



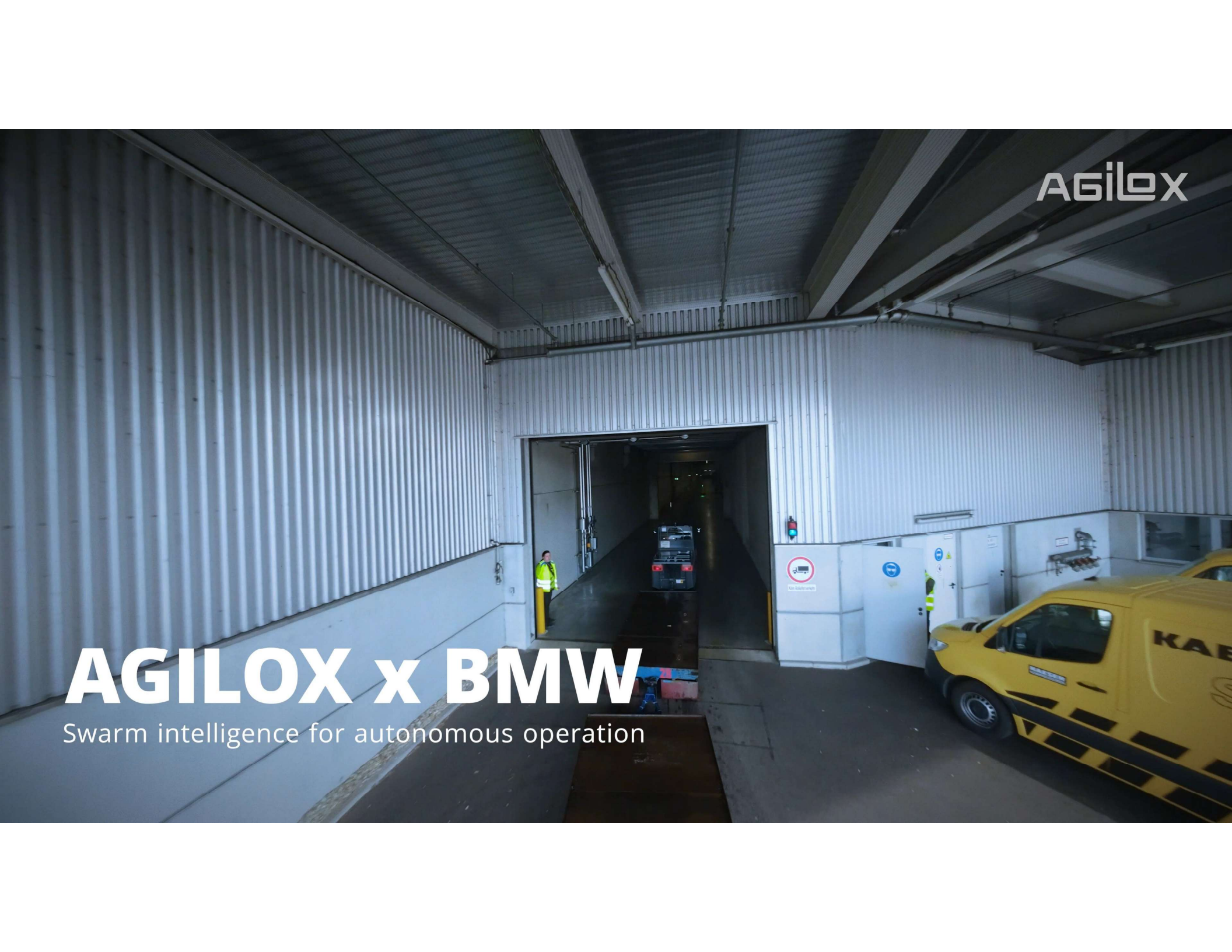
TRUST THE WORLD'S
EASIEST **AMR SOLUTION.**

Agilox

About us

- >280 employees
- >2.000 AMRs in the field
- Over 300 customers
- In more than 70 countries
- Locations on three continents and over 20 partners





Agilox

AGILOX x BMW

Swarm intelligence for autonomous operation



Project facts

- 30 AGILOX AMRs
- ~ 3.5k km per week
- ~ 2.8k tons per week

Motivation = WHY?

