



12. September 2017 – Mannheim

Auf dem Weg zum digitalisierten Biomufacturing: Wie prädiktive Lösungen die Transformation der Biotechnologie beschleunigen

Klaus Mauch | CEO

Digital Transformation

– Affects all industries and is taking place now



Construction



Mobility



Healthcare



Production



Digital

- Networked Construction Tools
- Connected Home
- Retailer-Platforms
- Predictive Solutions

- Networked Vehicles
- Big Data
- Artificial Intelligence
- Broker-Platforms (Uber)

- Next Generation Sequencing
- Personalized Medicine
- Predictive Solutions
- Service-Platforms

- Robotics
- Networked Analytics & Tools
- Data Management
- Predictive Solutions

Innovation

- Novel Design
- Self-Controlling Buildings
- Energy-optimized Buildings

- Construction
- Self-Driving Cars
- Integrated Energetic Solutions

- Novel Therapeutics
- Novel Diagnostics
- Novel Home Care Platforms

- Optimized Workflows
- Distributed Production
- On-line Control

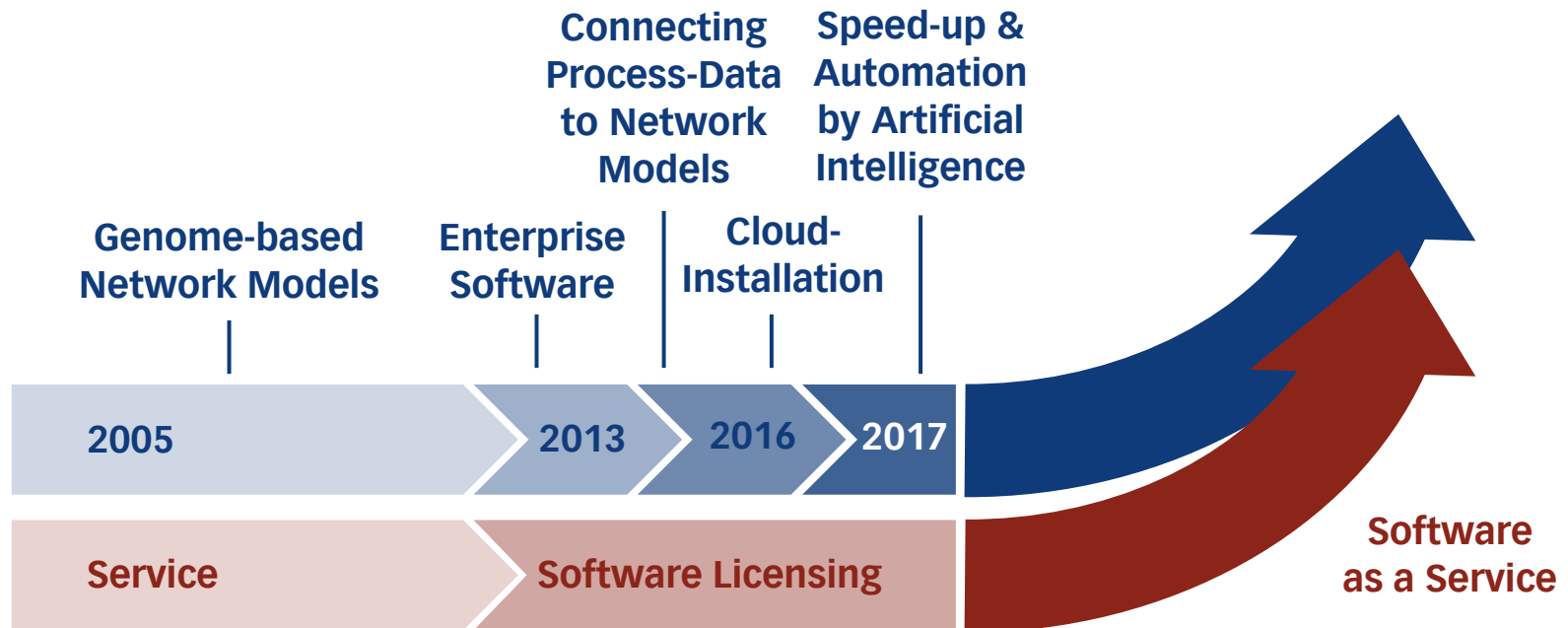
Powering Digital Transformation

– By predictive solutions



Powering Digital Transformation

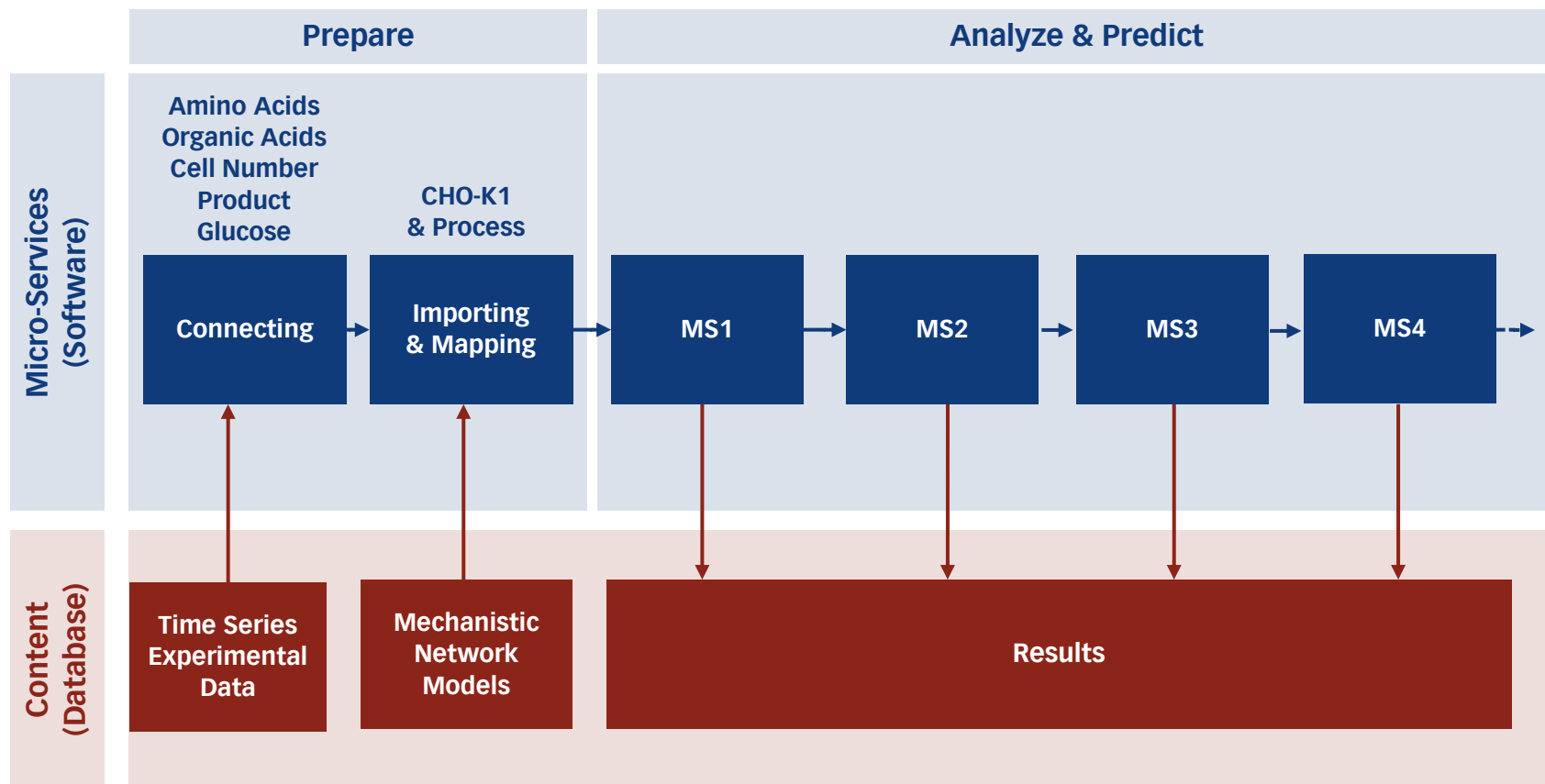
– By data-centric solutions



- Reaching technological milestones enables data-centric “Software as a Service” solutions.

