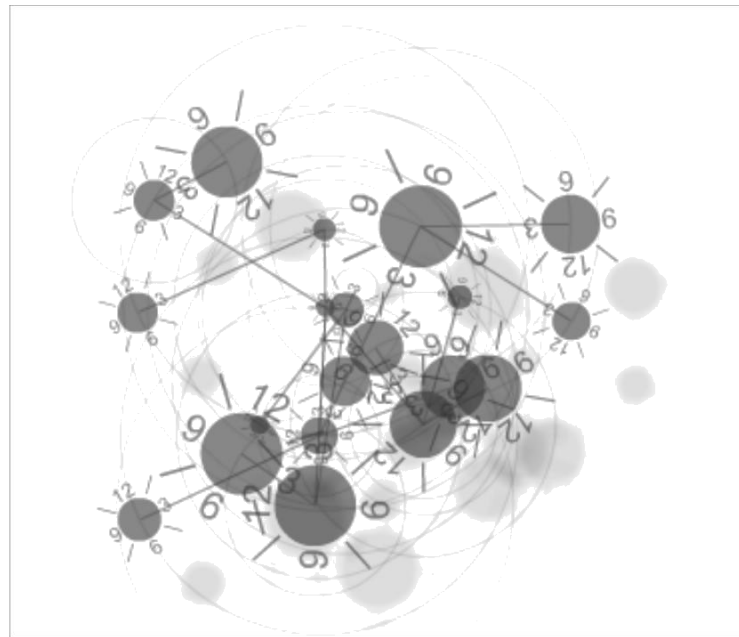




TAILOR MADE
SOFTWARE SOLUTIONS,
DESIGNED FOR
YOUR COMPANY

Industry 4.0 Environmental sustainability solutions.





Since 1994, ITACA SRL has provided products and services aimed at **the optimisation of production processes** through **the technological and methodological innovations** developed by our **experienced** engineers and analysts.

Core Business

Production monitoring and control systems

Our strengths

- **Flexibility** and **versatility** to meet our customers' demands.
- More than twenty years' **Experience** in Automation.
- **Innovation** and adaptation to the latest technology



ECO Shoes

Improving supply chain **traceability**
systems with the integration of **LCA**
analysis and calculation software.



Supply chain integrated LCA approach in
Environmental Impact Assessment
(EIA)

