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# 5.0 ROBOTICS

SMART PRODUCTION ROBOTS FOR ALL



**Carlo Lustrissimi**

CEO/ Founder

*“We build robotics solutions to **change** the way businesses operate, globally!”*



Industrial-grade production robots anyone can use that can make anything a CNC machine can do at a price everyone can afford.

An engineering team with decades of combined mechatronic experience who squeezed the performance, quality, and reliability of large industrial machines into the small format that's usually DIY, giving compactness and amazing flexibility.

And our proprietary technology (Smartbox) makes our robots smart enough that you don't have to be a professional machinist to operate our machines.



# Who Are We?

## 5.0 ROBOTICS

We are a team of visionary successful entrepreneurs working together to build the most innovative business project for sustainable digital manufacturing.



Proprietary Hardware

**5.0 ROBOTICS machinery is the best industrial grade CNC solution in its category.  
Compact and low energy driven.**



Proprietary Software

Developed in house with the support of Taltech and Siemens Automation, our innovative SMARTBOX is the most advanced IIoT (industrial internet of things) platform ever developed for this class of machines.



Innovative Sales Model

We think out of the box and see things differently. We start with the customer experience and work our way back to technology.

Our competence centres are the magical places where the client's idea becomes a business success.



# Advantages of our Technology

- Produce small- or large lots in house (flexibility)
- Reduce set-up times
- Reduce lead time
- Control/improve quality
- Increase ROI



# Our Executive Team

Working on making a better world



**Carlo Lustrissimi**

*CEO*

International consultant in finance and strategy. (Mechanical engineer)



**Taavi Laur**

*CFO and investor relations*

CEO for leading banks and governmental institutions in Baltic region. (MBA)



**Rory Stoney**

*CTO*

A scientist-turned-entrepreneur. (Ph.D. in sensing/mechatronics)



**Barry Grogan**

*Sales*

Left career in big pharma to open robotic distribution business. (Degrees in Mechanical Engineering and Engineering Mathematics)



# Leaders of the new Industrial Revolution

## MISSION

Our mission is to lead the development of Industry 5.0 and bring it to the global communities. We give people back the control over their time and the space of mind to be creative by providing smart technologies that are affordable and easy to use.

With our technological solutions we facilitate the conditions to nurture business and empower inspired entrepreneurs to flourish. We celebrate the unique, the bold thinkers, the innovators and the creative leaders who have the courage to take a step forward and embrace the challenges of an already changed world.

We keep pushing to make human-centric and smart technology an available commodity to everyone in order to empower global communities that are able to create happier, healthier communities for themselves and people around them. This is the key to guarantee the sustainability and the stability of the new economic system.



## Best Economy

We give our contribution to develop the most advanced Economy in the World providing a sustainable and better life for the people

02

01

## Local Communities

We want to accelerate the development of the urban and rural economies with our Digital Manufacturing Platform

03

## Build Human Capital

We attract the best talents around the world to build the 5<sup>th</sup> industrial revolution leading company

# KEY DRIVERS

05

## Better World

Our 5<sup>th</sup> industrial revolution solutions are designed to make a better world rather than just a more efficient and productive one

04

## Excellence

We bring or digital, technical and scientific excellence to be the global leader in Disruptive Digital Manufacturing Solution