1. People

- Shortage of skilled workers / population development
- Sick leave
- Vacation

2. Industry 4.0

- Dealing with new technologies
- Tracking of transports

3. Environment

- Cleanliness of production
- Reduction of damaged goods, accidents

**FOCUS ON VALUE-ADDING ACTIVITIES
ALLOWS TO OPTIMIZE MATERIAL FLOW**





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GOAL

=

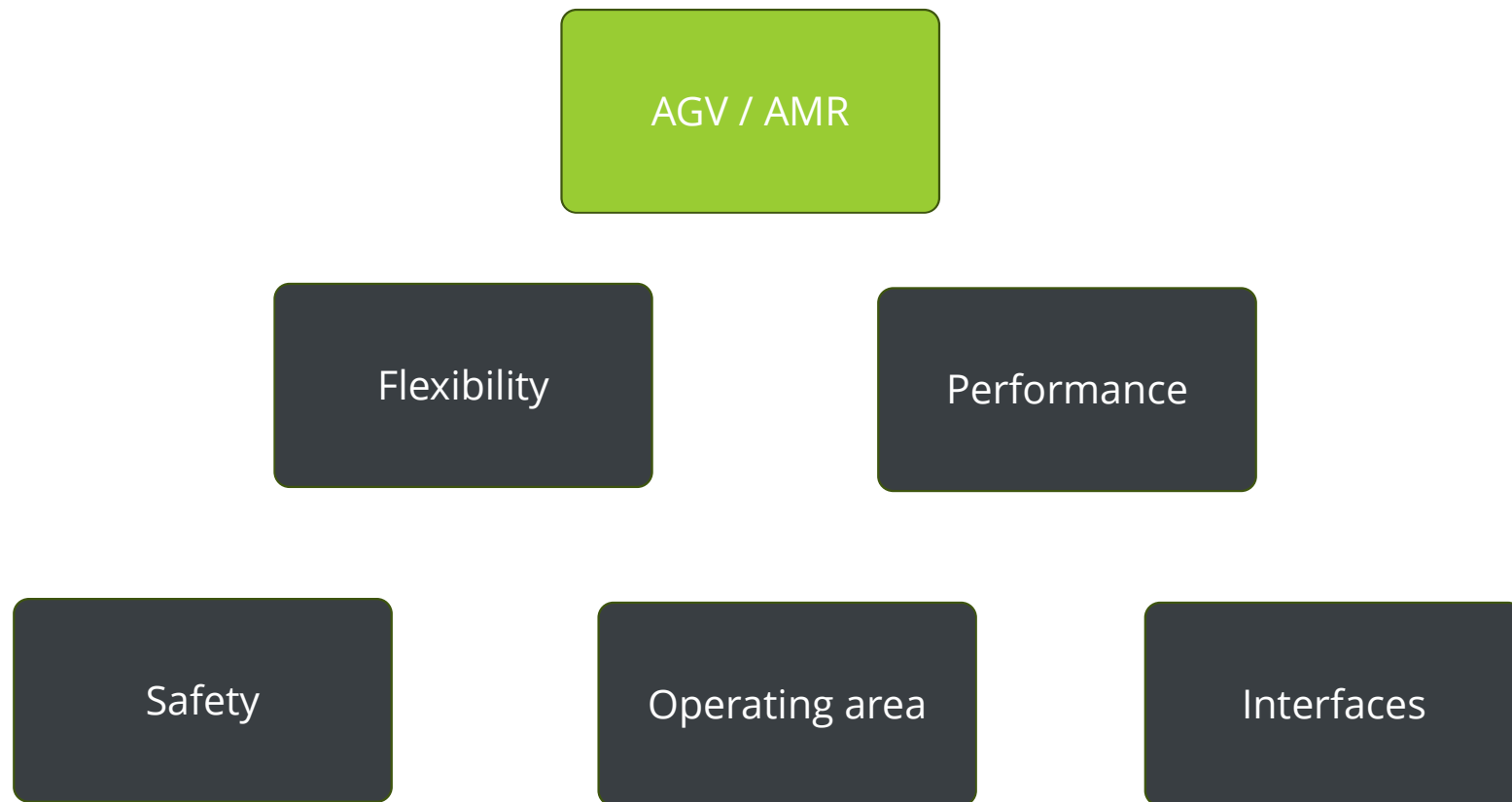
**Optimize material flow
&**

**Provides solutions for
70% of use cases**

1. Raw material transport
2. Empty loadcarrier handling
3. Pick-to-AMR approach

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Challenges & requirements of clients



AGV vs. AMR

AUTOMATIC GUIDED VEHICLES

- Fixed and static route guidance
- Processes are fixed and difficult to change
- Mostly central fleet manager
- On-site adjustments are often not possible without an external connection & costs

AUTONOMOUS MOBILE ROBOTS

- Flexible route guidance
- Swarm intelligence
- System can be configured by yourself
- Simple modification of processes, layout, stations, transport orders, ...
- Plug & Perform





