

Backgrounds to and objectives of modelling in the workshop

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Andre Mazzetto



Life Cycle Assessment

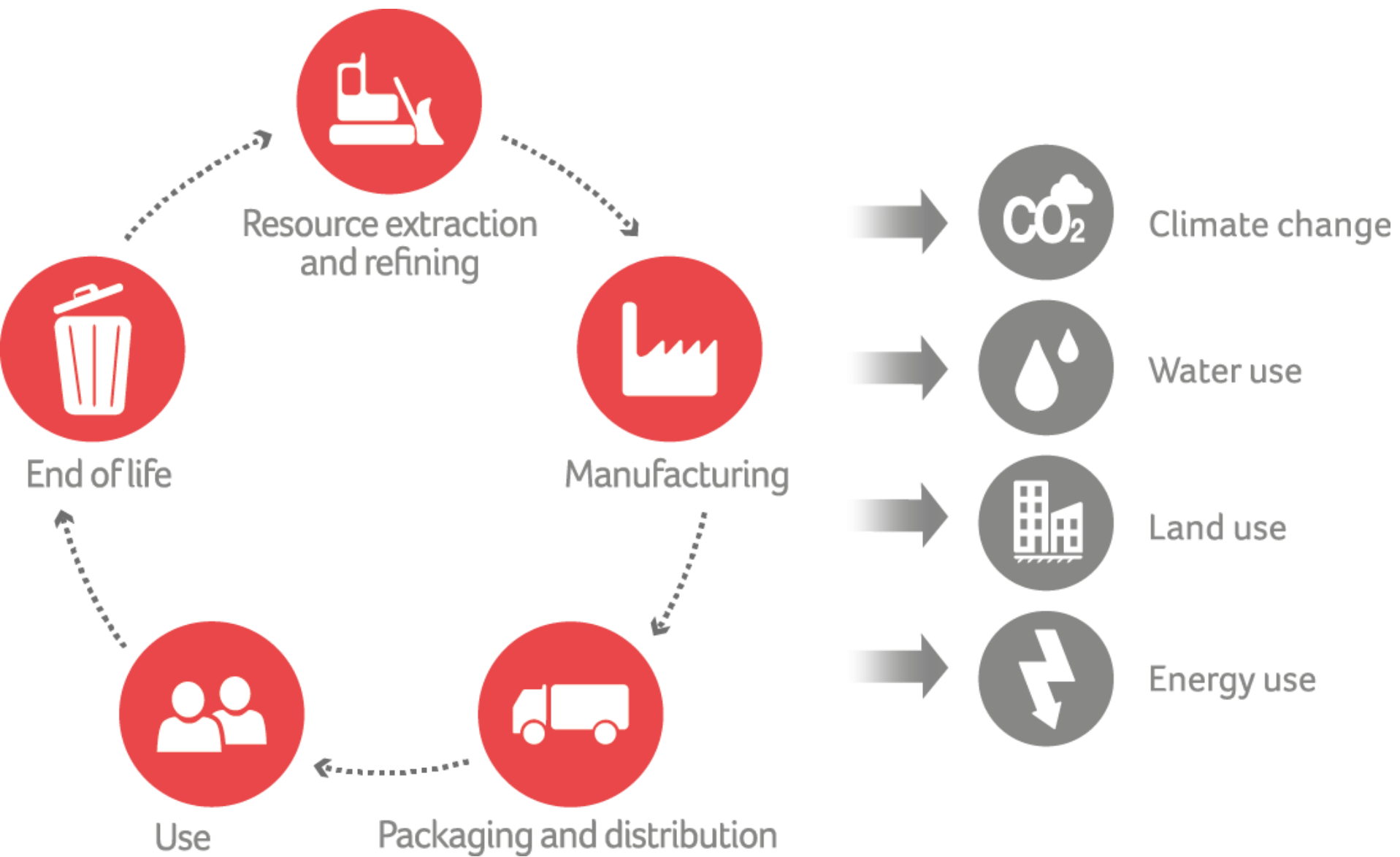
What?



