

InovSafeCare Project

Santarém

Multiplier Event

18.10.2021



VNIVERSIDAD
D SALAMANCA



University of Applied Sciences



Escola Superior de
Enfermagem de Coimbra

Innovation and Entrepreneurship



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InovSafeCare Project

Innovation and Entrepreneurship



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1. **Research Questions**
2. Examples of Innovation

Research Questions



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- How to generate innovation related to HCAI prevention and control?
- Which techniques to use, how many phases? Which strategies to follow?
- How to motivate the students? Which group dynamics to follow?

How can students learn together to be more innovative to create solutions to solve problems ?



How can the healthcare team, create innovative solutions to solve problems?

The Key is inside the Academy



“Most of what you hear about entrepreneurship is all wrong. It's not magic; it's not mysterious; and it has nothing to do with genes. It's a discipline and, like any discipline, it can be learned.”

Peter Drucker



Entrepreneurship Office

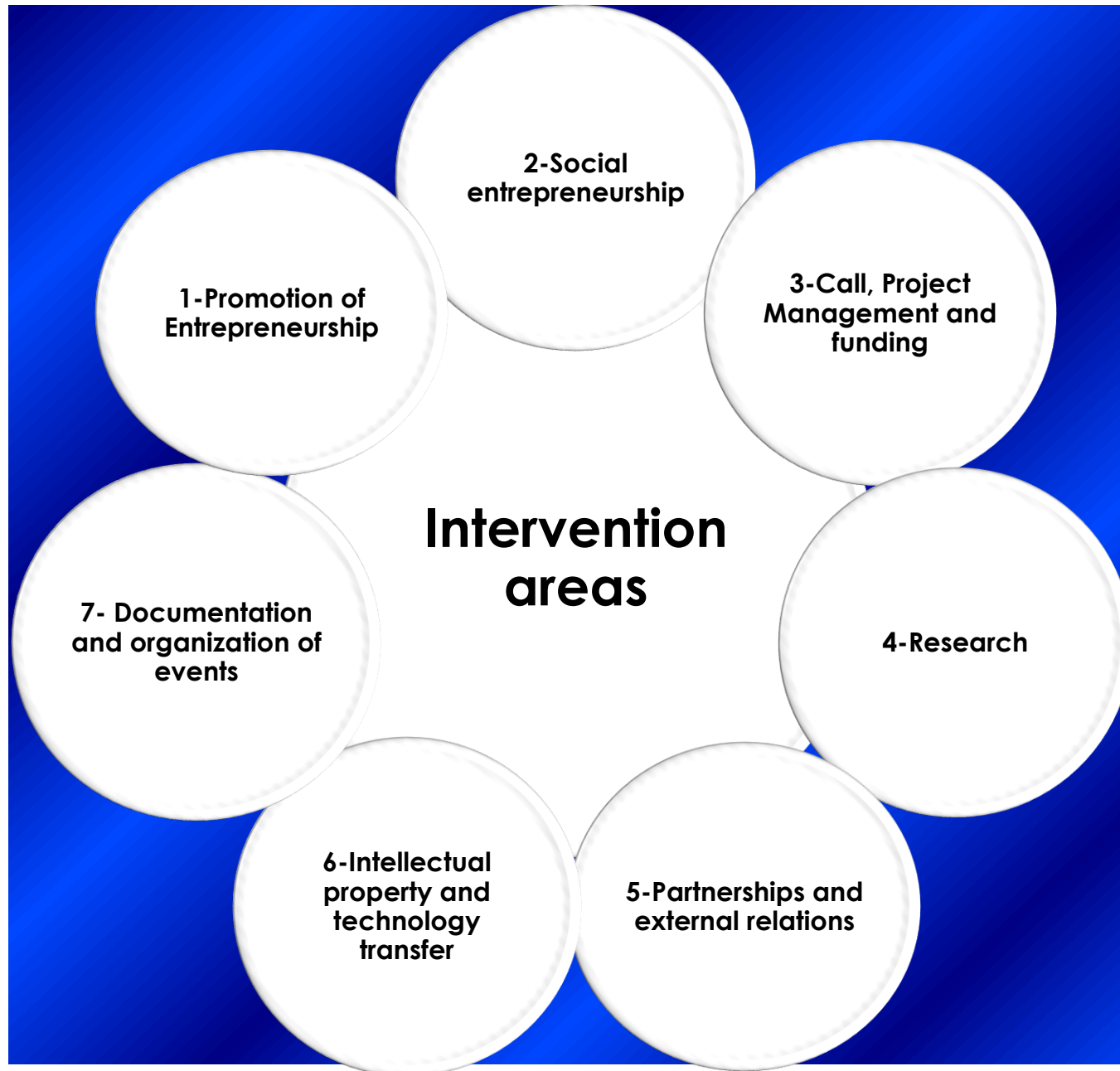


gabinete.de
empreendedorismo





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What methodologies do we use?

- Different methods: Active methodologies, Learning by doing, Design thinking, Problem solving, Exploiting the opportunities...
- Learning techniques and using different tools:
 - Blue ocean strategy (competitive advantage),
 - SWOT analysis,
 - PESTA analysis...