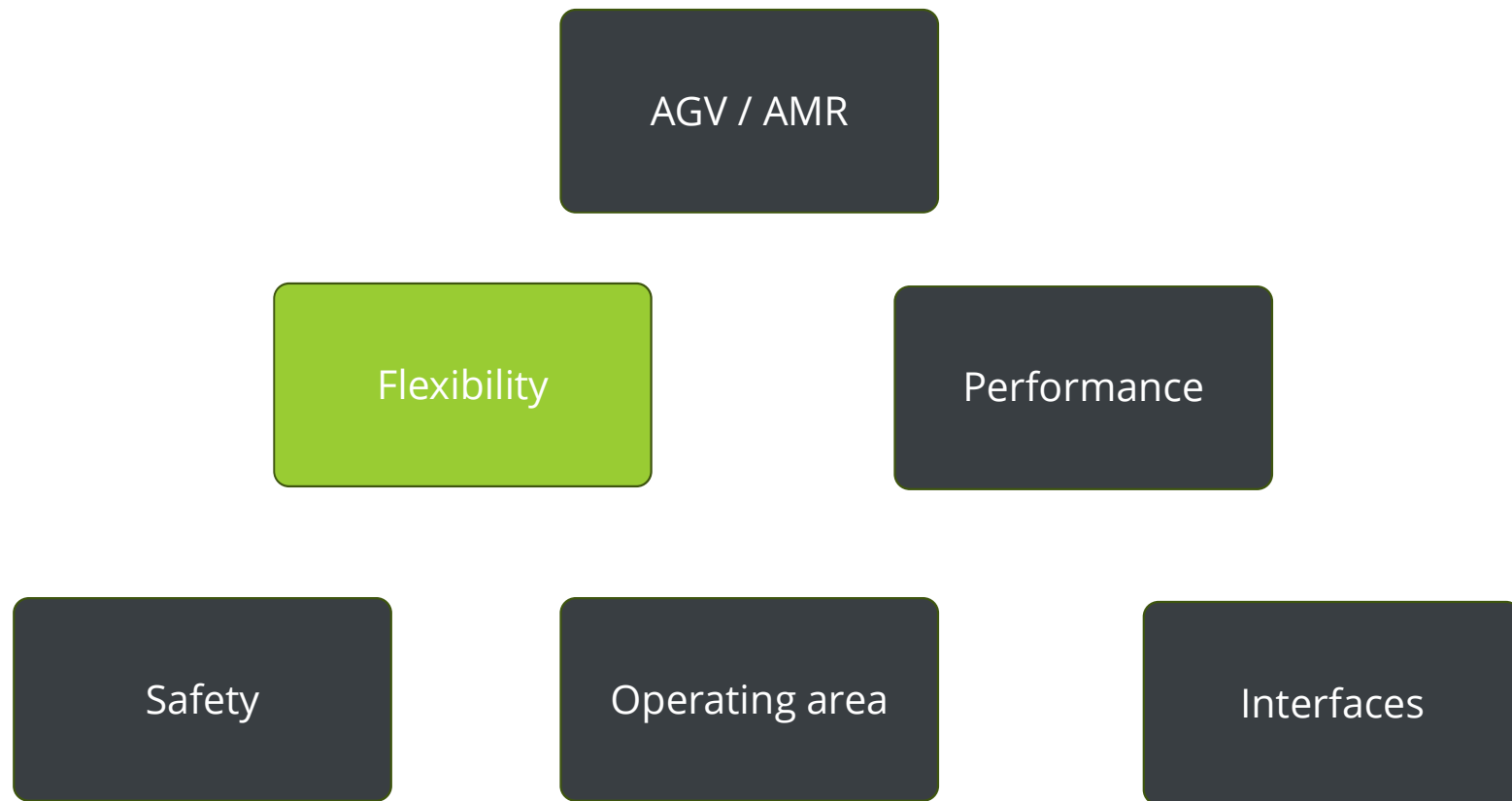
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AMR necessary

- Designed to bring the logistics industry to the next level -

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Challenges & requirements of clients