# Timeline of Achievements

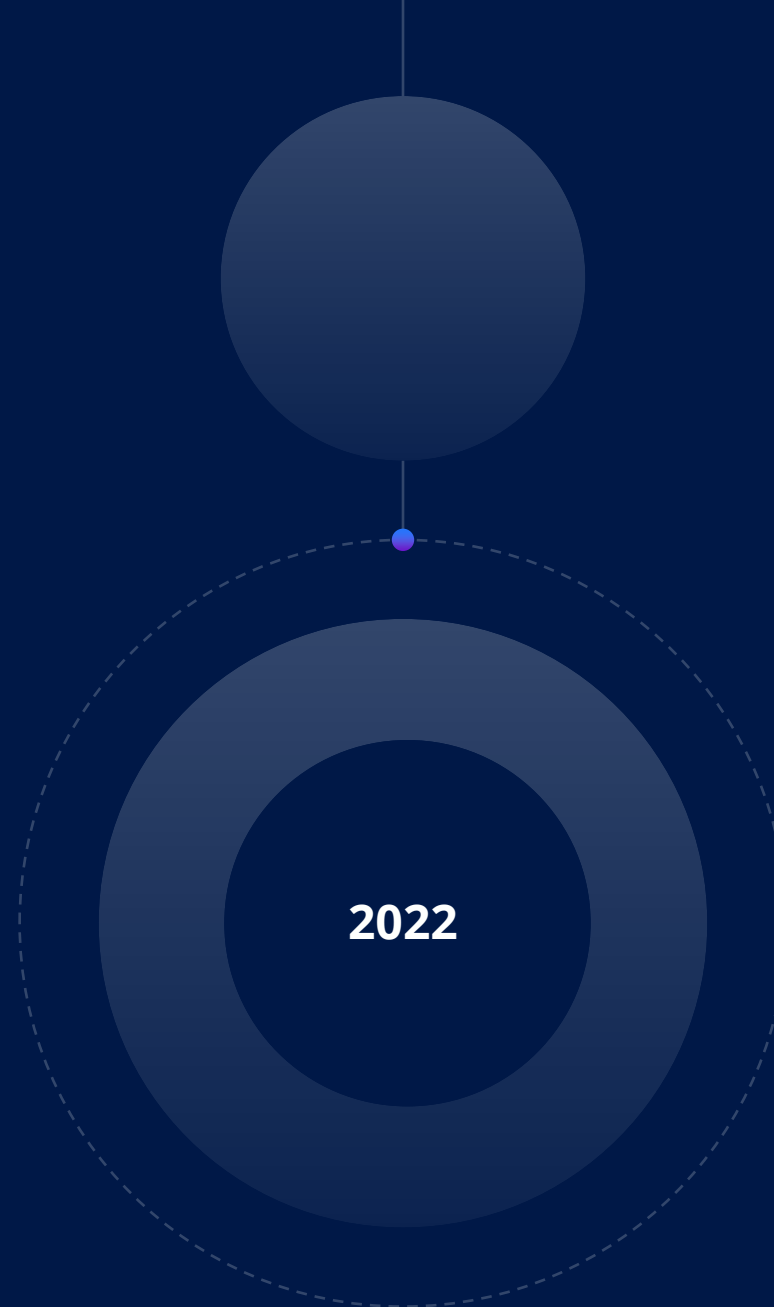
2020

- Company establishment
- 1st workshop setup in Estonia, Tallinn
- 2 product lines
  - Exec series Model 8
  - Exec series Model 16
- ERP implementation & CRM



2021

- Website going live
- Social media presence in LinkedIn, Youtube, Instagram, TikTok
- ERP implementation:
  - procurement
  - stock management
- New workshop setup (600 sqm) in one of the biggest malls in Tallinn.
- 2 distributors in UK/Ireland and Australia
- 1 new product line
  - Symbiosis
- First investment round
- Design patent of our ROBOTS in UK, USA, EU and AUSTRALIA
- First international container shipped out
- 1st R&D project with Taltech and Siemens automation (SMARTBOX)
- Breakeven reached
- Team of five



- 1 new product:
  - Executive series Model 32
- New Workshop setup (900sqm)
- ERP implementation:
  - Production
  - quality control
- Team of 12 people
  
- New website (May)
- New distributors
  - US/New York, Sweden
- First International Exhibition in Sydney (June)
- Second International Exhibition in US (August)
- Negotiation for new distributors
  - Emirates
  - US (West coast)
  - Norway
  - Turkey
  - Italy
  - Greece
- Forecasted growth (+100%)

