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Life Cycle Systems



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# **Green-e: Company-LCA: a tool for the quantification of company environmental performances**

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<http://www.ecointesys.ch>  
<http://gecos.epfl.ch/lcsystems>

Parc scientifique, CP 538, 1001 Lausanne  
[www.ecointesys.ch](http://www.ecointesys.ch)

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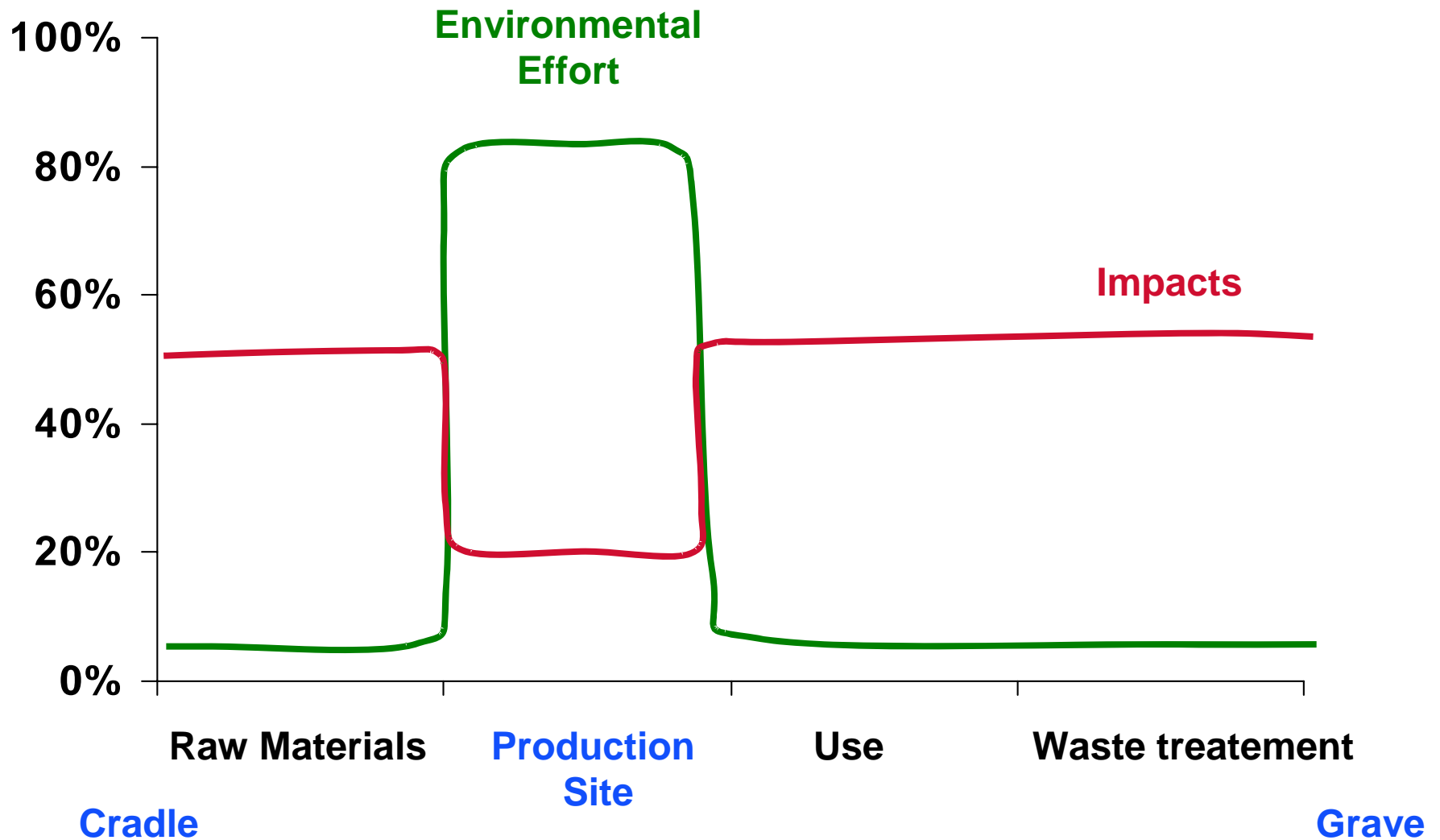
LCS – EPFL, Station 2, CH 1015 Lausanne  
Tel. +41 21 693 57 46, Fax + 41 21 693 57  
[www.http://gecos.epfl.ch/lcsystems](http://gecos.epfl.ch/lcsystems)



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# Environmental efforts: a shift vs. to the impacts!