Entrepreneurial and Innovative Potential

HEINNOVATE Model



Leadership and
Governance



Organisational
Capacity: Funding,
People and
Incentives



Entrepreneurial
Teaching and
Learning



Preparing and
Supporting
Entrepreneurs



Knowledge
Exchange and
Collaboration



The
Internationalised
Institution



Measuring Impact

Higher Education Institutions (HEIs)





cdrip - centre for rapid and sustainable product development polytechnic institute of leiria



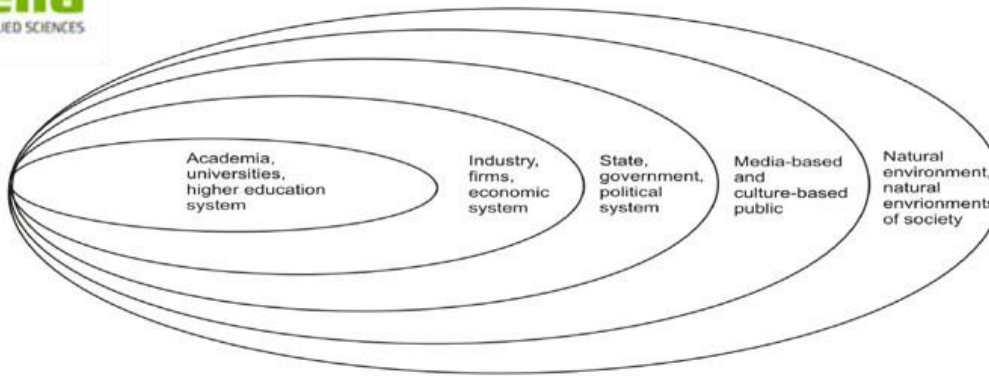
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comissão de coordenação e desenvolvimento regional do centro



