

International Technical Footwear Congress

February 03-05, 2016, Chennai, INDIA

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Offical Event of



Organize



HIGH SPEED SHOE FACTORY

Supported by:



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CTCP, Portuguese Footwear Research Centre

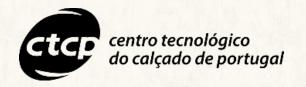




OUTLINE

1 | FOOTWEAR INDUSTRY EVOLUTION

- 2 | HIGH SPEED SHOE FACTORY
- 3 | FUTURE TRENDS



1 | FOOTWEAR INDUSTRY EVOLUTION

PORTUGUESE FOOTWEAR INDUSTRY LAST 5 YEARS (1)

54%
INCREASE IN
EXPORTS
VALUE

FROM 700 TO 1850 MILLION € 2,534

JOBS CREATED

AND KEEPS RISING



22
NEW MARKETS

FROM 130 TO 152 COUNTRIES

SUPPORTED BY INNOVATION ...

ADVANCED,

FUNCTIONAL, SMART

FOOTWEAR

PRODUCTS

COMFORT, ECO,

NANO, ..

MATERIALS &

COMPONENTS

INNOVATIVE,

CUSTOMISED,

SUSTAINABLE

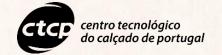
MANUFACTURING

SYSTEMS

SUPPLY

CHAIN &

LOGISTICS



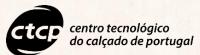
IN THE RECENT PAST

- MANUAL WORK
- LOW SKILLED WORKERS & SALARIES
- LARGE ORDERS
- LIMITED NUMBER OF MODELS
- LIMITED NUMBER OF MATERIALS
- SUBCONTRACTED BY INTERNATIONAL LARGE COMPANIES
- THE INDUSTRY OF THE BLACK, BLUE AND BROWN

PRESENT

- Use of **new technologies**
- TRAINING AND
 CONTRACTING OF
 SPECIALIZED HUMAN
 RESOURCES
- High number of orders
- HIGH VARIETY OF MODELS
- CREATION OF OWN
 COLLECTIONS AND BRANDS
- HIGH QUALITY, ADDED VALUE AND FASHIONABLE PRODUCTS
- New sales channels





1 | FOOTWEAR INDUSTRY EVOLUTION

R&D PROJECTS

SHOE ID

RFID APPLIED TO VALUE CHAIN OF FOOTWEAR PRODUCTION, DISTRIBUTION AND SALES



TOPIC SHOE

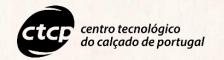
TOTAL DESIGN & COMMERCE SUPPORT TOOLS FOR THE SHOE INDUSTRY



NEWALK **T**ECH

PRODUCTION ROBOTIC
TECHNOLOGIES AND LINES FOR
FOOTWEAR VALORIZATION





"SHOE FACTORY MODEL FOR AGILE RESPONSE IN 24/48 HOURS"

MAIN GOALS:

- Pair-to-Pair production and stocks elimination
- ONLINE SALES, SMALL ORDERS AND REPLACEMENTS
- PRODUCTION OF SAMPLES AND NEW COLLECTIONS
- FLEXIBILITY AND VERSATILITY

E-STORE



E-CUT



E-LOG

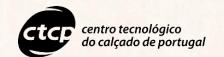


E-MAT



E-LAST



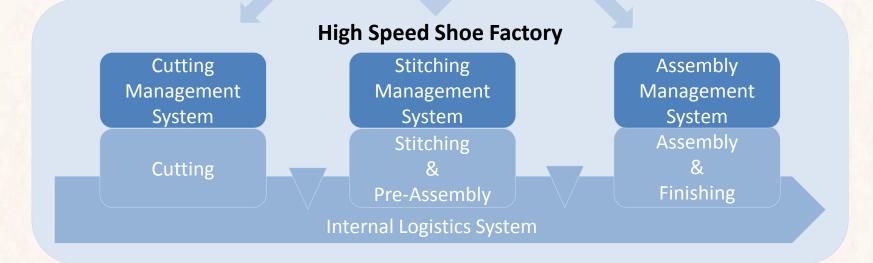


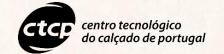
APPROACH

INTEGRATE IN A SINGLE PRODUCTIVE PHASE THE CUTTING, STITCHING,

ASSEMBLY AND FINISHING WITH SUPPORT OF AN INTERNAL LOGISTICS SYSTEM

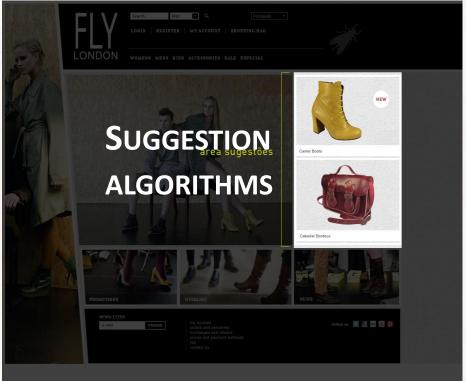
Customer Orders
Production Orders
Materials & Components
Invoices, ...
ERP

