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BALYO: A smart and global robotic solution, easy to integrate



Two strategic alliances for a global reach







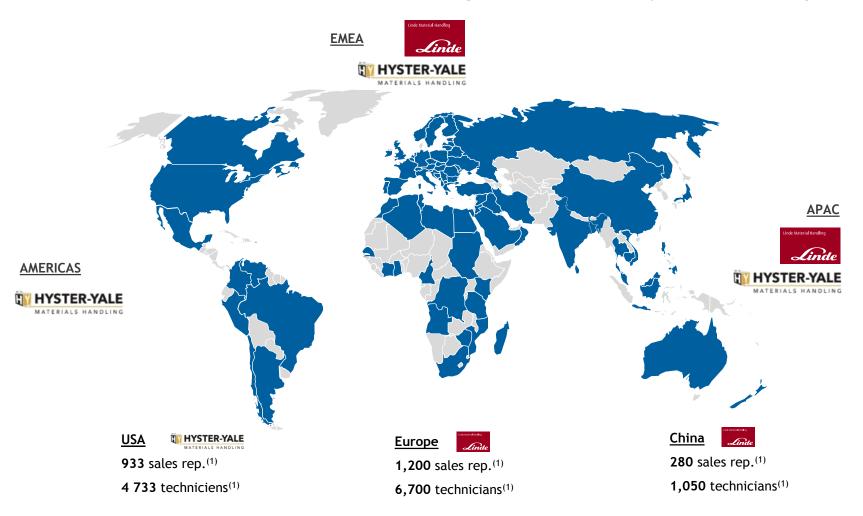
No.2 worldwide No.1 in Europe No.3 in Asia More than 33,000 employees €8.0 billion revenue in 2018



No.5 worldwide No.2 in the United States More than 6,500 employees €3.2 billion revenue in 2018

Global Partnership

70% of worldwide market addressable through Linde MH and Hyster-Yale Group



(1) Note: Linde MH and Hyster-Yale Group © BALYO | March 2019

Win/Win partnership





- Response to customer demand
- Development of turnkey robotics solutions
- ▲ Access to a new growth driver
- Networks quick adoption
- ▲ Steady 1st level maintenance





sharing



- Access to global sales and maintenance networks
- Access to material handling expertise and a range of standard products
- Ease to international deployment with limited investments
- ▲ Long-term global agreements with our partners

Major commercial agreement with Amazon



- Potential entry of AMAZON in BALYO's capital up to 29%
- ▲ Depending on the level of orders by AMAZON up to EUR 300m
- Strong expectations from Amazon towards' BALYO's technology

A 7 years commercial agreement

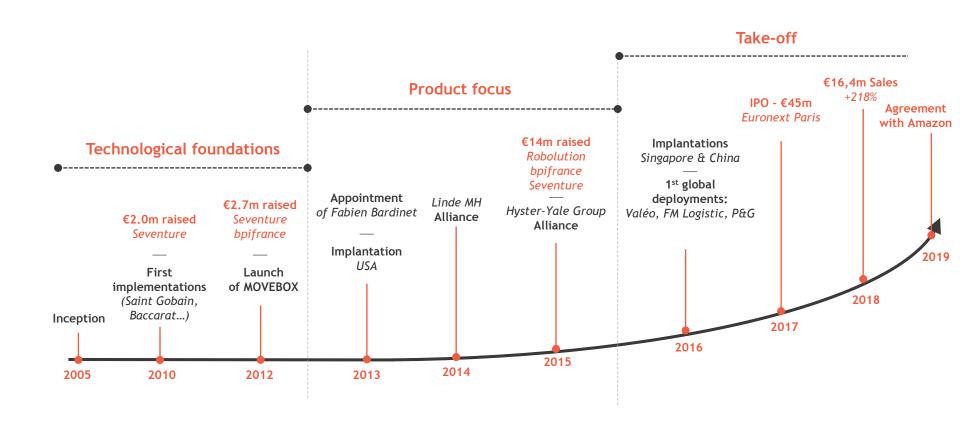


- ▲ Confirmation of the added value of BALYO's robotic solutions
- A decisive step in BALYO's development to boost the deployment of its solutions
- ▲ A unique agreement that provides strong visibility