Erasmus+



Quintuple Helix



IPO COIMBRA

sensingfu+ure

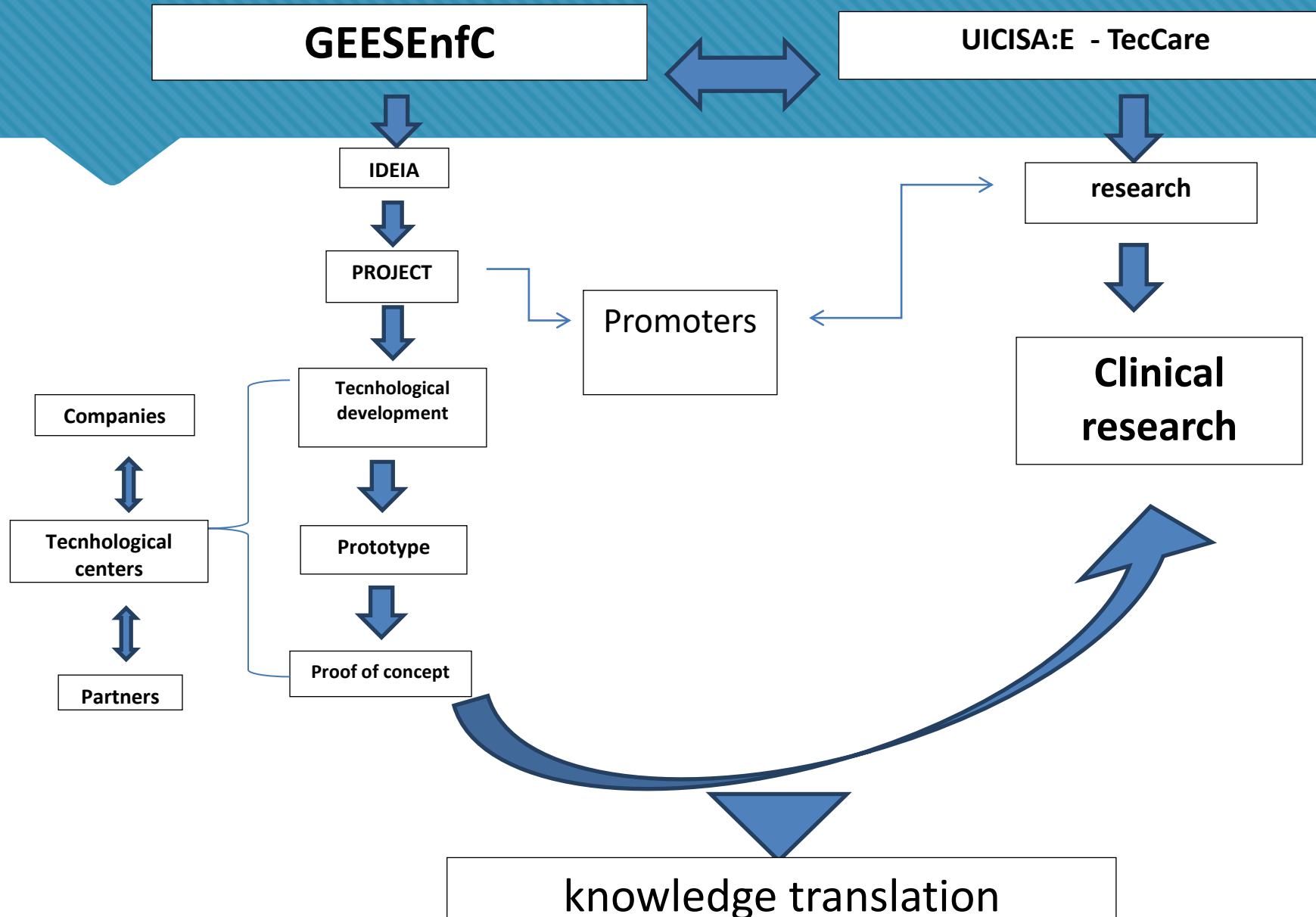
a greater step

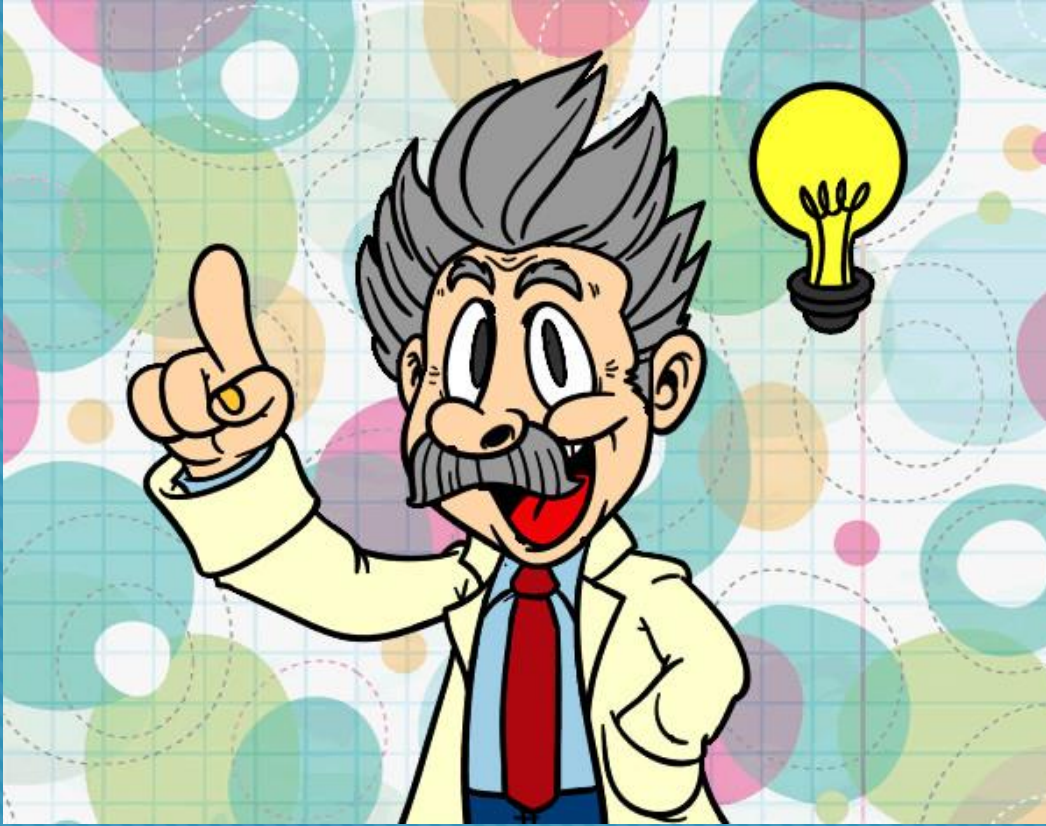


Value Life



TecCare Model -Experimental and applied research in health care technologies





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Innovation and Entrepreneurship

Examples of HCAI Innovation

Examples of Innovation



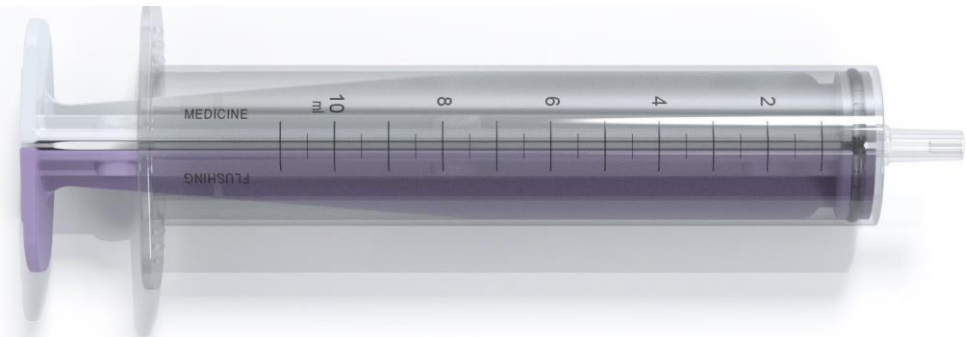
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Duo Syringe

The DUO Syringe project (in Portuguese, “Projeto Seringa DUO”) aims to develop a medical device consisting of a sequential release double chamber syringe to improve the clinical practice of intravenous administration of drugs and serums.