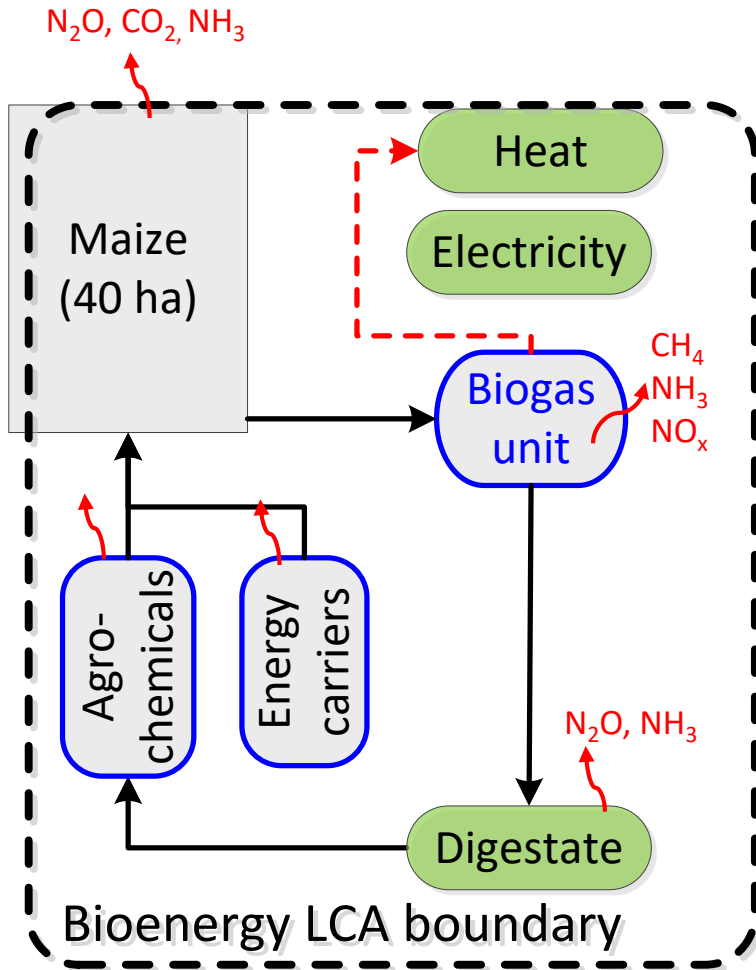
Once Upon a Time