# Our Industrial Partners



Inission



Stoney CNC



BG Precision



Siemens



TALTECH  
Tallinn Technical  
University

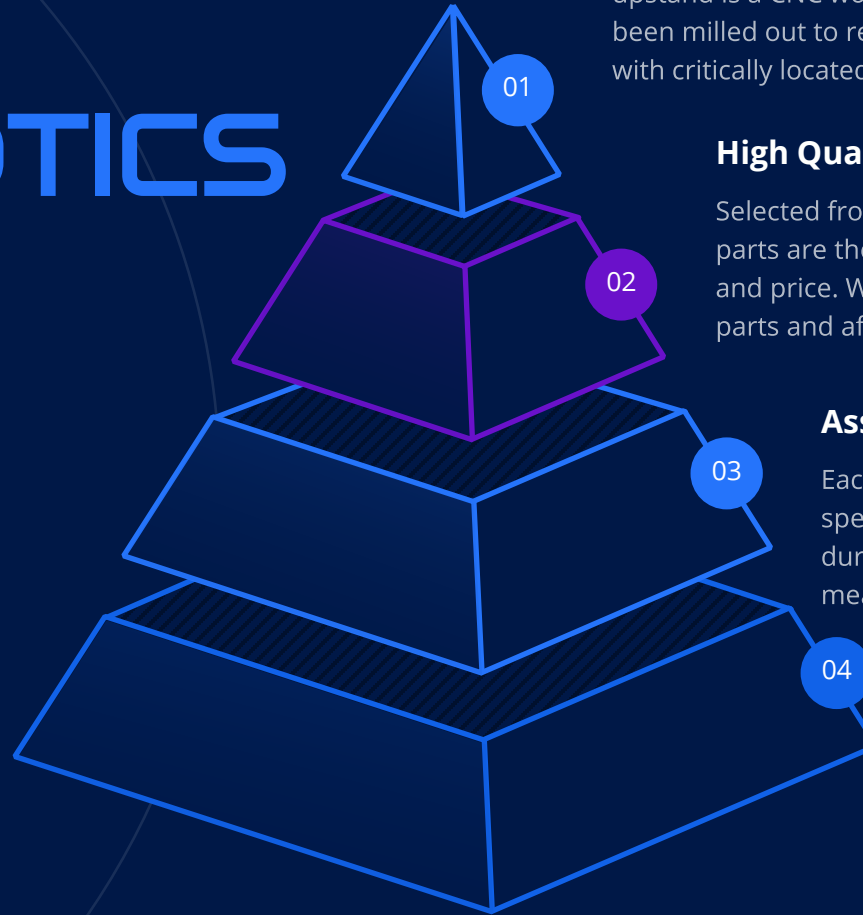


IGUS



# 5.0 ROBOTICS

## Robotics Solutions



### Simple Effective High performance Modular Design Principles

From the FEA (Finite Element Analysis) it is apparent that a strong upstand is the critical component in bringing the entire assembly together and our gantry upstand is a CNC work of art itself. Machined from 60mm billet aluminium its been milled out to reduce weight and inertia on the bridge assembly but left with critically located stiffening ribs internally.

### High Quality STANDARD Components

Selected from the best suppliers in the market, our motion system parts are the best compromise between strength, quality, precision and price. We use ballscrews on all the axis. Easy to procure spare parts and aftermarket service.

### Assembly Process and Precision Squaring

Each unit is assembled in our factory, every bolt has a specific torque value, and the overall tolerances controlled during the whole construction process. Ready machines are measured and squared using Mitutoyo tools.

