



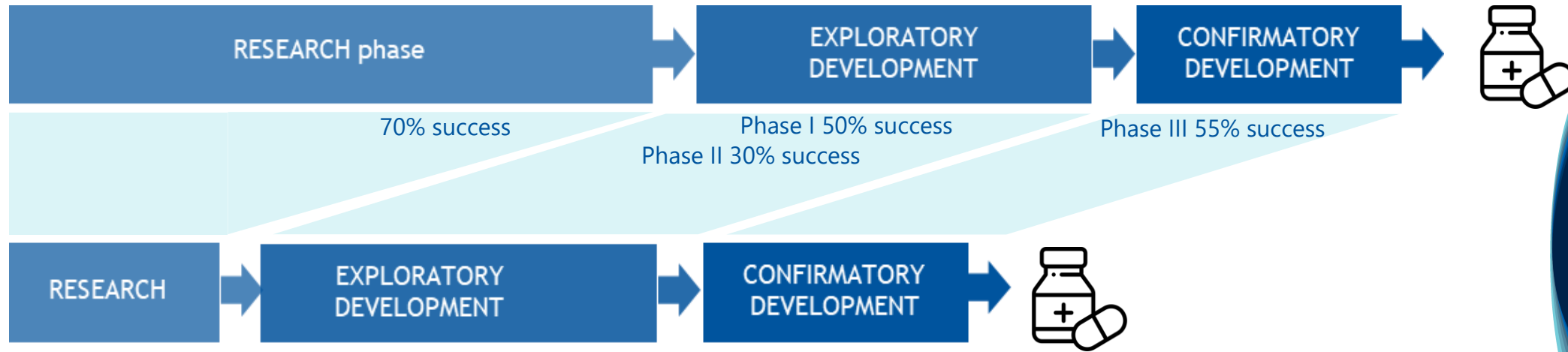
# A Digital Boost for the Pharmaceutical R&D

Orion Veturi Research Ecosystem Roadmap

# Building a fast-lane to novel therapies

Reducing time from idea to market by several years

Now: Bringing a new drug to the market takes > 15 years, low success rate



Future: By using data & AI optimally in the ecosystem: <10 years, improved success rate

# The research Ecosystem will be unique

Creating new competences, business, and economic growth together



## CHALLENGE

Development times for new medicines are long with high costs and risks in research and development.

## OPPORTUNITY

Digital transformation with ML/AI applications has become a major driver for successful pharma R&D.



## MISSION

We will create a dynamic, digitally boosted pharmaceutical research ecosystem in Finland by combining therapy area insights, disease-relevant data with world-class data science and information technology. This ecosystem will develop new services, products and solutions to the global healthcare market.

## VISION

A renewal of the pharmaceutical R&D in Finland by 2027.

Efficient and optimal use of data and AI will accelerate the pharmaceutical R&D and create more effective and safer treatments for patients.



# Roadmap - A Digital Boost for the Pharmaceutical R&D



Development of new the models

Prototyping the new models

2023  
-  
2024

- Establish network with key partners
- Build the infrastructure
- Plug in data

2025  
-  
2027

- Grow the ecosystem
- Develop data science applications
- Show the benefits

Theme 1  
Data access and insights

Population and patient-level datasets, real-world evidence and cutting-edge bioinformatics

Theme 2  
Active learning laboratory

Disease models, In vitro/in vivo/in silico data creation, ML/AI for predictive modelling, simulations in chemistry and biology, integration to wet lab

Theme 3  
Connecting data science providers & consumers

Research data platform development, data science automation, data harmonization, data sharing, ML/AI model training & development

