

## Optimal automation with Mixed Fleet

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**LOGISNEXT EUROPE**

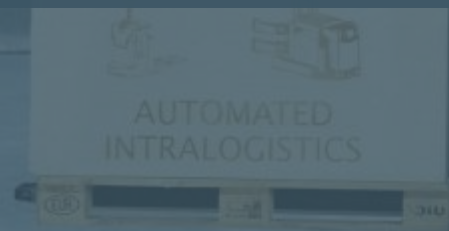


- Ville Sydänmaanlakka
- Master of Science in Technology
- R&D Engineer at Logisnext Europe Oy
- 15 years of experience in forklifts
- New AGV product design
- Safety system design
- Member of ISO TC 110/SC 2/WG 15
  - ISO 3691-4 (AGV safety standard)



Introduction to

# Logisnext Solutions

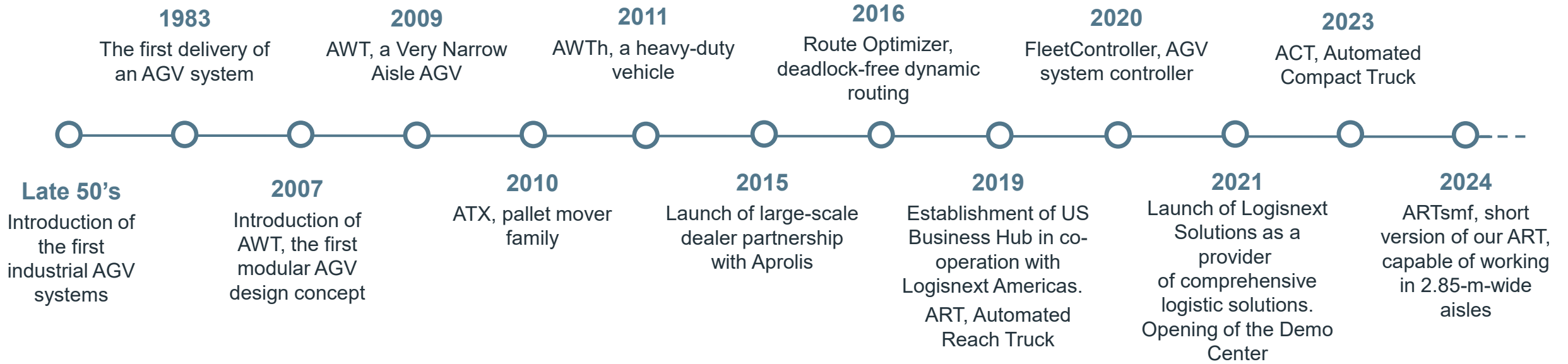


Logisnext Europe (LNFI) has an unparalleled experience in the intralogistics automation.

Our background is in **Rocla Automated Guided Vehicle (AGV) Solutions:**

- 40+ years of experience
- Over 8,000 AGVs
- Over 2,000 projects worldwide
- Global operations through a wide partner network
- [ISO 3691-4:2023](#) safety standard-compliant





# Our Future is in Logistic Solutions

Logisnext

Consultancy -  
Process  
Improvements

FleetController

Racking

Energy  
Solutions

Financial  
Services

AGVs, AMRs and  
Other Robotics

IoT, Telematics  
and Fleet  
Management

Forklifts

System  
Integration

Automation and  
Storage Equipment

Truck-mounted  
PCs and Tablets

Care and  
Maintenance



**Optimal Automation**

**Logisnext Solutions**

## Performance:

- Reduced dependency on the availability of the workforce
- Reduced labour costs
- Human resources can be allocated to more productive tasks

## Efficiency:

- Improved efficiency of processes and productivity
- Continuous just-in-time material flows
- Improved traceability

## Precision & Safety:

- Reduced inventory and picking errors
- Less accidents and damage to products, equipment, and the facility
- Safer operations and environment



## Mixed Fleet

### Humans

- > Prone to errors
- > Tend to fatigue
- > Unpredictable



- > Flexible & adaptive
- > Creative & intuitive
- > Handy & skilful



- > Predictable & tireless
- > Safe & reliable
- > Productive & efficient

### Robots

- > Don't do creative problem solving
- > Non-intuitive

---> Human workforce can focus on more motivating tasks

---> Robots can handle repetitive tasks more efficiently

[Learn more about the Mixed Fleet here](#)

