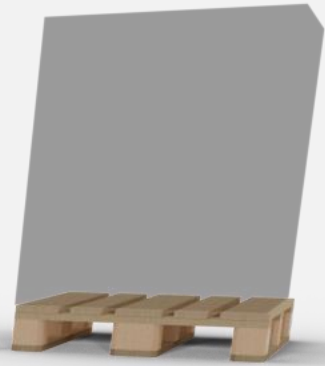




Leading the indoor logistics transformation



Munich

Trend

3 mega trends force companies to rush into full-automation



Worker shortage

200.000

only in Europe



Rising indoor logistics demand

16%

CAGR by 2030



Cost pressure

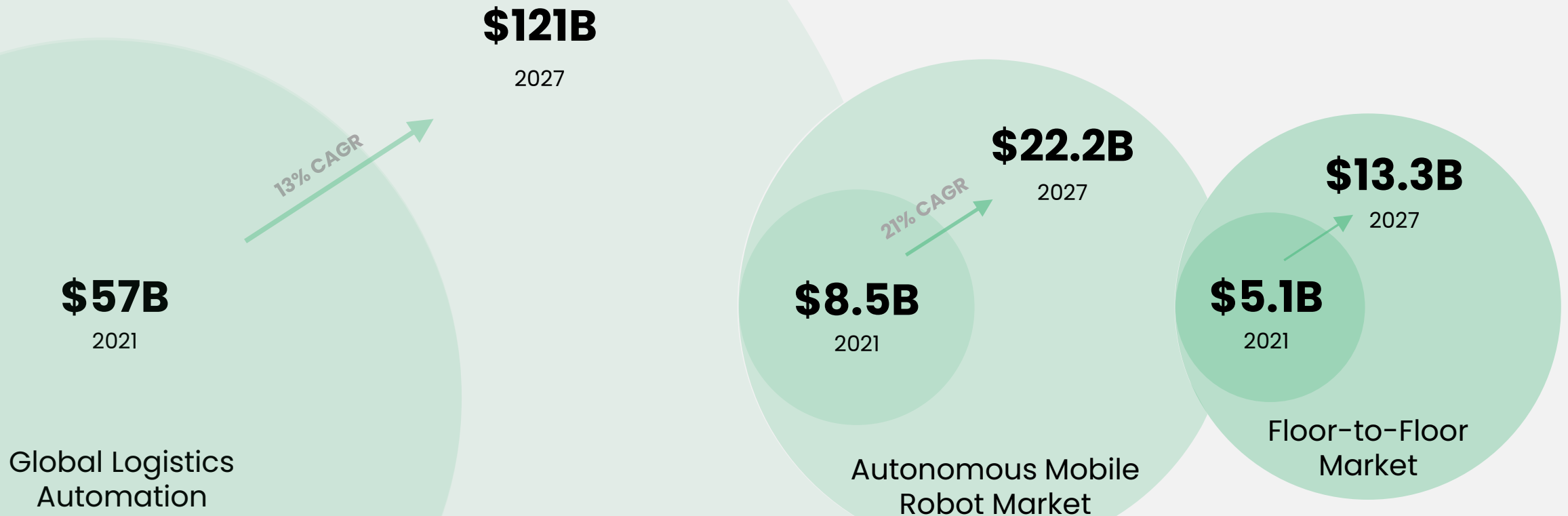
74%

of experts' rate cost pressure as high

We need to automate the supply chain

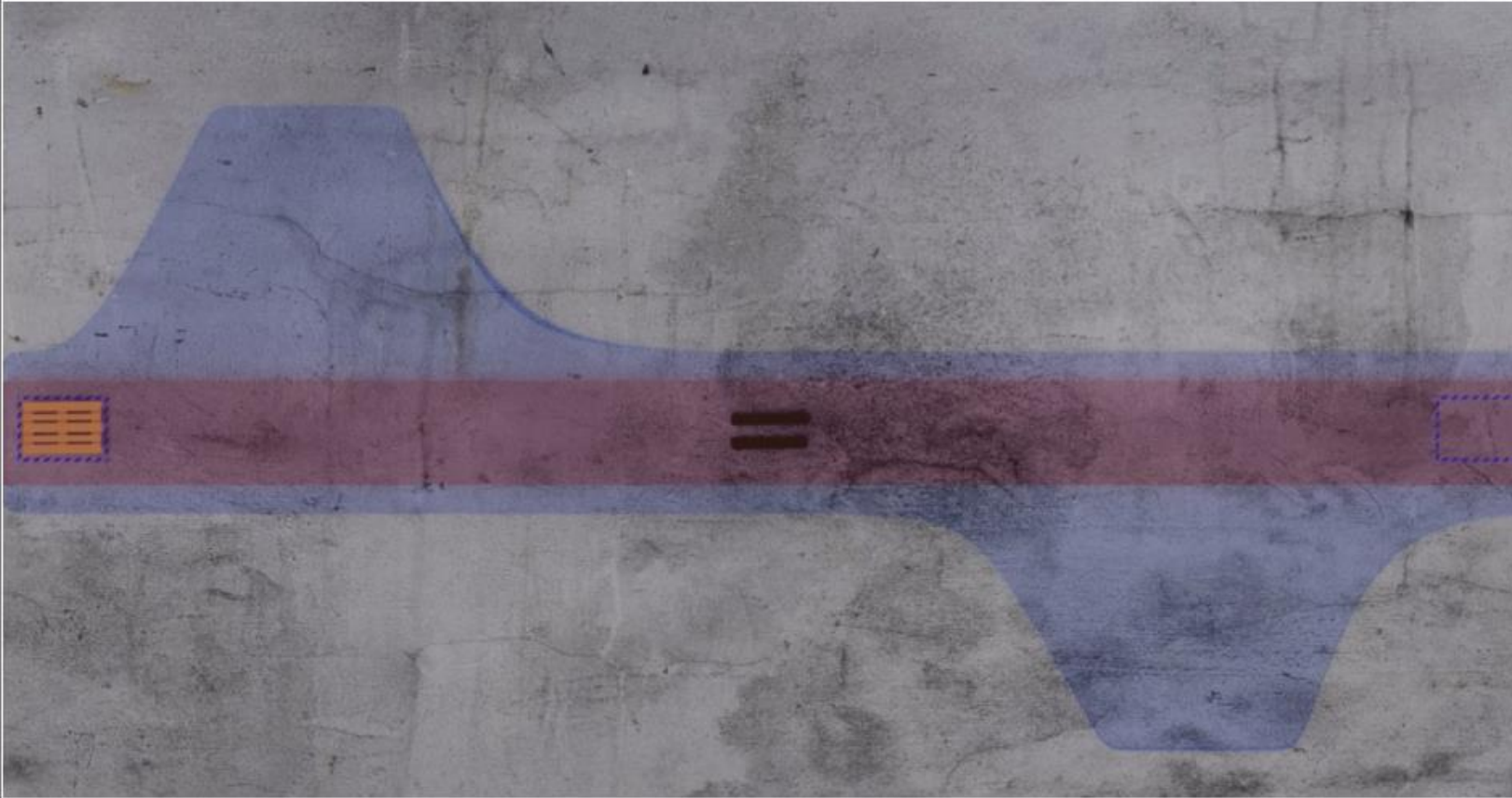
Market

Industry players are expected to massively invest in the next years



Teaser