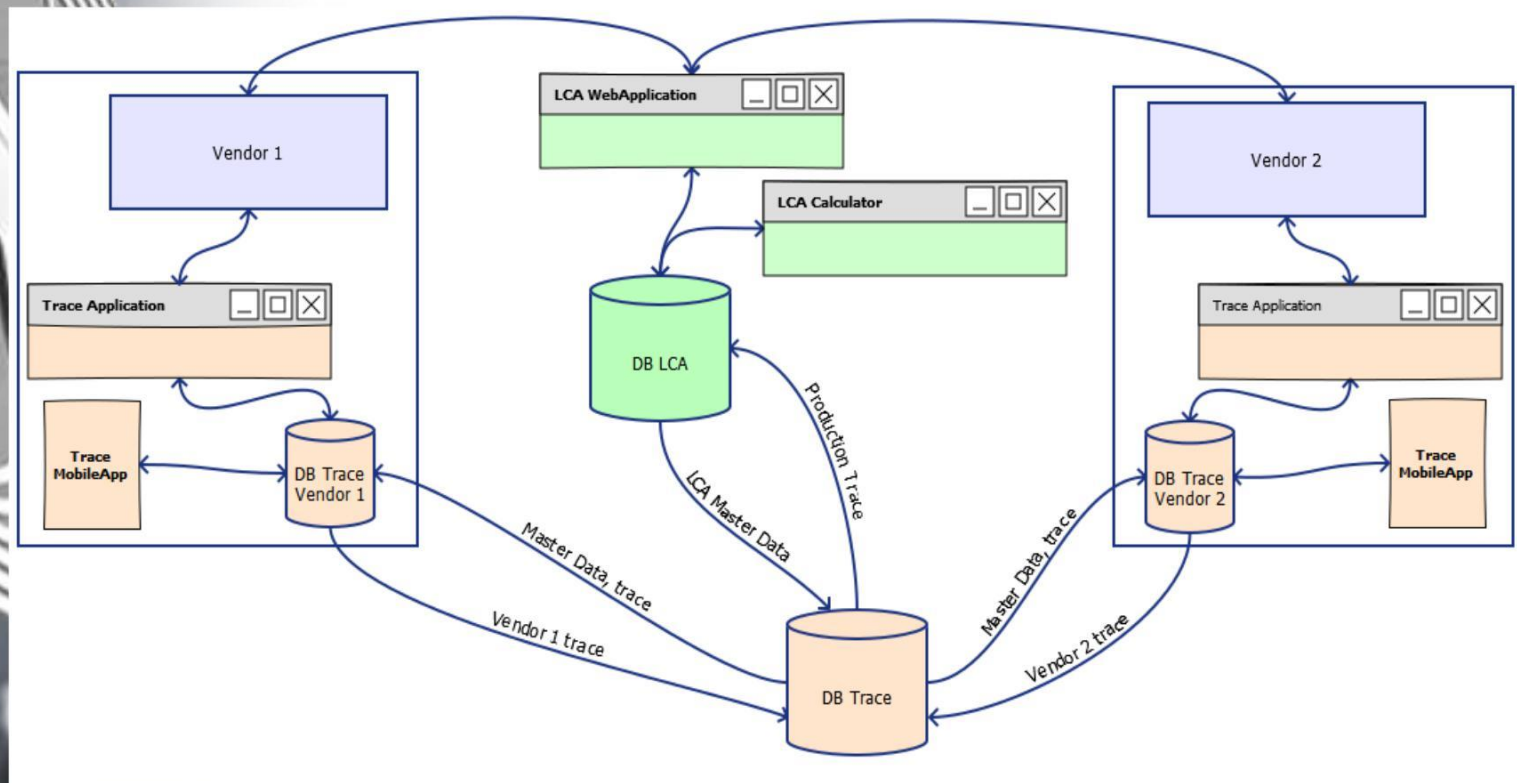
System operation

- Compilation of an online **questionnaire** by all the actors of the supply chain
- Installation of **INPUT** stations for the audit of raw materials
- Installation of **OUTPUT** stations for the registration of finished products

System operation

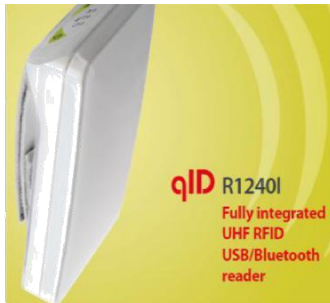
- **Association of input/output lots**
originated from different steps of the supply chain
- Unique lot identification through **RFID** technology
- **Environmental impact assessment** of each lot following the supply chain route

