

SYNAOS

SYNCHRONIZING CHAOS

2020-07-01: Webinar: The Rise of AI and Analytics in Logistics

SYNAOS

ABOUT US

Key Facts

SYNAOS at a glance

2018

FOUNDATION YEAR

1

FINANCING ROUND

6

MIO. € SEED-FINANCING

1

INVESTOR

2019

OPERATIONAL START

3

EMPLOYEES
END OF 2018

36

EMPLOYEES
END OF 2019

90

EMPLOYEES
END OF 2020

2

CUSTOMERS

6

PROJECTS

>1

MIO. € REVENUE 2019

3

ADVISORY BOARD
MEMBERS

Ø 9.8

YEARS OF SOFTWARE
DEVELOPMENT EXPERIENCE

5

DOCTORAL THESES

8

HARDWARE PARTNERS

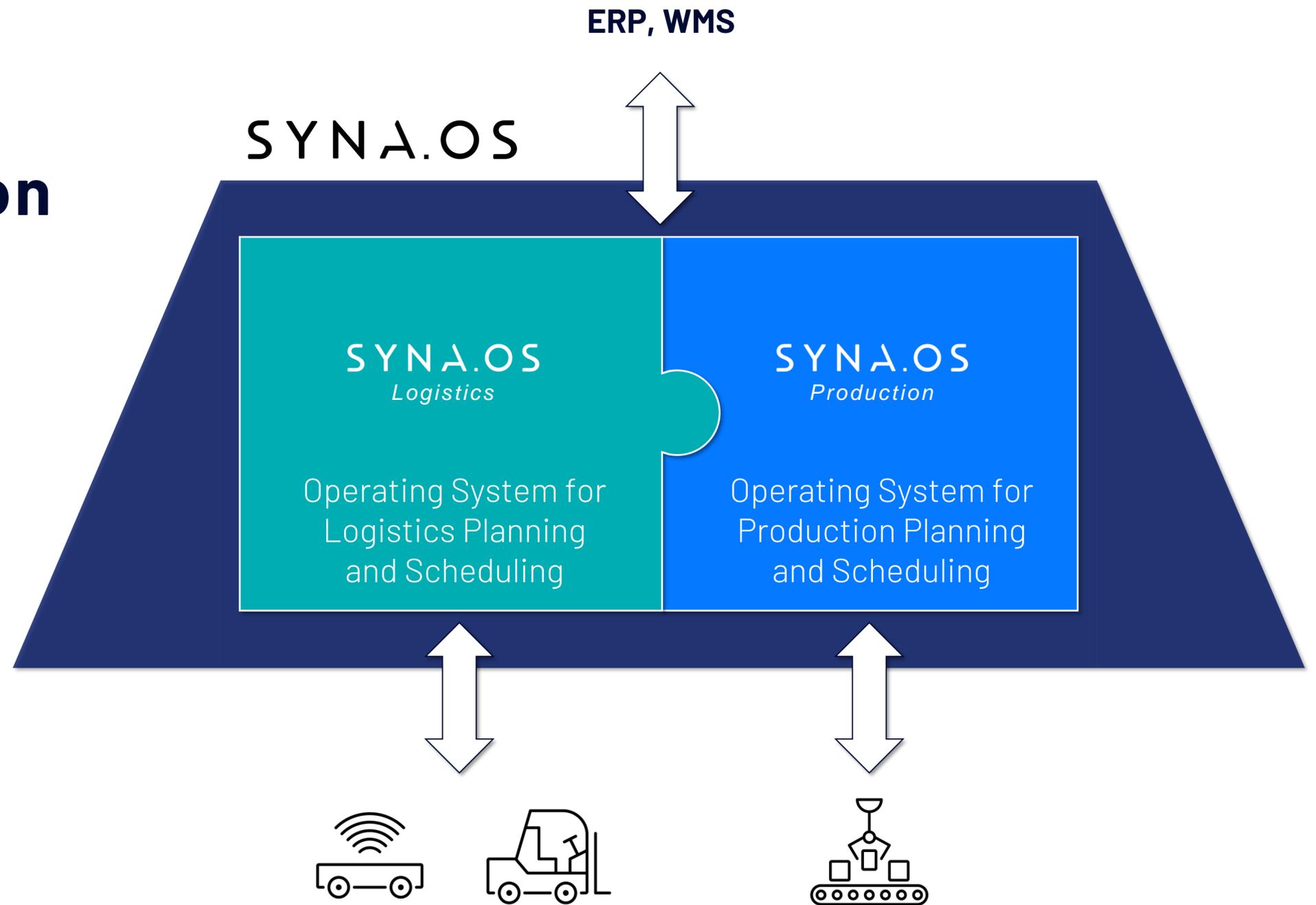
23

NETWORK PARTNERS

SYNAOS

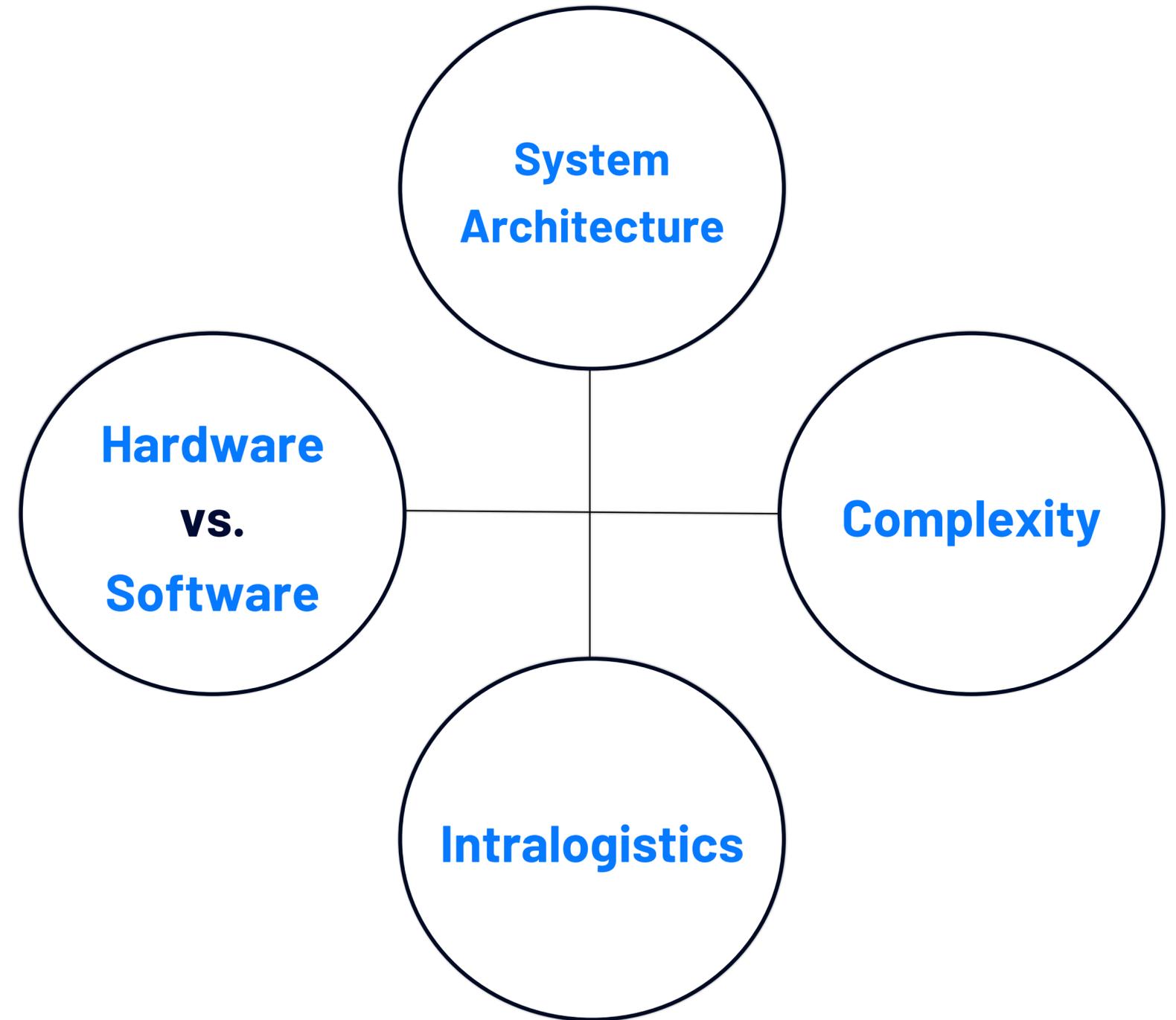
SYNA.OS - Next Generation Logistics and Production Software Platform

Our Software Platform SYNA.OS is the central solution for enabling all intralogistics and manufacturing processes within your factory and the processes in your logistics center.



Key challenges on the way to the future

Those who want to create the **transformation** into the future must attack the **status quo**.



Clear focus on the decisive levers

The **data**, **AI** and **cloud** approaches are the central lever for the holistic **optimization** of the factory and logistics center of the future.



