

Empowering patients by professional STress Avoidance and Recovery Services

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- Pre-commercial procurement
- Mission statement and consortium
- Background
- Need and direct benefit
- Experience of procurers
- Questions



Pre-commercial procurement (PCP)

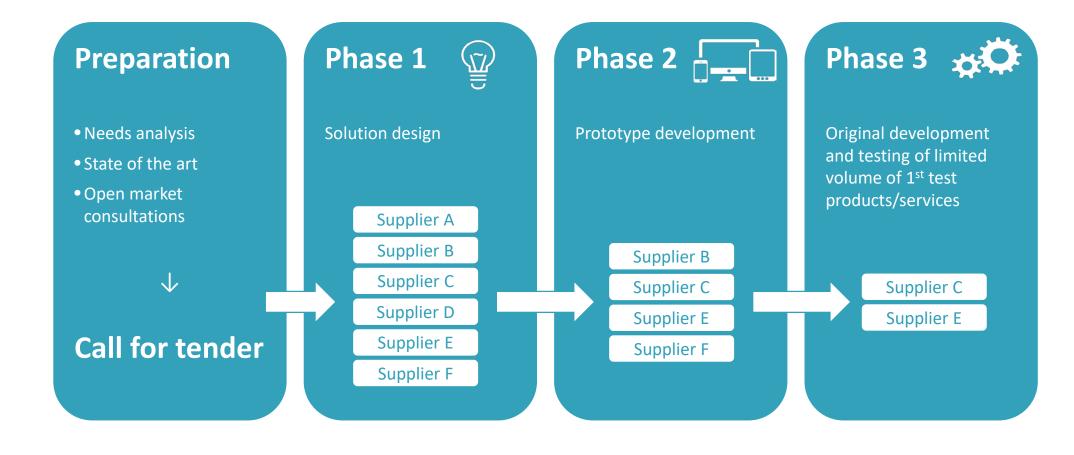
Challenge industry to develop innovative solutions for public sector needs

• Compare alternative solution approaches and filter out the best solutions

• Does not cover large scale commercialisation (PPI)



PCP process





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Horizon 2020 call

eHealth innovation in empowering the patient

- → empowering hospitalized patients, outpatients and their families/carers to support a continuum of care across a range of services supported by ICT
- → enhance the ICT skills and increase adherence of patients and care givers
- increase the role and the responsibility of the patient
- → support self-management of health



Mission statement

Five leading European hospitals challenge the European industry to design and develop a resilient support tool to be applied in the field of patients planned for surgery, with the aim of reducing stress during the entire care path.

The available budget for the development of this innovative solution is 4.7 million euro of which 3.26 million (including VAT) will flow to the industry.



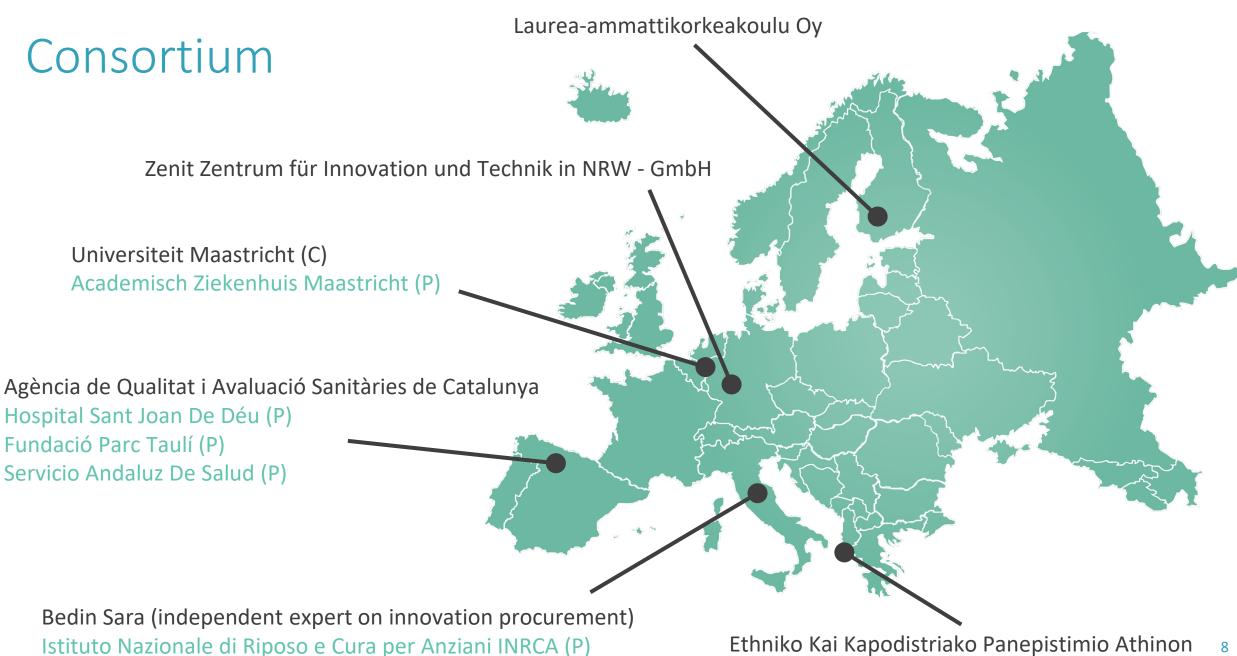














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Key processes of the surgical journey