Powering Digital Transformation

– Data centric solution workflows

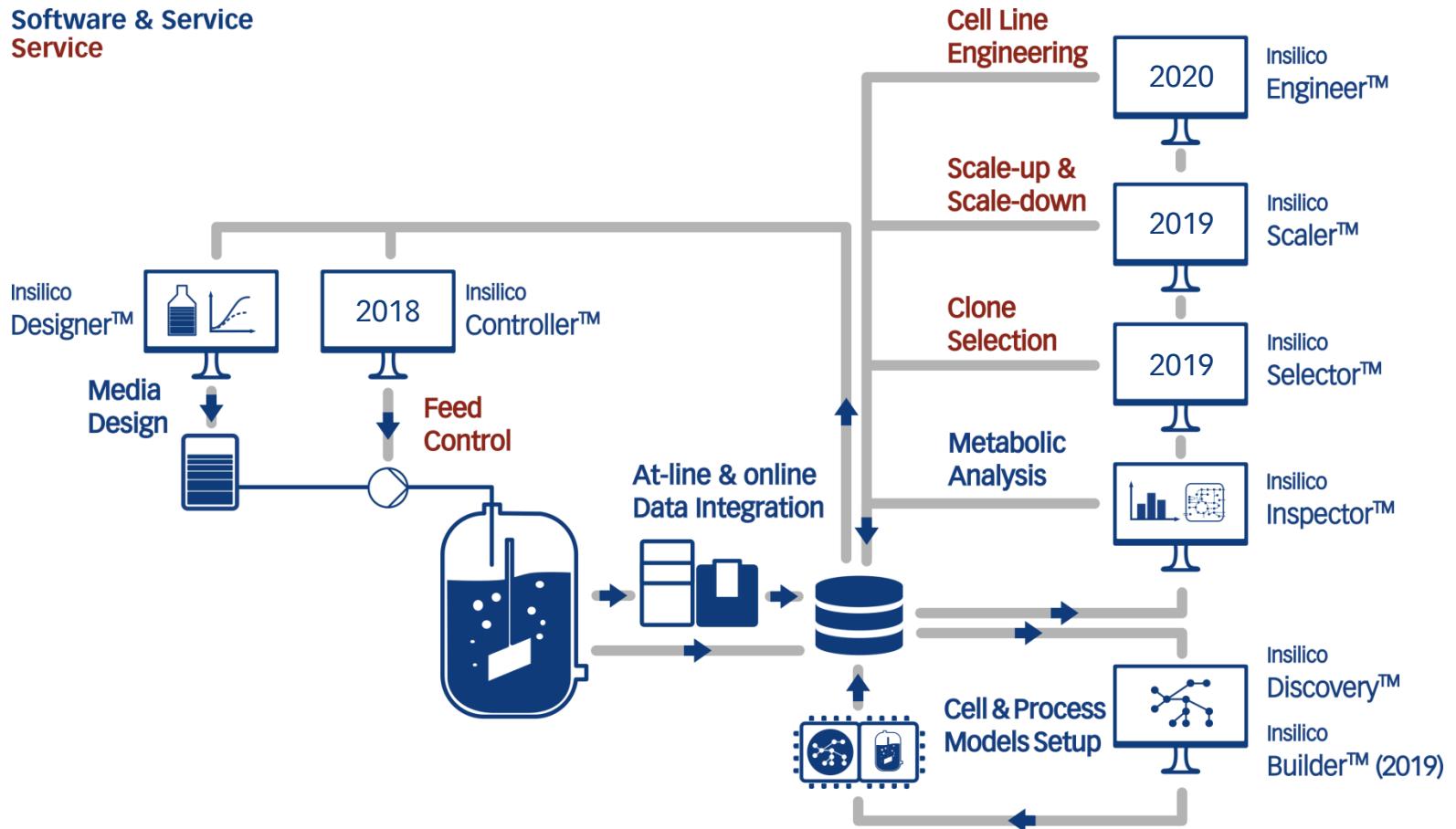


Data-Centric Solution Workflows