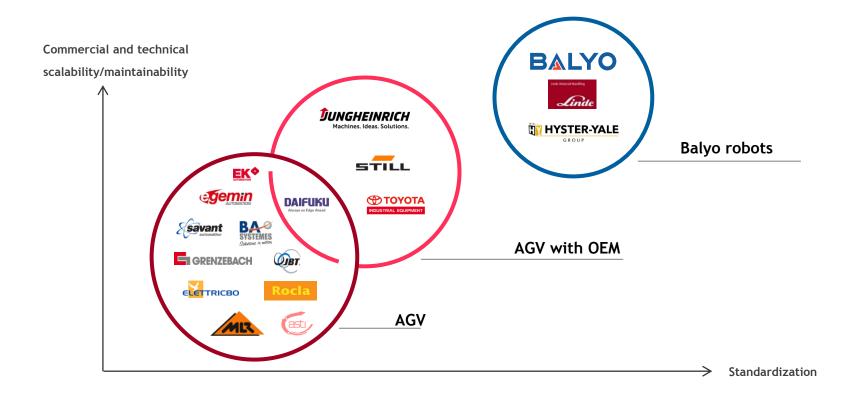
Agreement supported by BALYO's industrial partners and major shareholders

A pioneer taking off

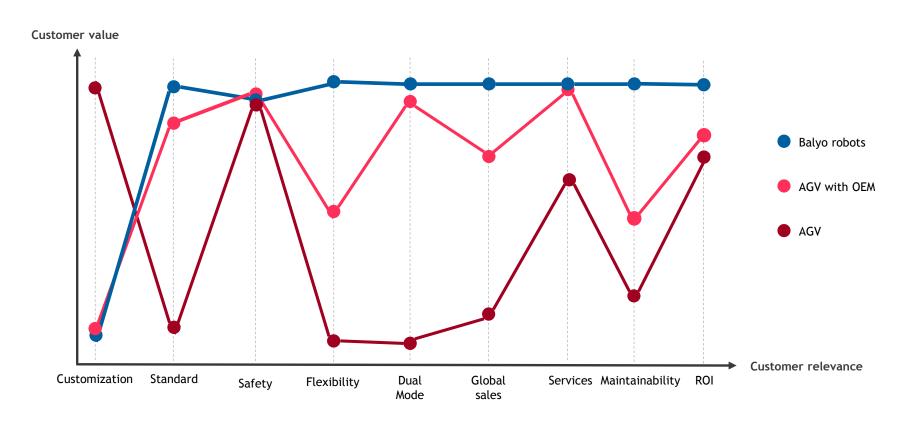




Competition: compelling advantages



Positioning: compelling advantages





BALYO's autonomous vehicle

Navigation & traffic management

- ▲ SLAM
- ▲ Geo-navigation
- Logistic process optimization
- ▲ Flexible
- ▲ Evolutive

Robot integration

- Calculator integration in standard trucks
- Application-specific equipment
- Standard interface between Balyo technology and standard truck
- Dual mode: manual use and auto

Customers' system integration

- ▲ Connection to ERP/WMS
- Interface with customer environment Cobotique
- Cobotics
- ▲ Safety assessment
- ▲ Customer training

30,000

man-days invested in R&D

25% revenues allocated to R&D in 2018



BALYO has eliminated technological constraints in terms of mobility, maintainability and scalability

Serving global clients

More than 30 clients on 3 continents including:

























