

# CLUST-ER

# HEALTH

# SALUTE E BENESSERE



**Emilia-Romagna Region**  
**The Clust-ER Health and Wellbeing**  
supported by ESI Funds

ESI Funds for Health  
Brussels, 7 December 2018

Aki Ishiwa

# REGIONAL SMART SPECIALIZATION STRATEGY

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**LEADING INDUSTRIAL  
SECTORS**



**HIGH POTENTIAL OF GROWTH  
AND COMPETITIVITY**

# THE CLUST-ER HEALTH & WELLBEING INDUSTRIES

The Clust-ER Health brings together **7** big enterprises, **16** SMEs, **25** research organizations & university's labs, **6** hospitals and **11** other organizations.

## Members

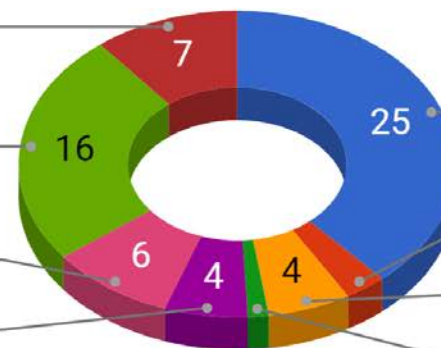


Grandi Imprese  
10,8%

PMI  
24,6%

Ospedali / Strutture Sanitarie  
9,2%

Operatori dell'assistenza socio-sanitaria  
6,2%



Laboratori e Organismi di Ricerca  
38,5%

Enti di formazione  
3,1%

Agenzie per l'innovazione  
6,2%

Altri enti  
1,5%

## KEY PLAYERS

- Chiesi Farmaceutici S.p.A
- AlfaSigma S.p.A
- Menarini Silicon BioSystem SpA
- BBraun S.p.A.
- Holostem Terapie Avanzate S.r.l.
- Tecnopolo di Mirandola

- n.4 IRCCS institutes (Rizzoli, IRST, ISNB, Reggio Emilia)
- Alma Mater Studiorum - Università di Bologna
- Università degli Studi di Modena e Reggio Emilia
- Università degli Studi di Ferrara
- Università degli Studi di Parma
- CNR / MistER

# CLUST-ER HEALTH OBJECTIVES

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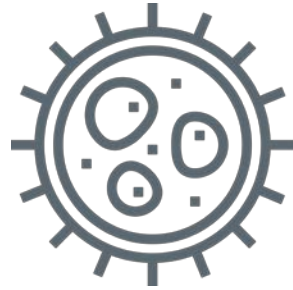
- Promote competitiveness of **biotech, pharmaceutical, medtech** and **wellness** companies and of the regional ecosystem
- Support the development of **new advanced therapy medical products** (ATMPs) and **new drugs and therapeutic devices**, maximizing efficacy and improving patient's **quality of life**
- Support the development of **smart medical devices** such as hardware & ICT resources, wearable devices, etc.. for diagnostic or therapeutic purposes
- Promote people's **health and well-being** encouraging healthy **lifestyles**
- Support innovation in industrial processes introducing **biofabrication and industrial modernization (4.0)**
- **Reduce time-to-market** of innovative technologies with proven cost/effectiveness ratio
- Increase efficiency and **public/private healthcare integration** focusing on de-hospitalization, patient-centric care pathways and autonomy
- Ensure a continuous industrial innovation, through **collaborative projects** between companies, research laboratories, healthcare systems.

# THE 4 VALUE CHAINS OF THE CLUST-ER HEALTH

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**BioMedTech** - New generation Medtech



**MedReR** - Regenerative and Restorative  
Medicine

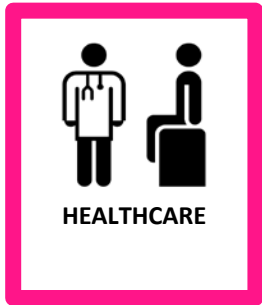


**POSERR** - Pharmaceutical and Omics Sciences in Emilia Romagna  
Region



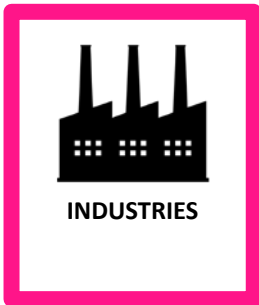
**SalusTECH** - Smart and Active Living, inclusive  
services and USable TECHnologies