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Flexibility

User first experience

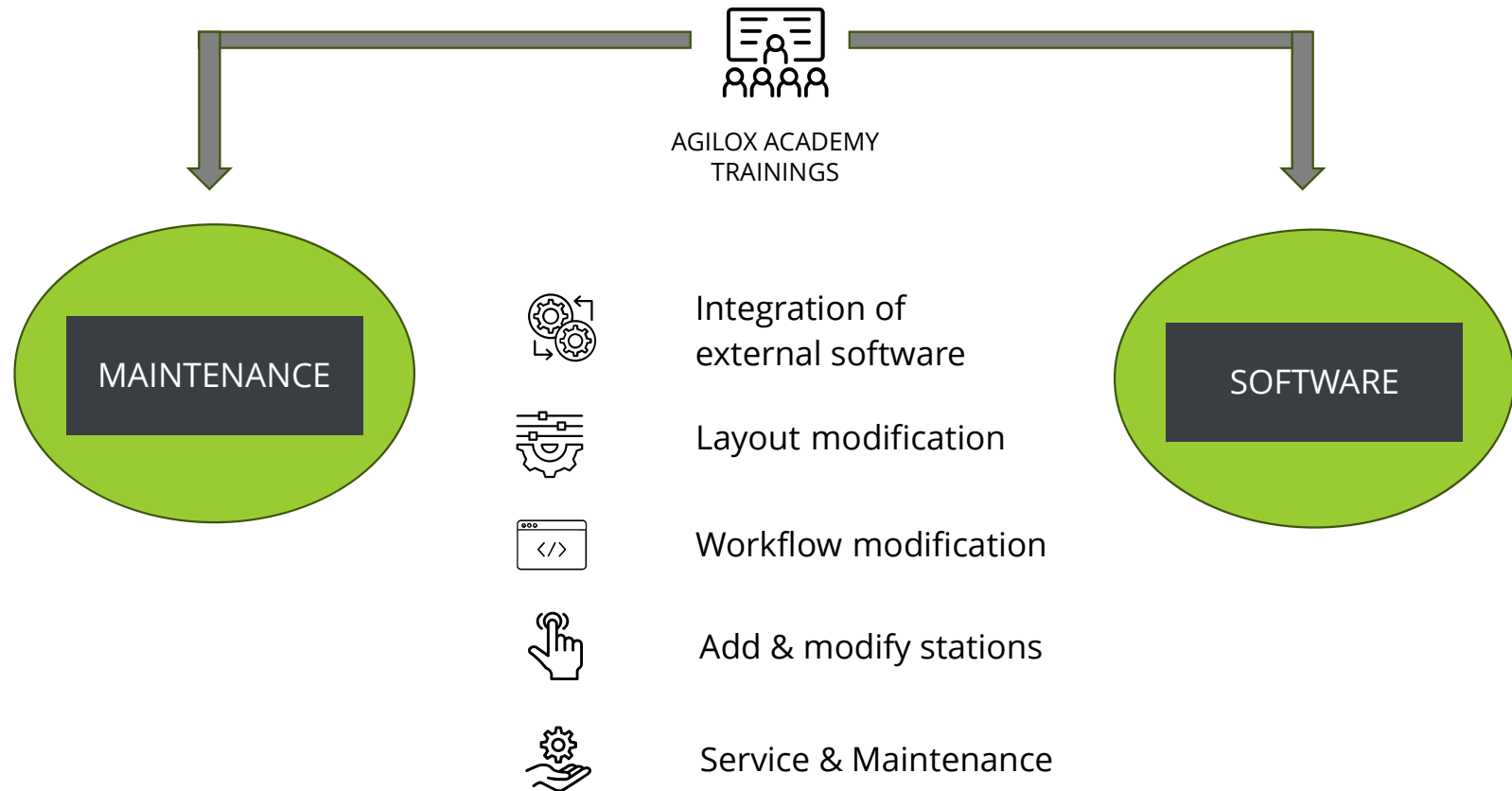
Easy setup

Easy use

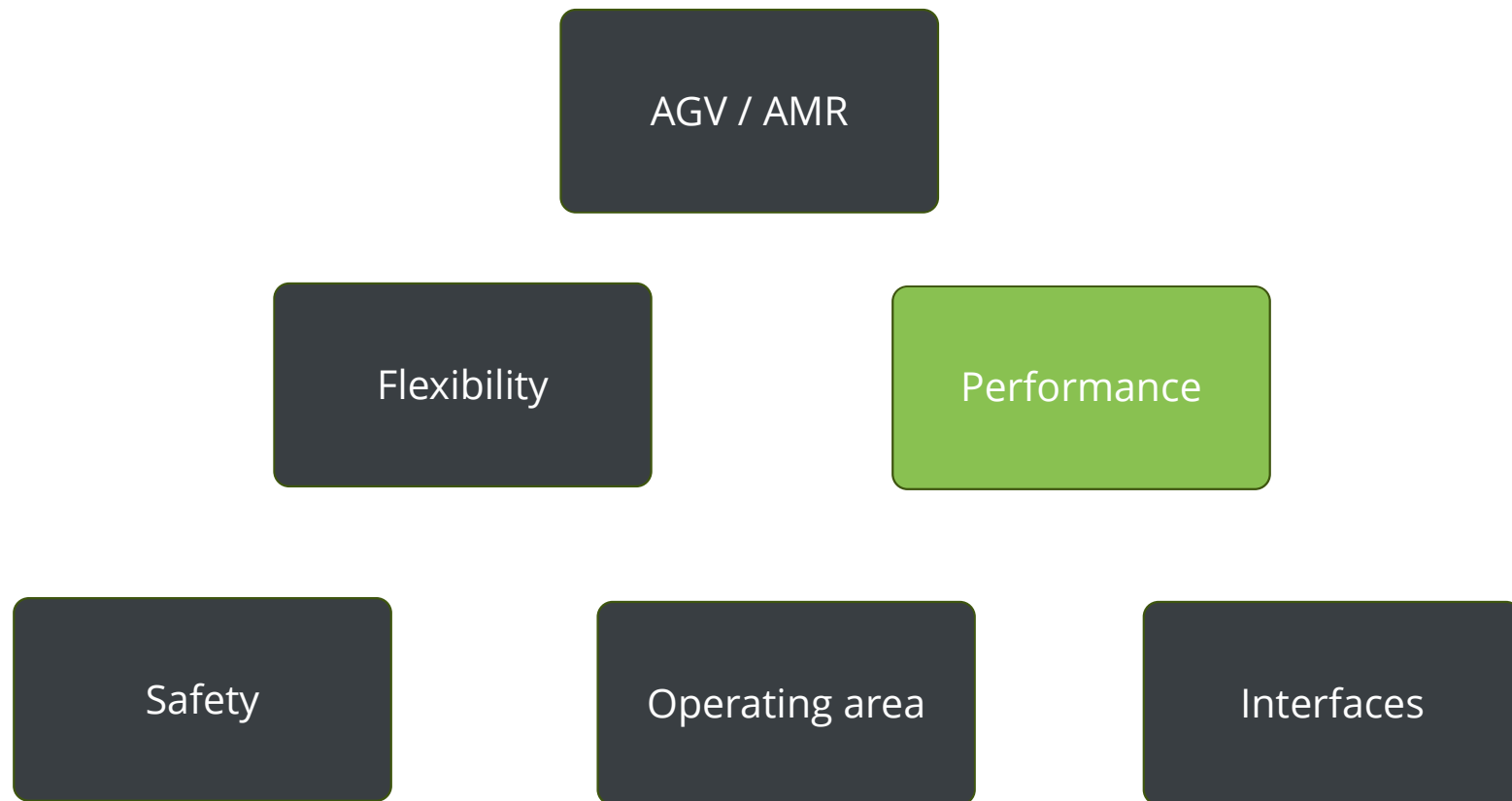
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DIY approach // Independency