3 major references



\$80 billion revenue

110,000 employees

300 locations

150 manufacturing sites

150 distribution centers

8,500 material handling vehicles fleet



\$1.1 billion revenue

20 000 employees

3,300,000 m² of warehouse worldwide

4,200 material handling vehicles fleet

33% of warehouse area operated in France

28 distribution centers in France



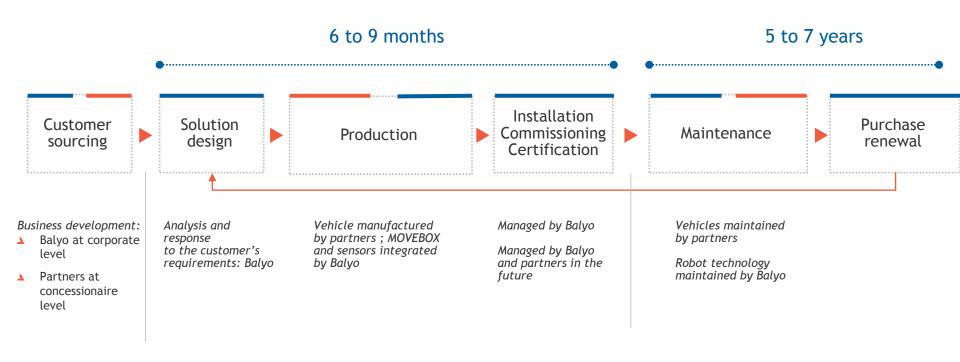
\$51 billion revenue

120,000 employees

38 industrial sites

15

An integrated business model

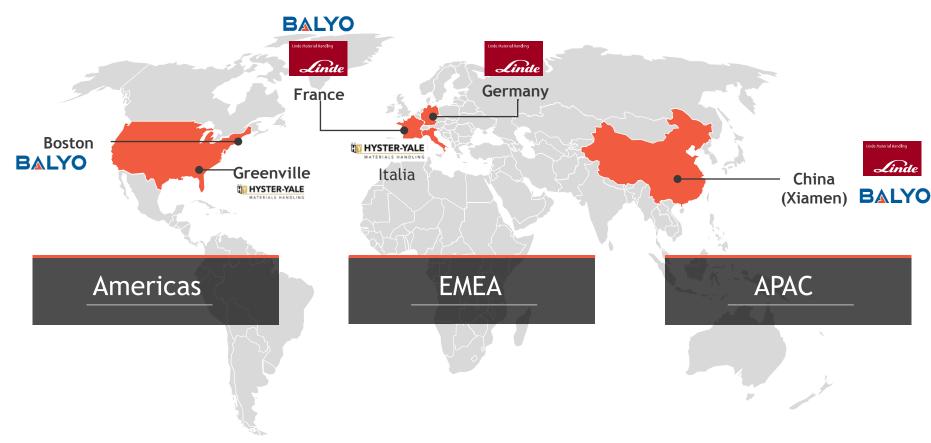








An established industrial organization



Current production capacity of 1,000 robots/year

Potential production capacity: several thousand robots/year, using our partners' production capacity

A model driven by a structured team



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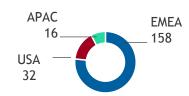


Alec LAFOURCADE-JUMEMBO CMO DxO Aldebaran Robotics



206 employees in 5 countries⁽¹⁾

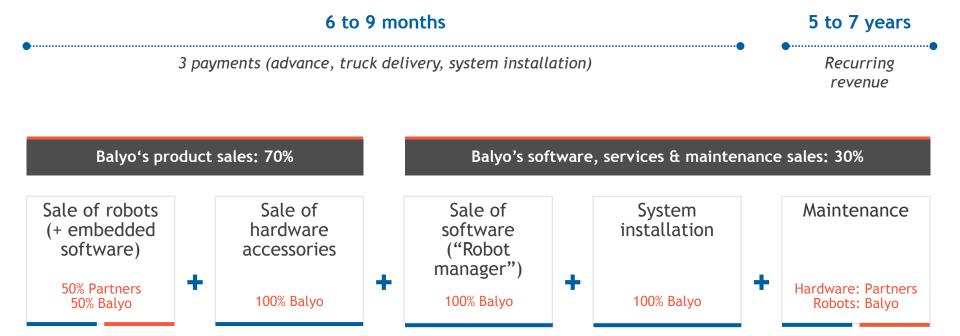
Workforce breakdown by Region (% of total workforce as of 31.12.18)