Consider a load carrier transport



Ideal transport



Filics
Unit*
40 m²



Conventional
vehicles*
62 m²



Mission:

We reduce to the minimum for a **simple, flexible & fast** solution

Filics is ...

autonomous

smart by software

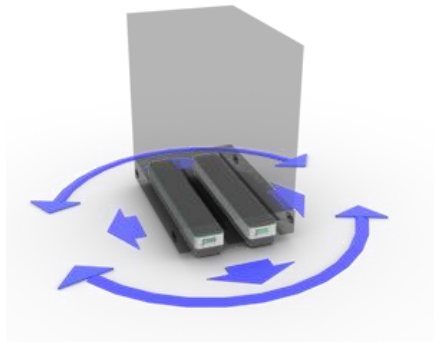
as compact as possible

Solution

Our unique platform enables the next generation AMR



Smart form factor

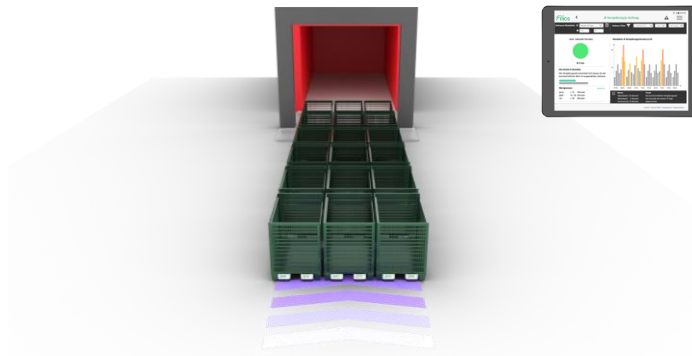


Filics units can drive sideways and turn on the spot. Block storage **capacity increases by 25%**, and speed by 40%.