Let the client decide



Challenges & requirements of clients





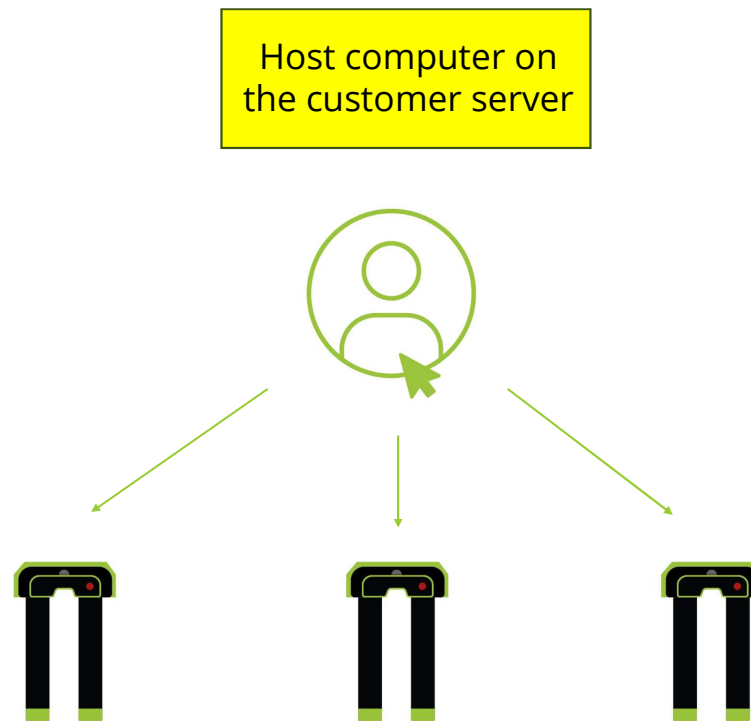
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Constant material flow under all circumstances

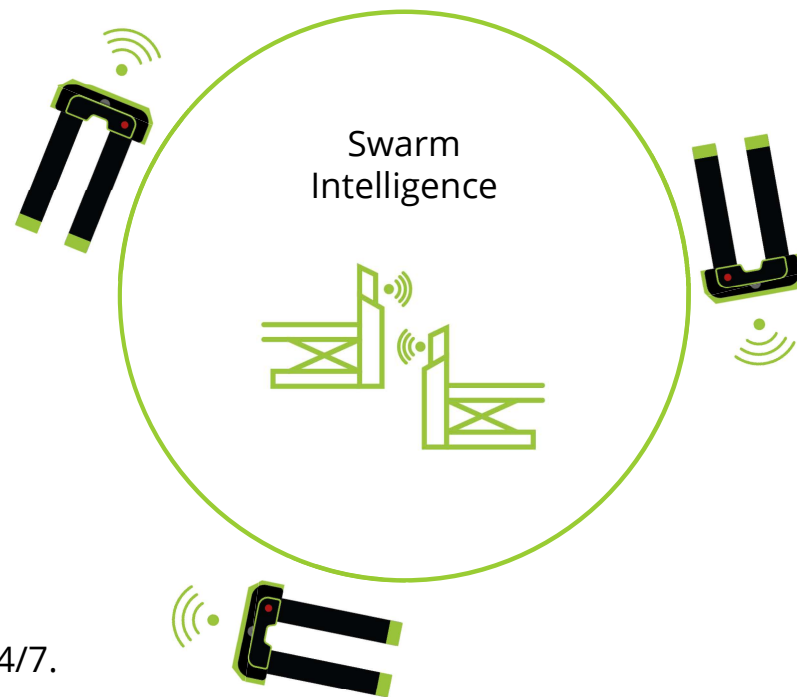
Redundant system setup

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Performance – Centralized intelligence