# Building Your Dream Team

# Logisnext



**ART**, automated high-lifting reach truck for existing narrow aisle environments



**SENSiA**, the manual reach truck with superior ergonomics and usability



**AWTcf**, counterbalance AGV for heavy loads in storing and transporting



**VELiA**, low and high level manual order picker for variety of order profiles



**ACT**, agile and compact AGV for heavy-duty lifting



**PREMiA**, light and agile manual power pallet truck for shuttle tasks



**VNA AWT**, automated vehicle for pallet handling in very narrow aisles



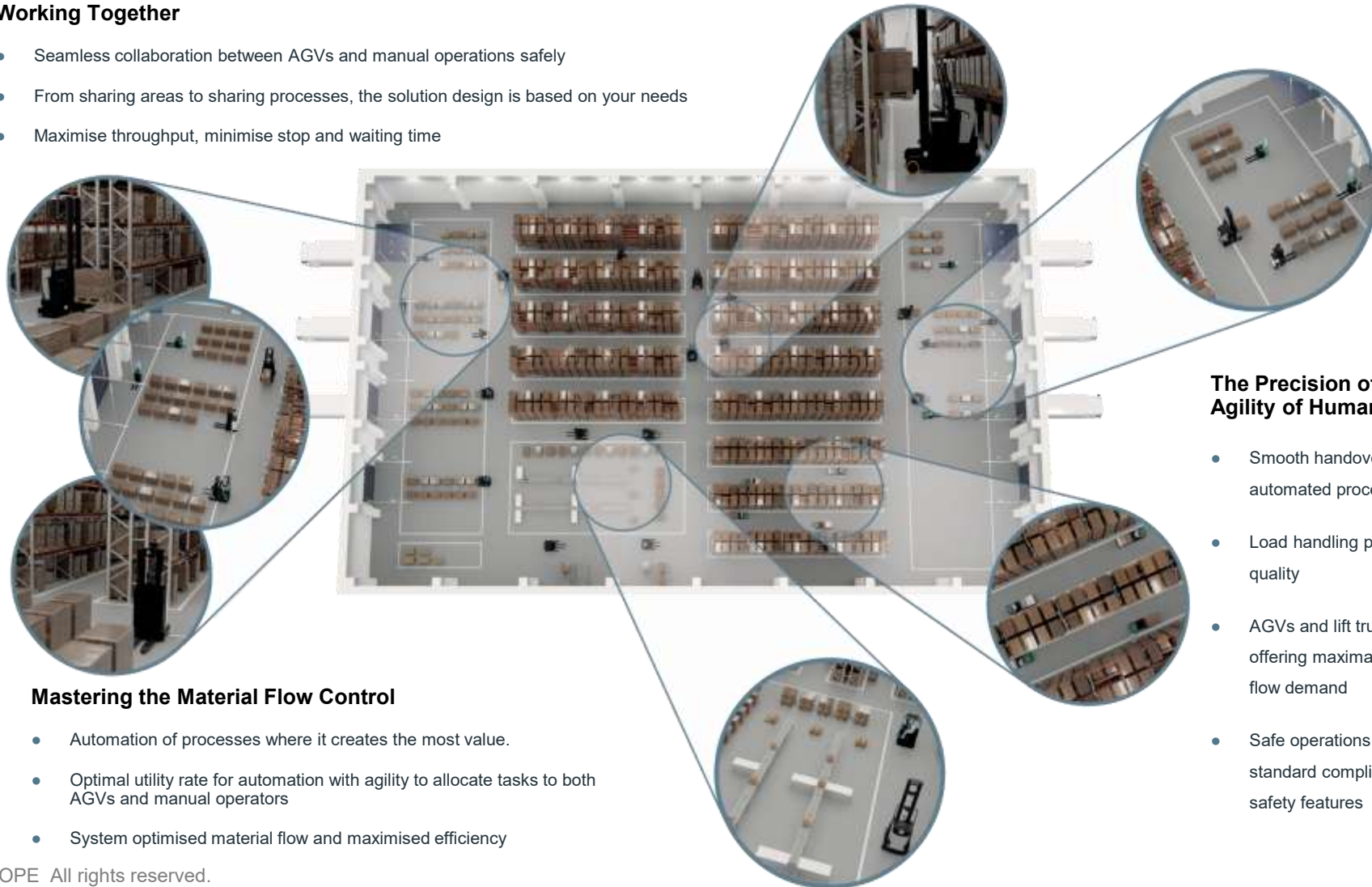
**EDiA**, smart, safe and agile manual counterbalance truck