Data



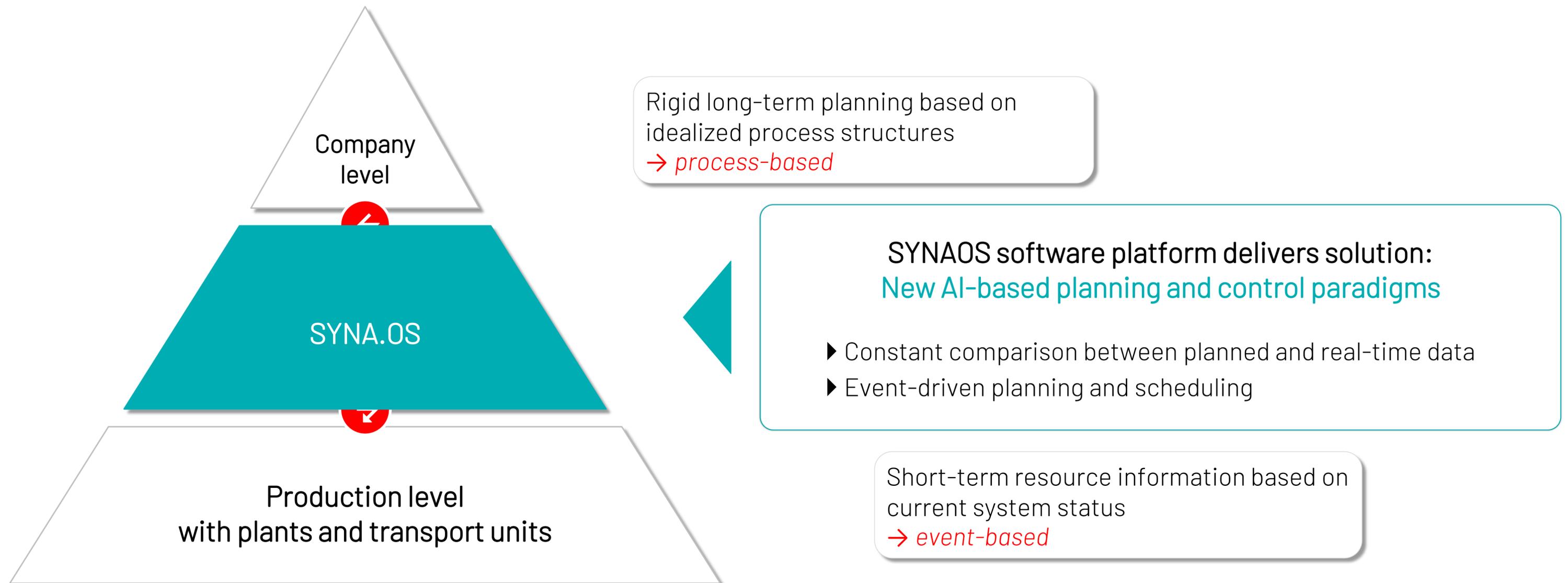
AI



Cloud

We orchestrate the factory and logistics hub of the future.