• Illness acceptance

 Preparing for surgery (documents, diet, medicaments)

HOME

HOSPITAL

- Pre surgery procedures (surgical & anesthetic examination)
- Hospitalization procedures
- Surgery day (preparation, anesthesia, surgery)
- Post-operative stay
- Discharge (planned check up, diet, prescription)

- Process of Recovery (prescriptions, complications, disabilities)
- Return to normal life

HOME



Stress during the patient journey



Pre-clinical

I am so nervous.

Will everything be ok?

How long will I be in the hospital?

Will I have pain?

When will I be operated?



Clinical

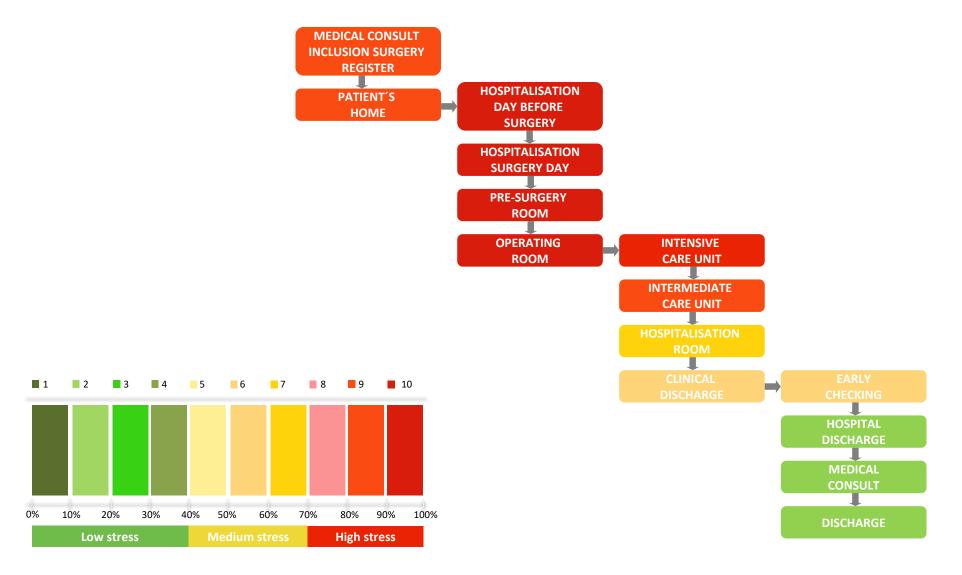
I am really stressed!
Will I be in safe hands?
Was the operation successful?
Is this pain normal?
I want to go home.



Post-clinical

May I follow my daily routine?
I can't do anything by myself.
When will I get well?

Stress during the patient journey



With the courtesy of Ignacio Muñoz Carvajal MD, PhD Cardiovascular surgery unit Reina Sofia university hospital



Stress during the patient journey

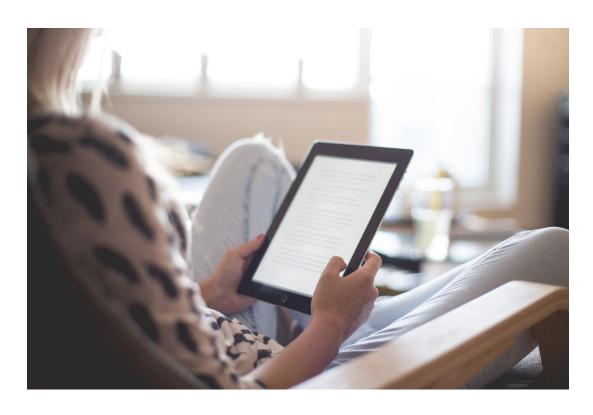


- Increased mortality
- Complications during hospital stay
- Increase in re-hospitalization
- Sedating drugs (delirium)
- Increased time wound healing
- Delay in return to daily routine
- Reduced quality of life

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Need for information and education



- Illustrate patient journey with a description of hospital environment and surgical steps
- Describe preadmission instructions: what is expected from patients and caregivers
- Provide personalized reassuring info
- Provide reliable and validated info about perioperative symptoms and pain management
- Provide personalized info about recovery