### Control Software and SMARTBOX

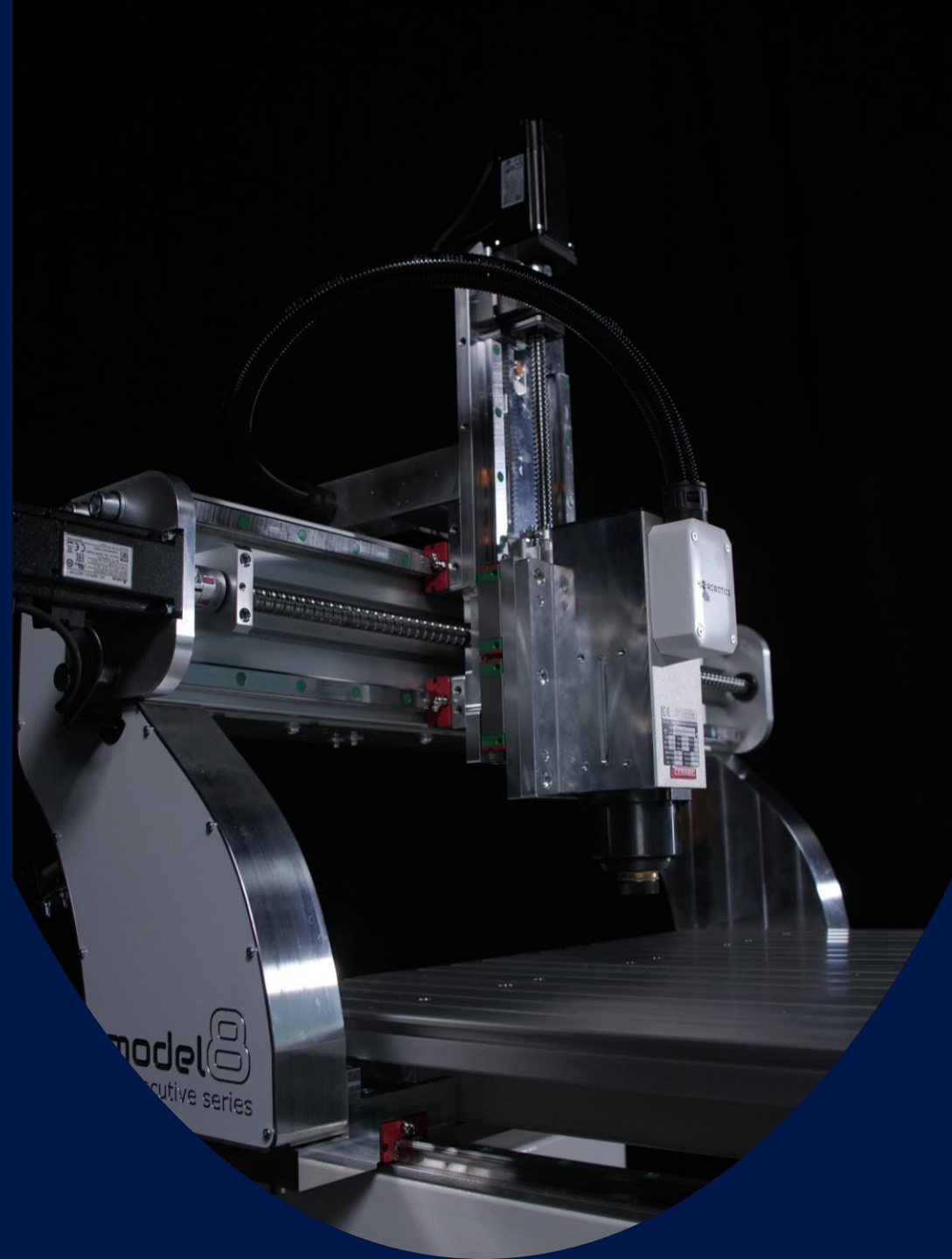
We are a real Mechatronic producer. Our control box is a fantastic example of quality and efficiency. The electromechanics are connected to our SMART box, a state-of-the-art IoT device able to track and store all the machine parameters in real-time.



# Executive Series

The EXECUTIVE is a high-performance CNC router system offered in three sizes. The Model 8 (1220x610), the Model 16 (1220x1220) and the Model 32 (2440x1220).