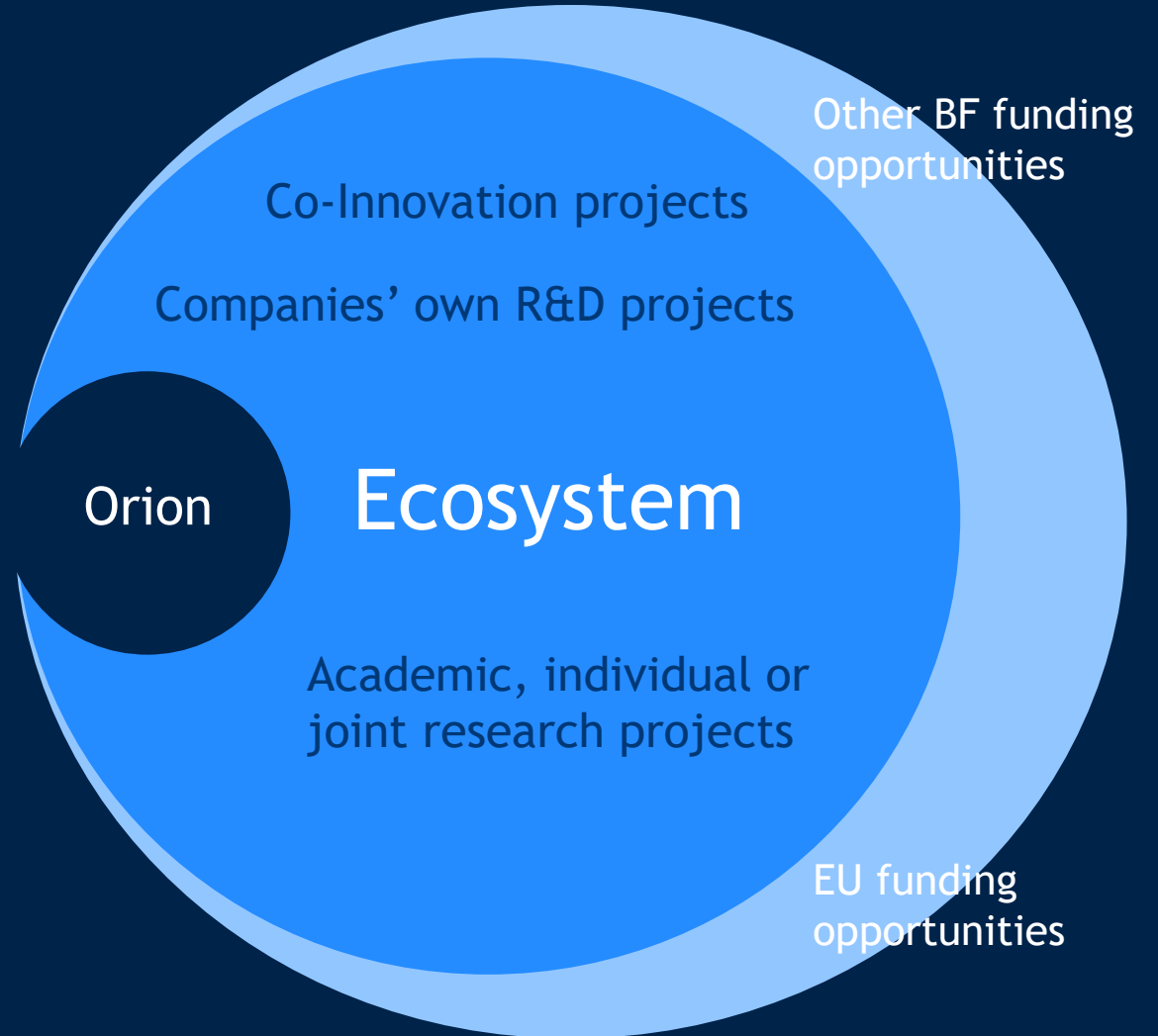
# Ecosystem provides diverse opportunities for various parties to collaborate and create novel business together



## Invitation to join the ecosystem

### Opportunities for

- Biotech and Pharma companies doing R&D
- Medical Technology companies
- Diagnostics companies
- Health Technology companies
- Pharmaceutical R&D data producers & providers
- Omics data providers
- Data science providers
- ML/AI companies
- IT companies developing solutions for R&D
- Clinicians, hospitals and healthcare providers
- Academic research groups in biomedical and/or computer science and/or chemistry





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