SERINGA DUO

Dispositivo inovador para a administração endovenosa



SERINGADUO

Dispositivo inovador para a administração endovenosa



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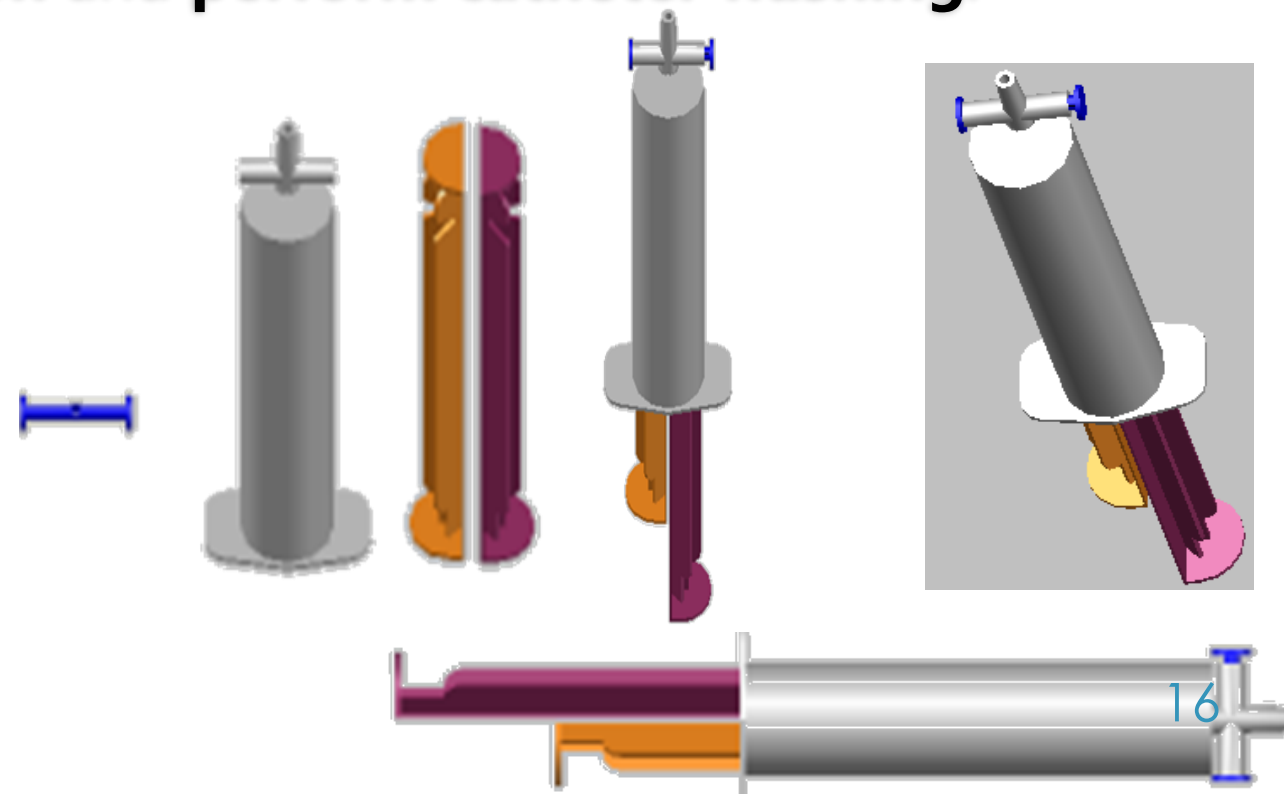


Development of a double chamber syringe that allows health professionals to **prepare and administer medication** and **perform catheter flushing**.