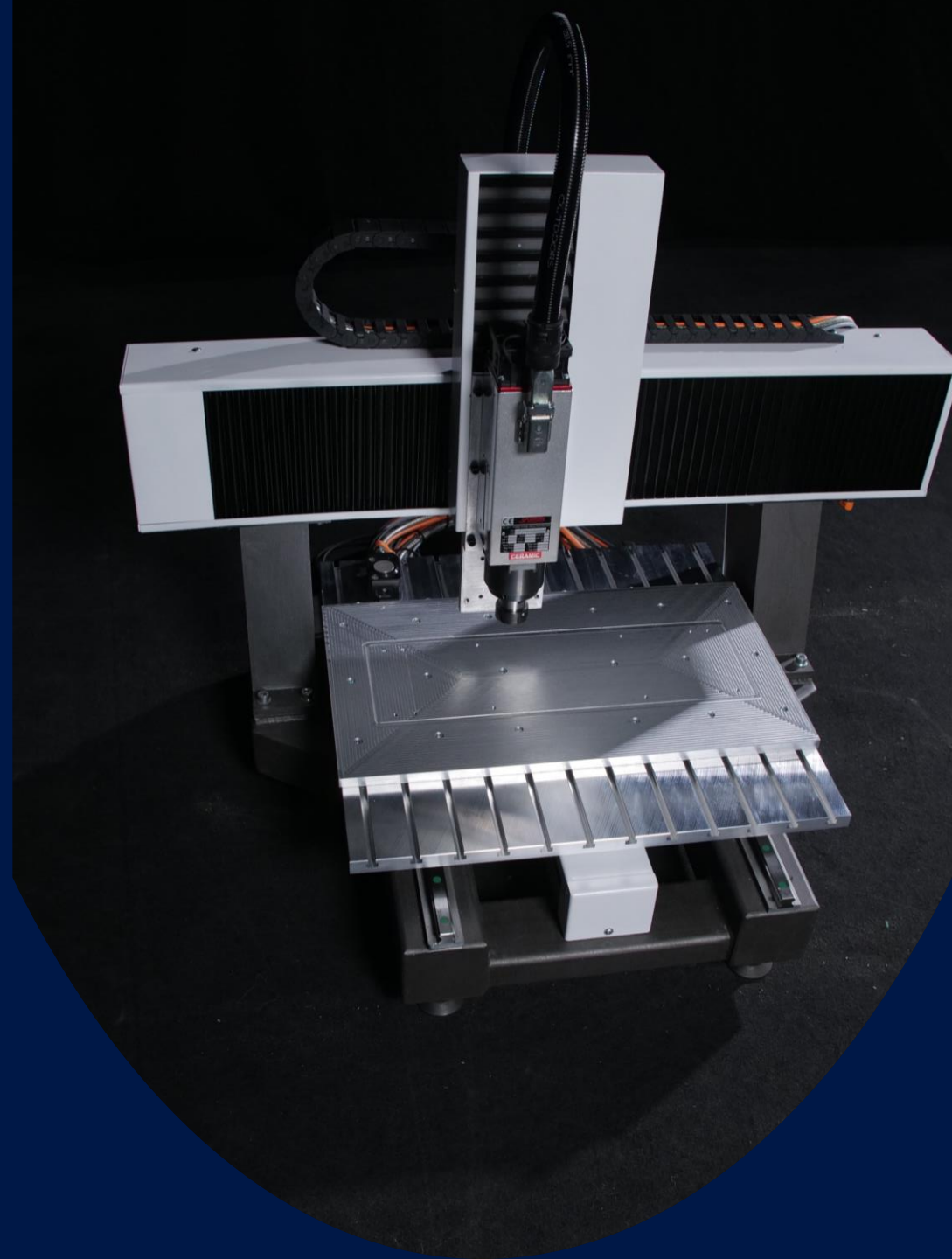
A CNC router is typically a term used to refer to a machine that cuts wood, but The EXECUTIVE routers can also cut aluminium effectively. Very high stiffness and extremely low tolerances make The EXECUTIVE a very different machine from other competitors in this class. The EXECUTIVE uses build processed and part choices typically used in machines 4-5 times the price





