6023

Custom-made electronics

The power to control



ed&a



E.D.&A.

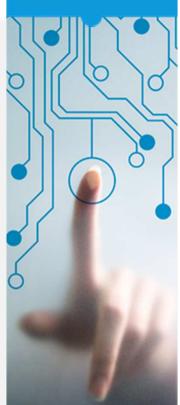
- Why starting in-house manufacturing?
- Status 2015
 - Positive trends
 - Threat

E.D.&A. (Electronics, Development & Assembling)

- The power to
- control

- Founded in 1981
- Located in Kalmthout (B)
- 52 employees
- Turnover: €10 million
- E.D.&A. develops and assembles custom-made electronic controllers for machines and devices.







Markets: electronic controllers for...



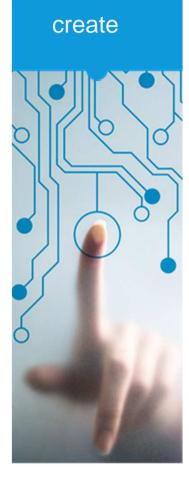
Agriculture



Food industry



HVAC



The

power to



Laundry



Access control

Energy sector

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Why starting in-house manufacturing?

The power to create

And in Belgium?

Labour costs:

Administration:

Taxes:

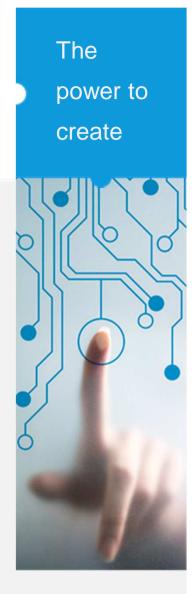






Why starting in-house manufacturing?

- 1. Strategic independent of other companies
 - Some had financial problems (e.g. TBP Geel)
 - Problems with capacity after crisis 2009
- 2. Improvement of quality
- 3. Long lead times (e.g. for prototypes)
- 4. DfM analysis together with partners \rightarrow difficult!
 - Difficult to get open communication
 - Difficult to get resources
- 5. DfT analysis \rightarrow e.g. FPT Test
- 6. Average yearly growth E.D.&A.: 20%

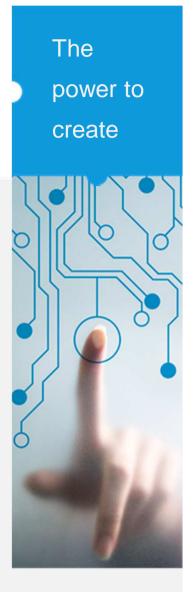




Why starting in-house manufacturing?

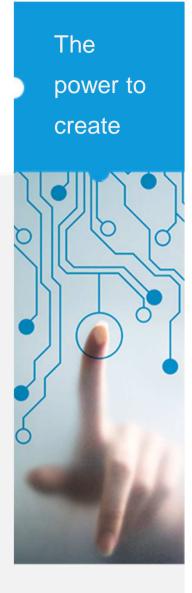
2010: Strategic & Financial Plan
2011: Evaluation → Yes we can !!!
→ Start shopping (Productronica)
2012: Start installation October 8th
2013: January → Starting small production series
2014: Move to a new and bigger site (4.000 m²)







- Synergy between R&D / Manufacturing / Test (DfX inhouse → DfM / DfT / DfA)
 - \rightarrow Much more results as expected!
 - Optimization of footprints
 - Developing products in order to reduce labor (non added value labor became visible).
 - Prevention of possible operator faults.
 - Improvement of production documents based on operator feedback.
 - Manufacturing challenges R&D.





• Strong focus on automation





The power to create

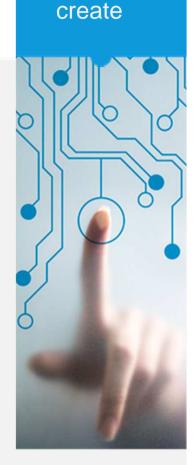




- Quality
 - New and State of the Art machinery
 - Full tracking & tracing on component level
 - Internal quality remarks: reduction 10x!





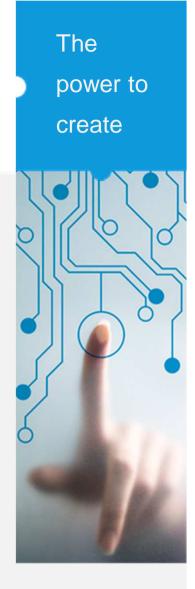


The

power to



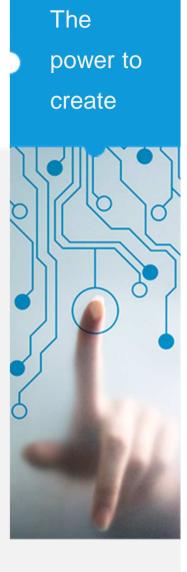
- Higher customer satisfaction
- Lean Manufacturing / QRM
 - Flow
 - Lead times prototypes (and series production) → reduction of 65%
 - Cross functional employees
 - Self managing working teams
 - \rightarrow Less operators as expected in Strategic Plan.





- New activities
 - U cell
 - High volume product







Positive trends

The power to create

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• Automation

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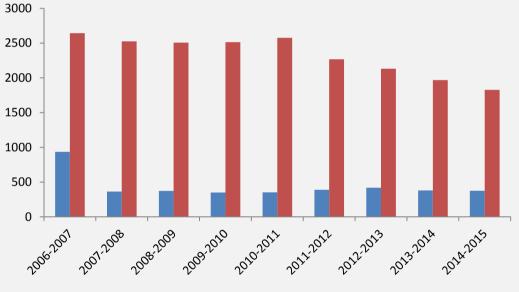
• SmartFactory / FoTF



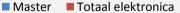
Threat

The power to create





-31% compared to 2006

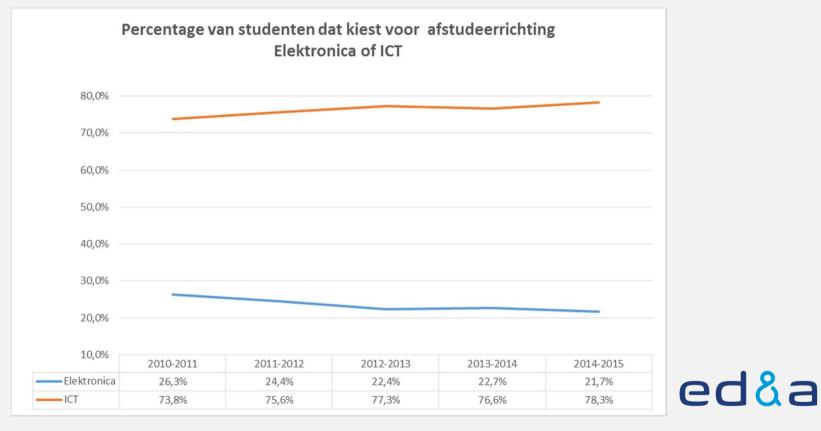




The power to create

• Electronics – ICT: Electronics versus ICT (Thomas More campus)

Threat



Threat

The power to create

- Try to motivate younger people to choose electronics as a study
- Opportunity: female students \rightarrow only 2,5%.
- Communication: there are still electronics companies in Belgium







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Thank you for your attention