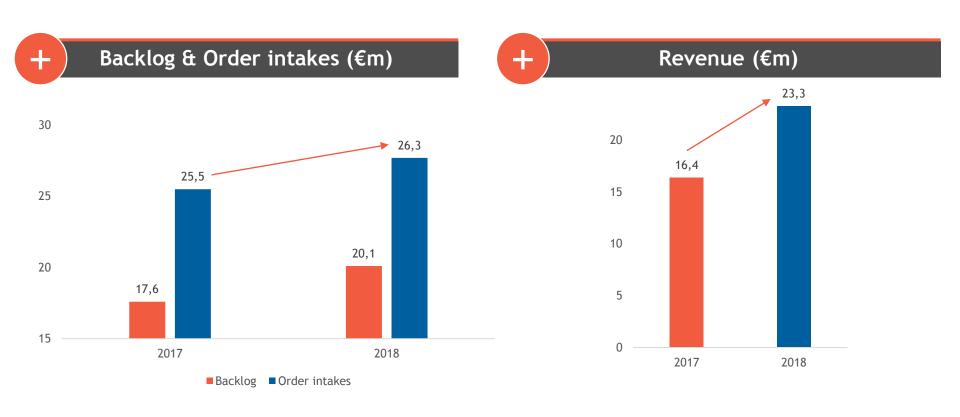
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Multiple sources of revenue



Further sustained growth in 2018





42% increase in sales revenue for 2018: €23.3 million

2018 full-year results

IFRS (€k)	31/12/17	31/12/18
Revenue	16,409	23,261
COGS	-10,973	-16,977
Gross margin	5,436	6,285
Margin (%)	33.1%	27.0%
R&D	-5,567	-5,741
Sales & Marketing	-4,049	-4,638
G&A	-4,828	-6,796
Share-based payment	-1,094	-1,246
Operating profit	-10,102	-12,137
Financial result	- 525	244
Net result	-10,627	-11,893

1

Revenue in 2018: +42% increase compared to 2017, illustrating the dynamic commercial trend

- The decline in gross margin is due to:
 - Difficulties encountered in deploying solutions on site
 - Installation times were higher than expected Increase in gross margin has been observed in H2 2018
- Increase in R&D, Sales & Marketing and G&A expenses are due to:
 - The launching of new structuring projects
 - New recruitments
 - New Head office in Ivry

4

IFRS Accounting treatment of Amazon Warrants:

- Considered as a selling price discount
- IFRS2 expenses recorded in parallel with revenue recognition
- Expenses recorded on a quarterly basis

Cash Flow analysis as of December 31, 2018

IFRS (€k)	31/12/17	31/12/18
Cash used for operating activities	(12,073)	(14,483)
Cash used for investing activities	(2,405)	(1,141)
Cash provided for financing activities	41,575	(143)
Change in cash	27,046	(15,752)
Cash & cash equivalents	30,680	14,928

Cash used for operating activities increased:

- Increase of net losses (10 003 k€)
- Increase of Working capital need (4,462k€)

Capex mainly related to the production of prototypes/softwares and new Head Office in Ivry sur Seine

Balance sheet as of December 31, 2018

IFRS (€k)	31/12/2017	31/12/18
Non-current assets	3,737	4,050
Inventories	2,822	3,181
Trade accounts receivables	13,029	19,279
Other receivables	3,700	4,507
Cash & cash equivalents	30,680	14,963
Total assets	53,969	45,980
Shareholders' equity	32,626	22,165
Financial debt (long term)	1,414	784
Non-current liabilities	1,560	1,025
Trade notes and accounts payables	9,231	10,942
Tax and employee-related payables	2,039	2,391
Other current liabilities	7,457	8,256
Total liabilities	53,969	45,980

Financial debt (€k)	31/12/17	31/12/18
Bank loans		35
Bonds		
Grants and repayable advances	2,471	1,951
Total gross debt	2,471	1,986
Total net debt	- 28,209	- 12,978



1 - Maintain technological leadership



Intelligence

- + Innovation
 - ▲ FLYBOX
 - ▲ Obstacle avoidance
 - ▲ Outdoor navigation
 - ▲ Superbrain
- + Improvement
 - ▲ Autonomous Path finding
 - ▲ 3D Pallet detection
 - ▲ Load counting
 - ▲ Opportunity charging
 - Circuit modification feature
 - ▲ 360° Safety
 - ▲ Transport double-pallet
 - ▲ Fail over
 - ▲ Station & flows management