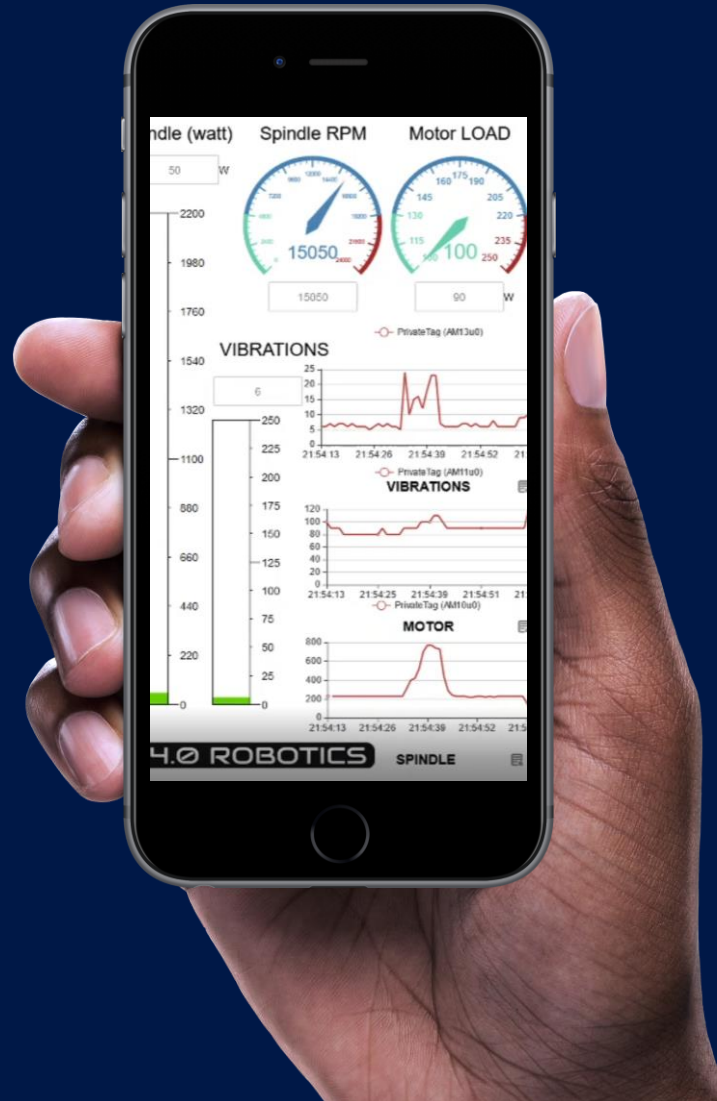
# Symbiosis Series

Symbiosis is a hybrid milling machine, a new product based on feedback from our customers. Symbiosis is bridging the gap between a router and milling machine. This is a machine that can machine both: timber and plastics like the conventional CNC router machines. However, Symbiosis can machine aluminium to a very high level of surface finish and accuracy. The fixed bridge moving table design allows the bridge to be very strong and heavy duty as it does not need to move.



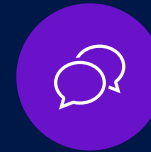


# 5.0 ROBOTICS SMARTBOX



## Real Time Health Monitor

A powerful tool to understand if the machine is working under or over stress and adjust the cutting program accordingly.



## Collaborative

We connect all of our users, allow them to share their data, to collaborate, to sell and buy services. A real Manufacturing Social Network.



## Predictive Maintenance

Maintenance cycles are adjusted depending the real usage of the machine.





# Our Place in the Market

Our machines offer rigidity, component quality, smartness, mechatronic design. Compare us to other segments:

## Versus industrial

We're several times cheaper than industrial machines. We're also smaller, more versatile, consume less power, and portable.

## Versus DIY

We offer reliability, rigidity, quality, and efficiency not typical of DIY machines.

## Versus 3D printers

We offer integrity of materials, speed, and flexibility that 3D printers can't.

**And our machines are smarter than all of the above.**



# As green as **manufacturing** can get

- Powered by 220V (home) socket
- Quiet enough to allow a conversation next to the machine
- Uses less energy than a hair dryer
- All aluminium cuttings/dust recovered, recycled
- Cuts dry: no lubricant required
- No installation required
- No pneumatics used
- Completely portable: fits in a small van



# Our Innovative Community Platform

We will connect all the up-and-coming people around the world to build the most innovative business cooperating platform. Imagine a young guy in Tokyo operating one of our machine on a cruise ship sailing the Caribbean sea.





# The Power of Sharing

We address our products to up and coming business leaders. The possibility to use per-to-peer marketplaces is a new paradigm in the industry. We believe this is the future, and we design products to support this exciting revolution.



Save time and order metal fabrication in seconds



Custom manufacturing on demand



FACTUREE brings the speed of the digital world to CNC manufacturing



# Our Top Clients

Our robotics solutions are already in place in leading industrial players.

01

## F1 TEAM

Uses multiple Symbiosis machines to work around the clock producing hundreds of parts per week per machine.

02

## Subcontractor for major automotive OEM

Our machine used to grind side mirrors of key products to within 20 microns accuracy (micron = one millionth of a meter).

03

## One of the world's largest e-commerce companies

A confidential project in this company's logistics division.



