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End-of-life and waste management in life cycle assessment
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Food Waste and the Myth of Packaging Impact

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- Packaging often seen as a big contributor to the environmental impact of food products
- But LCA studies have shown that for most food products and most environmental indicators, the negative impact of packaging production and disposal is often negligible compared to the **positive impact from preventing food loss**
- Sustainable packaging design should aim at finding packaging solutions that will **decrease the total environmental impact of packaged goods**

Food loss vs. packaging impact



- The impact of food waste occurs both through additional volume of waste to treat and **additional food volume to produce**
- Between a quarter and a half of the global food supply is wasted
- **Roughly 1 in every 3 calories produced in the world ends up being wasted**
- Totally avoidable waste in the European Union's 27 represents about 10-15% of total waste in the supply chain
- Manufacturing food waste was estimated at almost 35 million tons per year in the EU27 (70kg per capita)

Quantifying global food waste



- Waste reduction is more and more considered a strategic issue by the private food sector
 - **Directly linked to resource management and cost savings**
- In order to optimize waste reduction efforts, it is important to **measure waste hotspots** along the supply chain
- There is also an urgent need to better model food loss in life cycle studies
- **Carbonostics**, the smart lifecycle tool for food products, allows users to capture waste at every stage of a product's lifecycle and to assess the impact of food loss along the supply chain

Waste measurement strategic for food industry



CARBONOSTICS

RESOURCES

COMPANY

YOUR ACCOUNT

START NEW ANALYSIS

Dashboard > **Pâtés de campagne Hénaff**

Data Entry

Table

CCN Viewer

Graphs

Benchmarks

Methodology

Feedback

Graph Settings

Chart Style



Stacked Bar



Grouped Bar



Pie



Points

Measures to Graph

CO2e emissions

Cost

Calories

Protein

Fat

Carbs

Sodium

Sugar

Options:

Show percents

Overlay CO2e and Cost


Combine CO2e and Cost

Orientation: Normal Flipped

Group By

Raw material categories (dairy, fruit, etc.)

Supply chain phase (sourcing, shipping, etc.)

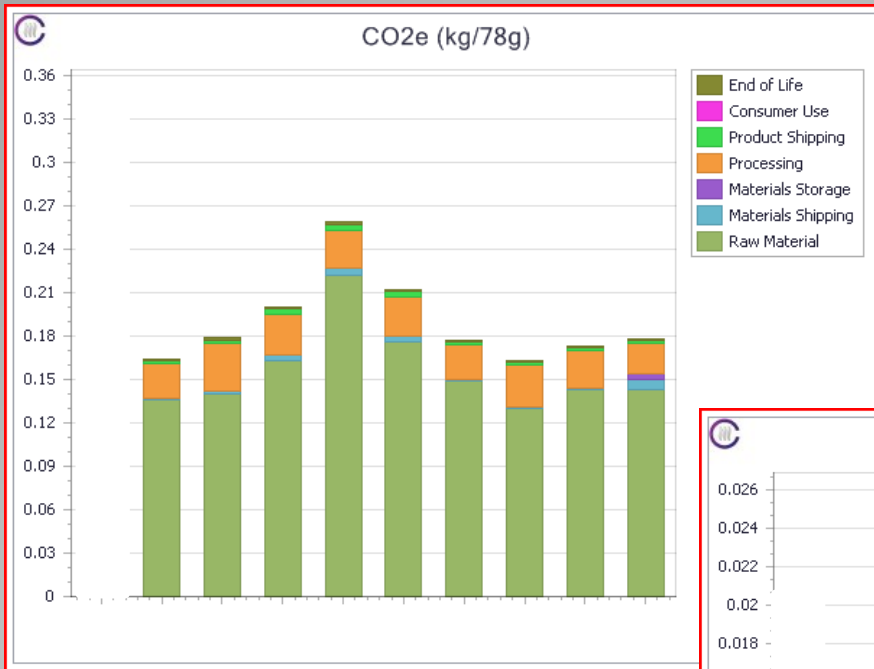
From waste only 

Nutritional categories (protein, fat, carbs)