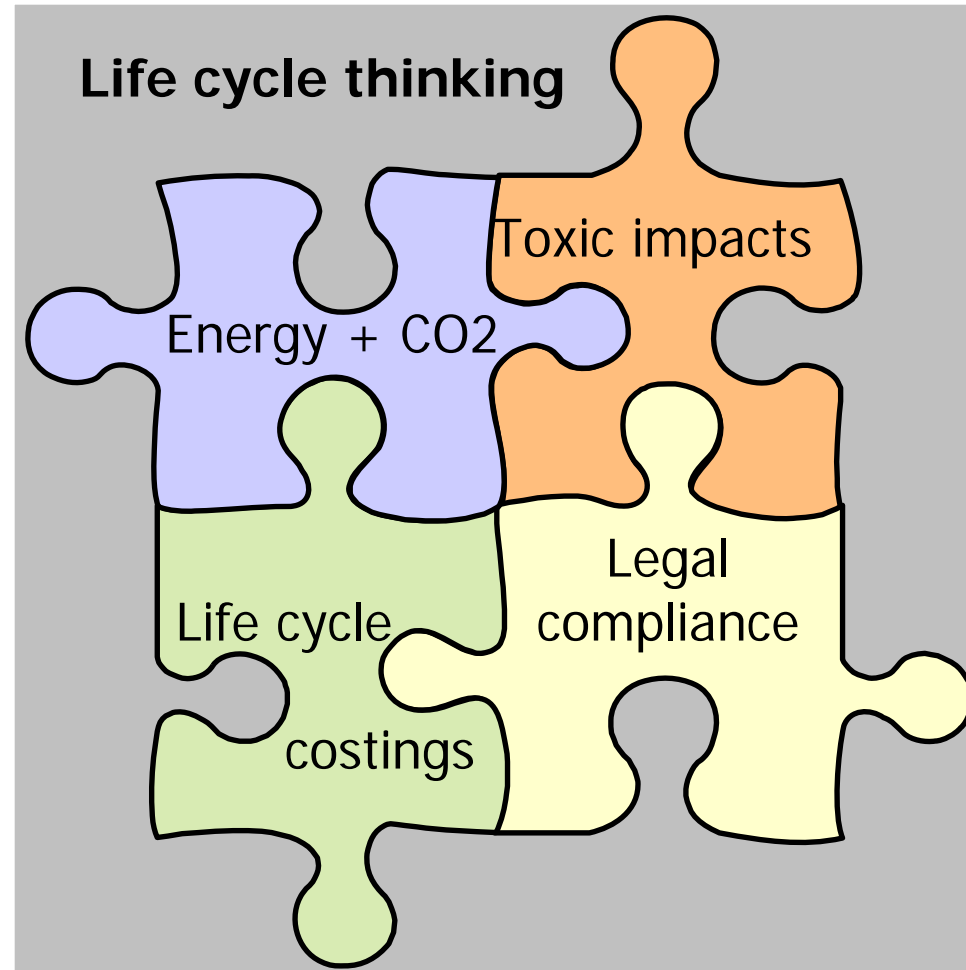


- 1. How to assess the environmental impacts of a company going beyond on site emission?**
- 2. How to make use of existing LCA databases in a more company oriented decision support tool?**
- 3. How to do so following a clear and reproducible standard approach in a time-efficient way?**
- 4. How to assess the company LC impacts consistently with the life cycle costs?**