– For Digital Biomanufacturing

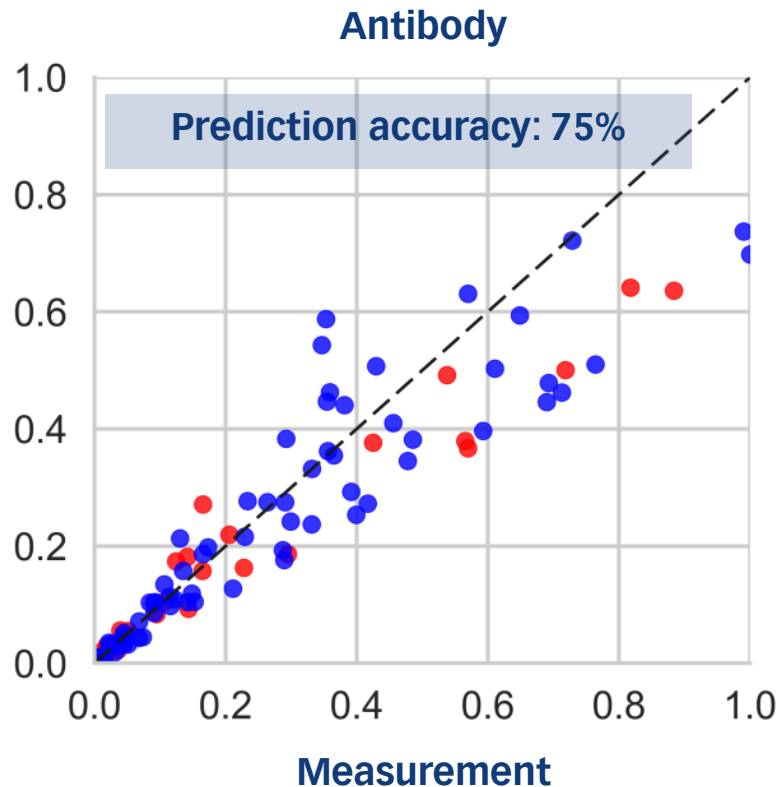
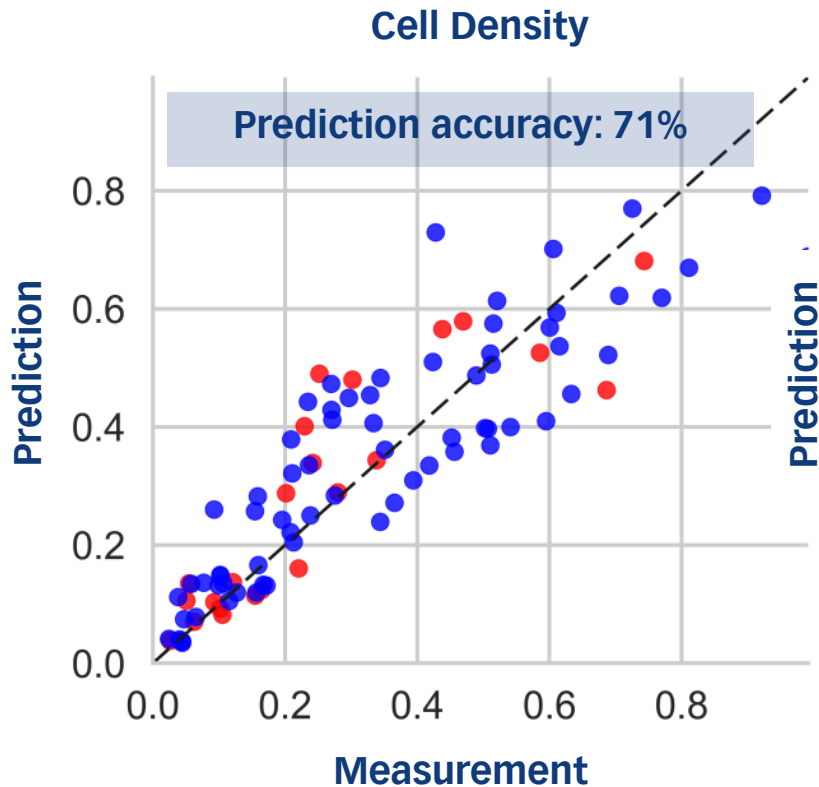