Design system architecture



Traceability station

- industrial handheld PDA



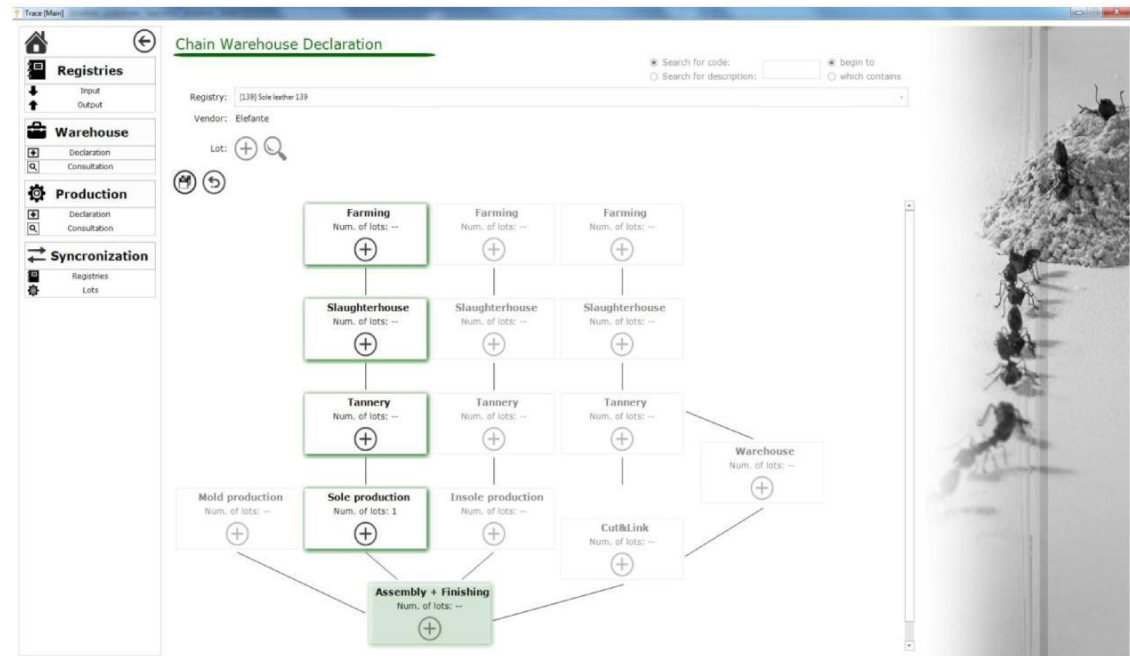
- External reader for RFID tags identification