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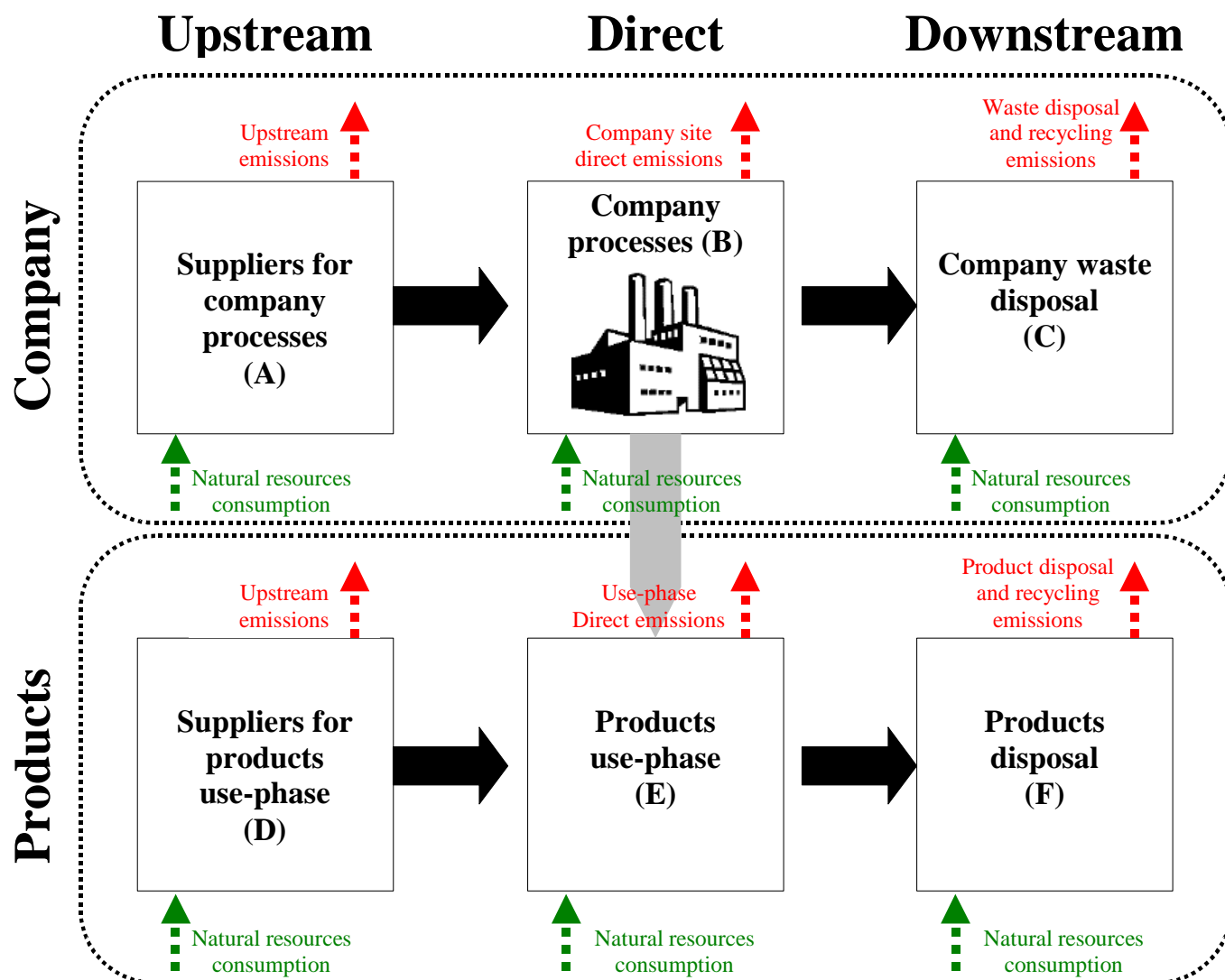
# Green-e: combination of 4 analysis modules





