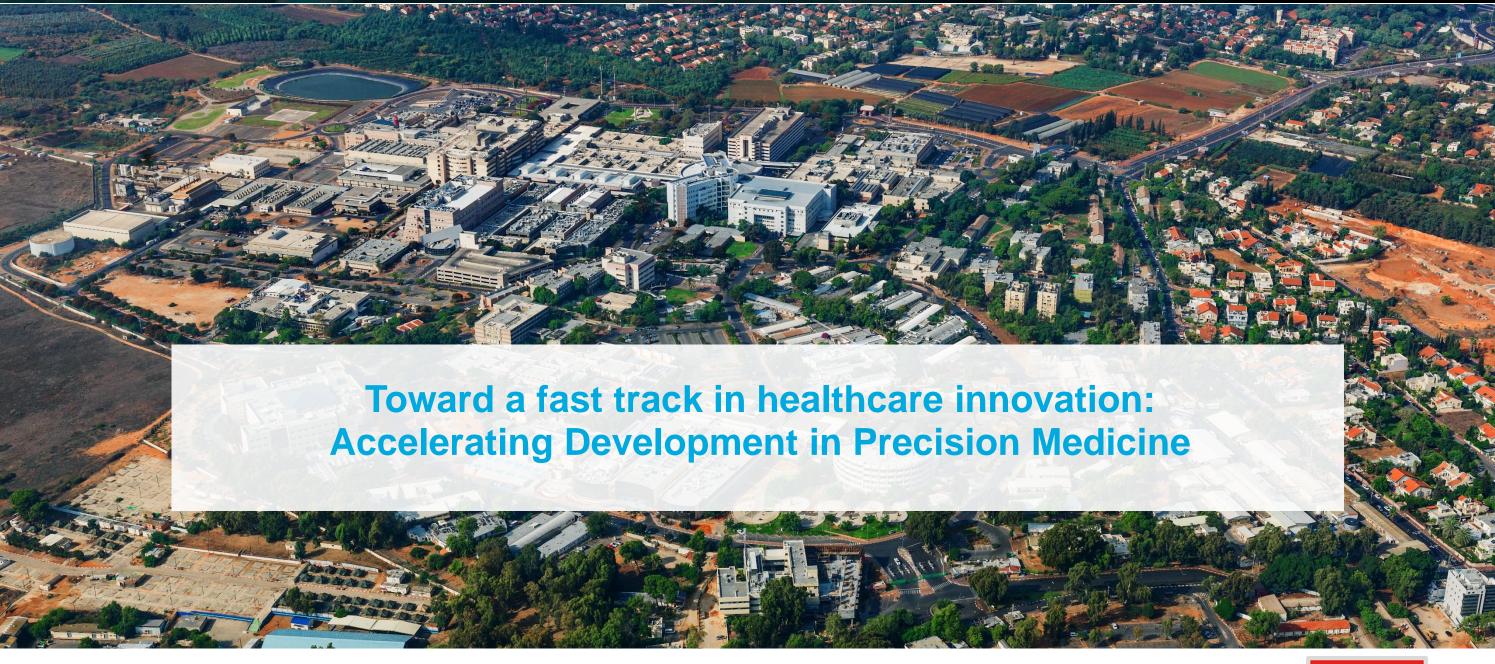


## Innovation at Israel's National Medical Center



INNOVATION AT SHEBA MEDICAL CENTER



Prof. Eyal Zimlichman Chief Transformation Officer Chief Innovation Officer Sheba Medical Center





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#### **About Sheba Medical Center**



#### SHEBA Comprehensive hospital





The Josef Buchman Gynecology and Maternity Center



The Charles Clore Acute Care Hospital



The Cancer Center



The Sheba Rehabilitation Hospital

The Edmond and Lily Safra Children's Hospital

The Olga & Lev Leviev Heart Center



### Sheba by the Numbers Facts and Figures







#### **Data at Sheba Medical Center**



Image: Constant of the second secon



Supply Systems



**EMR & CPOE** 



Finance-TMR, Gomla Ltd.



HR





Vital Signs Systems

Medical Admin.