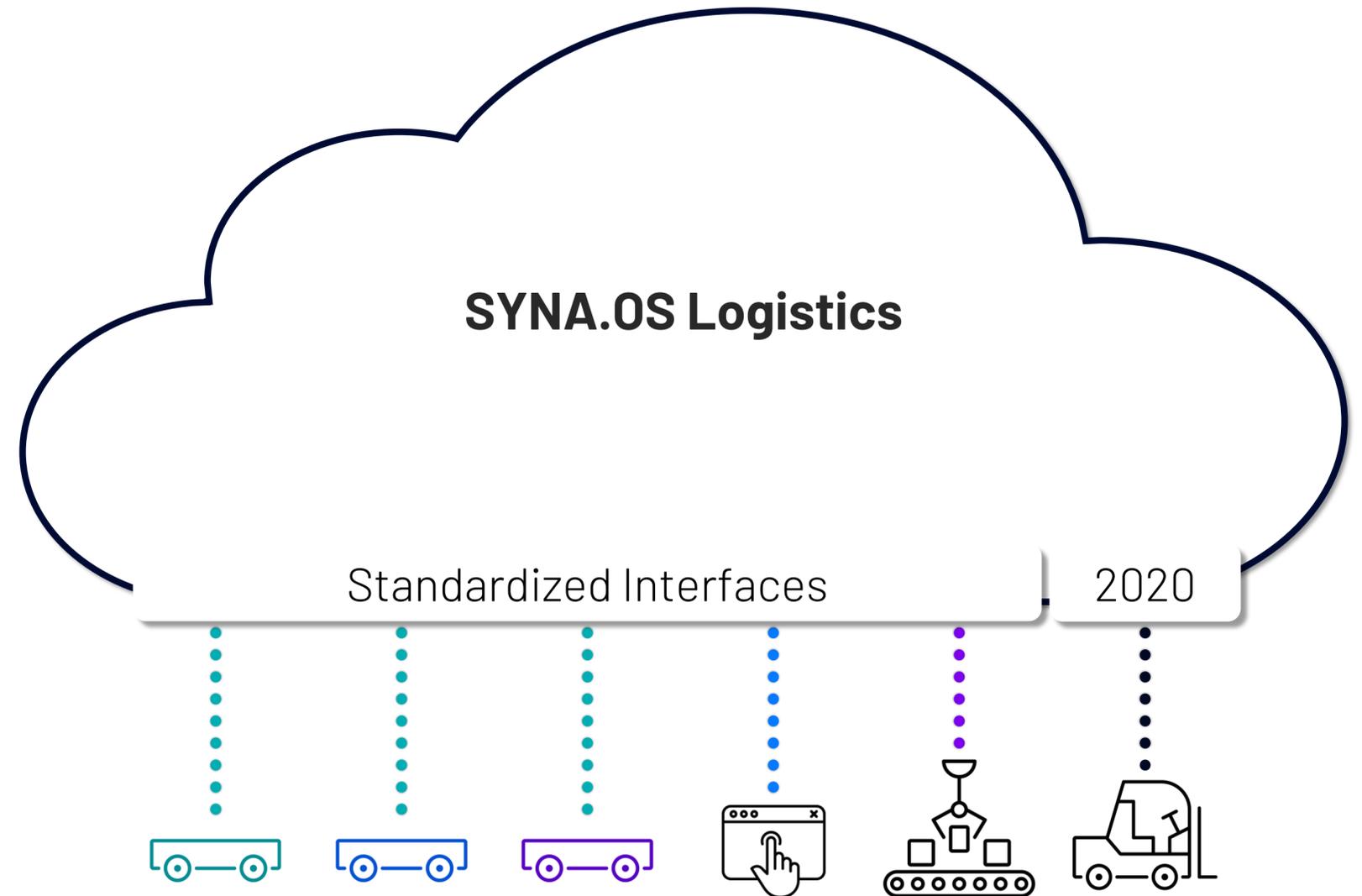
SYNA.OS is the core of logistics and production.



