Together for Healthier Lives in Europe

Morning Health Talk
25 September 2020
Prague
EIT Health is supported by the EIT, a body of the European Union.
About EIT Health

EIT Health is a vibrant community of some of the world's leading health innovators backed by the European Union.

Working across borders, we harness the brightest minds from business, research, education and healthcare delivery to answer some of Europe’s biggest health challenges.
The challenge

Europe is facing a turning point in healthcare.

- A growing ageing population
- An increase in infectious diseases, pandemic threats and antimicrobial resistance
- Chronic diseases are the leading cause of mortality and morbidity in Europe\(^1\)
- Rising costs of healthcare delivery alongside spending constraints
- Social and healthcare systems are typically slow to change and adapt

Based on current trends, the cost of healthcare is expected to double by 2050.\(^2\)
Our approach

We identify unmet needs and initiate innovation to solve Europe’s biggest health challenges today, and in the future.

Our community includes approximately 150 world-class partner organisations, and works across borders to connect business, research and education.

We call this meeting point the 'knowledge triangle', where life-changing innovation happens.

We create an environment where the brightest minds can explore new ideas, allowing a new type of healthcare to thrive for the benefit of citizens.

We empower a network of innovators to break down barriers, challenge convention and take action to put life-changing products and services into citizens’ hands.
## Expertise from all areas

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Our presence

EIT Health supports cross-border collaboration.

Six regional innovation hubs
Operate as strong clusters of relevant actors collaborating as a thriving ecosystem.

InnoStars
Headquartered in Budapest, EIT Health InnoStars spans several geographic regions in Hungary, Italy, Poland and Portugal.

EIT Health Regional Innovation Scheme (RIS)
14 EIT Health Hubs in 13 countries to close the gap between regions that are healthcare innovation leaders and those with more moderate innovation.

Beyond Europe
Further hubs in the United States and Israel, connect innovators across Europe to other key thriving ecosystems beyond the EU.
Our programmes: Accelerator, Campus and Innovation

Accelerator
A catalyst to business growth to deliver transformative products and services.
Shortens the time-to-market for entrepreneurs, start-ups and SMEs, while creating new jobs and contributing to a thriving health economy.

Campus
Bridges the gap between academia and enterprise to upskill professionals on new innovative techniques, providing the practical knowledge and inspiration to deliver future innovation.
Engages learners across society, from citizens to established healthcare professionals.

Innovation
Connects bold approaches to the people who can make them a reality by turning them into a commercially-viable product or service.
Builds a task force of world-class experts from business, research and education.
EIT Health’s Impact
EIT Health impact in 4 years: 2016 - 2019

- **162** innovation projects supported
- **87** products and services to market
- **754** start-ups supported
- **36,000** graduates and professionals trained
Innovation in action
Better@Home is harnessing telemedicine to provide at-home care and ease hospital pressure

1. Hospitals are facing huge pressures with growing multi-morbidity and chronic disease in people across Europe.

   Meanwhile, the number of hospital stays is increasing and there is urgent need to find a cost-effective alternative to ensure the quality of care for all, while enabling healthcare professionals to give more time to emergencies.

2. Cutting hospital costs, relieving hospital pressures and enhancing patient care.

   Better@Home provides an integrated solution that uses technology to improve the care of patients hospitalised at home. Patients will be monitored using devices that measure their vital signs and report back to a healthcare professional who will follow up with the patient remotely.

   Better@Home will be able to monitor and treat a variety of conditions that require hospitalisation, from chronic obstructive pulmonary disease (COPD), to pneumonia, infections and heart failure.

3. EIT Health brought together five key partners from the worlds of education, research and healthcare delivery to enable Better@Home to come to life.

   Better@Home will be developed and implemented at the Hospital Infanta Leonor in Madrid, joining together all the vital pieces of the jigsaw to make this pioneering innovation a reality.
Regional Innovation Scheme
EIT Health’s RIS programme started in 2017 with the following goals:

**Integration**
Integrate countries that have moderate or modest innovation performances according to the European Innovation Scoreboard (RIS eligible countries) into EIT Health activities.

**Knowledge Transfer**
Ensuring knowledge transfer towards EIT Health RIS regions to promote entrepreneurship and innovation.

**Ecosystem Development**
Provide comprehensive support and mentoring services for RIS regions to enhancing innovation capacity by mobilizing local KTI actors, working out joint development strategies and implement joint local innovation projects.
EIT Health RIS strategy

There is a strong need for bridge function

INTEGRATION  KNOWLEDGE TRANSFER  ECOSYSTEM DEVELOPMENT
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GATEWAY TO UNTAPPED POTENTIAL

14 HUBS in 13 REGIONS

2019

12 new healthcare consortia supported
50 accelerated start-ups
900 innovators equipped in new skills
Over 100 workshops and trainings in regions
Top 15 selected projects

1. LATVIA
AI driven IP intelligence engine for early stage drug discovery

2. LITHUANIA
Patches for psoriasis treatment

3. CZECH REPUBLIC
HepaMATRIX - Active 3D cell culture system for primary hepatocytes

4-5. SLOVENIA
Strengthening intergenerational playing cards
Remote therapy management in chronic heart failure patients
6-7-8-9. ROMANIA
Diagnosis and follow-up system based on artificial intelligence algorithms and transthoracic ultrasound image analysis for diffuse lung diseases

TULLY - Wearable device for emotion monitoring and control for children diagnosed with ADHD (Attention-Deficit/Hyperactivity Disorder)

HEAL4LIV - Innovative robotic system for cancer treatment

Improvements of an existing 3D freehand ultrasound periodontal scanner prototype using bidimensional neural networks driven segmentation techniques
10. CROATIA
3D Virtual Navigation which integrates high resolution stereo depth camera with medical imaging systems with ‘in the air’ real control of surgeon’s hands

11-12. ITALY
Big Data Software Services for Decision Support in Precision Medicine

FDG Dosimeter
13-14-15. PORTUGAL

Libra - digital platform for promoting and sustaining healthy behaviours in Obesity

FRADE - Pervasive platform for fall detection, fall risk assessment and prevention

Adherence to hypertension treatment and blood pressure self-monitoring using embedded smartphone camera and advanced image processing
Thank you!

Ewa Guzek – EIT Health Innostars RIS Lead

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