DATA LAKE



Logistics

# **Recent Recognition: Top 10 for Four Straight Years**





INNOVATION AT SHEBA MEDICAL CENTER

RANKINGS 11-100

### **Setting the Vision for Health 2030**



INNOVATION AT SHEBA MEDICAL CENTER





Date: October 22-25, 2018 Location: Sheba Medical Center, Israel



Date: November 17-18, 2019 Location: University Hospital of Montreal (CHUM), Montreal, Canada



Date: December 17, 2020 Location: Virtual



Date: October 25, 2021 Location: Virtual



**Setting the Vision** 



# **Innovation Enabling Transformation**

*Telehealth* 



Artificial Intelligence





VR and AR



**Robotics** 







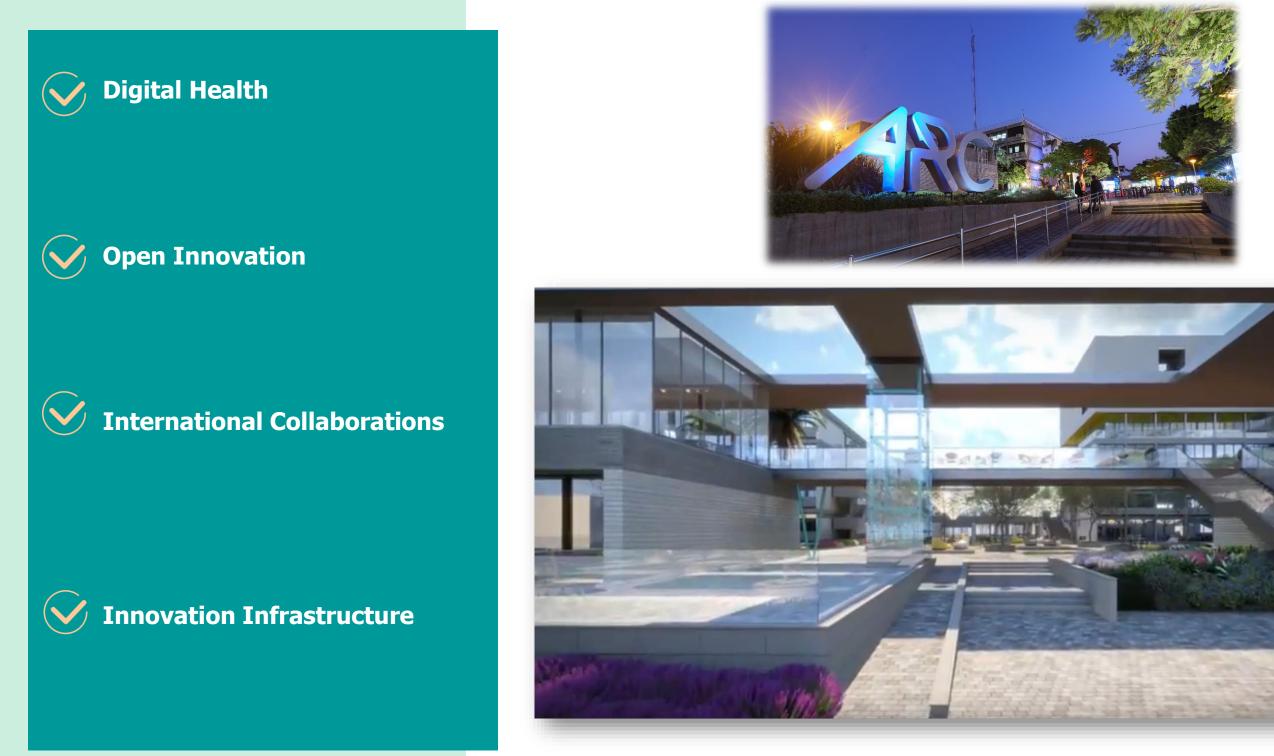