More asset utilization



Intelligent platform



Filics software enables compact batch drives. Truck loading time and ramp usage goes **from 45 min to 2 min (22.5x)**.

More throughput



24/7 availability

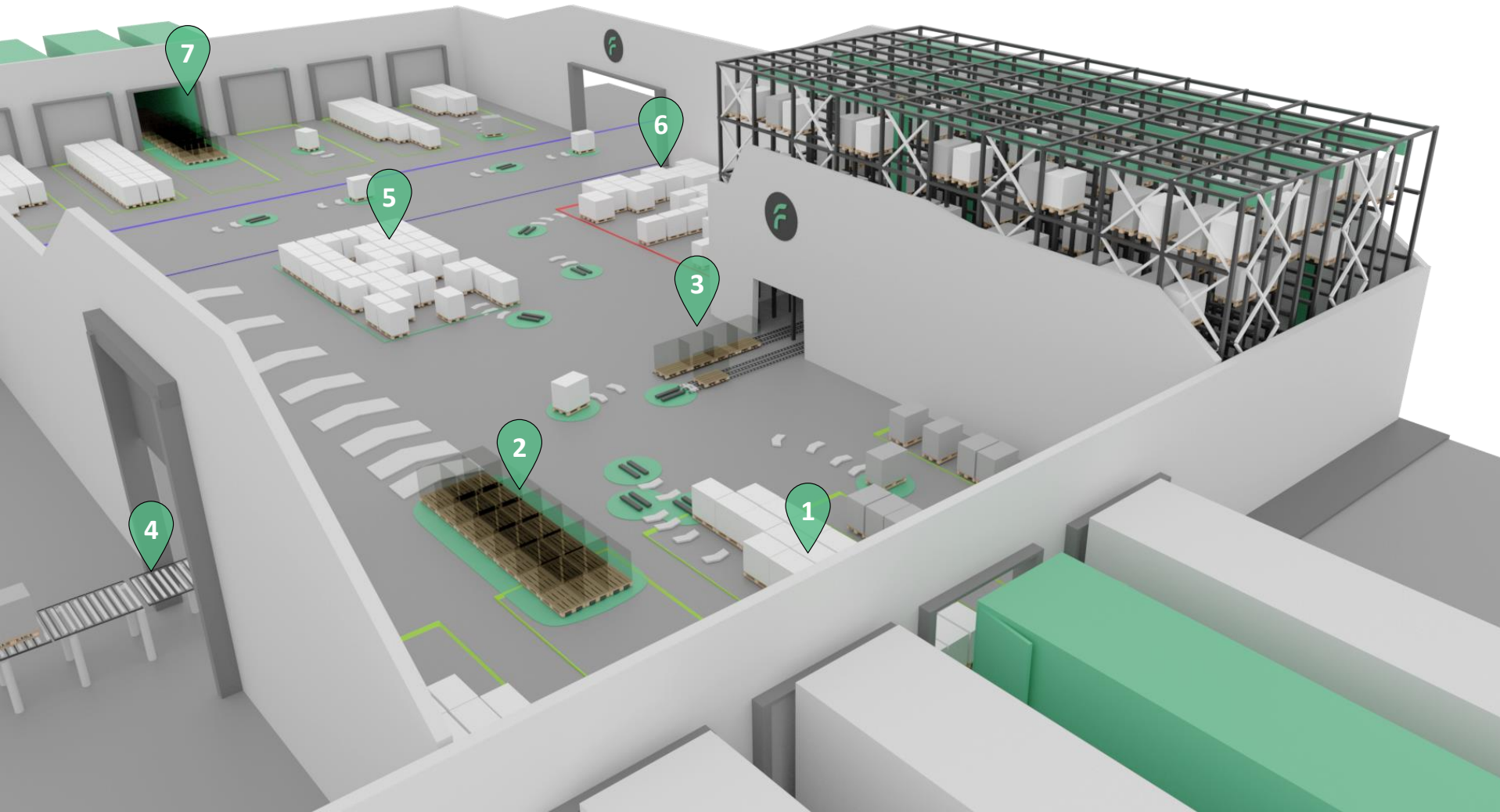


Filics offers an extremely modular and lightweight solution. Modules can be **replaced within minutes** by a worker, instead of waiting days for a technician. We enable 99.9% system availability.