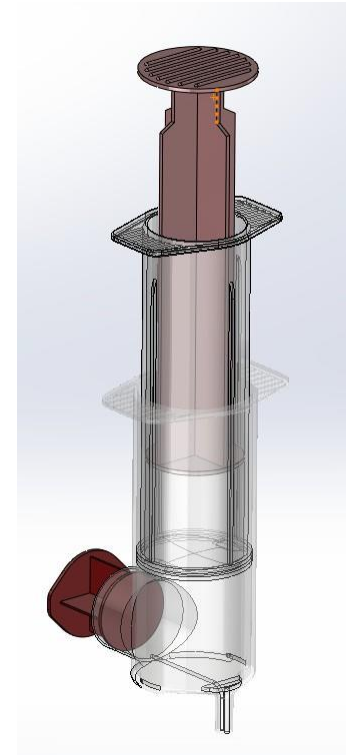
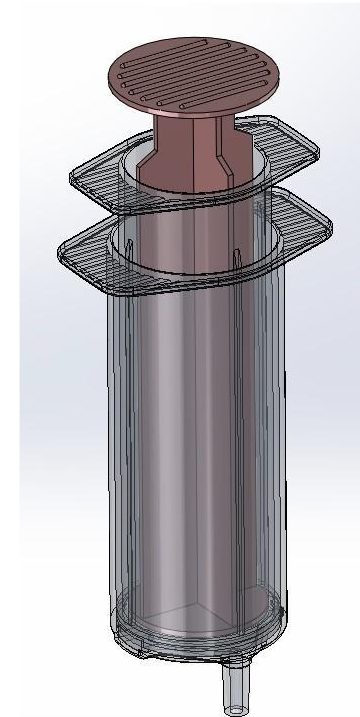
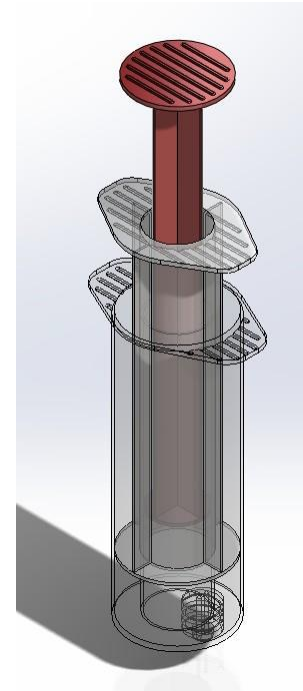
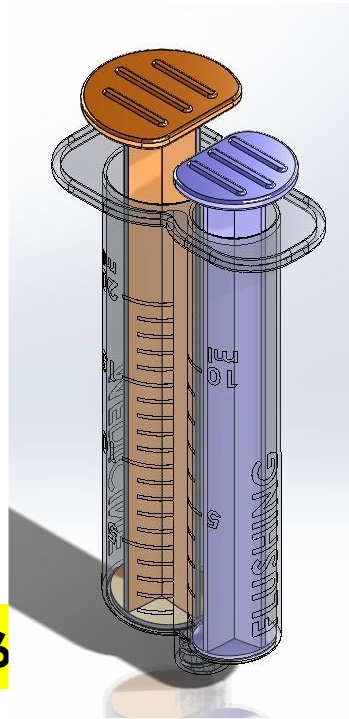
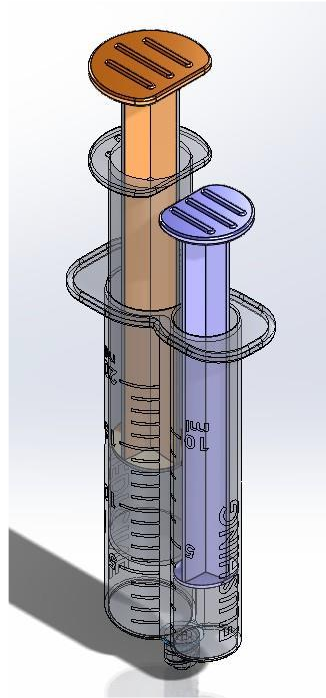
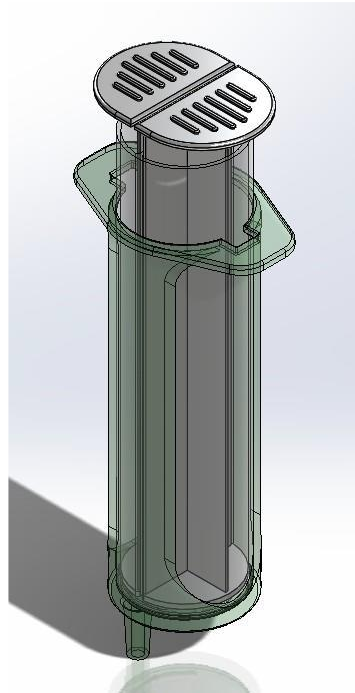
Funding: 718.339,23 €



Patent Pending- PCT/IB2020/056219



Our latest **preclinical studies** allowed for a better understanding of what could be improved in SeringaDUO.



Patent Pending- PCT/IB2020/056

Needle Discharge Protection System



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Needle Discharge Protection System



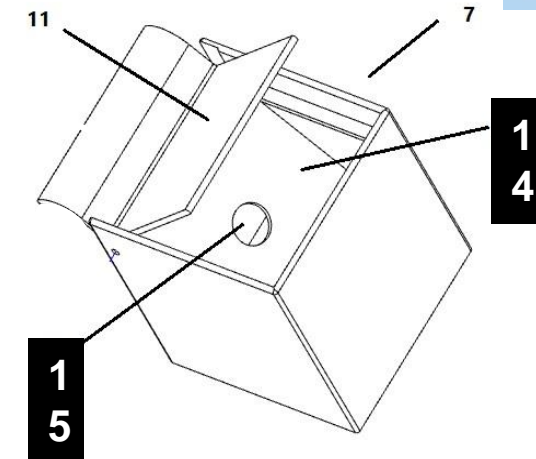
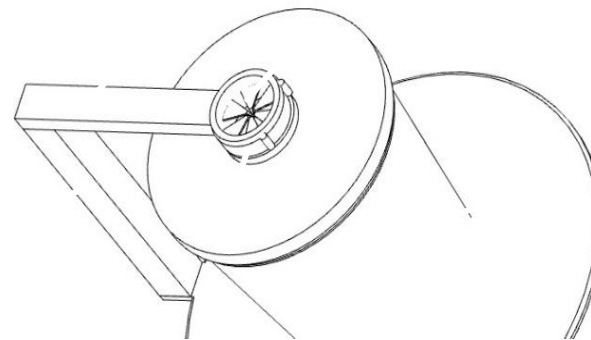
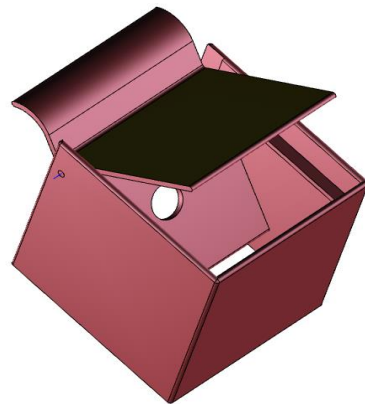
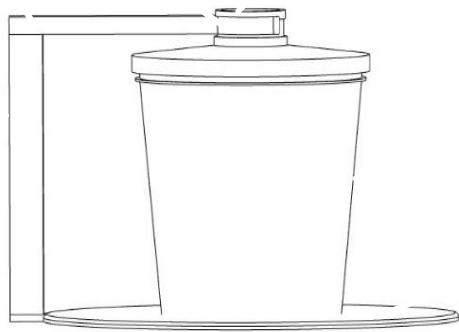
NEEDLE DISCHARGE PROTECTION SYSTEM



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SafeNeedles is a new concept of a sharps' disposal container to **prevent needle-stick injuries (NSI)**.