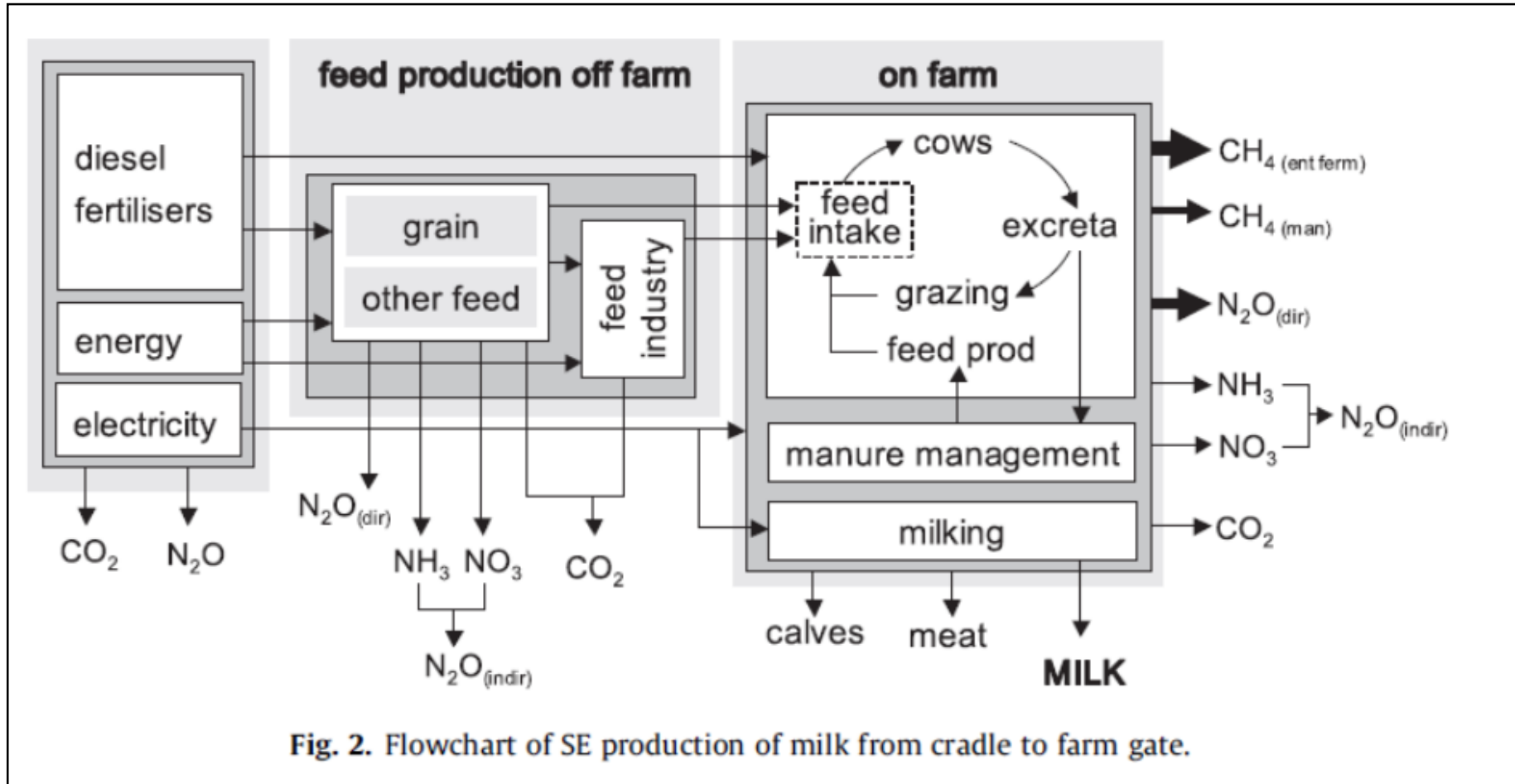
What is LCA?



