Making Irish Computer Smarter and more Sustainable

MicroPro™ Computers

THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

iameco

WHO WE ARE

- Wholly Irish owned SME, established in 1991
- Computer sales and repair centre
- Designers and manufacturers of eco-friendly computers
- Based in Rathfarnham, Dublin employing 16 staff.
- ISO14001 and ISO9001 accredited.

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WHAT WE DO

* Developing eco-friendly computers since 1991.
* Designed and manufactured 4 eco-computers to date.
* Developed comprehensive eco-design approach
* Developing "cradle to cradle" services for repair, upgrading and take back of PC's
* Aiming at global reach

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Our main eco-design principles:

- Use low-carbon materials
- Use reused or recycled materials and components
- Design for ease of access, repair, upgrade and disassembly
- Design for ease of manufacture and reuse
- Offer a longer life (e.g. 10 yrs.)

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MICROPRO XPC (1999)

- Extension of operational life of hardware via upgradable chassis with modular interface design
- Developing the assembly potential of the design to increase recycling and reuse
- Improving energy efficiency of conventional models

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IAMECO V1 (2003)

- Module in recycled aluminium and wood veneer
- Screen, mouse and keyboard in wood
- Upgradable chassis
- Designed for reuse
- Modular internal port design
- Designed to EU Eco-Label standards

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IAMECO V3 (2010)

- 75% reduction in CO2 emission
- 75% reduction in fresh water use
- 98% of materials recyclable (by weight)
- Hazardous and no-recyclable materials eliminated
- Life extension to 10 years (x3)
- Awarded EU Eco-Label in 2010

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4ᵀᴴ MODEL – IAMECO D4R LAPTOP (2014)

- Resource efficiency
- Life extension
- Eco-design
- Carbon positive
- Minimise life-cycle energy
- Up-cycling of by-products
- Zero waste (especially polluting waste)

IAMECO TABLET

Factories of the Future H2020 Proposal (in negotiation)

Design and manufacture prototype for Tablet

Building on eco-design principles from pervious iameco models

       - reparability, either by repair shops and DIY

       - longevity of wear prone components (i.e. battery)

       - reliable and robust

       - facilitating resource and component recovery
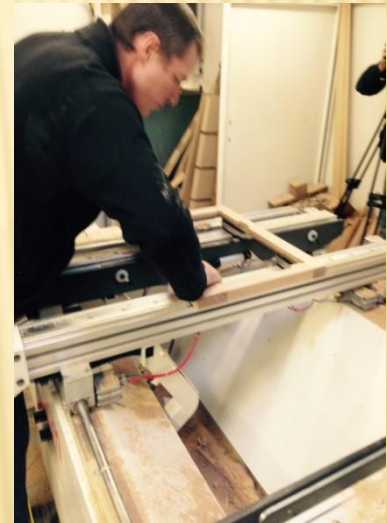
       - financially viable

Applying principles of Digital Fabrication, both in-house by SMEs or out-sourced to EU Fab Labs

Partnership with Fraunhofer Institute, Fairphone, Puzzlephone and iFixit and other industry leaders

DIGITAL FABRICATION
"THE THIRD INDUSTRIAL REVOLUTION?"

✖ Flexible.

✖ Decentralized.

✖ Economic.

✖ Customizable.

✖ Empowers SMEs.

✖ Evolving.

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ENERGY GLOBE AWARD FOR IRELAND 2015