The perfect balance between automation and manual operations

Optimal automation ensures efficiency, safety and adaptability

## Working Together

- Seamless collaboration between AGVs and manual operations safely
- From sharing areas to sharing processes, the solution design is based on your needs
- Maximise throughput, minimise stop and waiting time



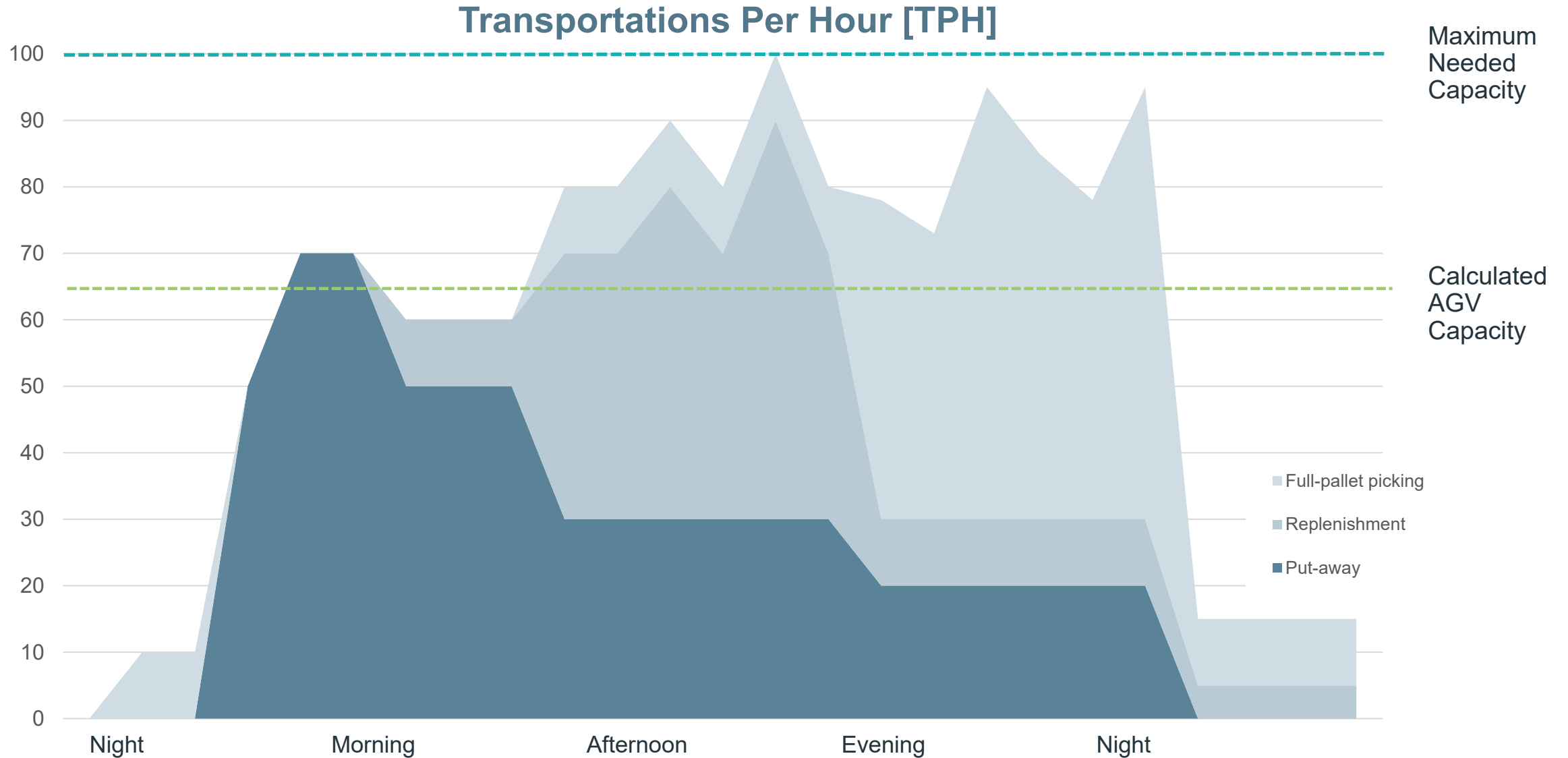
## Mastering the Material Flow Control

- Automation of processes where it creates the most value.
- Optimal utility rate for automation with agility to allocate tasks to both AGVs and manual operators
- System optimised material flow and maximised efficiency