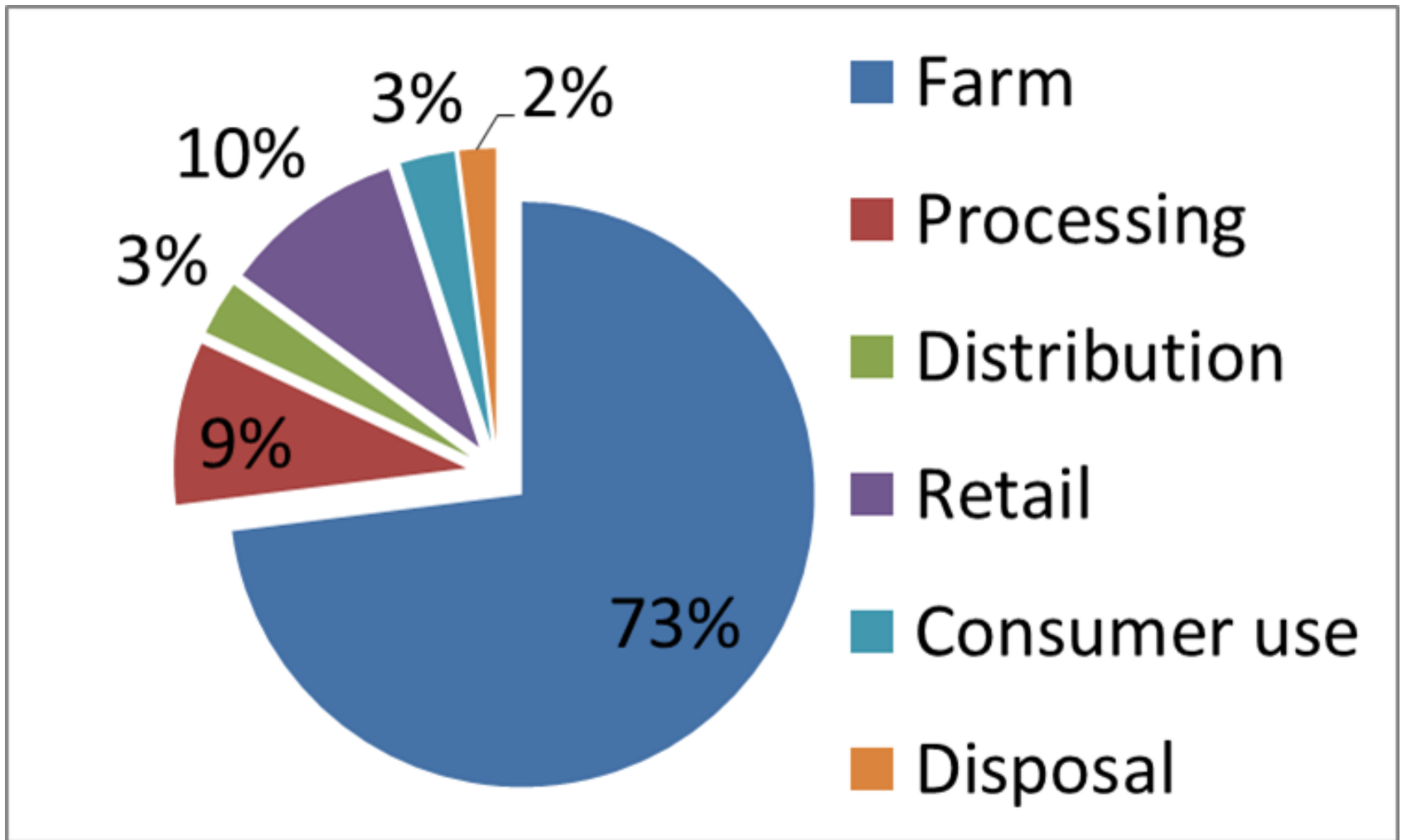
- Accounts for all processes contributing to a product or service
- Accounts for all inputs and outputs from those processes
- Characterises inputs and outputs in terms of environmental damage potential
- Generates environmental footprint per unit of product output
 - e.g. kg CO₂e kWh⁻¹ bio-electricity

Maize biogas e.g.