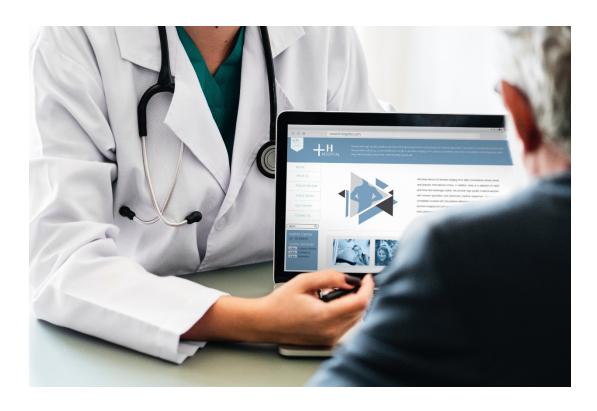
Need for follow-up and monitoring



- Allow self-assessment of perceived stress through a Visual Analogue Scale
- Provide reassuring feedback and guidance to patients based on validated knowledge
- Provide information to clinicians about the patient's pain intensity
- Provide info to clinicians about complications and recovery time (after discharge)



Need for communication



- Between patients and clinicians
- Between patients and caregivers
- To caregivers: follow up the situation and location of the patient during hospitalization
- To healthcare professionals: obtain patient info, identify and manage patient's stress



Need for enabling autonomy



 Provide patients the opportunity to create a friendly and personalized environment, for instance related to light, noise, scent, etc. in the hospital facilities

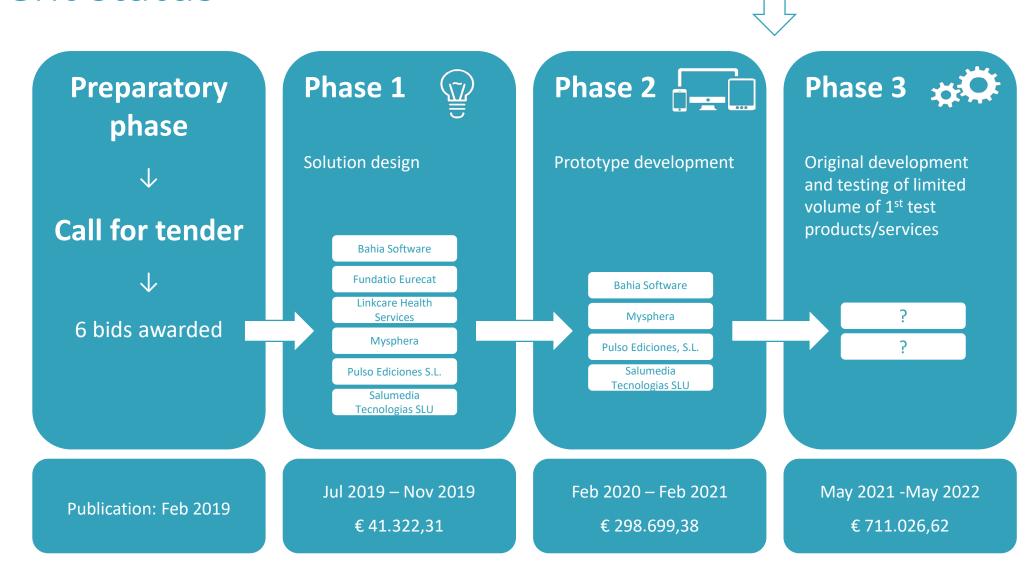
Direct benefits

- \downarrow cases of pre- and postoperative complications caused by stress
- ↓ drug consumption and medications during the complete patient journey
- ↓ time to return to daily routines
- 1 communication between patients and healthcare professionals
- 1 quality of life of patients and caregivers

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Current status





Experience of buyers

Ignacio Muñoz Carvajal, MD, PhD

Head of cardiovascular surgery unit and cardiovascular diseases research group, Reina Sofia hospital, Cordoba, Spain

Ing. Lorena Rossi

Biomedical engineer and project manager, Instituto Nazionale Riposo e Cura Anziani (INRCA), Ancona, Italy

Andrea Vallejo, MD

Anaesthetist, hospital Parc Taulí, Sabadell, Spain



Experience of buyers – INRCA

INRCA is the Italian leading research institute in the field of ageing

45% of people that undergo surgery is over 75 Years old

Innovation in anaesthesiologic techniques
Holistic approach to the patients

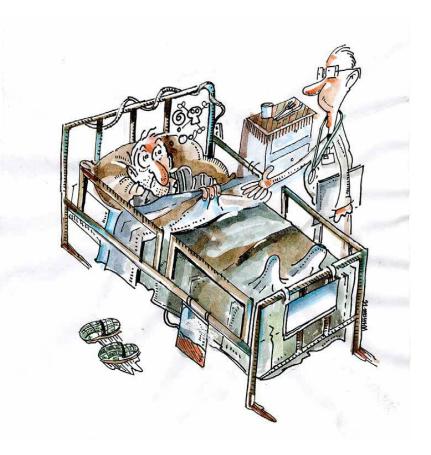




Experience of buyers – INRCA

What we expect:

- The possibility to extend the support to the patient to the moment where are not in contact with hospital
- Authentic inclusive approach in the design of the solution
- Universal design approch





Experience of buyers – INRCA

Evaluation of the PCP instrument

- Build the solution with the contractors
- A way to share the risk between procurers and suppliers
- Collaboration between the partners group in the definition of the requirements
- Focus on the needs

Questions?

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