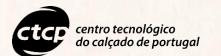




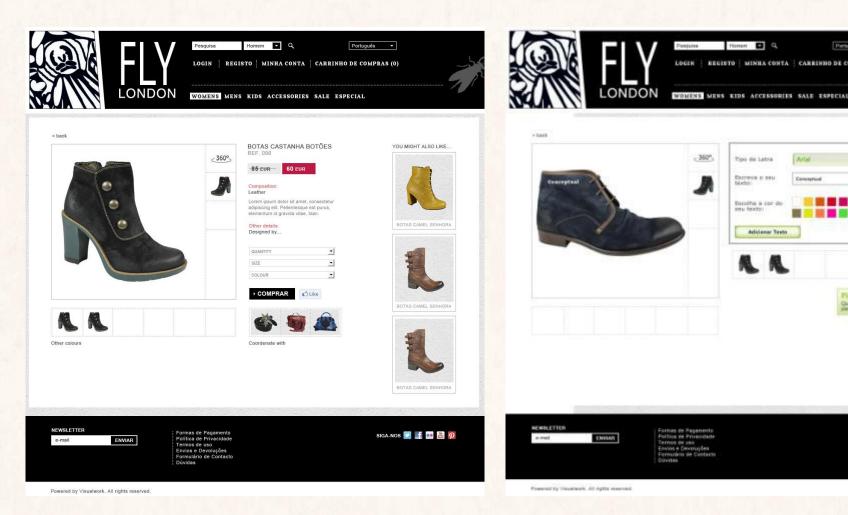
E-STORE





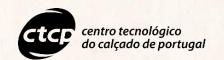


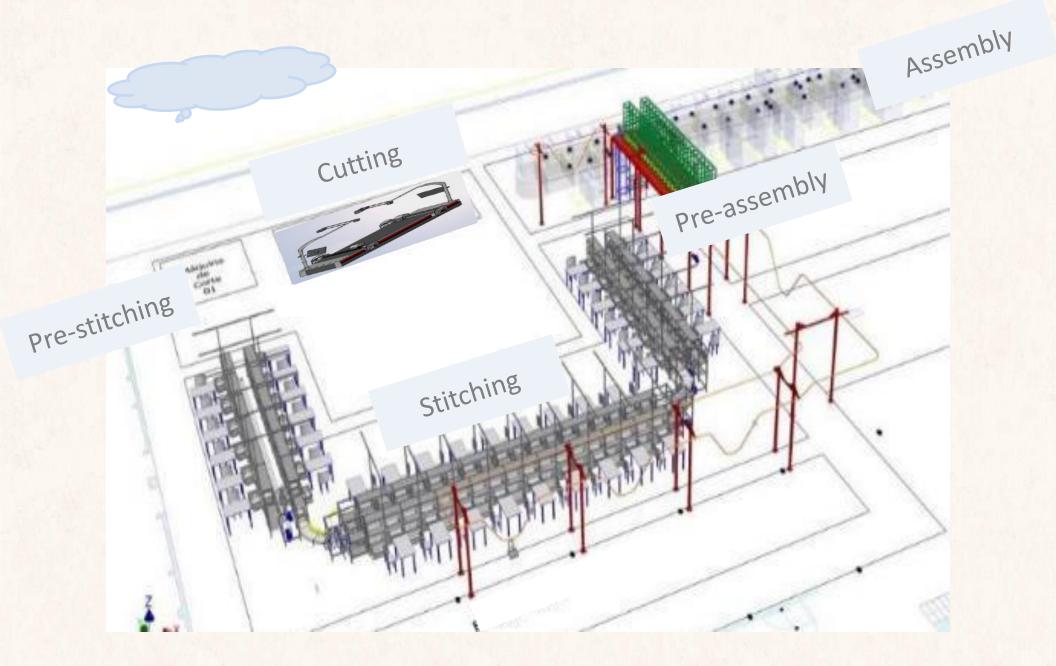
E-STORE

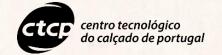


PRODUCTS CATALOGUE & ARTICLES DETAIL

SHOES PERSONALIZATION







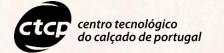
E-CUT



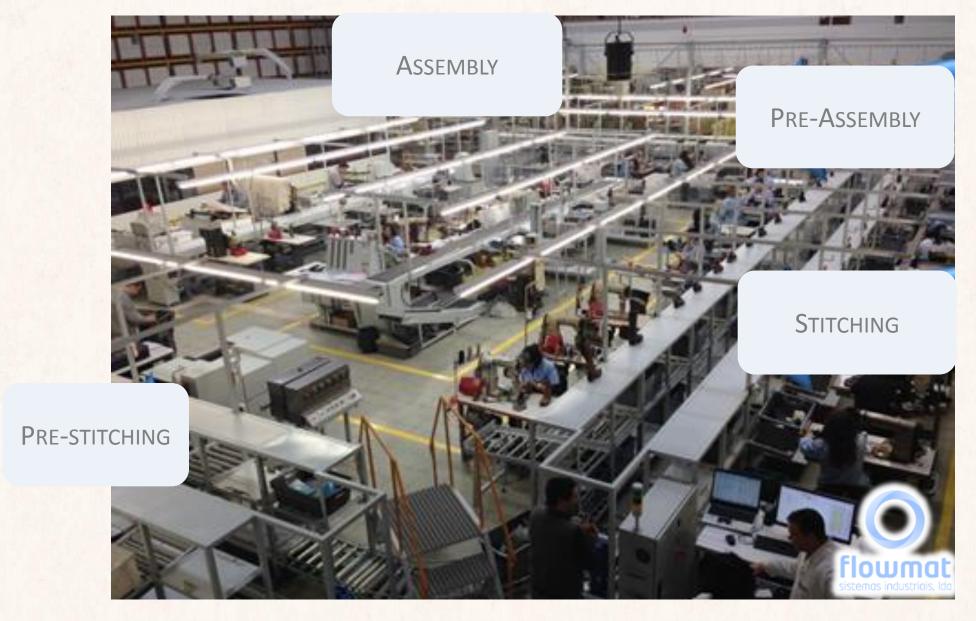


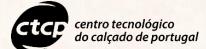






E-LOG





PARTNERSHIP



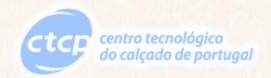












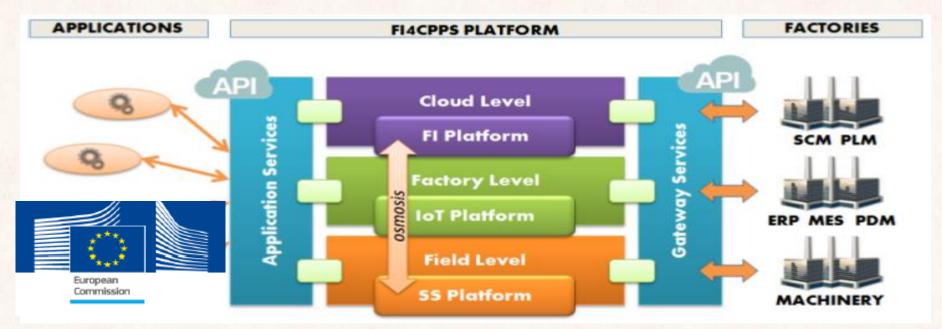


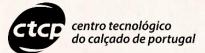
4 | FUTURE TRENDS

DIGITAL FACTORY, INDUSTRY AND LOGISTICS 4.0:

- HORIZONTAL AND VERTICAL SYSTEM INTEGRATION
- INDUSTRIAL INTERNET OF THINGS (IIOT), THE CLOUD, DATA ANALYTICS
- ROBOTICS
- GROWTH OF MOBILE, ANYWHERE, ANYTIME COMPUTING.....

BEINCPPS: HORIZON 2020 EU Innovation Action aiming CPS-oriented Future Internet-based machine-factory-cloud service platform *CPPS-isation* and Experimentation (REF. 680633. http://cordis.europa.eu/project/rcn/198771_en.html)







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THANK YOU NANOFOOT PARTNERS FOR THE EXCELLENT COLLABORATION!

THANK FOR YOUR ATTENTION!

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