+ Technological independence

- New calculator
- Omni Safety
- ▲ Virtual I/O
- ▲ LTO battery

+ Big Data

- Customer reporting
- Statistics
- ▲ Feedback log

(+)

Simplification

- + R&D
 - △ OS 4.0

+ Operations

- Missions editor
- Pref editor
- ▲ Circuit editor
- Rack editor
- ▲ MAPBOX

+ Marketing

▲ Customer Journey Automation (e-learning, e-budget)

+ Service

- ▲ E-Ticketing
- ▲ Hotline 24/7

2- Business expansion



Our sales targets

Tier 1, in 4 sectors and 3 geographic areas



▲ Signed and/or delivered projects

Confirmation of the profitability target and sales objectives

2022



Revenue > €200m

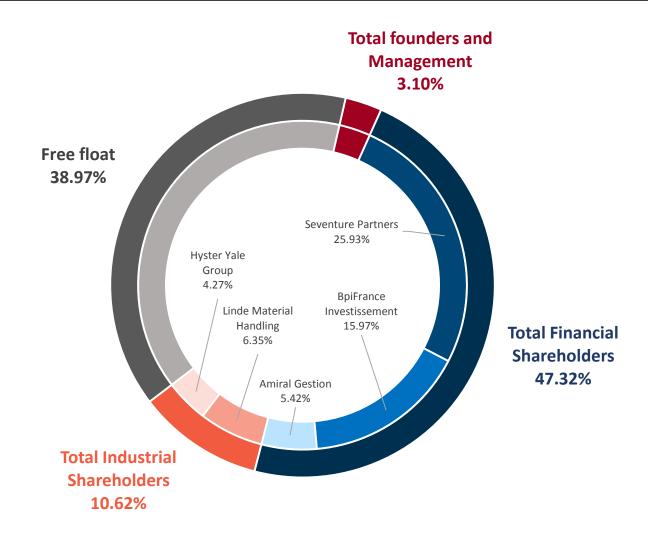
Long term



Long term
Operating profit
~20%

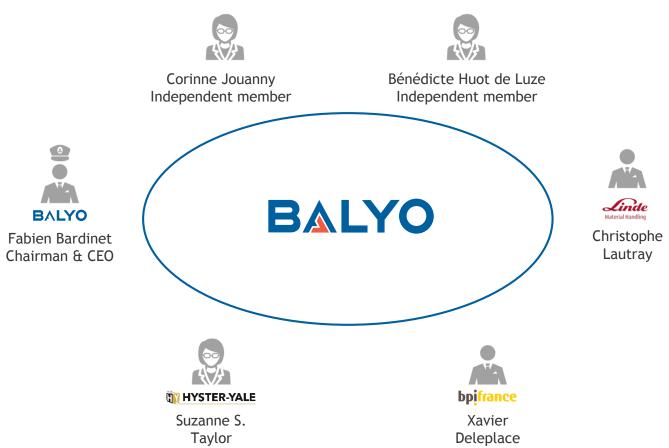


Shareholding structure 31/12/2018 (excluding dilution)



Board of directors

A board that reflects the shareholding structure and complies with Middlenext Corporate Governance Code



