

3RD ANNUAL

CANADA - ITALY BUSINESS FORUM ON ARTIFICIAL INTELLIGENCE

NOVEMBER 18-19, 2021
VIRTUAL EDITION

SIGNATURE EVENT



OFFICIAL PRESENTER



ROUND TABLE DIGITAL HEALTH

Artificial Intelligence and the challenge of Sustainability

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BI-REX General Director

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Main features

BI-REX for Life Science Action Plan aims at the creation of a **supply chain** able to:

- ❑ offer **technological solutions** supporting **proximity healthcare** and **smart hospitals**;
- ❑ **attract the main industrial players** in the biomedical sector and **Industry 4.0 enabling technologies** applied to Healthcare.

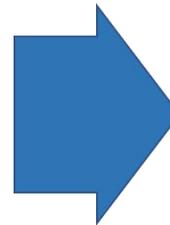
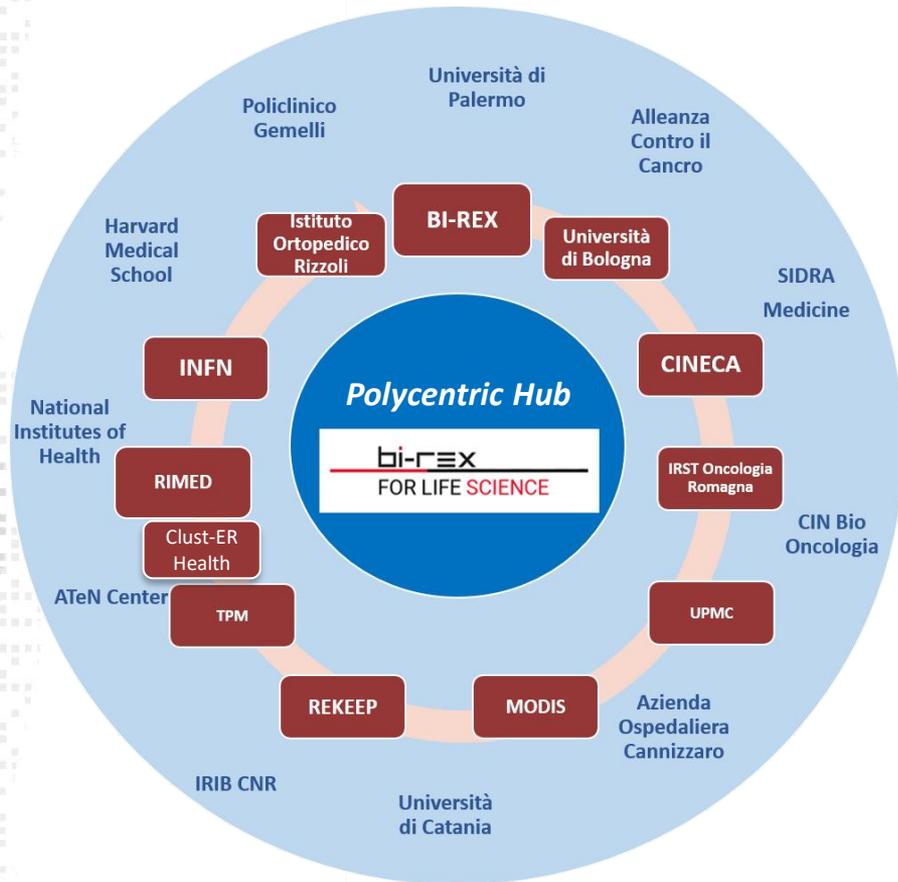
It is a national **polycentric Life Science Hub** able to **compete** with the most important European and international **technological poles** and to support the **digital transformation** of the National Health System.

BI-REX created this project in order to **promote** on the national territory **an innovative ecosystem** where **public and private partnerships** of excellence operate in a synergic way in **Life Science** area.

Integration between 4.0 technologies and the Healthcare-Hospital sector

Technologies	Application Fields
Digitalization, IoT, Sensor Systems	Digital health, preventive and participatory medicine, services innovation, telehealth, remote patient monitoring, teletherapy
Artificial Intelligence Machine and Deep Learning	Precision, predictive and remote diagnostics, personalized therapies, processes innovation, new treatment models, clinical decision support, <i>data driven</i> predictive medicine
Augmented and Virtual Reality	Clinical procedures simulation, infrastructure and devices management
Robotics and Automation	Bio-cooperative mechatronic systems, hygiene, sanitization, surgery, rehabilitation, home patient care
Big Data, Analytics, Supercomputing	Integrated computational approaches, environmental and lifestyle factors analysis, drug development, advanced and personalized therapies

POLYCENTRIC HUB'S COMPONENTS



3 Pilot Projects for Italian health system



Big Data for Biomedical Research and the personalization of treatments in oncology field



Virtual hospitals and Telemedicine services network for proximity healthcare



4.0 Hospitals between sustainability and innovation

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