

### FROM FASHION TO FACTORY

A New Technological Age

# THE REVOLUTION IS NOW

Pedro V Carvalho – AMF Lda



# Stories Beginning

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## THE BEGINNING | Year: 1999

#### CONTEXT CHALLENGES

- Small home market
- COI difficulties to establish a brand
- Tendency to remain as a sub-contractor
- Scale
- Niche Market: **Technical and Safety Footwear**



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#### **CONTEXT CHALLENGES** PROTECTION AND SAFETY

#### **MAIN POINTS**

- Protection against the perforation of the sole
- Protection against impact on the toes
- Sood levels of anti-slippery in different surfaces



**NORMATIVE** EN ISO 20345:2011 e EN ISO 20347:2012 according with directive 89/686 and new regulation 2016/425

Each model has to be tested and certified as a PPE.

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THE BEGINNING | Year: 1999

#### **UNTYPICAL SOLUTIONS**

- **DESIGN DIFFERENTIATION** a 'fashion' approach
- FRODUCT INNOVATION & DEVELOPMENT from idea to prototype to industrialization
- CEMENTED PRODUCTION versatile, less investment, a 'niche' within the 'niche'
- S ORGANIZATION
  high flexibility and technical know-how



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#### INVENTIVE, INNOVATIVE PRODUCT LINE and THE NEW BRAND





2005

**SPORT Collection** 

2009

SKATE Collection

2013

REBRANDING & WORKING CLASS HERO Collection



2014

SAFETY RUNNERS
Collection



2015

1st Safety
Footwear Company
to partner with
MICHELIN Soles



2017

INFINITY Collection
Disruptive Technology to
manufacture footwear
without stitching

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Our DNA keeps us looking for new solutions in a everchanging context

A NEW FACTORY FOR THE 21st CENTURY

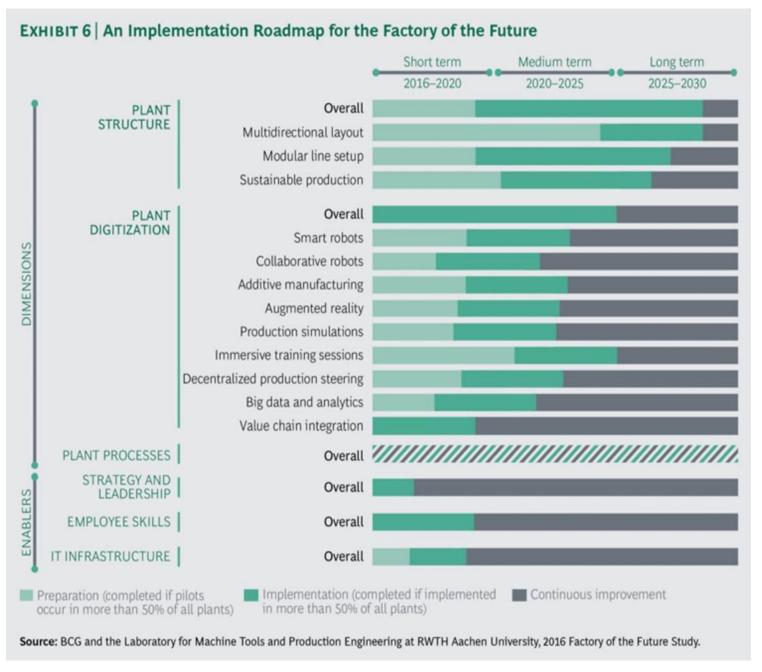
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#### A NEW FACTORY FOR THE 21st CENTURY

- **PLANT STRUCTURE** 
  - Multidirectional layout
  - Modular line setup;
  - Sustainable production
- Migh level of automatization and 'inteligent' automation.
- Data and analytics driven as a driving force for improvement and devolpment.
- S Customer and customization focused.
- IT infrastructure that allows interfaces at all levels, eliminating barriers and improving the information level at the disposal of customers.
- Qualified HR that thrive in a context of change, technology and permanent learning processes.
- Implementation in 2019 with an estimated investment of €10M





**SOURCE** 'The factory of the Future', DECEMBER 6, 2016 By <u>Daniel Küpper</u>, Kristian Kuhlmann, Sebastian Köcher, <u>Thomas Dauner</u>, and Peter Burggräf in https://www.bcg.com/publications/2016

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A NEW TECHNOLOGY FOR INJECTION SHOES

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In Partnership with



Creator and Owner of the Patented Technology



AMF has developed a NEW TYPE of Safety Shoes

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#### **ADVANTAGES**

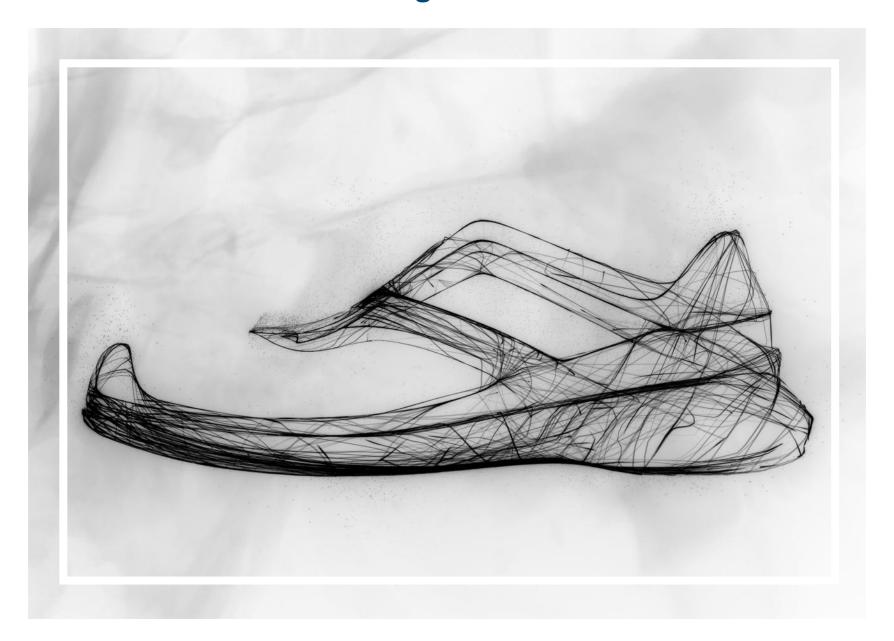
- Soins all pieces into a mould in a few seconds;
- 3D Skeleton more versatile shoe with better adaptability and waterproof resistance using less upper material (-30%).
- **70% of Labour Reduction** reduction on the production cost either;
- Less Energy Costs 12% reduction more sustainable and less carbon footprint.
- Less need for stocks faster logistics;
- S Faster production lower minimum orders and full customization.

A new Universal Manufacturing Method (?)

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#### So we started working on the new INFINITY line



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#### **DEVELOPMENT PROCESS**



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#### Technology in action









