

# LaserEMobility Workshop 2022

Network and know-how for Laser  
based manufacturing in the EV sector

Organized by



POLITECNICO  
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# BI-REX, THE ITALIAN COMPETENCE CENTER SPECIALIZED IN BIG DATA

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*BI-REX General Manager*

**10<sup>th</sup> March 2022**

# OVERVIEW ON BI-REX

## Who we are

BI-REX is one of the 8 Italian Competence Centers funded by the Italian Ministry of the Economic Development, within the Industry 4.0 National Plan.

Our **public-private Consortium**, born in 2018, has the headquarter in Bologna (Italy) and **gathers in partnership 56 players** among Universities, Research Centers and Companies of excellence: *our main focus is on Big Data*. BI-REX is the only Italian Competence Center with an industrial leadership.

## Our Mission

- ❑ To support companies in their **digitalization and innovation processes** and in the **adoption of enabling technologies** with a view to **Industry 4.0**.
- ❑ Facilitate the exchange of “**best practices**” and **Technology Transfer**.

# OUR PARTNERS

bi-rex  
Big Data Innovation & Research Excellence

12

## Institutions



27

## End Users



17

## Technology Service Providers



7

## Industries





# BI-REX AND EMILIA-ROMAGNA DATA VALLEY

**Emilia-Romagna** Region can be considered today as the **European Data Valley** and **Bologna** is an **important hub of HPC/AI European infrastructure**, thanks to presence of:

- ☐ The European Centre for Medium-Range Weather Forecasts (**ECMWF**) data center and supercomputing facility
- ☐ The **CINECA** data center towards exascale computing
- ☐ The **INFN** data center towards extreme HPTC
- ☐ The **European High Performing Computing Centre HPC**
- ☐ The National Agency **Italia Meteo**
- ☐ National Agency for Energy and Environment **ENEA** research centers
- ☐ Istituto Ortopedico Rizzoli (**IOR**) biobank center
- ☐ **INAF** Cherenkov Telescope Array
- ☐ **IBM** center Big Data and AI for aging



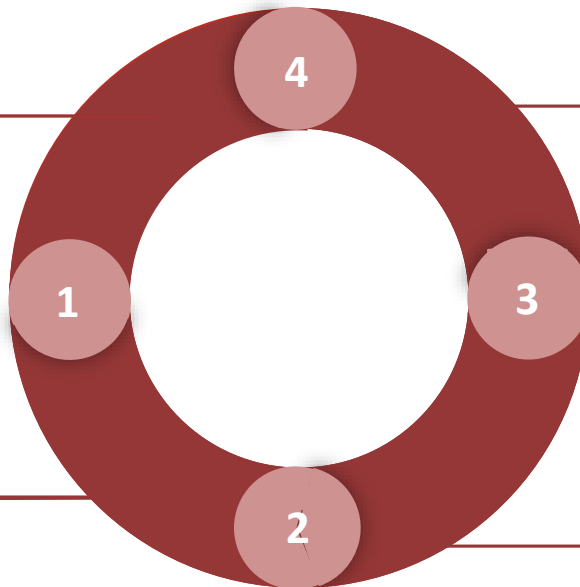
**Highlander**  
High performance computing  
to support smart land services

**BI-REX is a key player in Emilia-Romagna Data Valley,  
perfectly integrated within Bologna hub and local Technopole**

# OUR STRENGTHS

An **orientation, training and consultancy** system for companies, closely integrated with the Digital Innovation Hubs

A wide ecosystem including **industrial innovation projects** and collaborative public-private industrial research projects



**Dedicated areas within our structure** where conferences, meetings, training and coworking activities can be implemented

A **Pilot Plant** where Industry 4.0 enabling technologies can be implemented and optimized

# OUR PILOT PLANT

## Main features

The Pilot Plant is an **advanced production line**, where new **Industry 4.0 technologies** are **integrated with traditional ones**, in a **digitally interconnected environment**.

