



A Digital Boost for the Pharmaceutical R&D

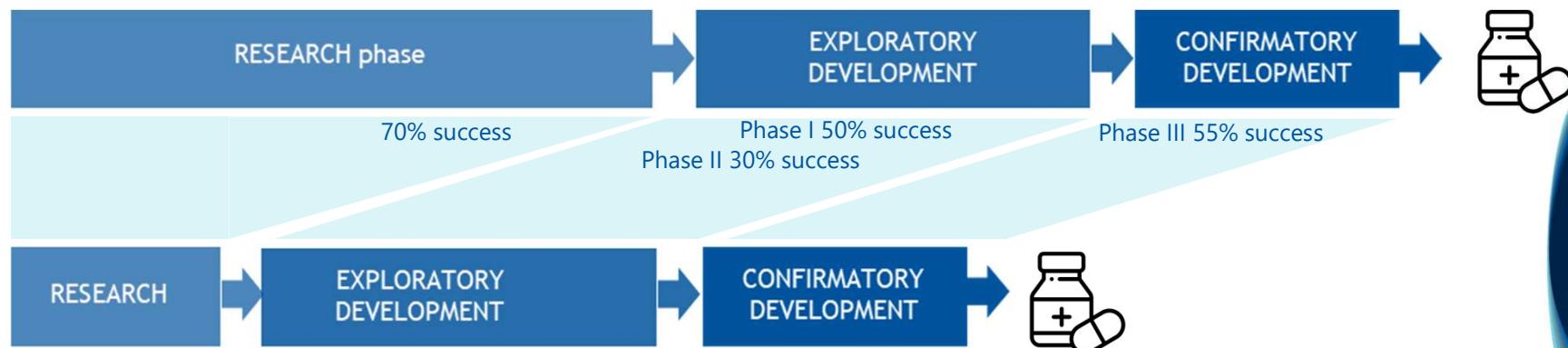
Orion Veturi Research Ecosystem Roadmap

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



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

Prototyping the new models



- 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

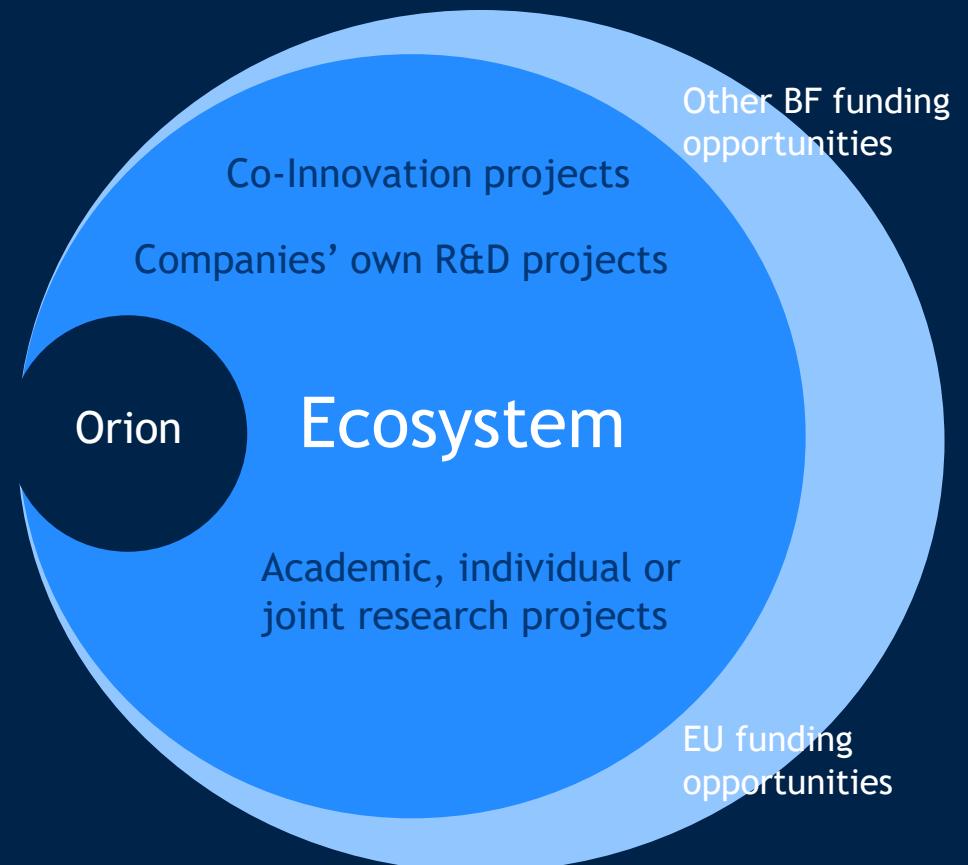
Ecosystem provides diverse opportunities for various parties to collaborate and create novel business together

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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