SYNAOS

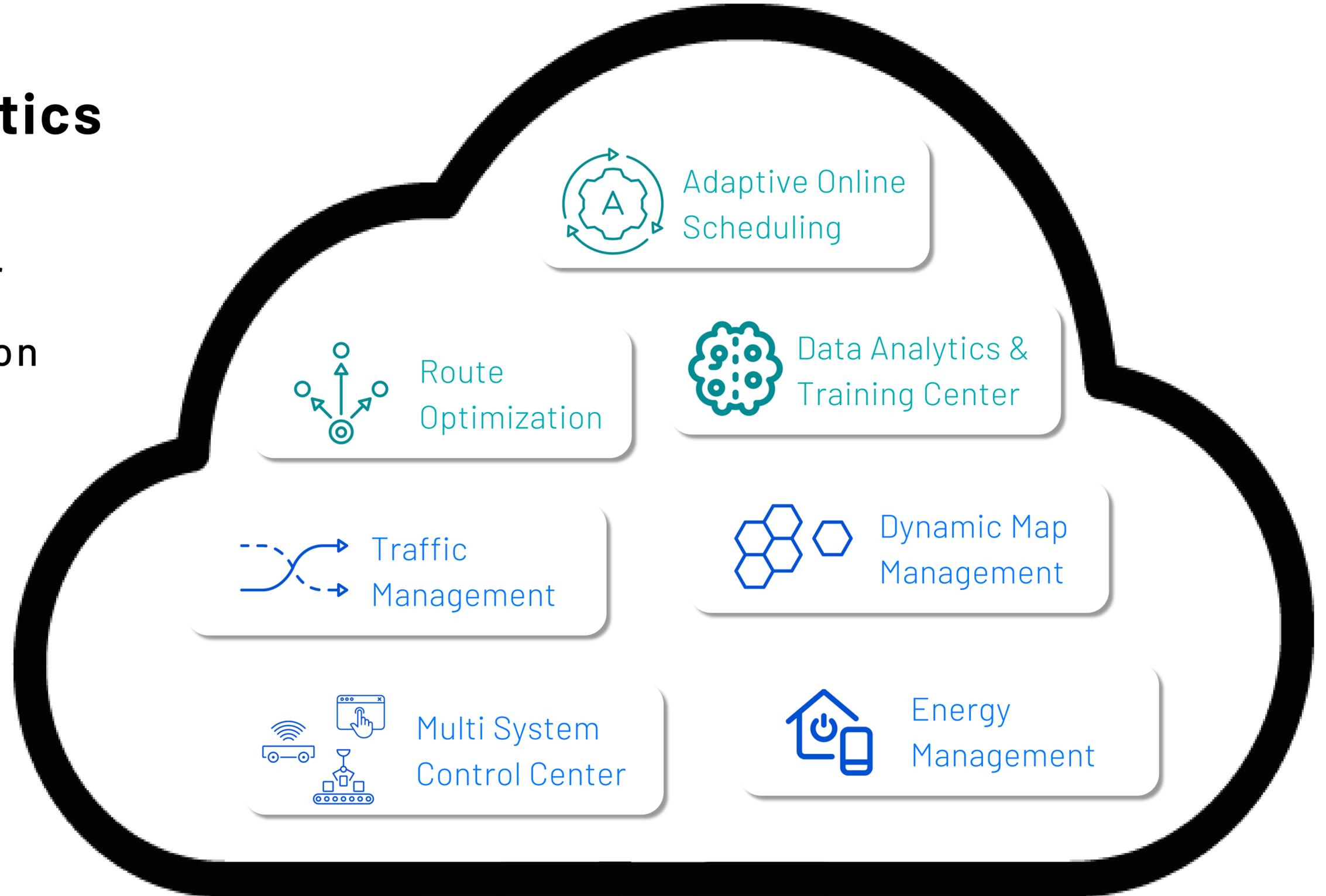
SYNA.OS Logistics

A hardware independent operating system to monitor, control and optimize your logistics processes



SYNA.OS Logistics

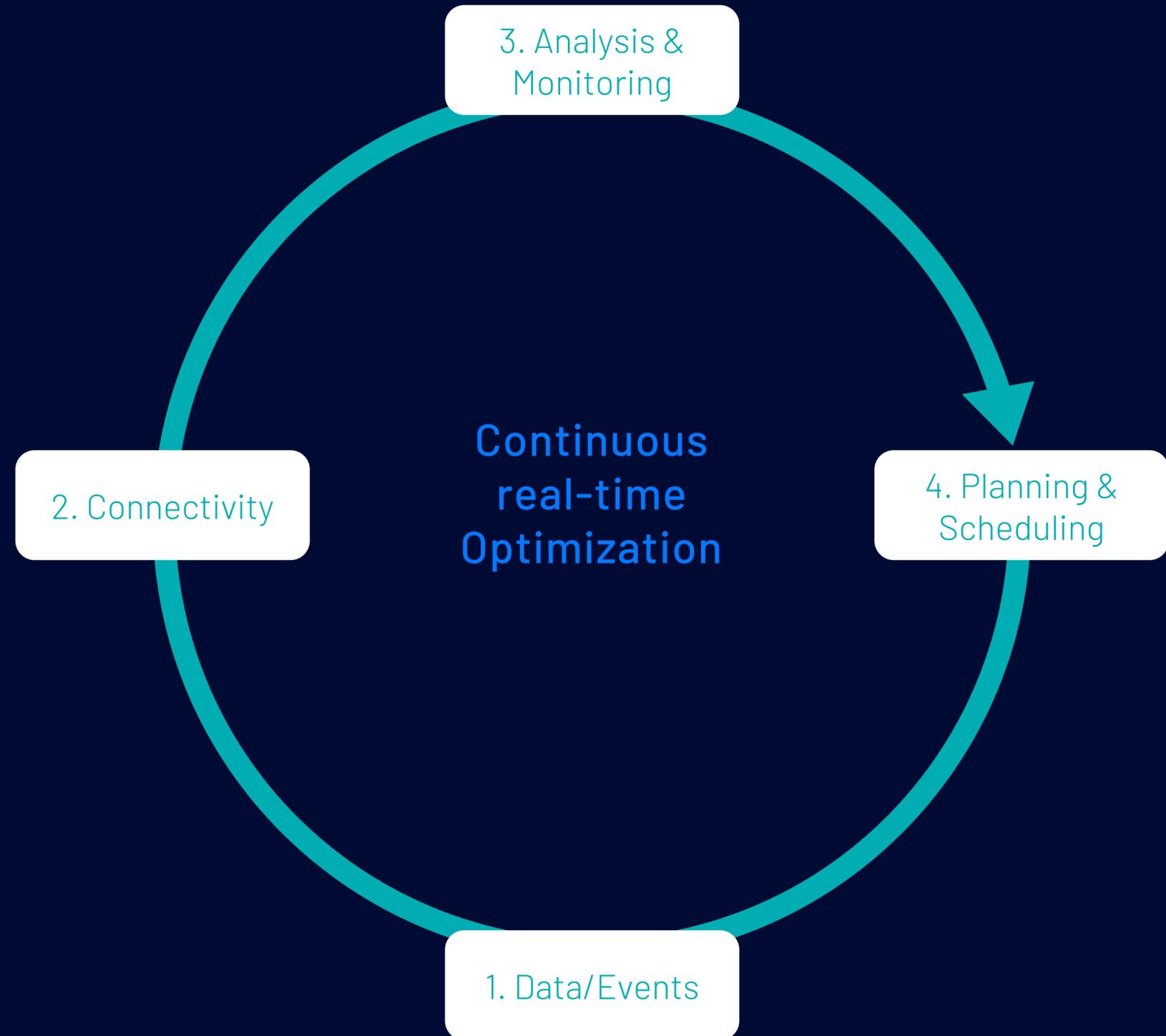
Services to lever our
core value proposition