For both prototypes developed, health professionals **don't need to touch** the container in order to dispose of syringes and butterflies, which greatly reduces NSI ratios.



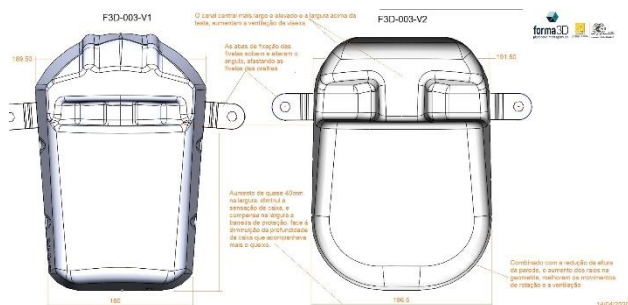
Patent Pending- PCT/IB2020/056520

Patent Pending- Portuguese Official number N° 115633

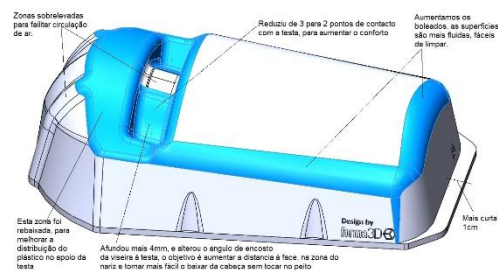
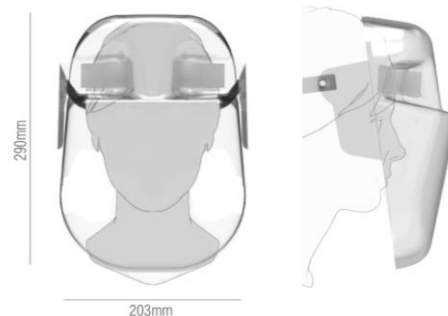
Disposable Face Shild



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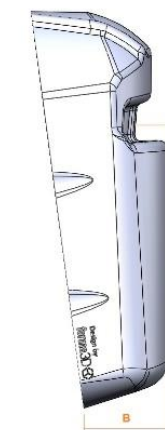
Design by
forma3D
plásticos e montagens,lda



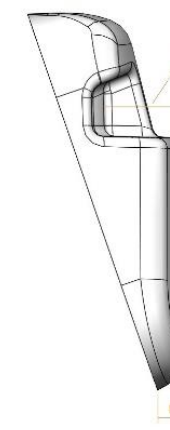
forma3D
plásticos e montagens,lda
VISEIRA DE COBERTURA FACIAL
FACE SHIELD COVER
VISEIRE DE COUVERTURE FACIALE
MASCARA DE COBERTURA FACIAL



F3D-003-V1



F3D-003-V2



Aumento da distância do apoio na testa ao plano de visão da viseira, afastando de forma significativa da face para melhor ventilação.

Diminuição para metade da caixa na zona abaixo do queixo para melhorar conforto, ventilação, diálogos.



Escalator and Handrails Decontamination System

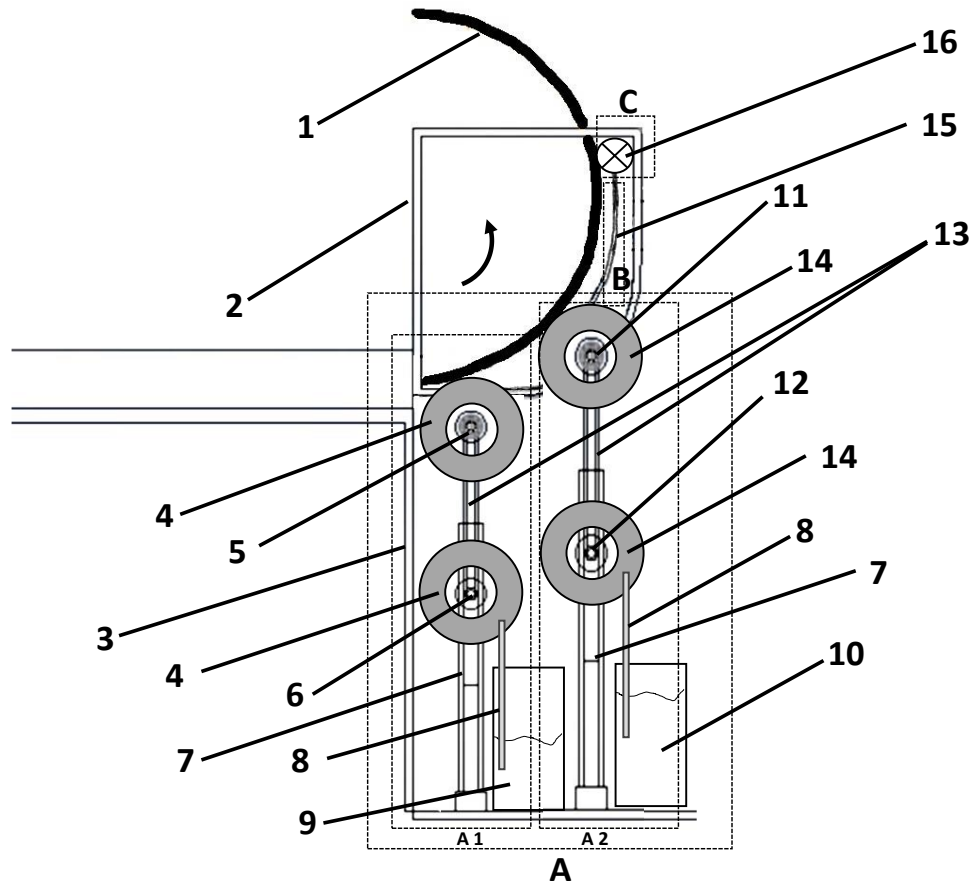
The Escalator and Handrails Decontamination System...