More reliability

Vision

Automation of all ground-based processes

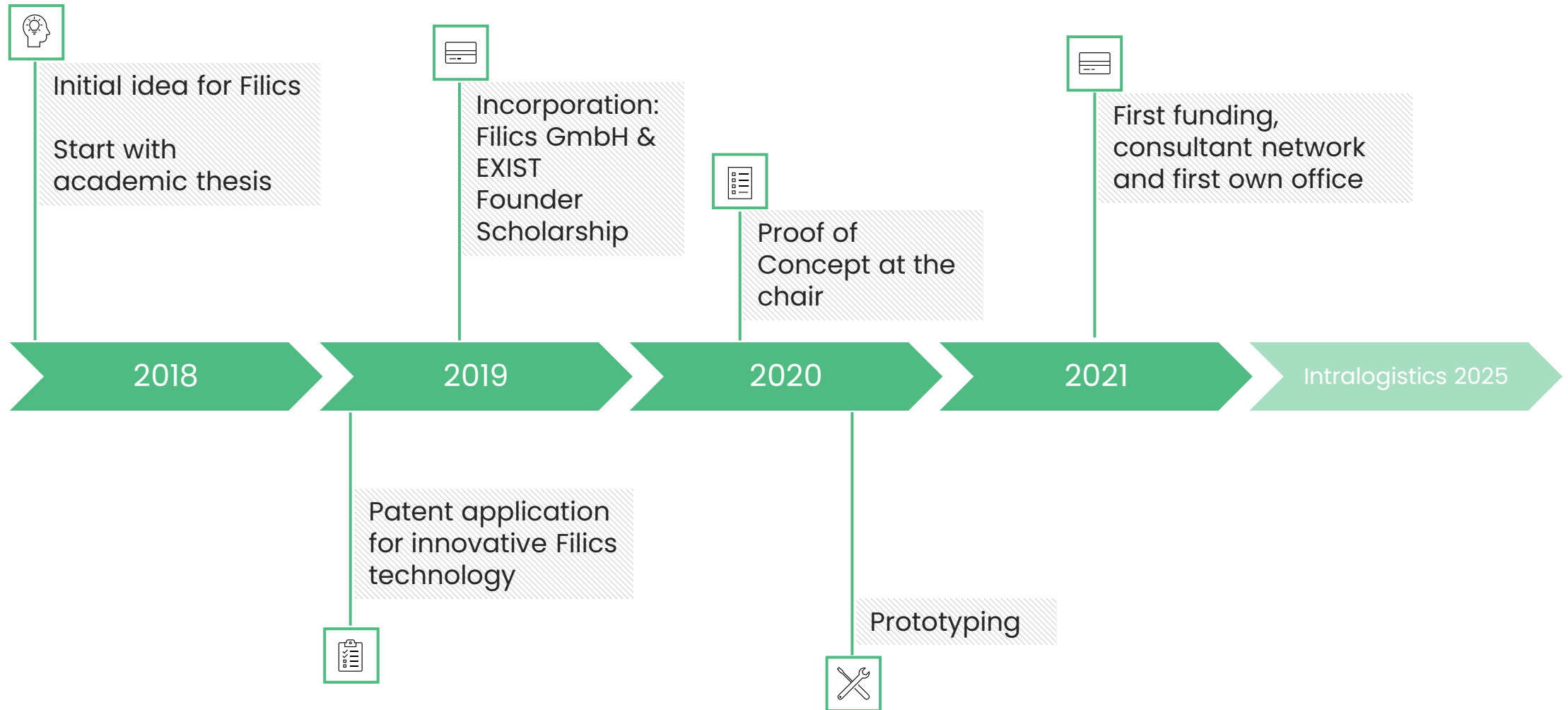


Main use cases:

- 1 Autonomous truck unloading
- 2 Compact batch drive to new destination
- 3 Interface to high-rack warehouse
- 4 Handover station as link to production
- 5 Flexible space for sequencing
- 6 Short-term block-storage
- 7 Prepare & execute truck loading

Story of Filics

Our journey



Story of Filics

Our journey

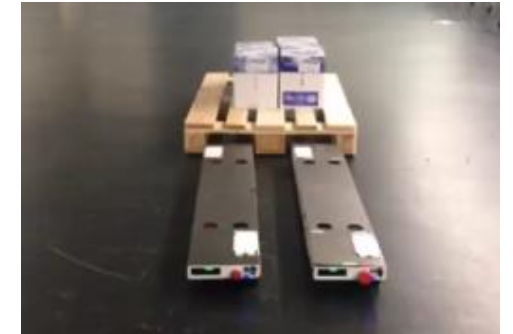
First step:

- Meet some friends, which have the similar motivation like you
- Think about all areas of problem which will be solved in the future
- Bring yourself into some entrepreneurial environment
- Have fun!