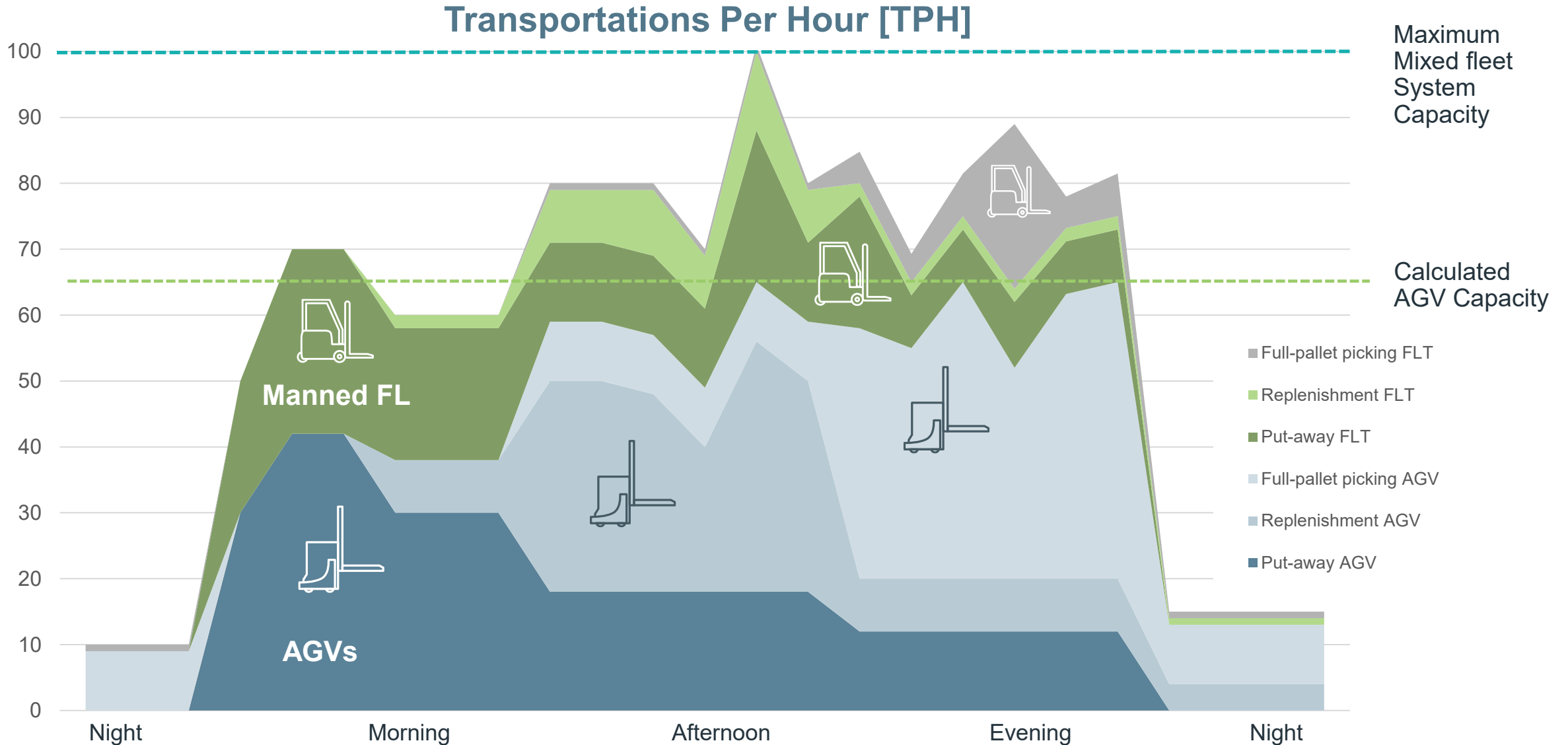
## The Precision of an AGV With the Agility of Humans