SYNAOS

Increased efficiency through continuous real-time optimization

SYNA.OS utilizes and connects all digital development stages and thus enables the **quantum leap** into the data- and AI-driven, highly automated **logistics and production of the future.**



SYNAOS

Flexible SYNAOS algorithms

Added value on the example of
the service [Adaptive Online
Scheduling \(AOS\)](#).

The AOS algorithms can
[optimize different
customer requirements](#)
individually or in parallel.



Cutting-edge AI-Algorithms

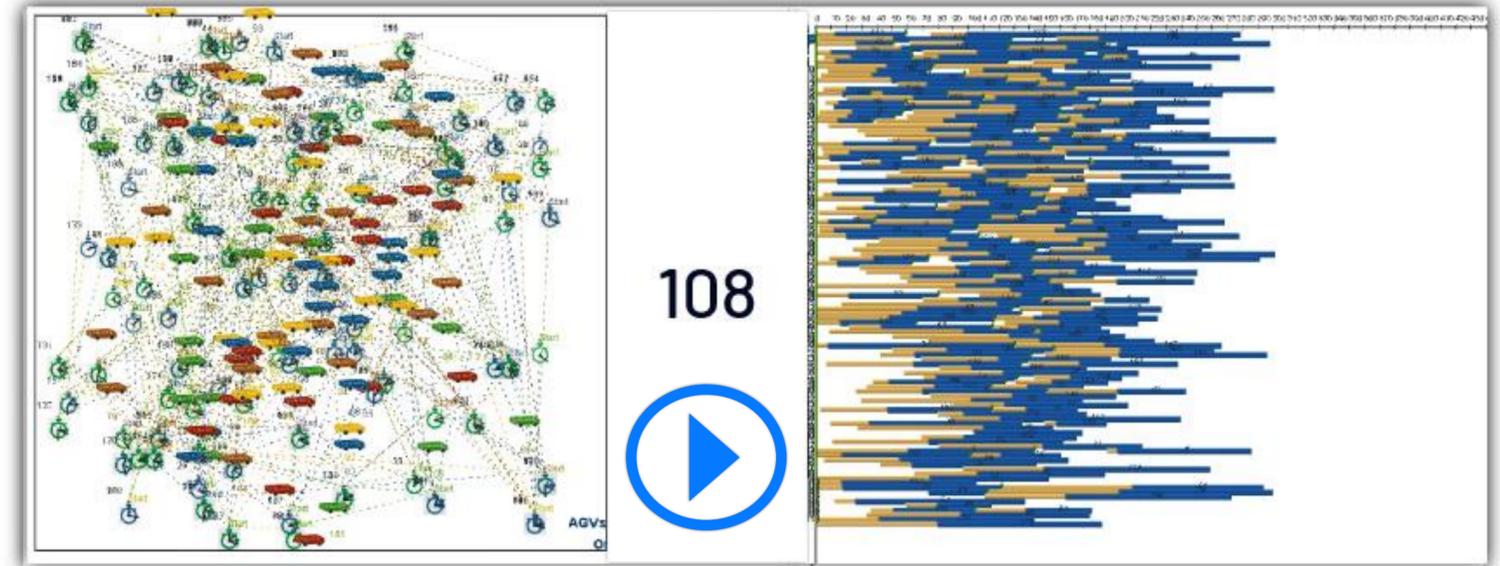
We focus on a continuous ongoing optimization of the planning in order to adapt to reality on the shopfloor.