Second step:

- Go after your idea
- Building first prototypes and feel the difference between university and reality. It's a huge gap!

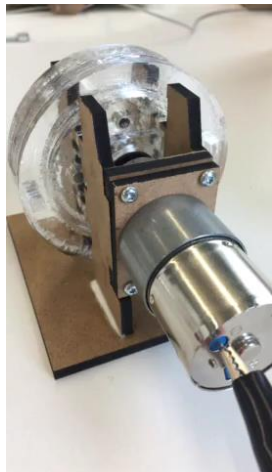


Third step:

- Find the way into the industry. Talk to people.
- Learn to collaborate with businesspeople
- Off you go 🚀

Prototyping

Two of our in house developed parts



1

June

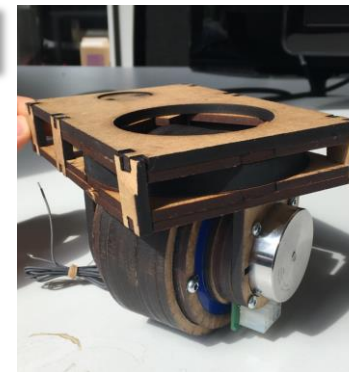
Initial planetary gear prototype



2

August

Different gear ratio, improved motor etc



3

September

First module prototype

2019

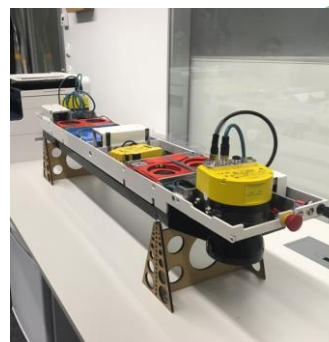
2020



1

June

Wooden framework with real size driving modules.



3

December

Aluminium Framework with all components in real size + state of the art laser scanners at that time.