# ARC Accelerate Redesign Collaborate

Creating an ecosystem that will change the future of medicine together



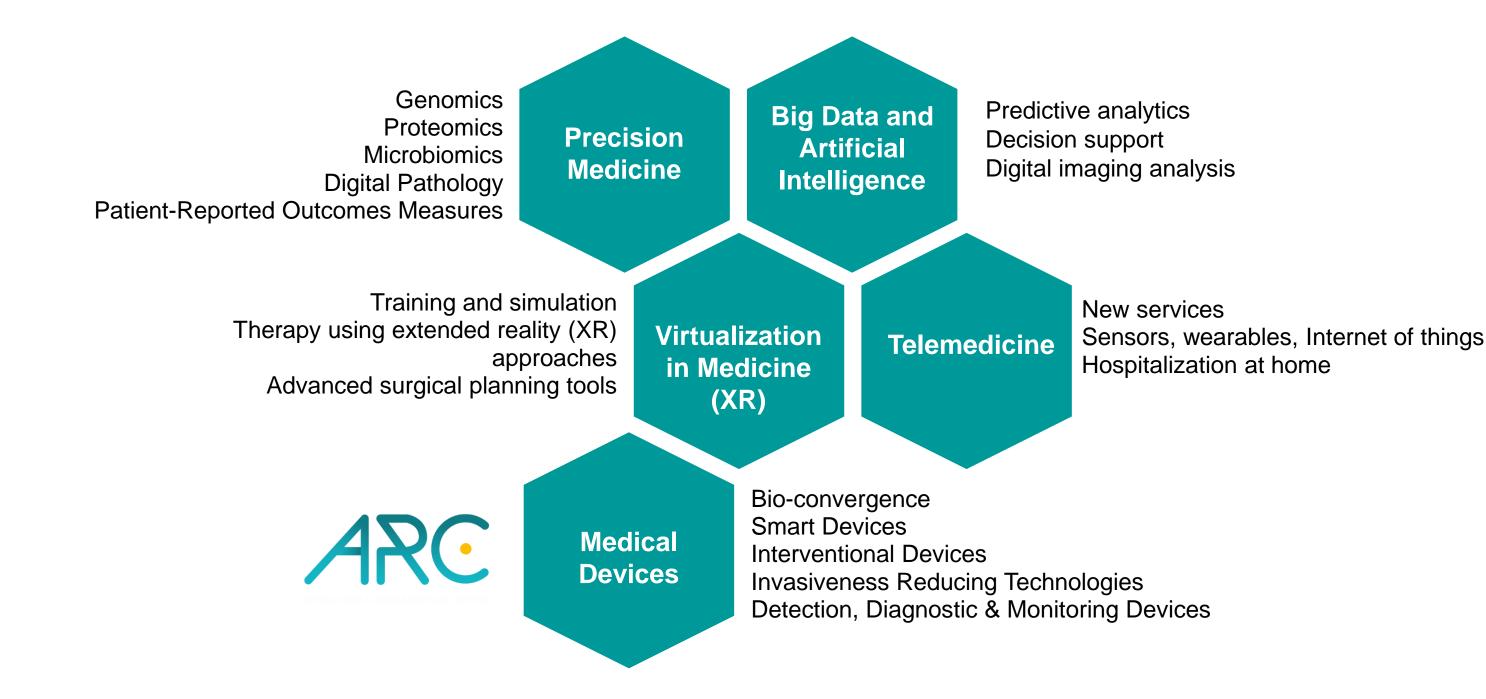
INNOVATION AT SHEBA MEDICAL CENTER





## **Digital Health**





ARC focuses on the use of software solutions and algorithms, among other elements, to transform healthcare delivery.



#### **Open Innovation**







#### Israeli success with open health innovation

BLOG By Tue David Behind |21 December 2017 at. 11:36| 0 comments

📅 🚮 💟 in 🖂 🛨 🔂 Print

If you travel to Tel HaShomer, a few miles east of Tel Aviv's glittering skyscrapers in downtown, you will not only meet Sheba, Israel's largest hospital, but also a groundbreaking Open Innovation Campus in the field of health.