INNOVATION IN CLEAN HANDRAILS



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Innovative Pyjamas



InovSafeCare



4NoPressure

4NoPressure – Development of intelligent clothing for pressure ulcer prevention

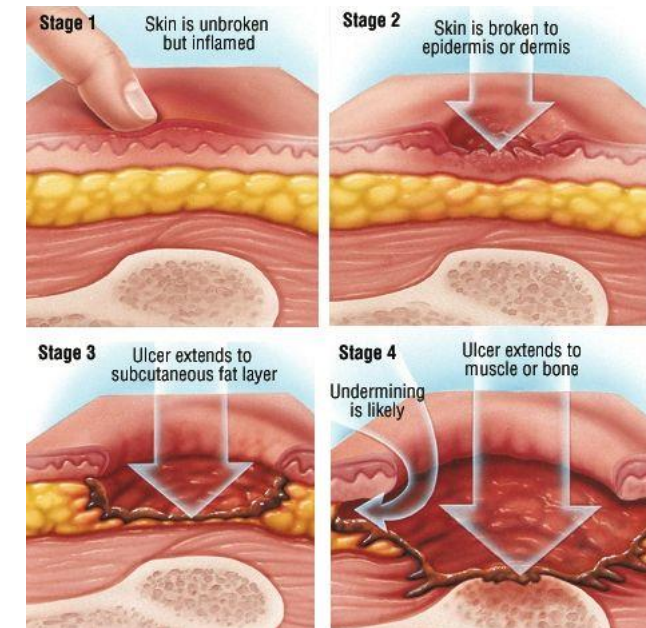
Funding: 1.3 M

ESENFEC Leader- Professor Anabela Salgueiro-Oliveira

The problem



The solution



Examples of Innovation



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Science DiabetICC Footwear

The Science DiabetICC Footwear project aims to address the lack of adjusted and adapted footwear for diabetic foot patients. This project aims to develop a new type of therapeutic footwear, with the following innovative characteristics: new insole and sole materials with a higher impact absorbing capacity, ability to adapt the shape, better recovery after loading, less abrasion, as well as the ability to reduce the risk for ulcer-related infections.

Science Diabetes|CC Footwear



NEW FOOTWEAR FOR DIABETES PATIENTS

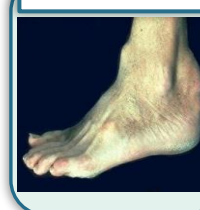
Development of personalized shoes for therapeutic purposes.

Funding: €1.031.527,00€

The problem



Rheumatoid Arthritis



Hálux valgo



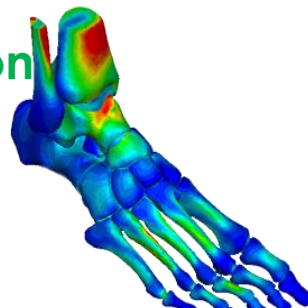
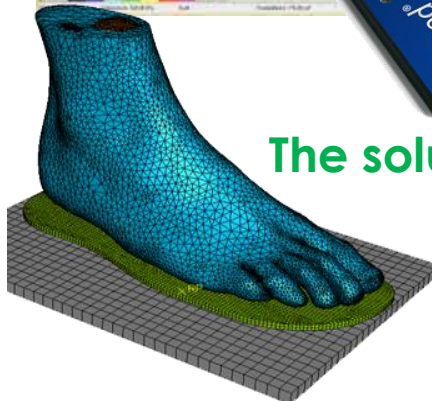
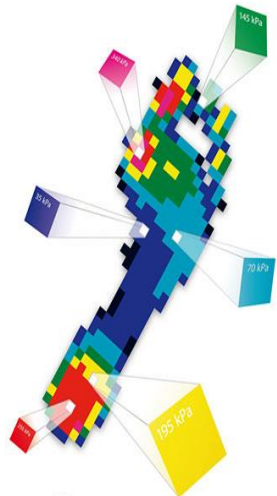
Calcaneus Spur