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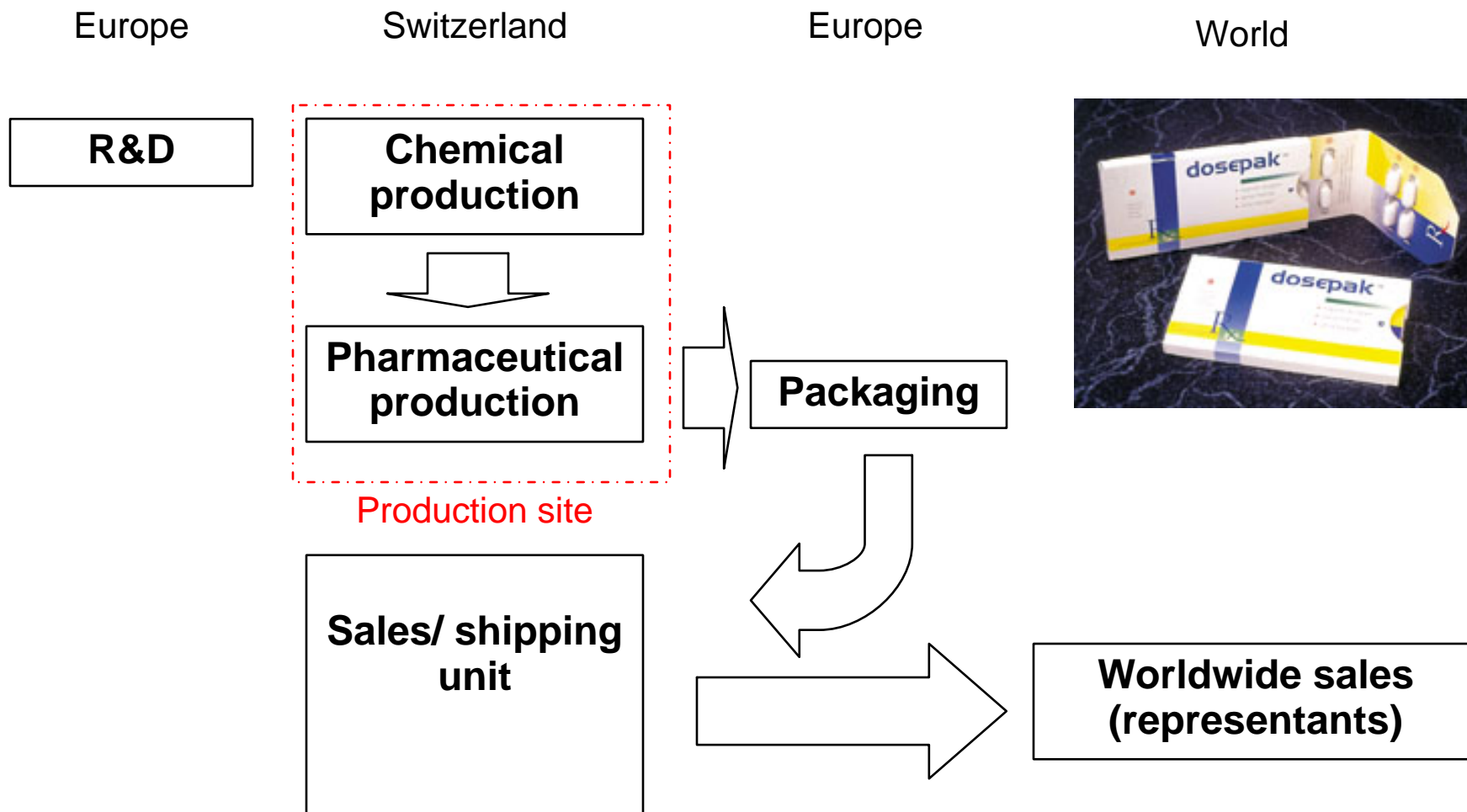
# Company's Life Cycle System