No category

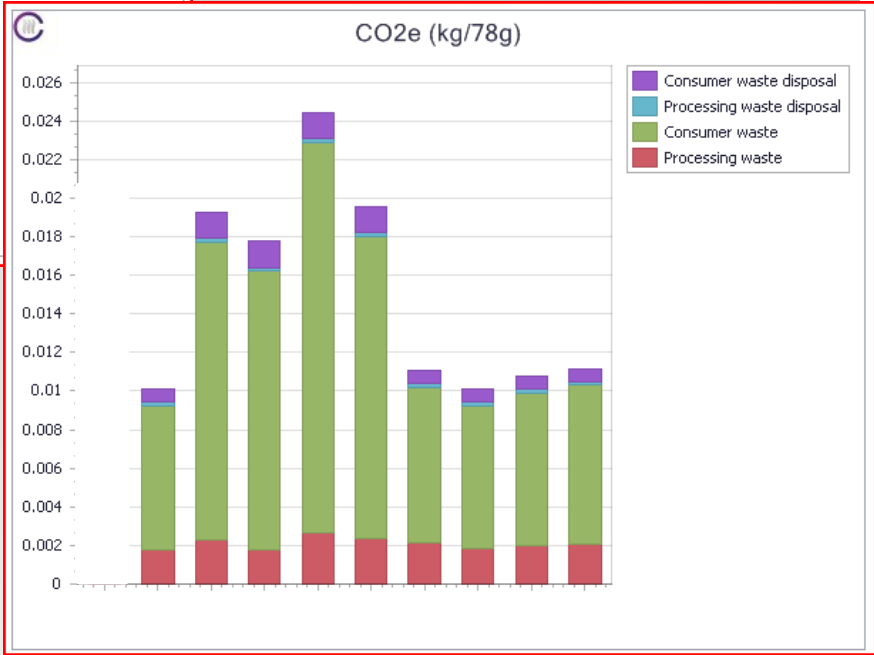
Scenarios

Carbonostics: waste graph option

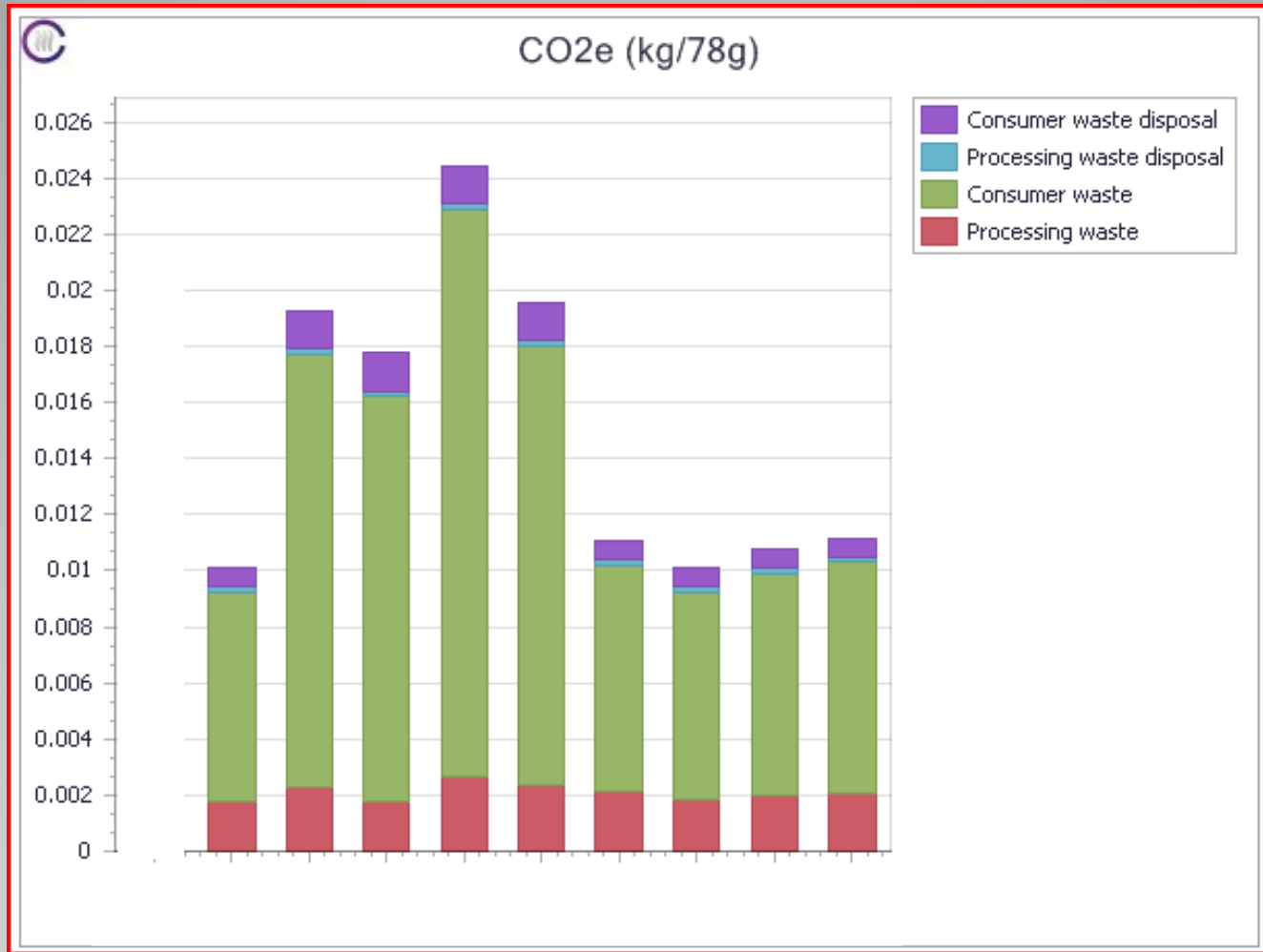


Total product footprint

Waste footprint



Total footprint vs. waste footprint



Categories in waste footprint

Thank you for your attention. Questions ?

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