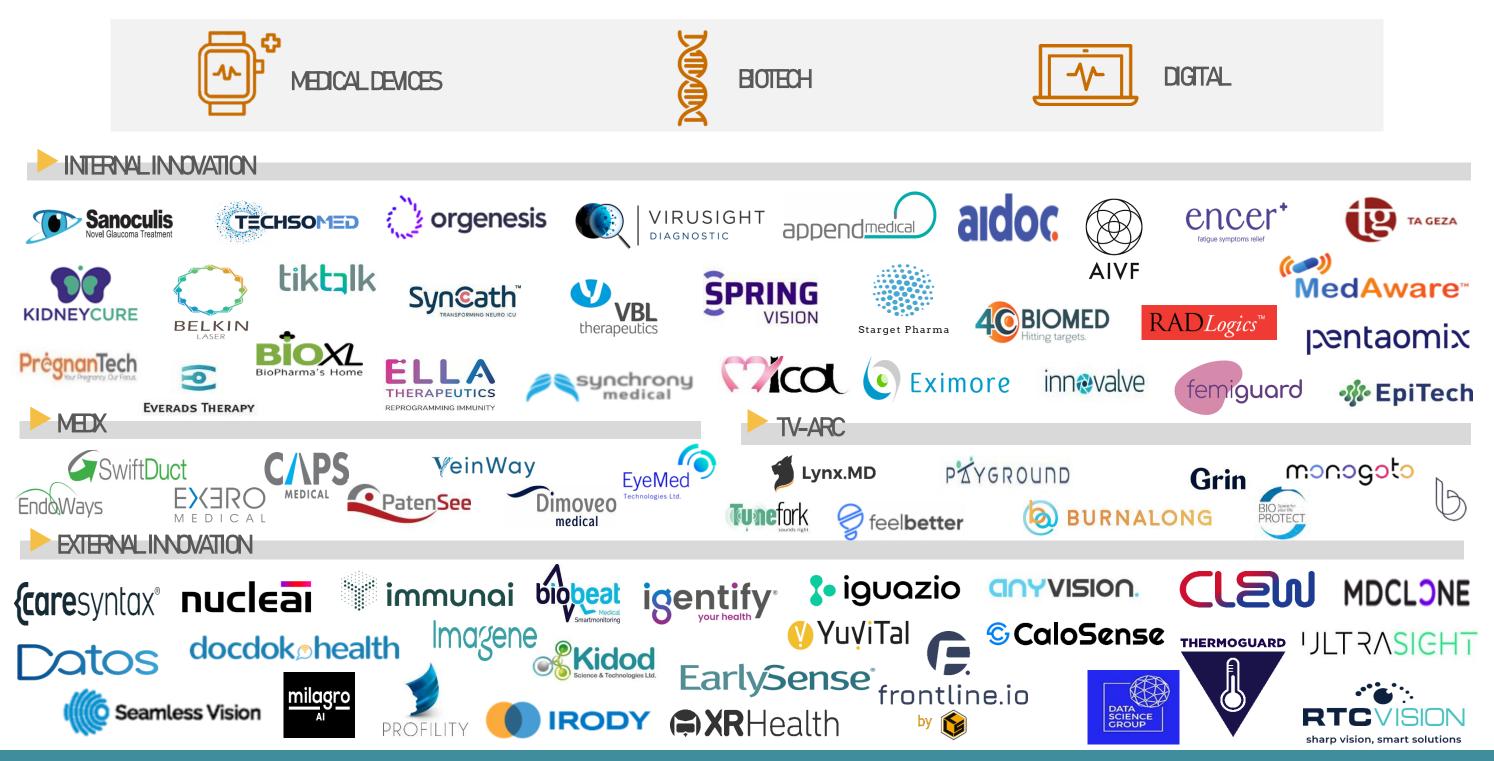
It is a campus where the traditional model for innovation in the healthcare system is reversed.

ARC welcomes startups, members of the industry, academia, and other types of partners to join innovation efforts through streamlined processes.



#### **ARC League of Companies**





Startups have the opportunity to rent space at Sheba's Innovation Center so that they have their own home on-site at Sheba



#### **International Collaborations**



INNOVATION AT SHEBA MEDICAL CENTER

Academic Medical Centers | Industry Partners | Innovation Communities | Data Network



Recognizing that no organization can transform healthcare alone, we work with partners around the world to advance mutual objectives.



#### **Strategic Partners**



- On-site access to Sheba's full data warehouse
- Direct access to clinical facilities and experts
- Physical presence within the center
- First look for sponsored development



Strategic partners work closely with Sheba and other stakeholders to transform healthcare together.