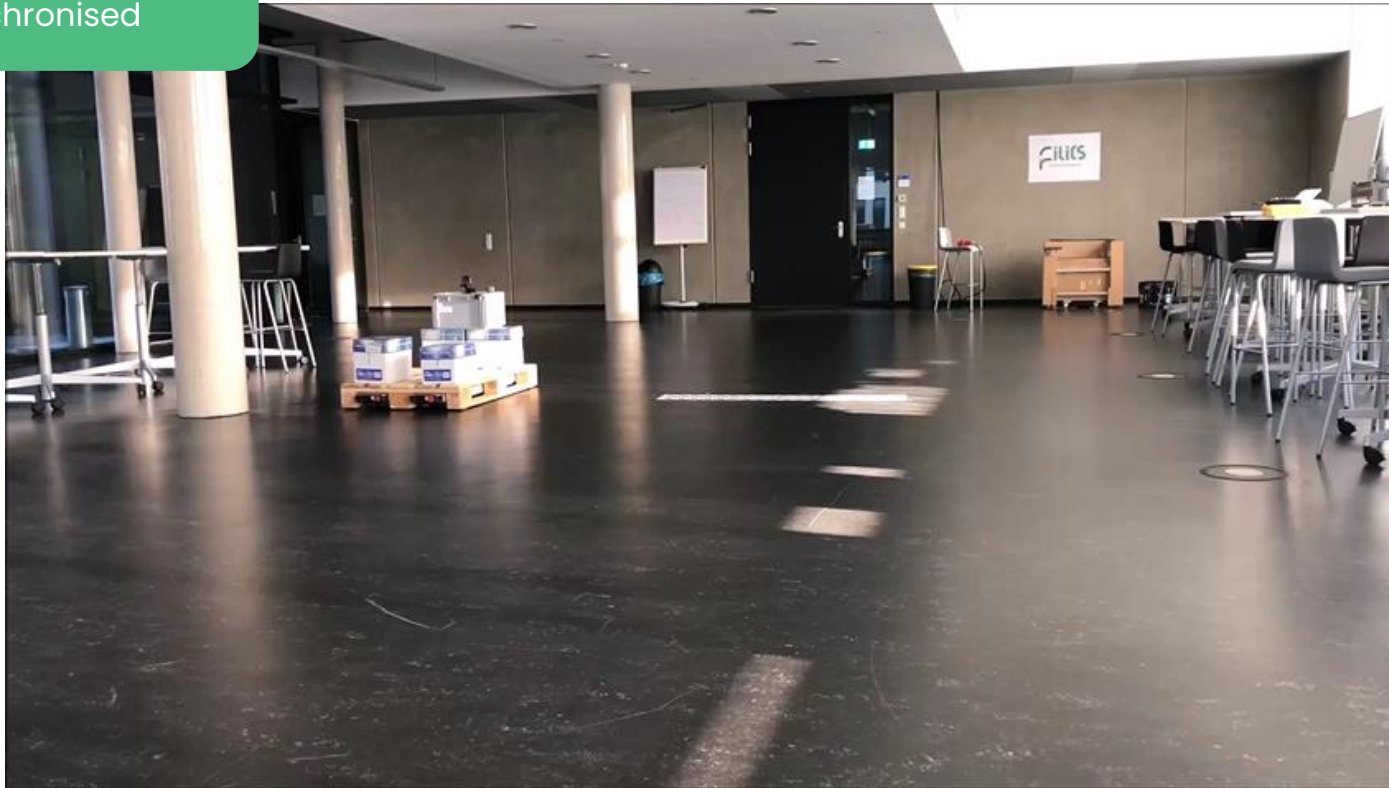
3

June

Real size steel prototype with all components included.

Funding Milestones

Milestone 1
Skids drive parallel &
synchronised



Funding Milestones

Milestone 2
Constant speed of 1m/s

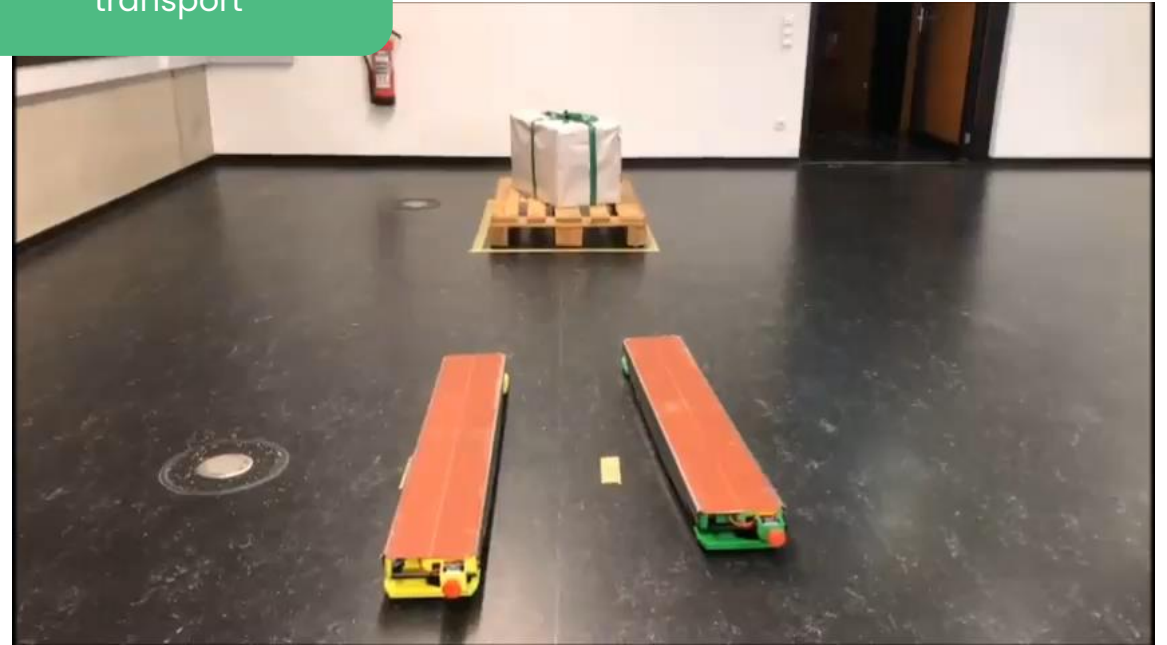


Funding Milestones

Milestone 3
Lifting mechanism lifts
1000kg



Milestone 4
First fully autonomous
transport



Time to shape the future of logistics together!