- Industrial barcode and RFID tags printers

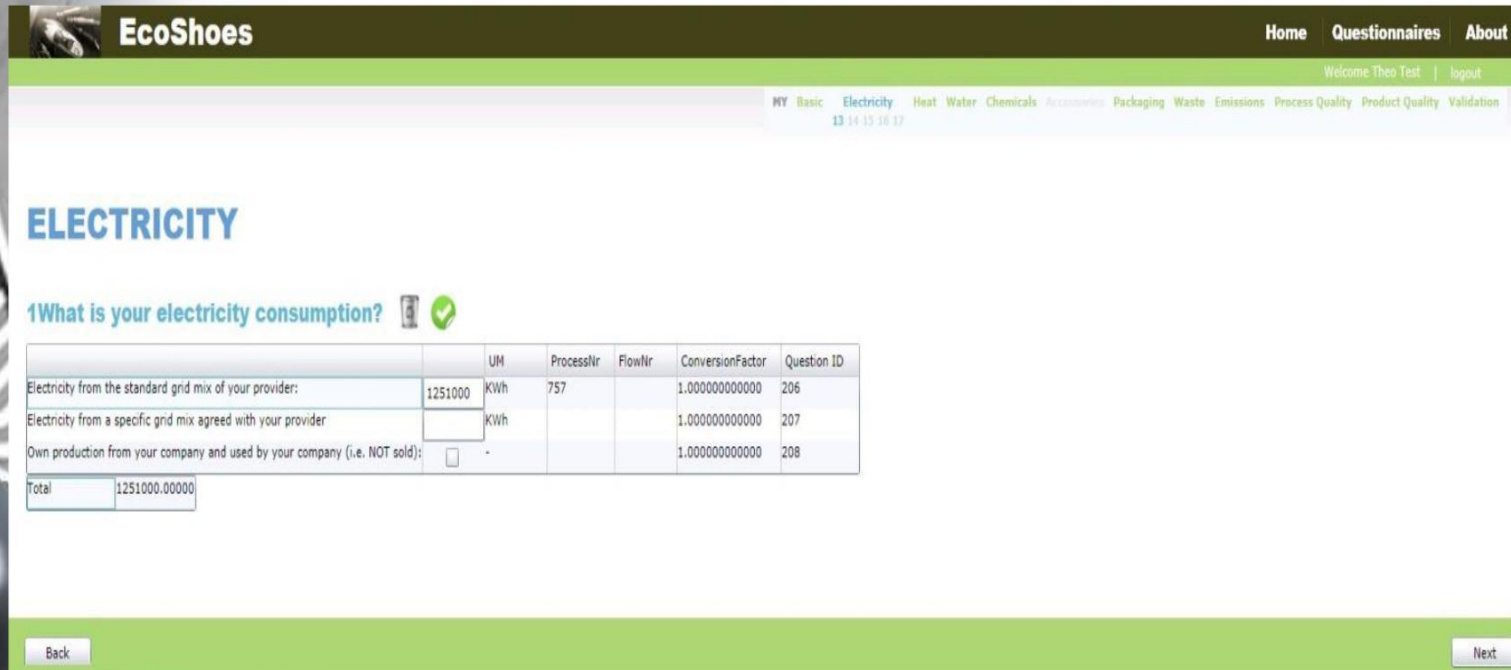
Our Software Products

- Traceability software where input-output lots are recorded



Our Software Products

- A Web Application to fill out the questionnaires





EcoShoes Home Questionnaires About

Welcome Theo Test | [logout](#)

MY Basic **Electricity** Heat Water Chemicals Accounting Packaging Waste Emissions Process Quality Product Quality Validation

13 14 15 16 17

ELECTRICITY

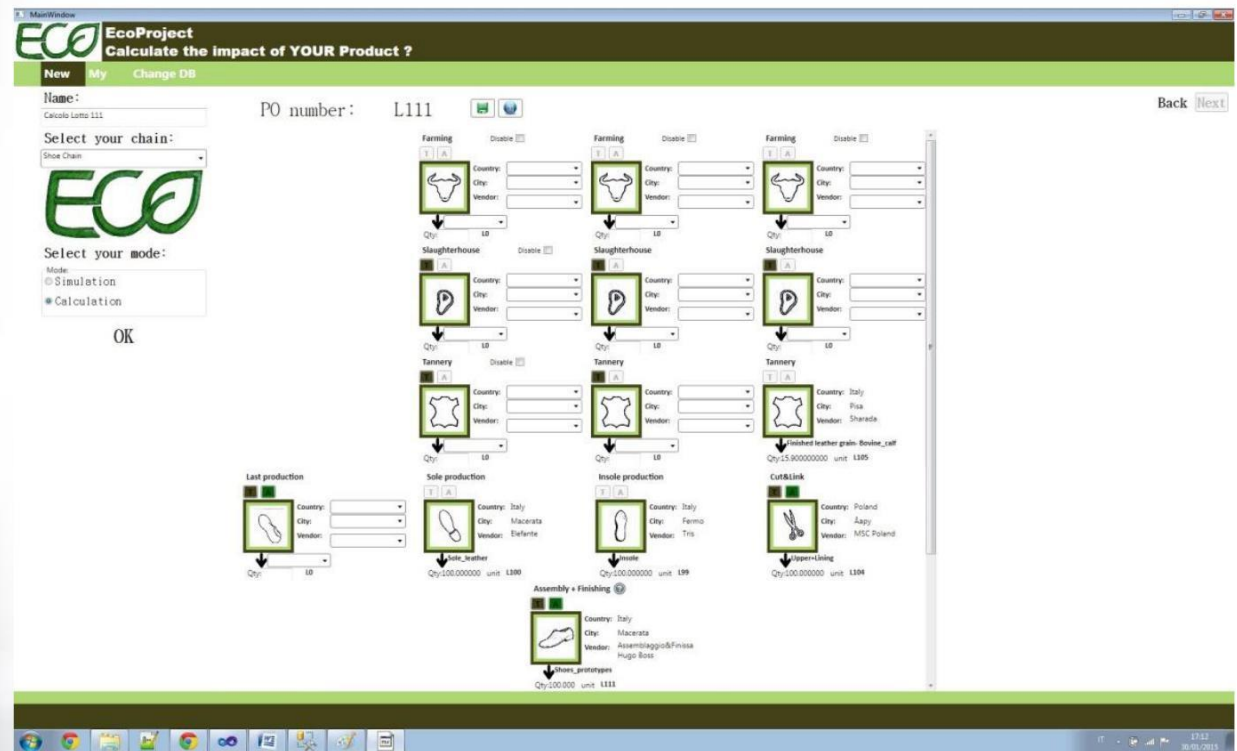
1What is your electricity consumption?  