# **Infrastructure for Innovation**



INNOVATION AT SHEBA MEDICAL CENTER

Physical space | Access to data | Policies and regulations | Funding



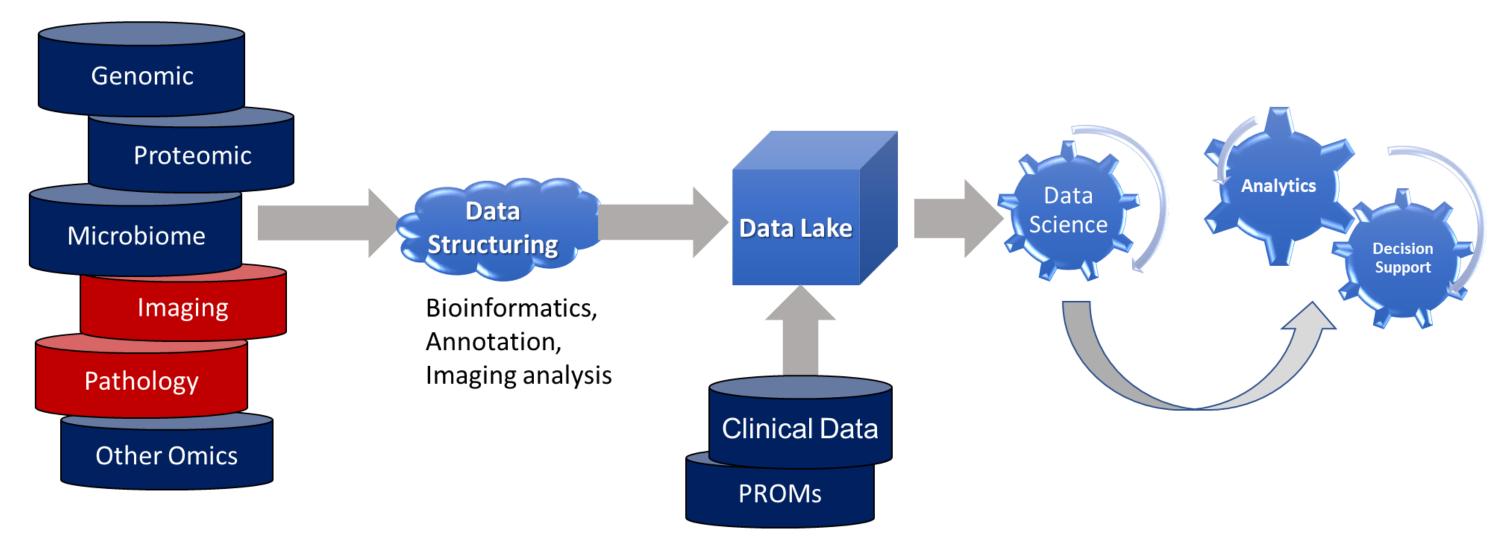
Innovation Infrastructure goes beyond a physical space.



