

market is driving change

e-commerce is pushing other industries to redefine themselves, as they grow at rates, that others can only dream of...

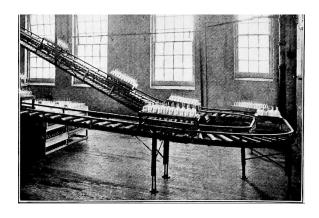


material handling is stuck in the past

Industrial robots revolutionized manufacturing



1920's





1970's





today



...meanwhile in material flow, very little has changed since then.

the problem

These industries can't keep pace, because traditional material flow systems have flaws...



massive, complex and long delivery times

future proof?

With poor adaptability to market changes, no chance!



dozens of different modules and hundreds of different spare parts

maintenance?

High effort, time consuming and expensive!



either for mass production

OR for single customization

mass customization?

Today, unthinkable!

the market is ready!

Customers are demanding flexibility...

"State-of-the-art conveyor technology must be modular, flexible and scalable" (1)

Ulrich Schlosser, managing director Witron Logistik + Informatik

"Our customers demand modular and scalable systems" (1)

Frank Apel, managing director Gebhardt Fördertechnik

"The accelerating rate of change in operational requirements is driving the need to implement conveyor systems that can be reconfigured" (2)

Kenneth Ruehrdanz, manager of the distribution systems market, Dematic North America

...and they are willing to pay more to get it!

60% (3) willing to pay more for extra reliability

53% (3) willing to pay more for extra design flexibility

58% (3) willing to pay more for extra ease of repair and maintenance

+

45% (4) plan to invest in robotics in the next 24 months

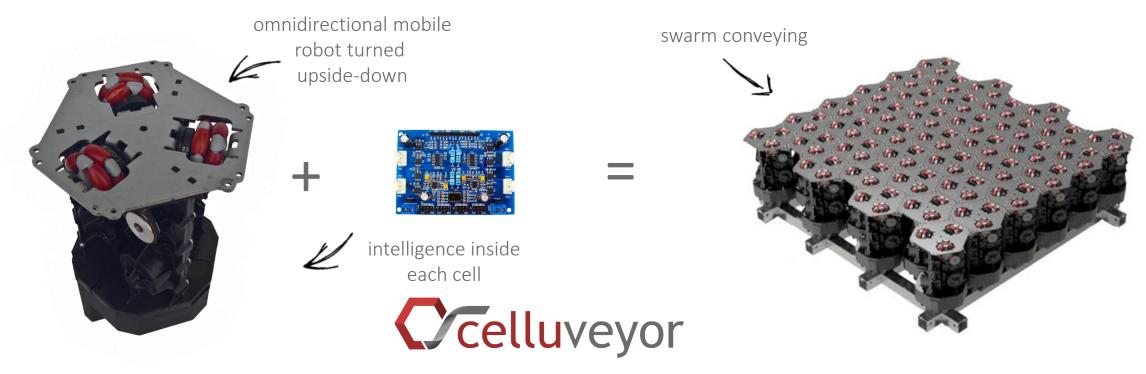
the solution

mobile robotics artificial intelligence longination control

(turned upside down!)

our solution

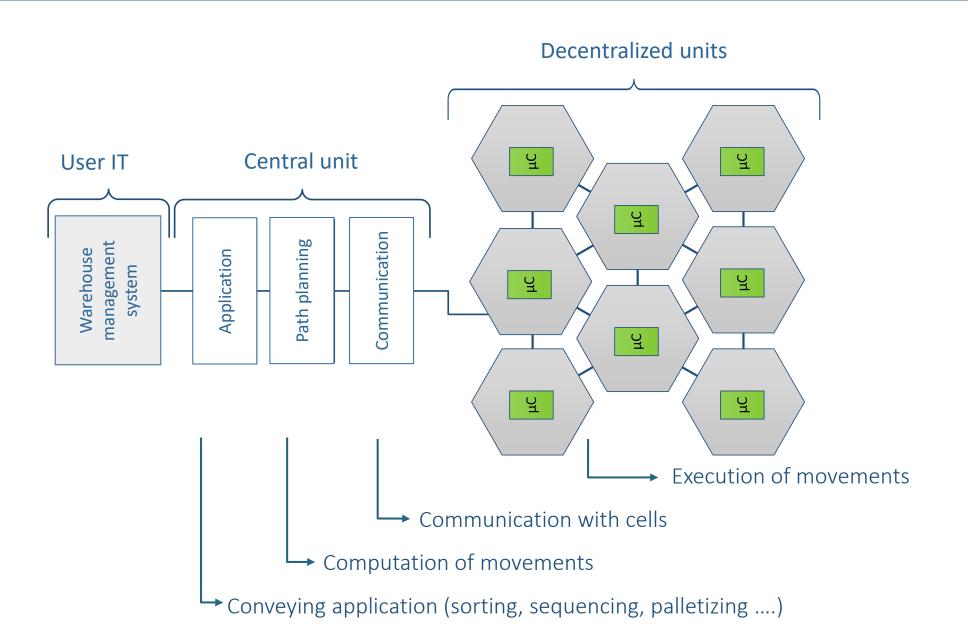
We've developed a universal material flow technology that can freely move any number of objects in any direction and thus replace almost any existing conveying system



- cellular concept one cell fits all
- one hardware for any conveying application
- any thinkable machine layout

- simultaneous movement of any number of objects
- conveying application defined only through software
- endless scalable

the control



technical facts

Communication	Partly-decentralized cell to cell (Realtime)
Power supply	48V – Supply from cell to cell
Layout recognition	Automatic
Fault detection	Automatic
Customization	Yes, mechanical changes via software update
Transport speeds	Max: 2 m/s
Object weight	Max: 20 kg/wheel (i.e. carton 20x30 cm approx. 100kg.)
Object size	Min: 150mm x 150mm Max: ∞
Frame	Optional

your benefits

We enable smart and flexible material flow in factories and warehouses allowing end-users to increase efficiency, reduce costs and create new value

High scalability

Machines built with LEGO principle that scale with the customer as they grow

Easy customization

Fast layout and funcionality change for quick reaction to market uncertainties

Simplicity

Fool-proof hardware and intuitive operation against shortage of skilled labour

Low mantainance and operation costs

Straighforward DIY maintenance and spare part reduction to one single item

Fast delivery

Cellular concept for ultra fast machine planing, delivery and ramp up

Extremely low footprint

Up to 95% floor-space saving compared to conventional technologies

Future-proof

Reusable and upgradable hardware for high investment security

Enabling technology

Radically new material flow concepts for novel value-added processes

our company



Development finished (2018)



EU patent granted (2016) 13 countries

Years of development: 6

Founded: 2017 (operational since 2018)

Employees: 14





1st prize DHL Innovation Award (2016)



DHL Global Innovation Partner (2016)



1st prize BVL Kongress – Startup Pitch (2018)



1st prize HANGAR – CargoFacts Pitch (2019)



1st prize MO1N Startup Camp (2019)











Videos: https://www.youtube.com/channel/UCLiOJJI41JuE1XMnUKP2geA