# Production Allocation Map 2023



North America



Europe



Middle East



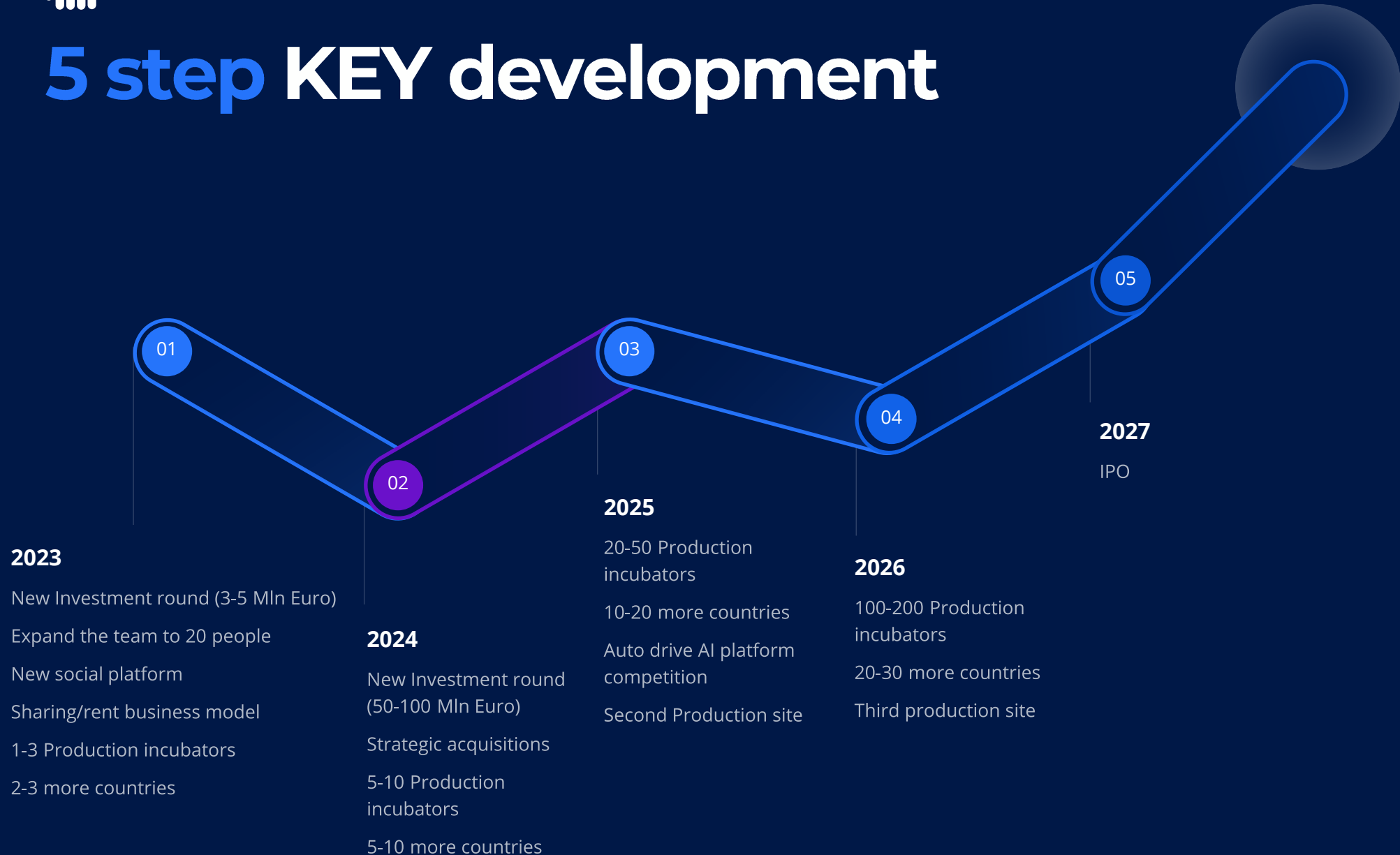
Australia

## Two new markets

We look at the Middle East and North America as two major markets. We are investing to establish an early presence to be able to grow and consolidate quickly over the next three years.



# 5 step KEY development





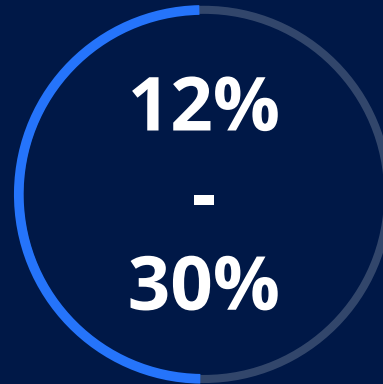
# 5.0 ROBOTICS 5 yrs Drivers

A unique model of fast growth and sustainable risk management



## Yearly growth

Our model is fully scalable, our market is EVERY small and mid company around the world.



## EBITDA Margin

Positive EBITDA even with a skyrocket growth curve.



## SME companies

A realistic world estimate, most of them can not access digital manufacturing technologies (YET).





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**THANK YOU  
FOR YOUR  
ATTENTION**

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