Software & Service
Service



Digital Biomanufacturing

– Example: Predicting and validating optimized feed media



CHO-K1

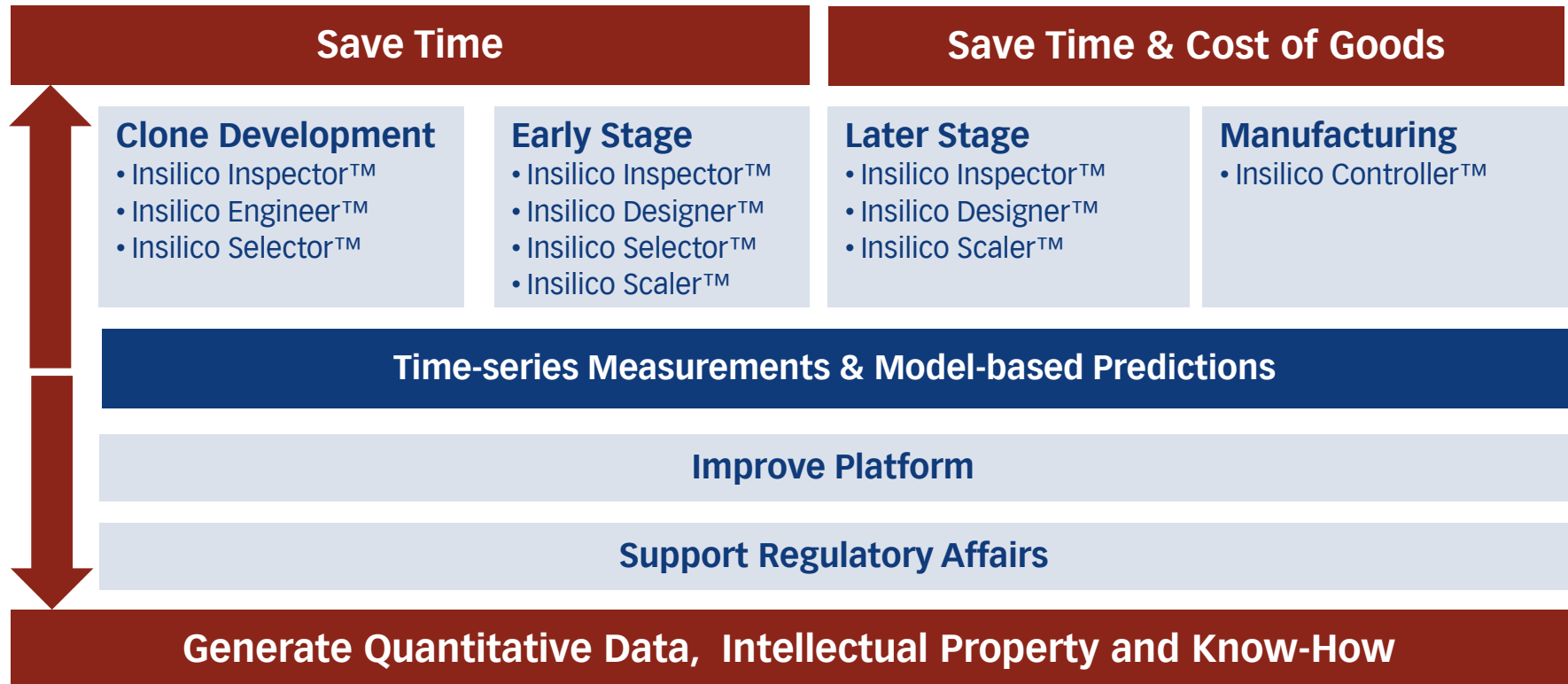
1,298 Metabolites
1,280 Reactions
697 Transporters
601 Genes



Blue: Training data set
Red: Test data set

Digital Biomanufacturing

– Application areas and benefit



Insilico Biotechnology AG

– Powering Digital Transformation



Insilico Biotechnology AG | Meitnerstr. 9 | 70563 Stuttgart | www.insilico-biotechnology.com