Order pool: 200 transport orders; resources: maximum 150 AGVs

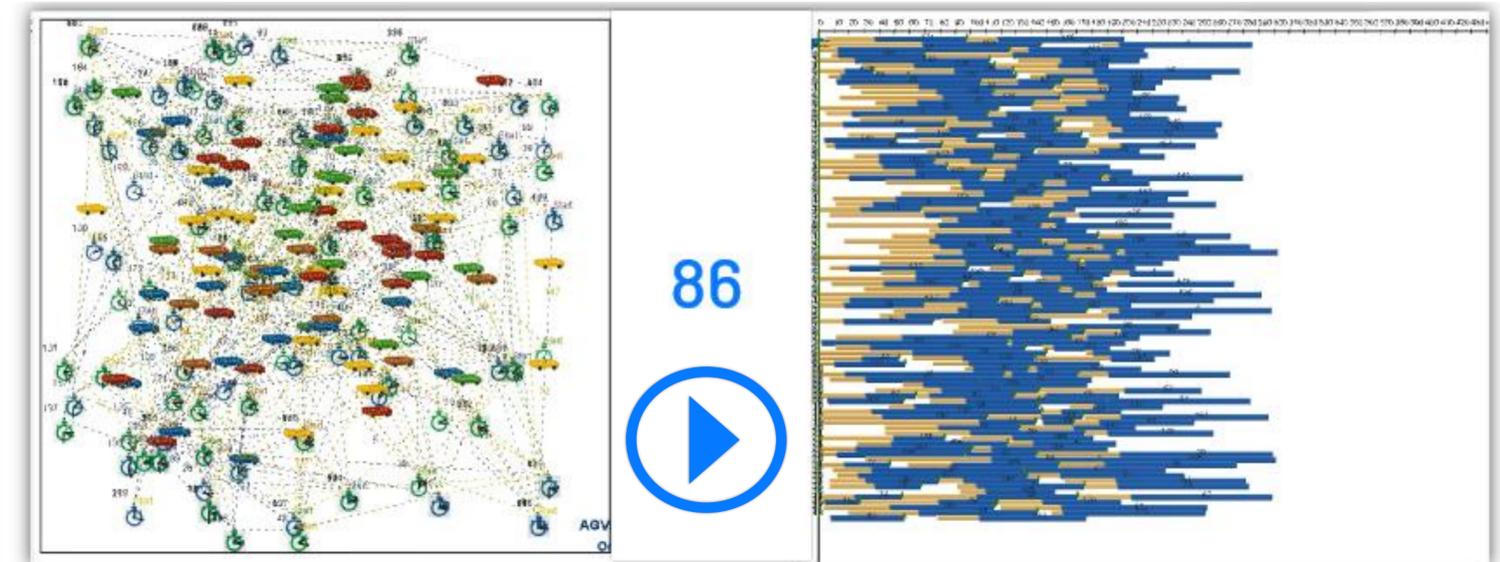
SCENARIO: MINIMIZING FLEET SIZE

- Conventional optimization approach:
108 AGVs
- SYNAOS optimization algorithms:
≤ 86 AGVs (-20%)

CONVENTIONAL OPTIMIZATION APPROACH



SYNAOS OPTIMIZATION ALGORITHMS



Cutting-edge AI-Algorithms

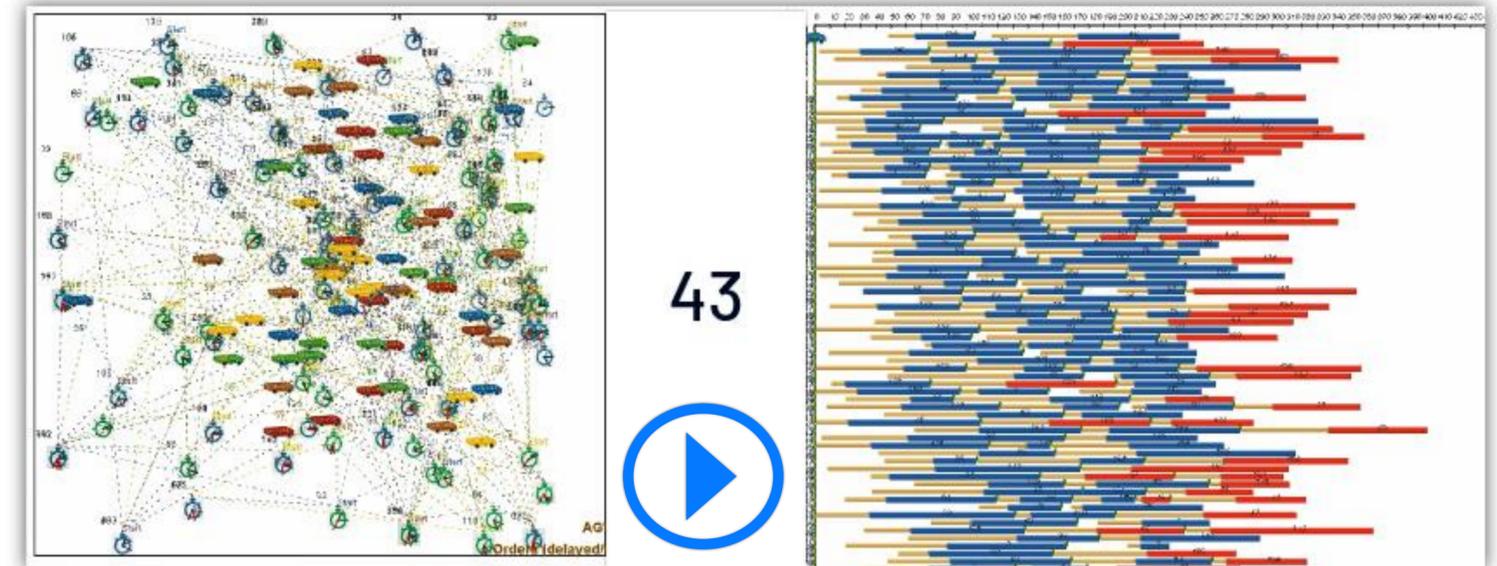
We focus on a continuous ongoing optimization of the planning in order to adapt to reality on the shopfloor.