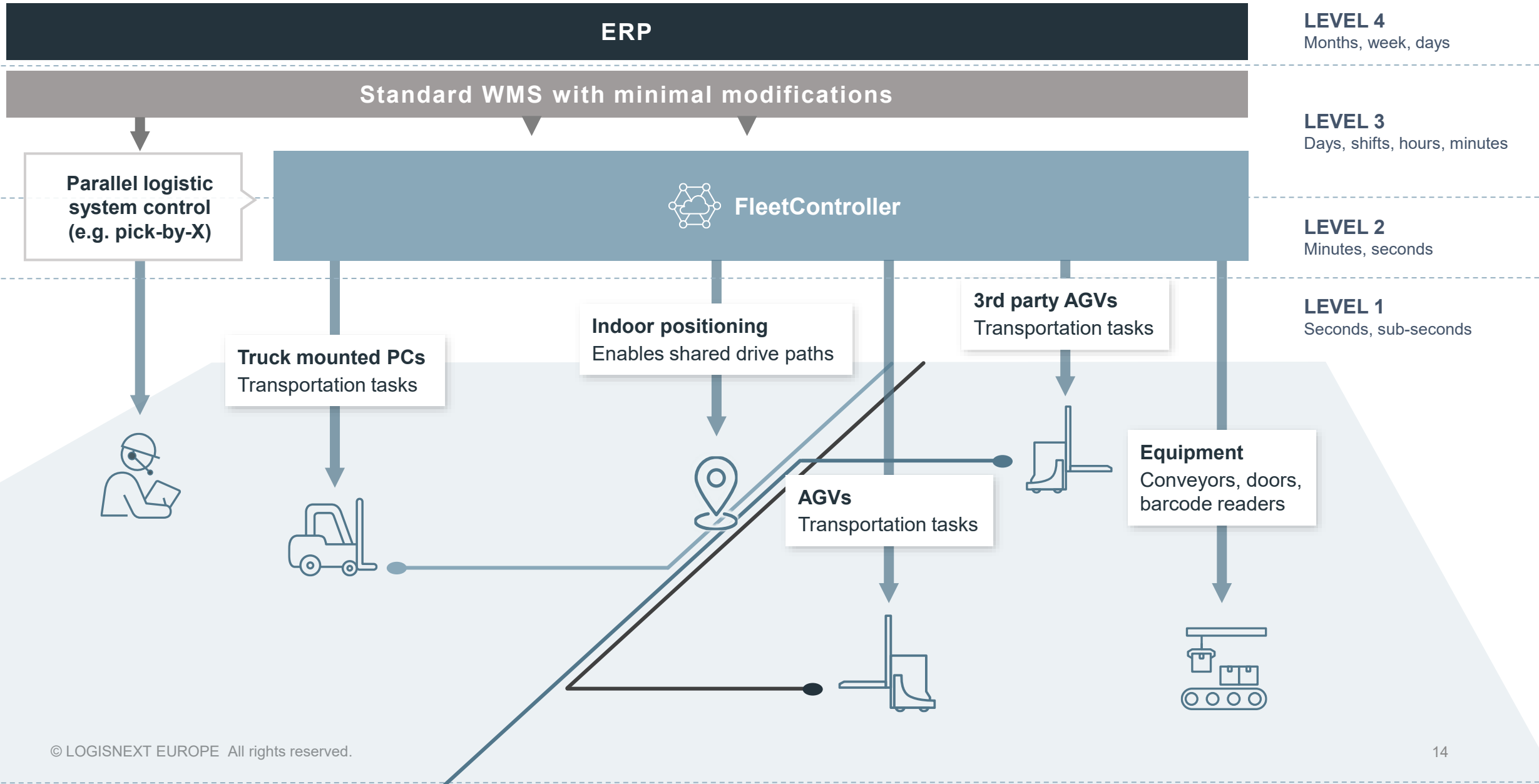
- Smooth handover between manual and automated processes
- Load handling precision for superior process quality
- AGVs and lift trucks support each other, offering maximal flexibility to meet the material flow demand
- Safe operations thanks to [ISO 3691-4](#) safety-standard compliant vehicles and additional safety features