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# Pharma Industry



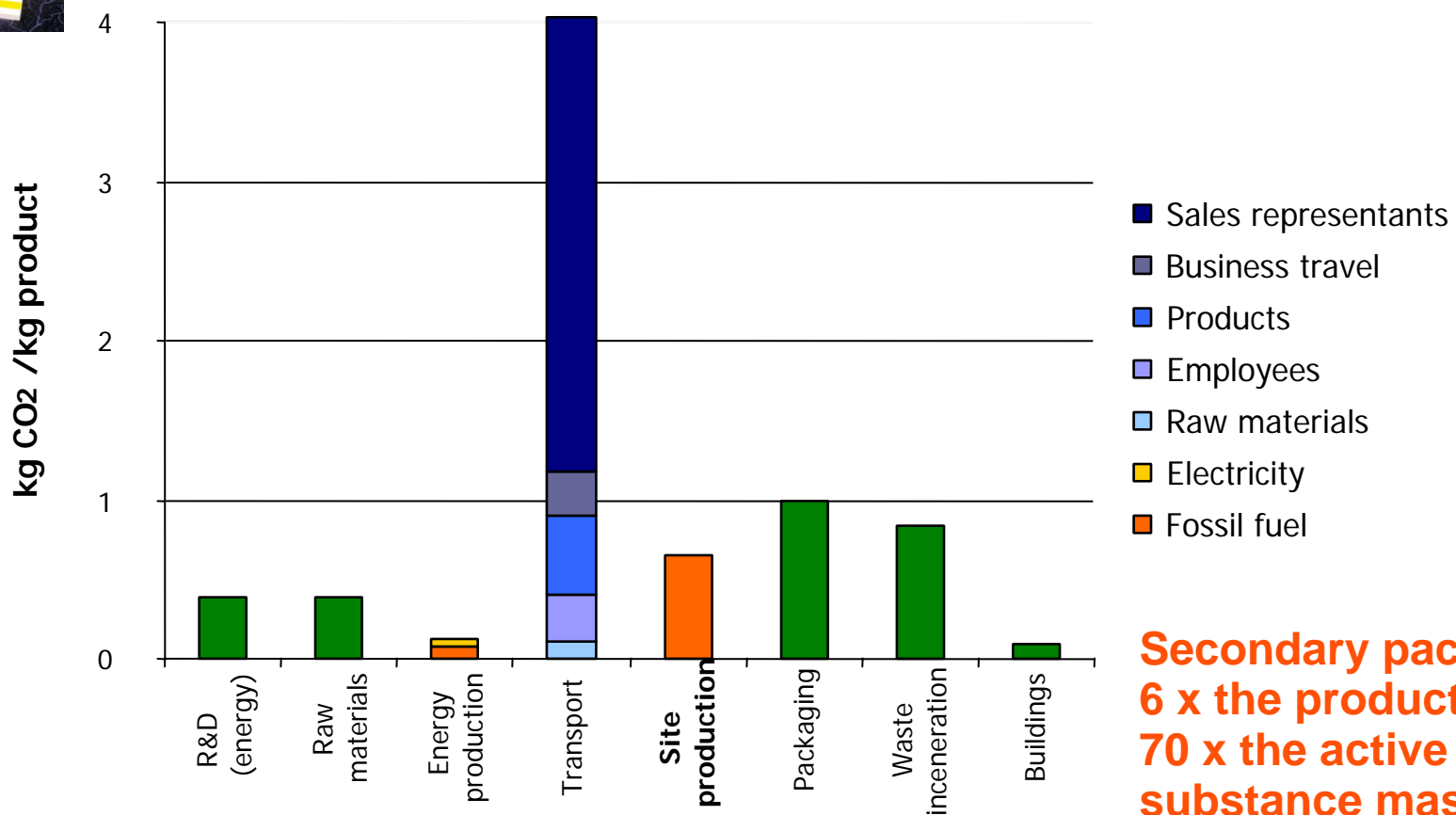


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# CO<sub>2</sub> Emissions Pharma Industry



