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**

- 2023 - 2024
  - Establish network with key partners
  - Build the infrastructure
  - Plug in data

**Prototyping the new models**

- 2025 - 2027
  - Grow the ecosystem
  - Develop data science applications
  - Show the benefits

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**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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