# Batch Scheduling in FleetController

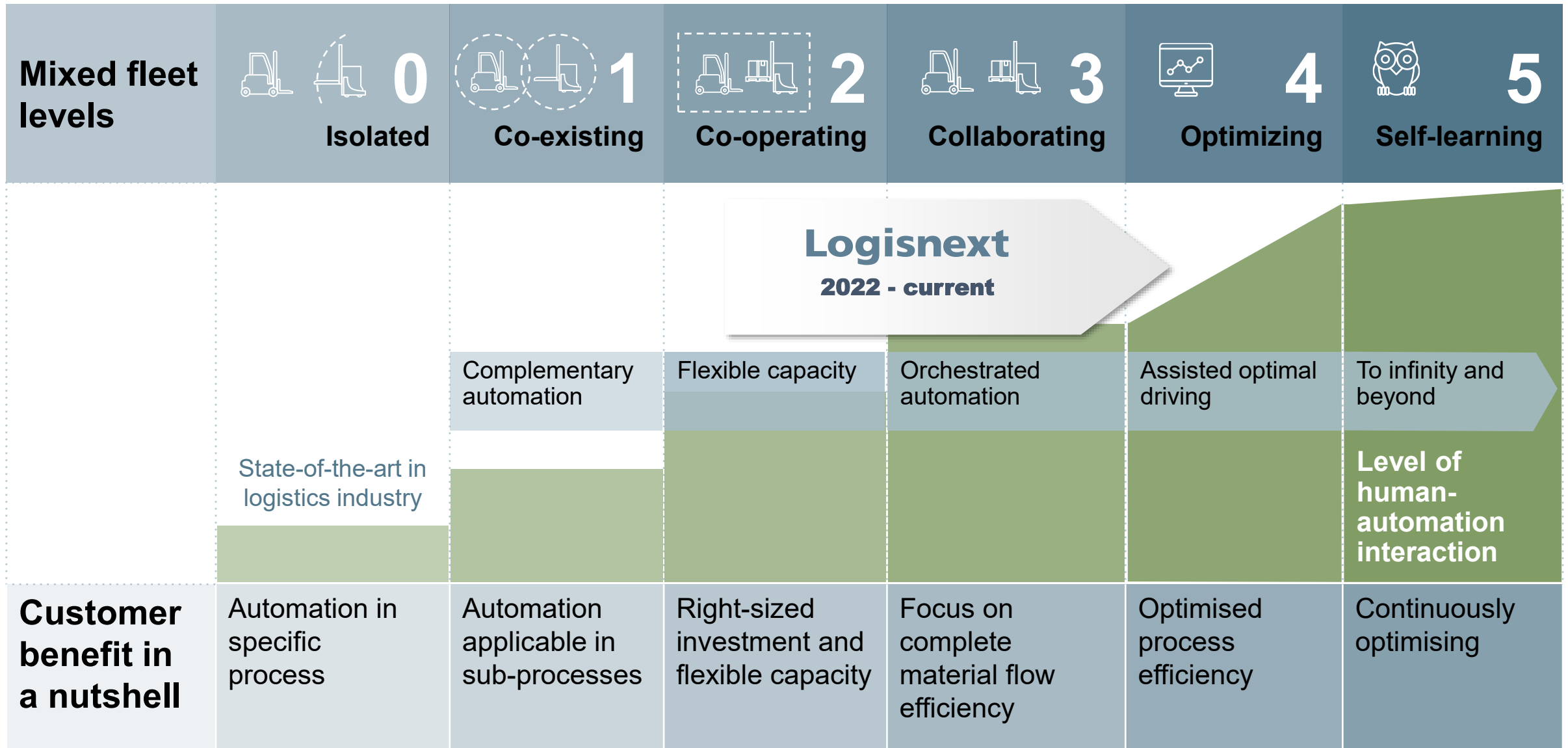


# Mixed Fleet Solution: Optimised Throughput





# Mixed Fleet Levels



**Logisnext**  
2022 - current

## Mixed fleet operations:

- Automation is not solution to everything
- Persons for problem solving
- Avoids increases in personnel cost and deduct automation investment
- Increases turnover and warehouse space utilisation efficiently
- Requires coordination on multiple levels



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**EUROPE**

[www.rocla-agv.com](http://www.rocla-agv.com)