Performance – Decentralized intelligence



Supply Chain

Simply no more standstill. 24/7.

Challenges & requirements of clients





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**As safe as technically
possible**

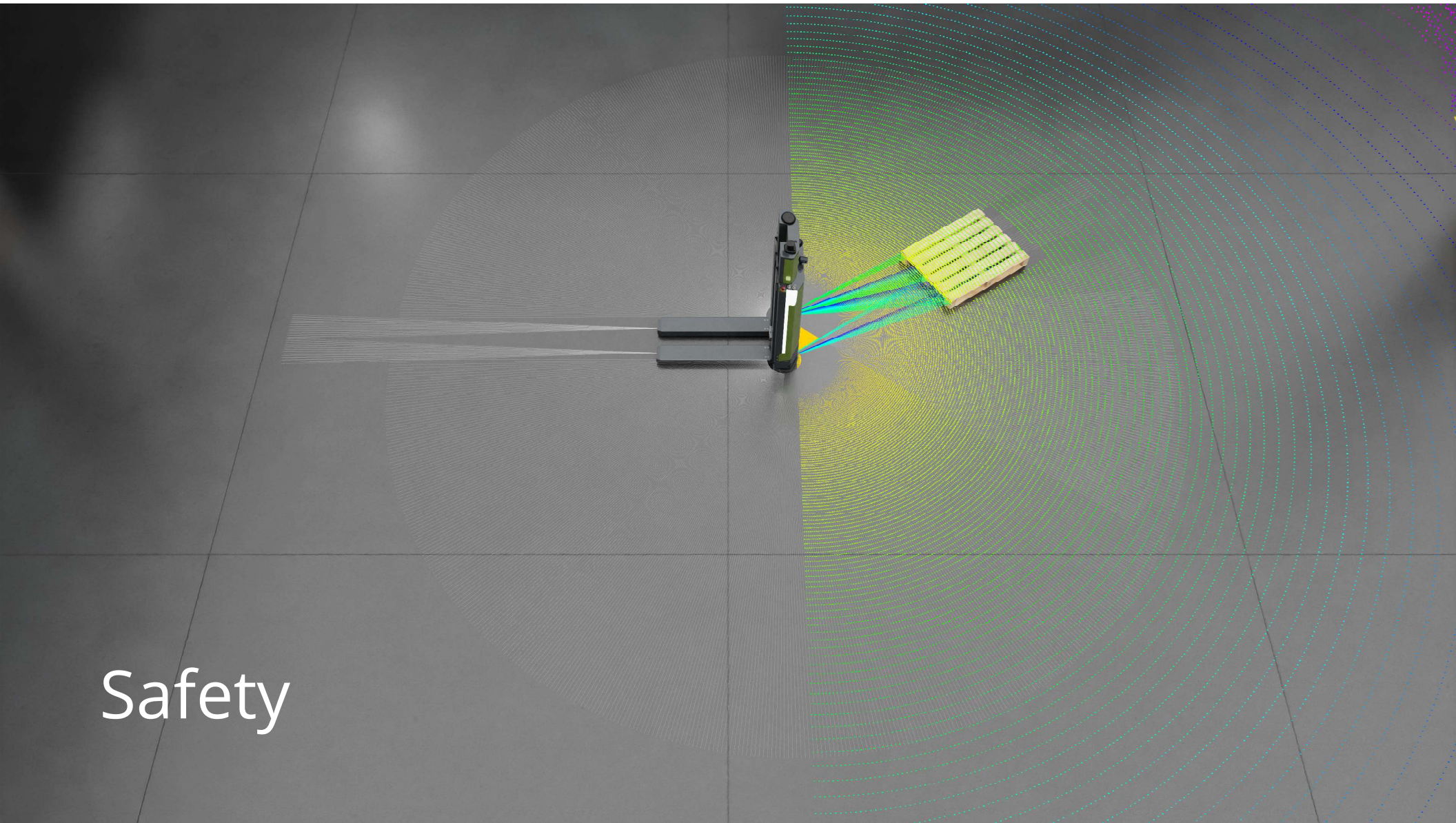
360° safety field

EN ISO 3691-4 conform

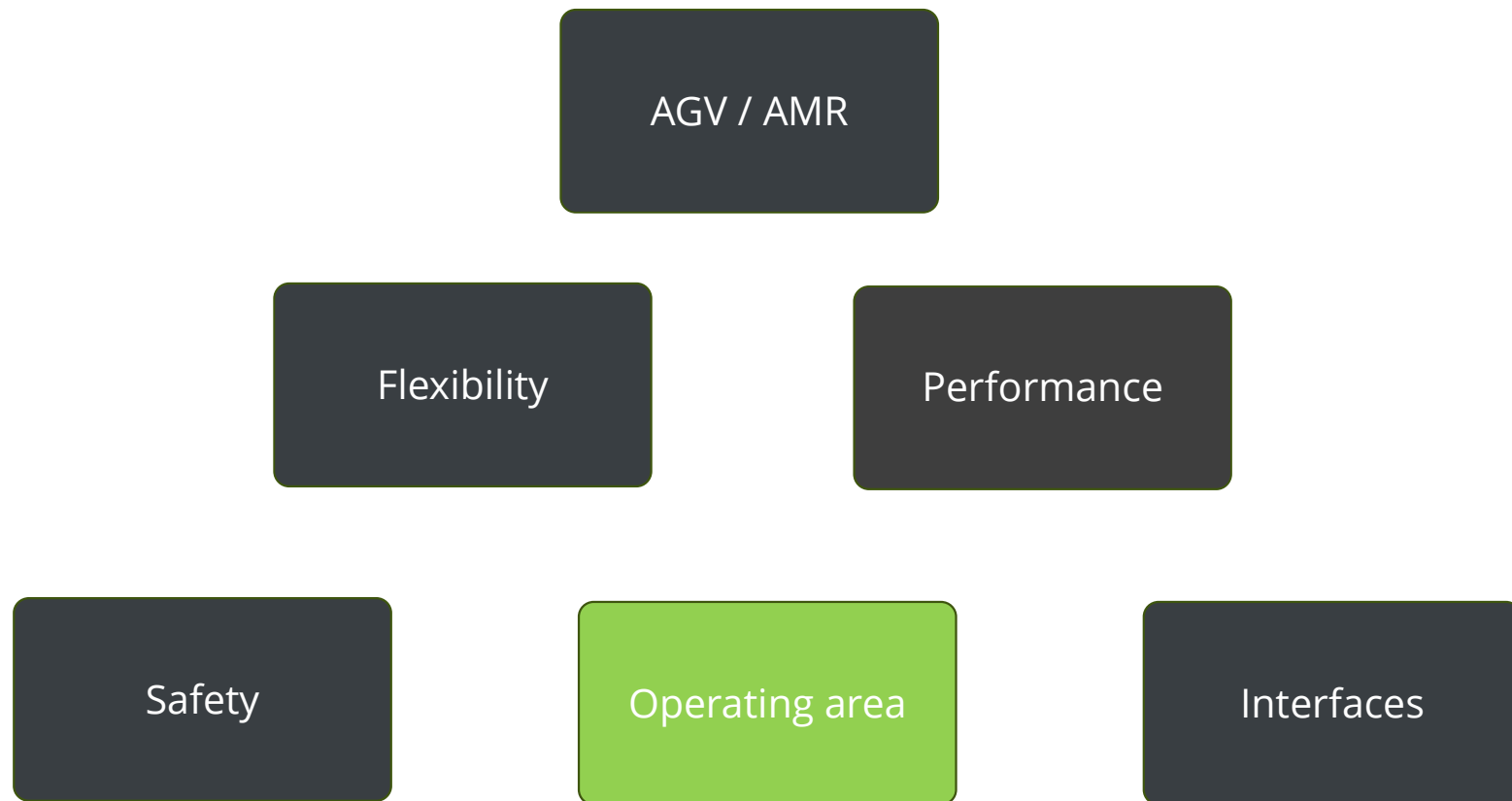
Additional sensors

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Safety



Challenges & requirements of clients





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As little as possible

Omnidirectional movement