	UM	ProcessNr	FlowNr	ConversionFactor	Question ID
Electricity from the standard grid mix of your provider:	1251000	KWh	757	1.000000000000	206
Electricity from a specific grid mix agreed with your provider		KWh		1.000000000000	207
Own production from your company and used by your company (i.e. NOT sold):	<input type="checkbox"/>	-		1.000000000000	208
Total	1251000.00000				


Back Next

Our Software Products

- LCA calculation software



Our Software Products



Calculation software operates in two main modes: simulation and calculation.

Simulation allows you to assess the impact of a hypothetical-fictitious supply chain in which you can choose among your own suppliers.

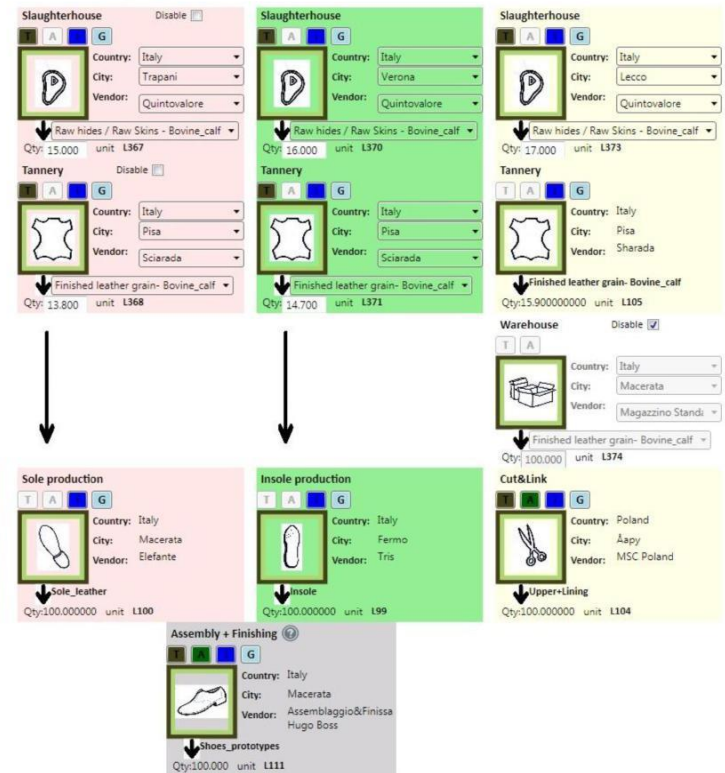
Instead, **calculation** allows you to view the route taken by an existing lot and its actual impact.