Material handling, a major challenge for industry



More than 5 million

Material handling vehicles deployed around the world

€33 billion

Annual global expenditures on material handling

More than 80%

Of handling vehicles operating costs related to driver costs

€200 billion

Annual global expenditures on pallet handling

\$380 million

Estimated annual expenditures on material handling of a major client

Company estimates

32

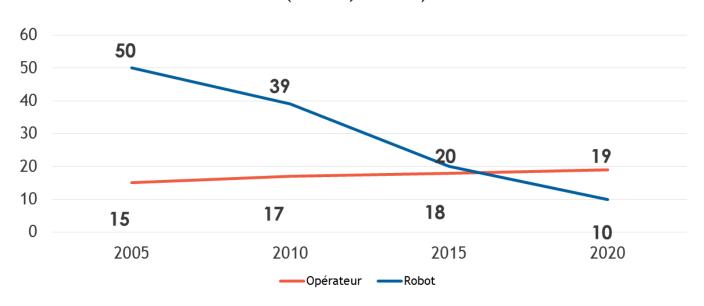
Our response





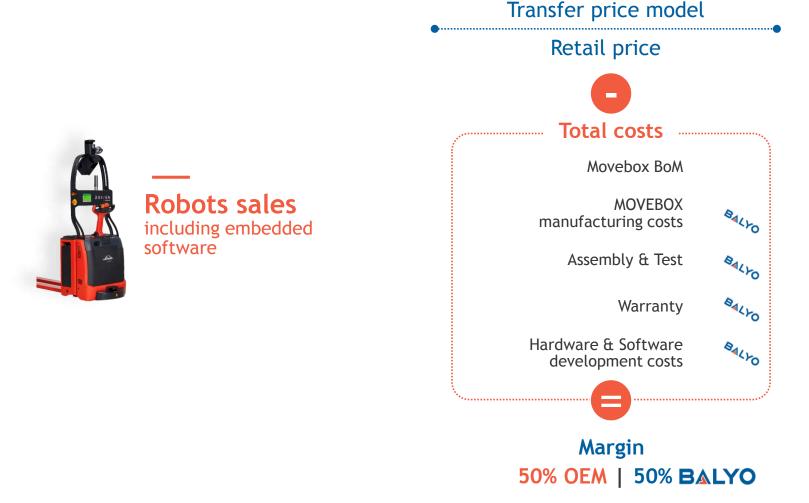
Robotization: a tangible economic impact for the industry

Per-hour cost: robot vs. human operator (€/hour, France)



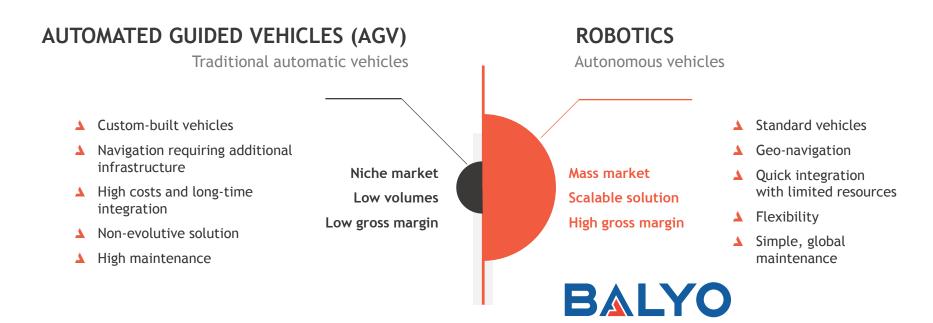
Source: IFR, INSEE, Eurostat - Roland Berger Of Robots and Men-in logistics Towards a confident vision of logistics in 2025

Balanced margin sharing mechanism



BALYO: a disruptive solution

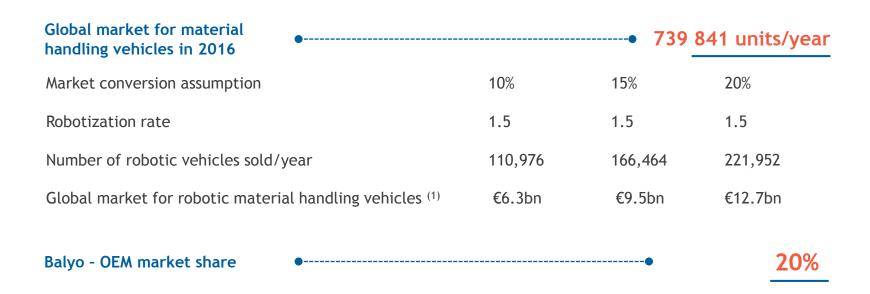
Two coexisting approaches



Market potential

Autonomous driving is the future! The combination of technology innovation, competitive forces, benefits and regulations are fueling this transformation."

Roland Berger study - Autonomous driving November 2014



3 growth factors



3– Acquisitions