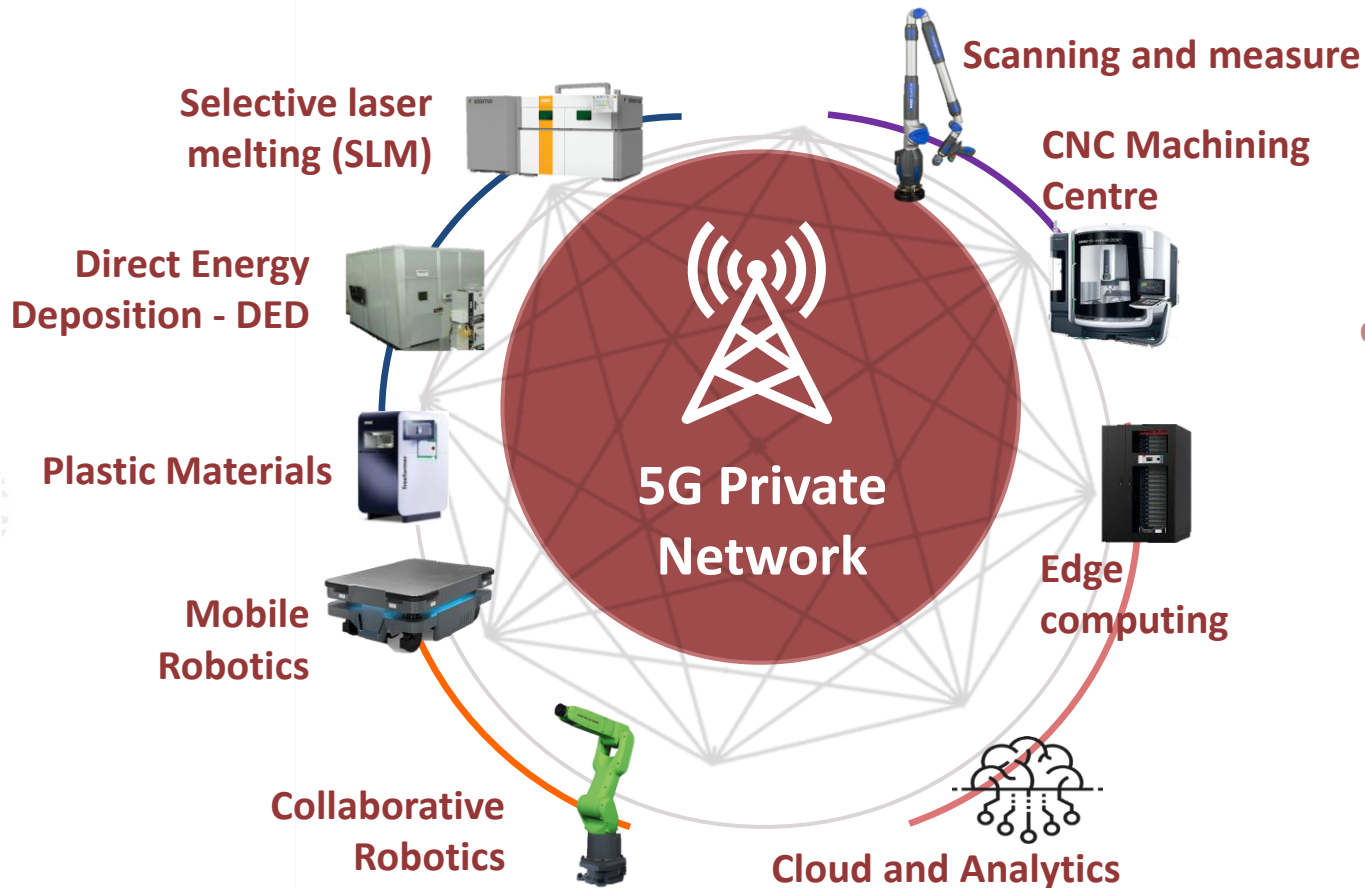
It is a **smart factory** where companies and professionals involved in Industry 4.0 context can test **high added value solutions and processes**.

The Pilot Plant has been **designed in order to:**

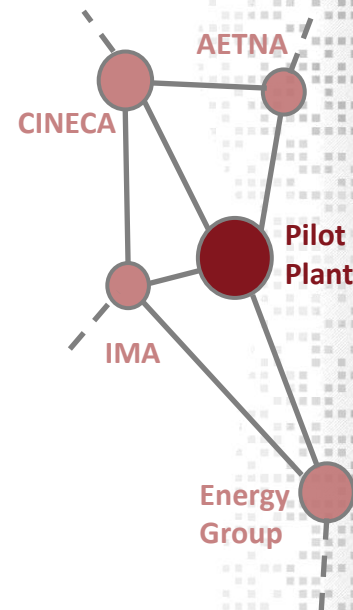
- ❑ make available a **production area for Test Before Invest activities**;
- ❑ **support technological innovation** of enterprises;
- ❑ supportare i servizi support BI-REX services such as **"hands on" training** and business orientation.



# OUR PILOT PLANT



**Innovation  
Center Network**  
*Federated Technologies*





# OUR CONTACTS



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