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Operating area

**VEHICLE DIMENSIONS
(L X W X H)**



1.511 x 810 x 1.862 mm

LOADCARRIER



EPAL – 1.200 x 800 mm

**MIN. PASSAGE
WIDTH**



1.400 mm

**MIN. AISLE
WIDTH**



1.600 mm

**MIN. AISLE WIDTH
(PARALLEL)**



1.800 mm

**IDEAL AISLE
WIDTH**



2.000 mm

**IDEAL AISLE WIDTH
(TWO-WAYS)**



2.900 mm

TURNING CIRCLE



2.100 mm

**MIN. AISLE WIDTH
(TWO-WAYS)**



2.600 mm

BLOCK STORAGE GAP



50 mm

BLOCK STORAGE GAP

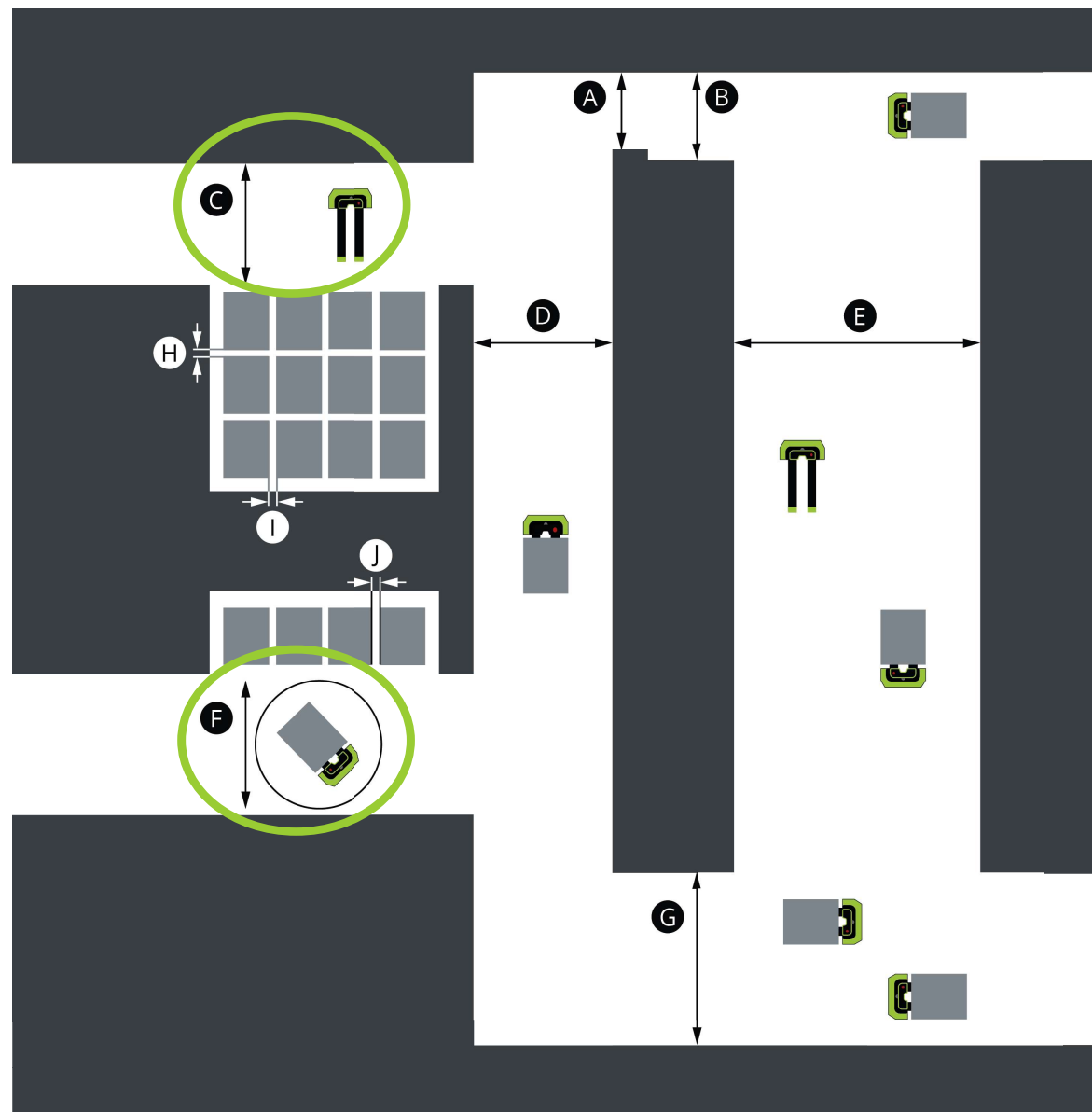


200 mm

SINGLE STATIONS



100 mm



Challenges & requirements of clients





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Seamless integration

Different levels of integration

Interfaces

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Interfaces

- Many possibilities with REST API
- IO signals via AGILOX IO Box
- Handling of mixed fleets is an important future use case (VDA5050)

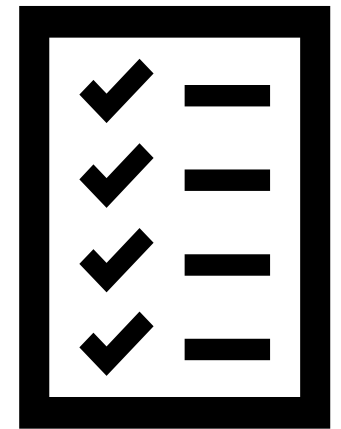


Challenges & requirements of clients

AGILOX AMR
for
70% of usecases

Easy setup
&
usebility

Constant
&
redundant



360° safety

Omnidirectional

X Swarm tech