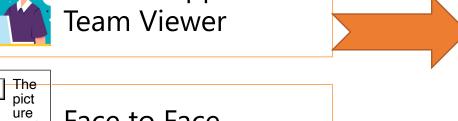
#### **HOW WE DEAL WITH PROBLEMS?**



Video recordings



Online support: Team Viewer



Personalized support

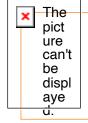
Time investment

and full availability

TIBAR MODEL



Videoconferences

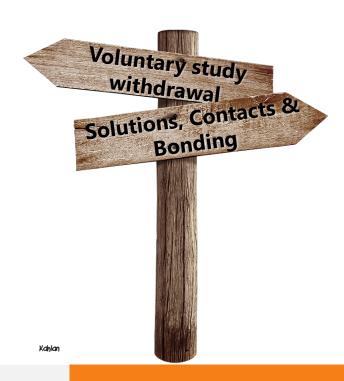


Face to Face support

#### WHAT PROBLEMS DID WE FACE?

#### SARS- COV 19 Confinement and Restrictions







NESTΩRE

#### **HOW WE DEAL WITH PROBLEMS?**



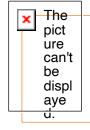
Scheduling visits



Phone call assessments



Online assessments



Safety first Decalogue



Building confidence and safety perception

Flexibility

Participants tracking





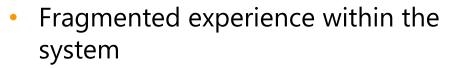
#### WHAT WAS PARTICIPANTS' EXPERIENCE?

Even though, technical problems, participants strongly believe that NESTORE project is a good idea and could contribute to improve active aging and wellbeing. The project has wide scope for improvement:

#### What works and not?



- Keep it simple
- Fit my life and respect my schedules
- Personalization
- Jazz up the experience (amusement and gamification)
- Interaction
- My progress status
- Positive messages
- Diversity of activities
- Understandable graphics
- A practice community
- A human touch





- Not to see real-time data
- Much information is less
- Lack of adaptation to my previous activities
- Coercitive or inquisitor coach style
- Repetitive activities
- Not applying communication strategies

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#### WHAT DID WE LEARN?

#### In conclusion

#### In relation to the pilot study...

- To confront the difficulties of creating a heterogeneous sample applying the TiBAR model for recruitment and retention
- To manage expectancies during the pilot study and continuous follow-up
- To apply the community concept before and after

#### In relation to the intervention...

- To reduce the fragmentation in the use experience.
- Several aspects influencing technological adherence: simplicity, expectancies, diversify tasks, manage tasks overload, constant positive stimuli, personalized follow-up with proximity, etc.
- To be aware of the risk that incidences take a center stage in users' experience
- The role of the virtual trainer is key to generate bonding, acceptance and adherence as a compass
- Communication, positive messages and gamification are very important





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## Thank you very much companions!

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https://nestore-coach.eu/



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