Order pool: 200 transport orders; resources: maximum 70 AGVs

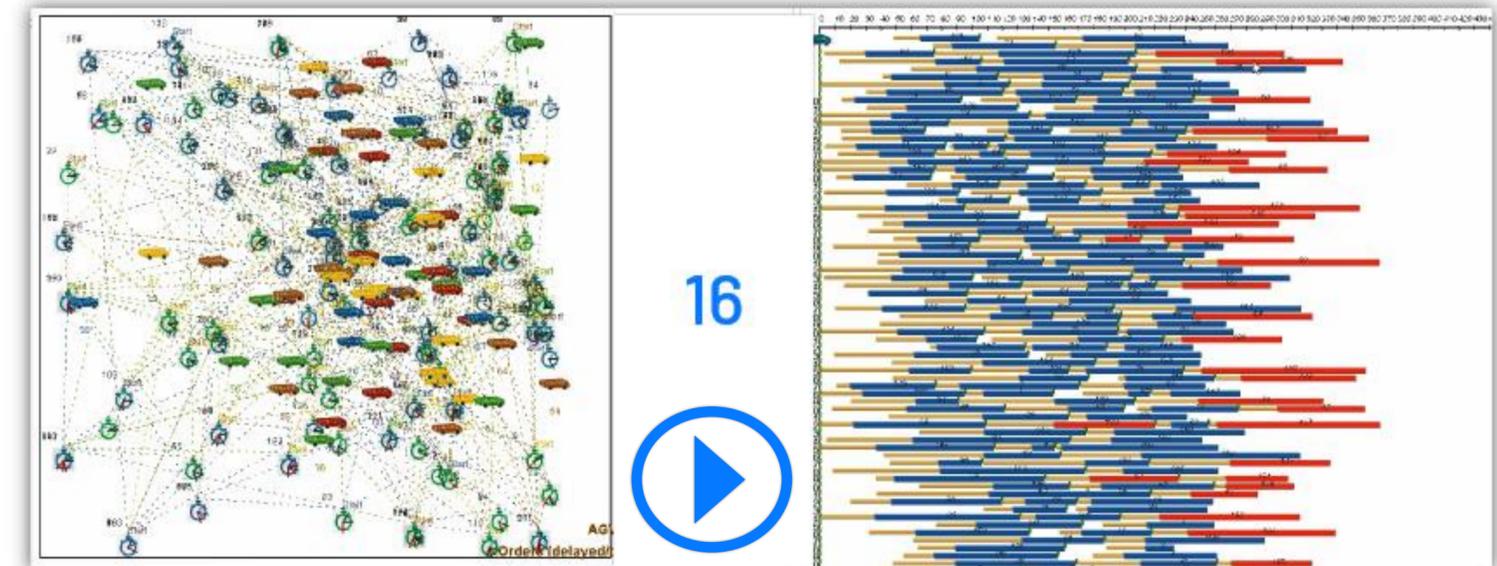
SCENARIO: MINIMIZING ORDER DELAYS

- Conventional optimization approach:
43 delayed orders
- SYNAOS optimization algorithms:
≤ 16 delayed orders (-63%)

CONVENTIONAL OPTIMIZATION APPROACH



SYNAOS OPTIMIZATION ALGORITHMS



SYNAOS

Why SYNA.OS Logistics?

Our software satisfies the essential market requirements of today's customers.

1. **Modern IT technologies** and **software architecture**
2. **Flexibility** to integrate multiple different hardware systems and AGV types
3. **Scalability** with respect to number of vehicles and driving courses
4. **Continuous intelligent optimization** to increase the utilization of resources

SYNAOS

Get in touch



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