# **Precision Medicine: From Data to Insights**



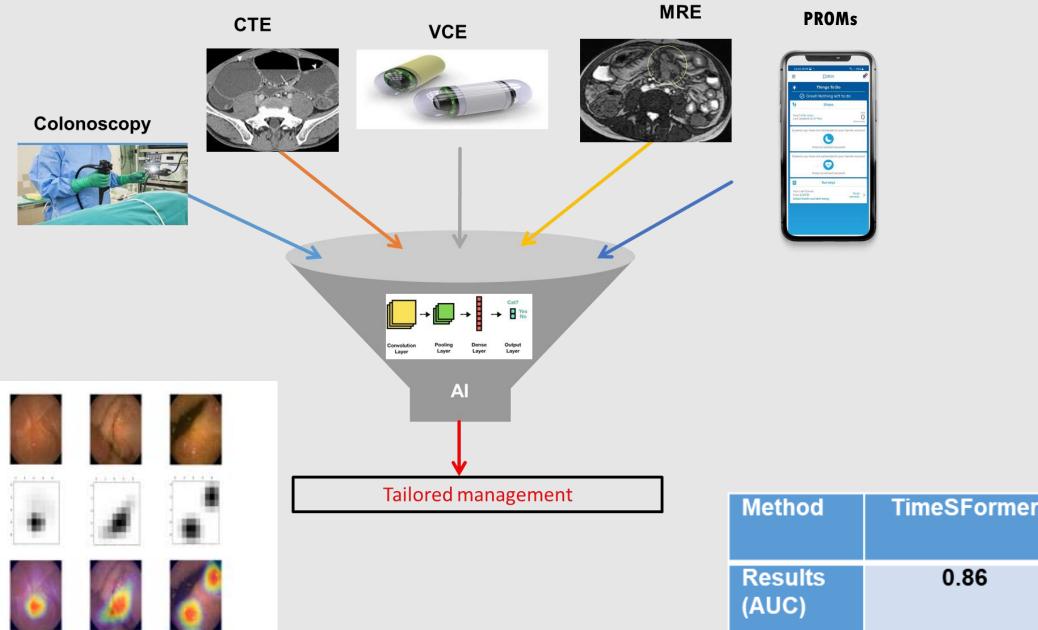
#### **Omics Data Sources**



# INNOVATION AT SHEBA MEDICAL CENTER

# **Multi-Omics in IBD**





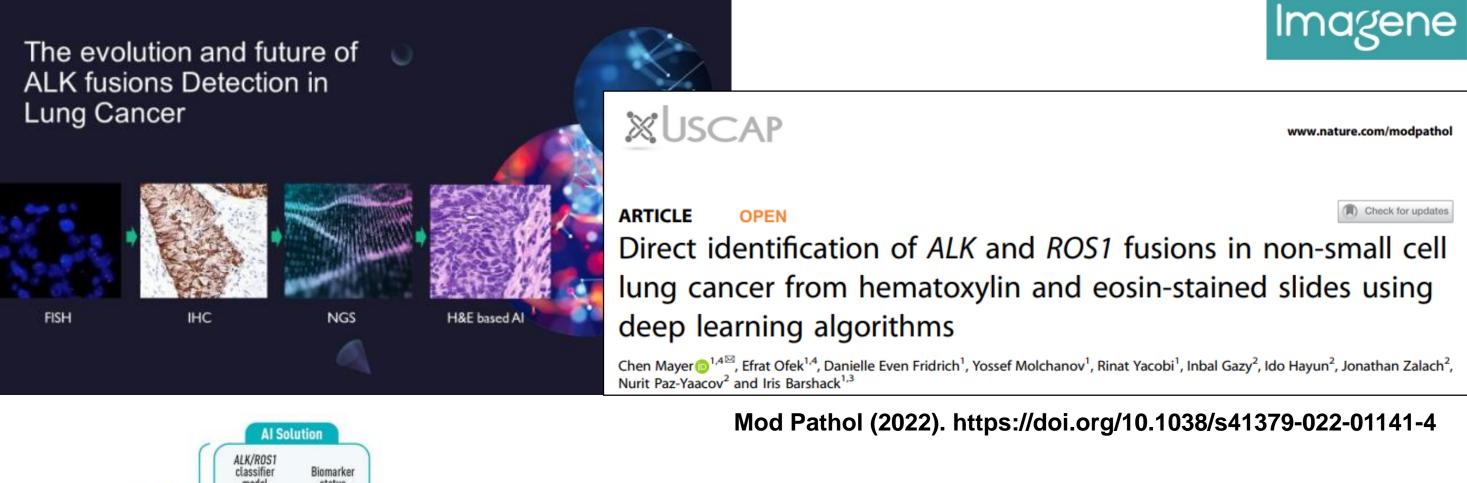


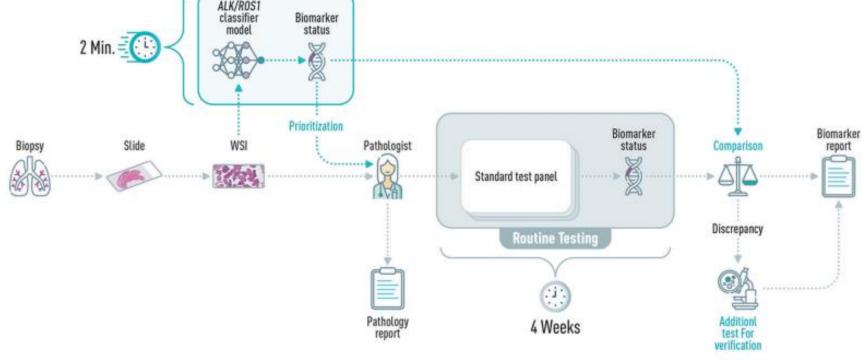
Method	TimeSFormer	Lewis Score	Fecal Calprotectin
Results (AUC)	0.86	0.67	0.76