CO<sub>2</sub> Emissions at different Life Cycle Stages

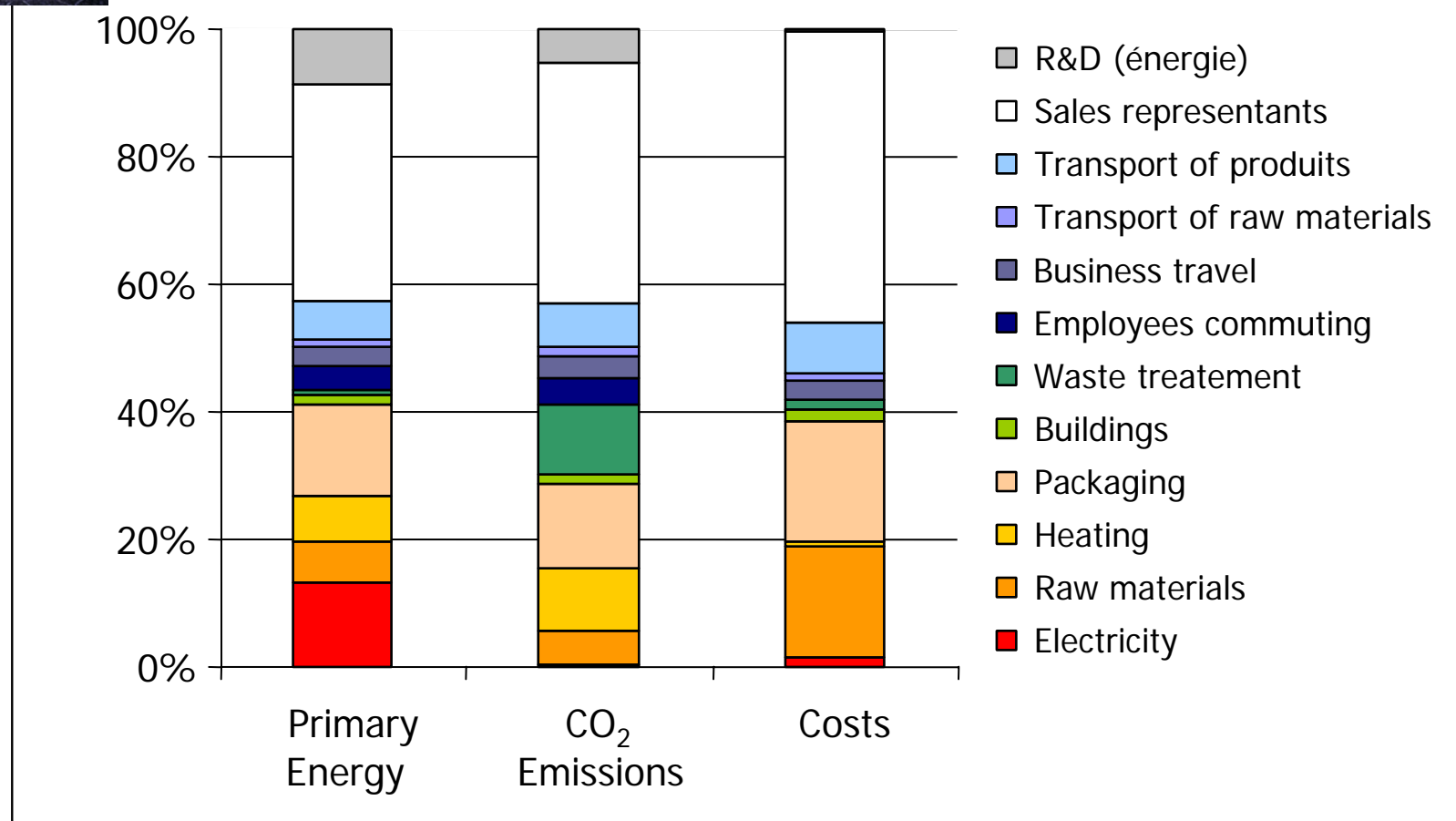




# Results: Pharma exemple



Life cycle primary Energy Balance and related costs







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- **Reductions of impacts have to be considered also outside the classical company boundaries**
  - **Decision-makers should realize that a consistent environmental management has to be based on a life cycle perspective**
  - **Merging LCA and LCC enables to validate the right correlations**



# Originality of the approach

**Simple and scientifically reliable screening approach**

**Quantified analysis of environmental impacts for Environmental Management Systems**

**Life cycle philosophy: from suppliers to users, through to end of life**

**Flexibility to others environmental evaluation tools like LCA, RA, etc.**

**Links environmental impacts to costs**

**Benchmark to standards and similar sectors of activity**