# EMILIA-ROMAGNA HEALTH ECOSYSTEM



6 Universities in 11 cities (more than 140.000 students)

2 ITS Foundation – Higher Technical Institutes focused on health & wellbeing

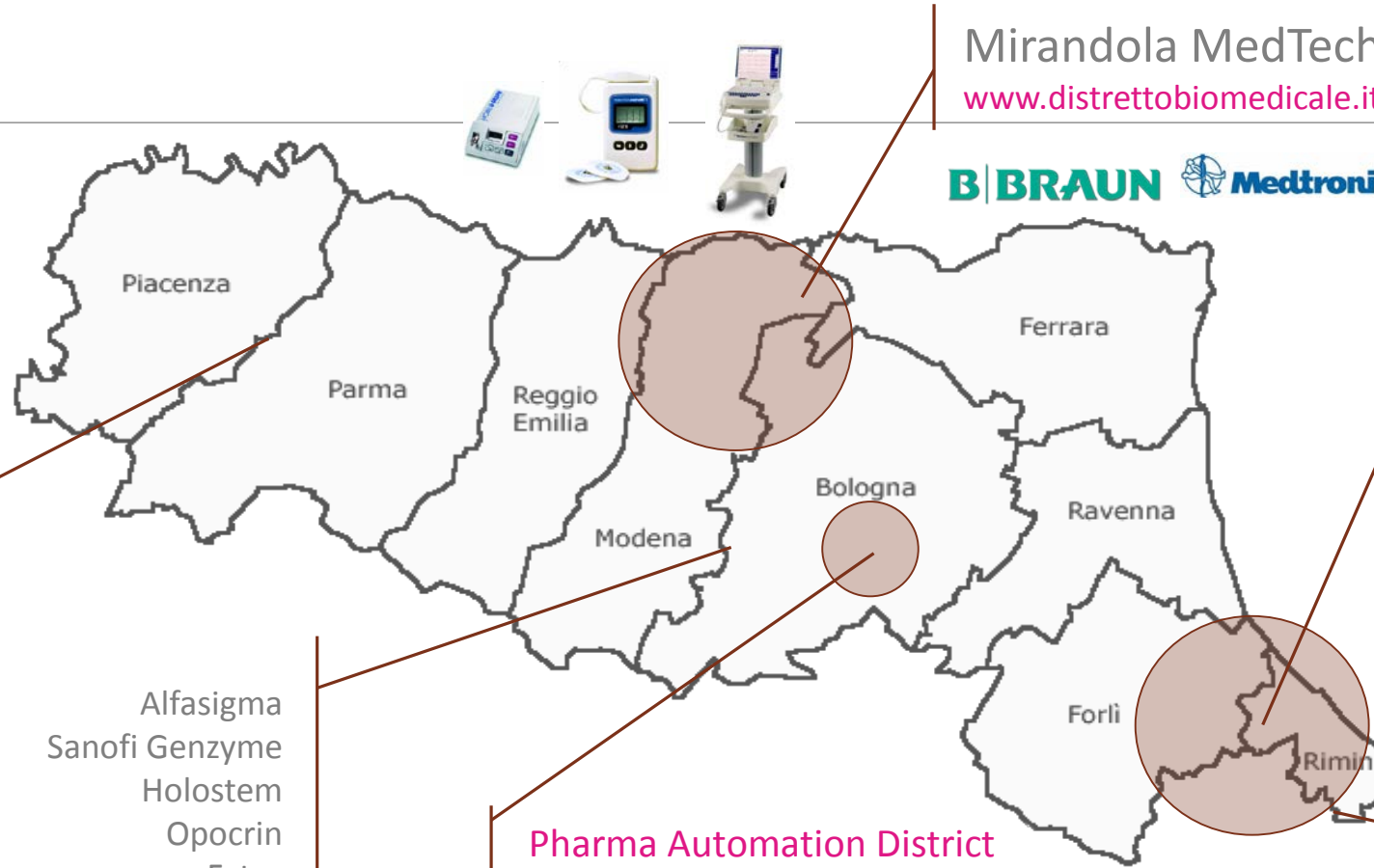
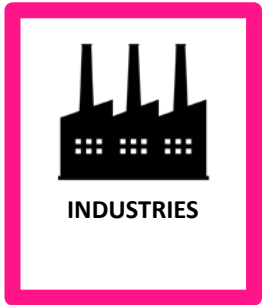


26 Industrial Research Labs

Research Centres

CNR, ENEA, INFN, MIST-ER, IASF, INGV, CINECA, IOR, CNIT, SSICA, CMR

# EMILIA-ROMAGNA HEALTH ECOSYSTEM



Valpharma International

# INTEGRATION OF POLICIES AND RESSOURCES

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## **ERDF**

- **strategic industrial research projects** (research laboratories as beneficiary)
- **Collaborative projects** (enterprise as beneficiary)
- **Industry 4.0 projects**
- **Innovative services** (consulting services for smes)

## **ESF**

- **Vocational education and training**
- **Polytechnic network**
- **Higher education and research**
- **Employment and skills**
- **Soft skills**
- **PHD masters courses**
- **Job education pathways**
- **Big data competences (PHD and post graduate training)**



# SUCCESS CASE: 3D PRINTING

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## **M3DATEK**

From a BioPharmaNet-Tec idea

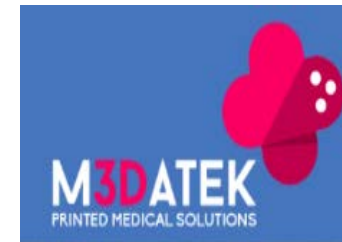
2015 → **50k€** BIOUPPER winner

2016 → startup establishment for production and trading  
of gauze/scaffold made with a new patented  
Kitosane

**10k€** Start Cup Emilia-Romagna winner

**10k€** e servizi Premio Marzotto

2017 → medical device registration



# SUCCESS CASE: REGENERATIVE MEDICINE

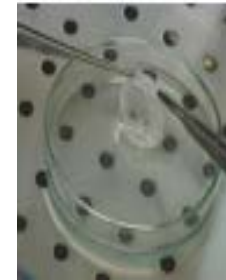
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## **HOLOSTEM Terapie Avanzate**

2008 → spin-off of University UNIMORE and Chiesi devoted to epithelial tissue regeneration

2015 → **Holoclar**<sup>®</sup> first European registered product based on autologous stem cells used for cornea reconstruction.

2017 → Phase II clinical trials for a gene therapy for the treatment of Epidermolisi Bollosa (EB)



# Thank you

Clust-ER Health and wellbeing

<https://www.retealtatecnologia.it/en/clust-er/life-sciences-and-wellbeing>

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