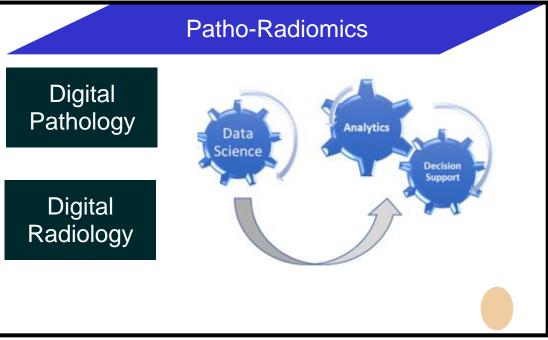


# Digital Pathology: The Next OMICs







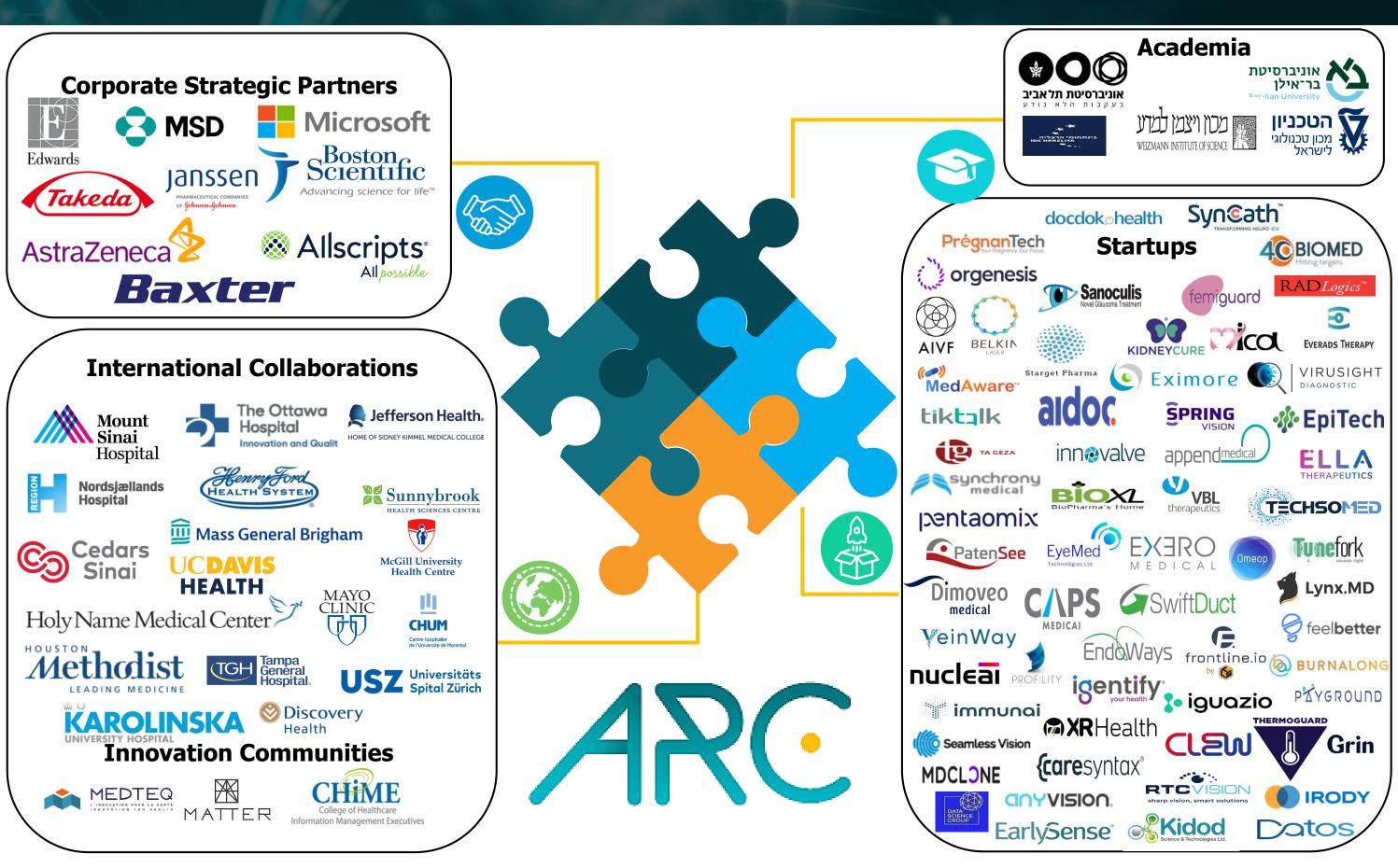


#### **Integration Into Clinical Practice**



**ARC Network** 







# **Contact Information**









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#### Connect with us at **"ARC Innovation at Sheba Medical Center**"



Drop us a line at innovation@sheba.health.gov.il