Achieved outcomes

L111 lot history

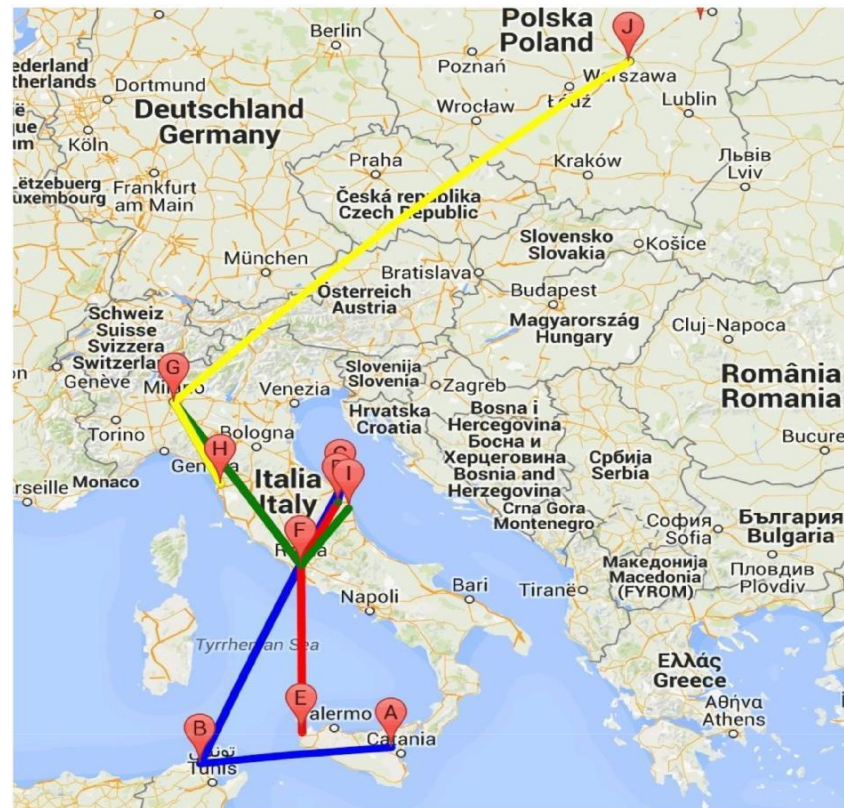
PO number : L111

Table Result Graph Result Graph Transport



Achieved outcomes

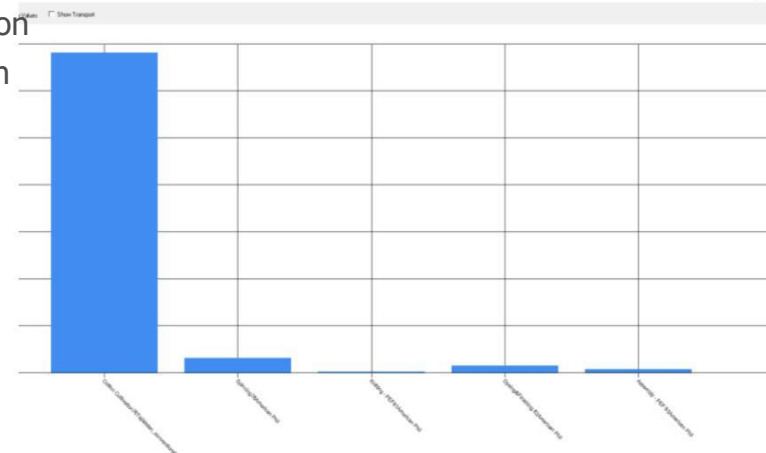
Traceability of lot 111 raw materials



Achieved outcomes

Statistical significance analysis of environmental indicators throughout the various steps of the supply chain:

1. Water depletion
2. w/o LT marine eutrophication
3. w/o LT climate change
4. w/o LT Terrestrial acidification
5. w/o LT Freshwater eutrophication
6. w/o LT Photochemical oxidant formation
7. Mineral, fossil & ren resource depletion
8. Land use
9. Ecotoxicity
10. Human toxicity
11. Ozone depletion
12. Terrestrial eutrophication
13. Ionizing radiation E (interim)
14. Ionizing radiation HH
15. Particulate pollution



Achieved outcomes

From the analysis of the collected data it emerges that:

- The major pollutants are to be found in the **chemicals** used by tanneries to tan leather and in the **salt** used by slaughterhouses

After having found the main causes of impact, we have sought to produce eco-friendly prototypes.
(identifying a GREEN path)

Benefits

- Increased product quality
- Competitive production differentiation
- Speeding up reception/shipment procedures, goods identification
- Control of the transactions carried out
- Implementation of anti-counterfeiting methods



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