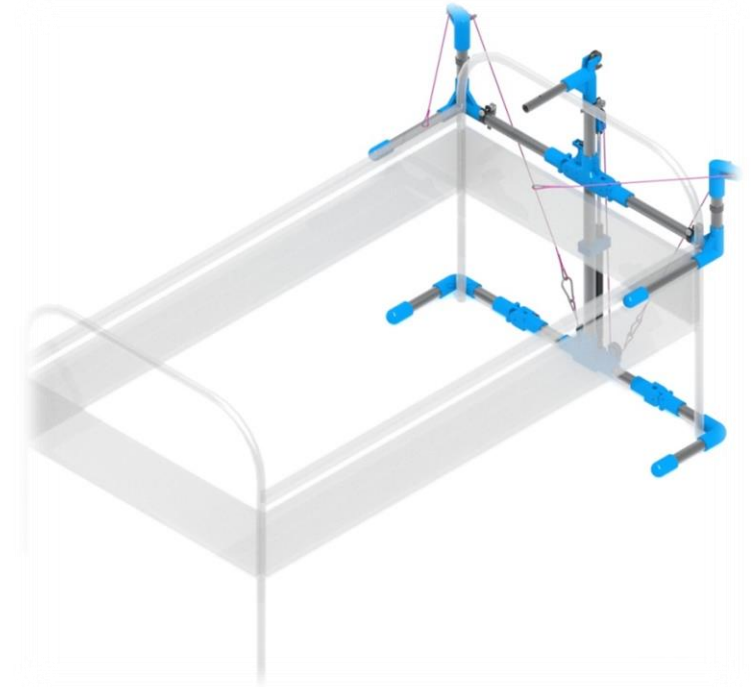
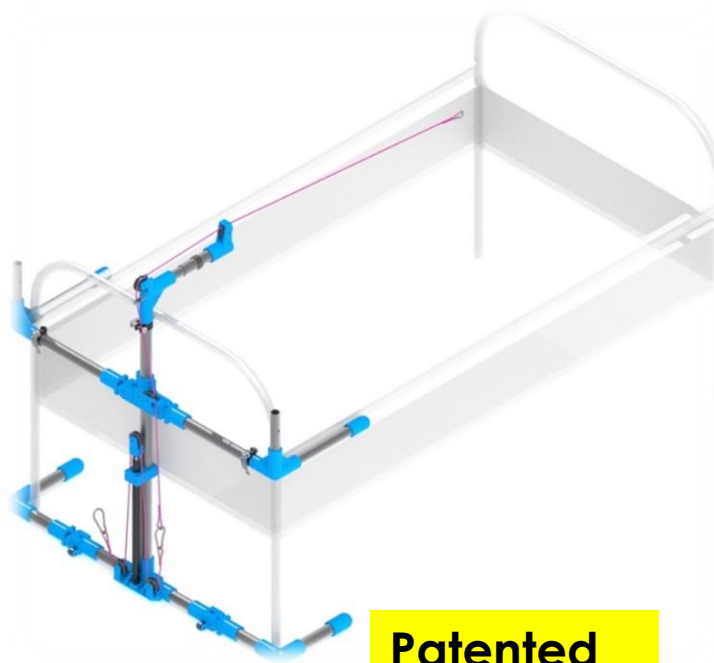
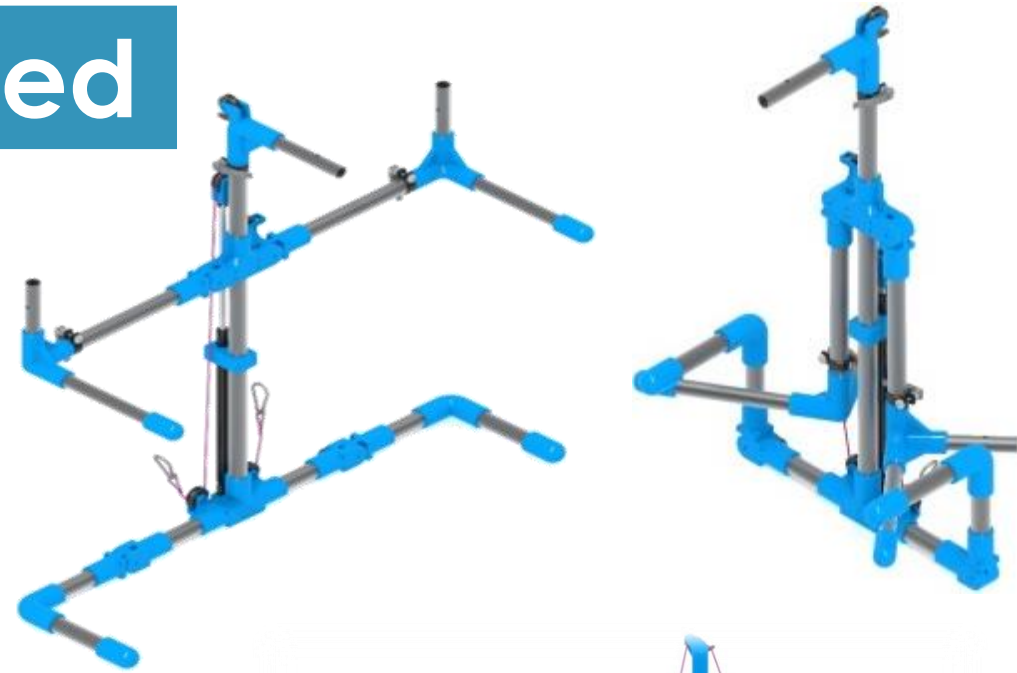
Plantar Fasciitis



The solution



Physical exercise in bed



Patented

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Thank you for your attention!



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