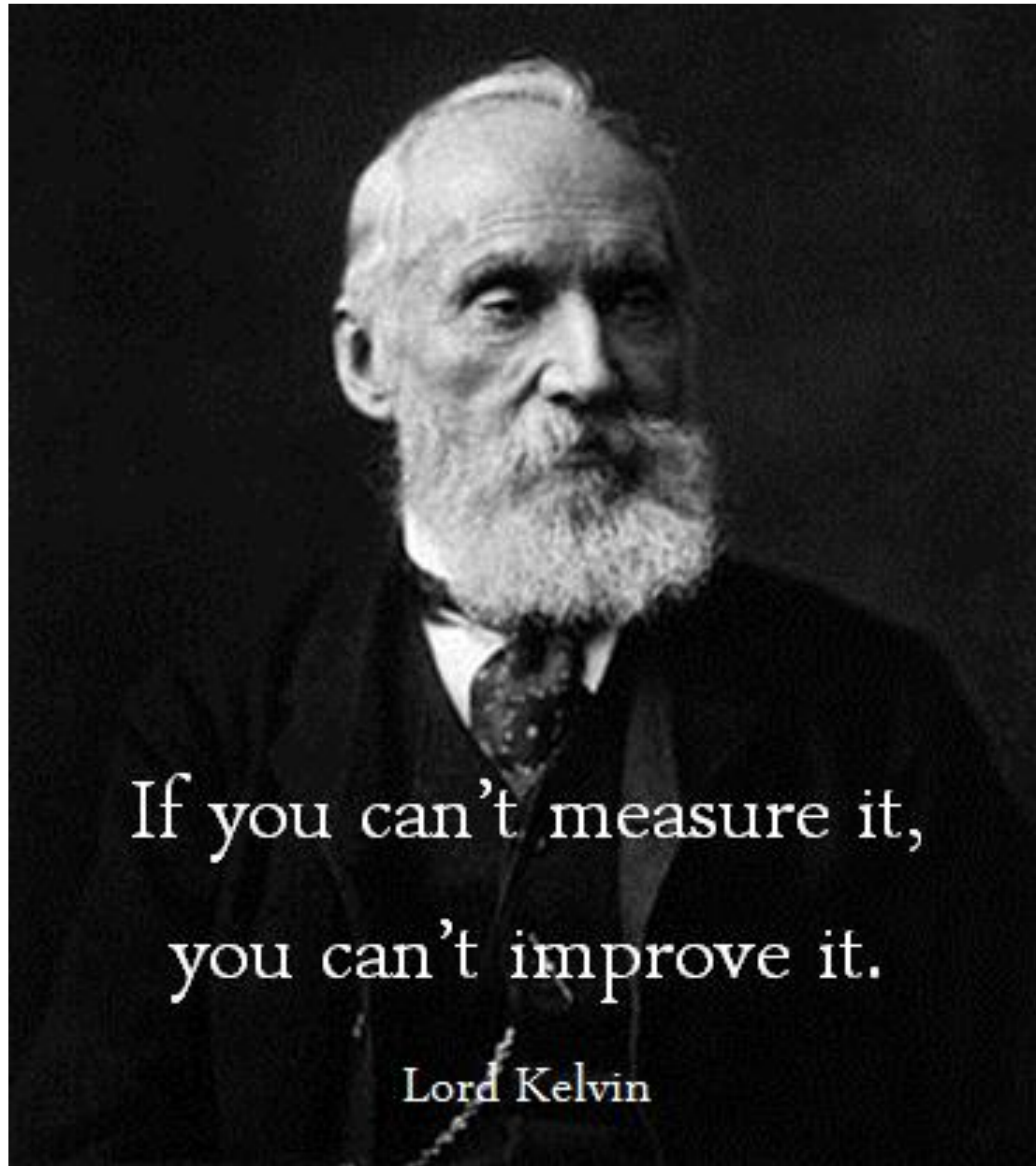
Systems approach



Beyond the farm gate...

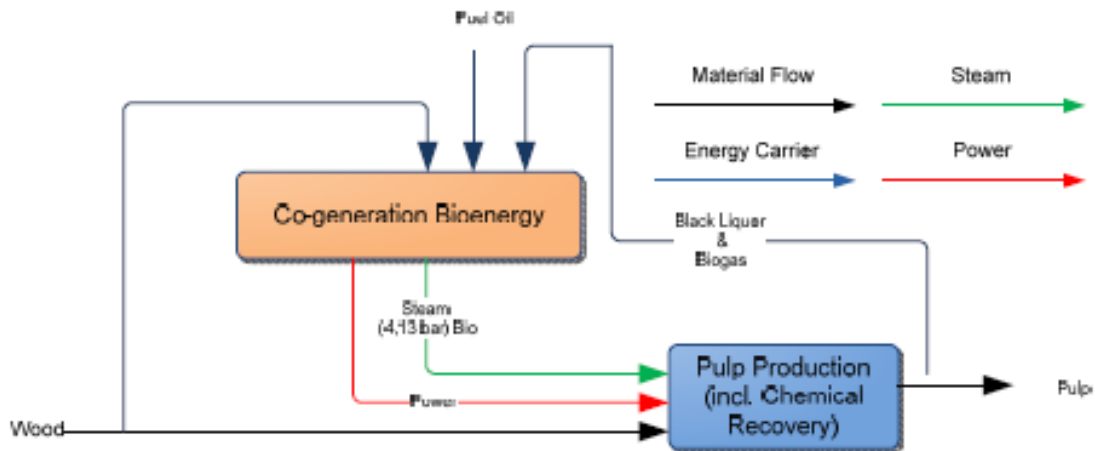


Why?



If you can't measure it,
you can't improve it.

Lord Kelvin



Process optimisation

reducing with
the Carbon Trust

500g
CO₂

per 1kg bag

We have committed to
reduce the carbon footprint
of this product

carbon-label.com

Supply chain
management



Consumer labelling

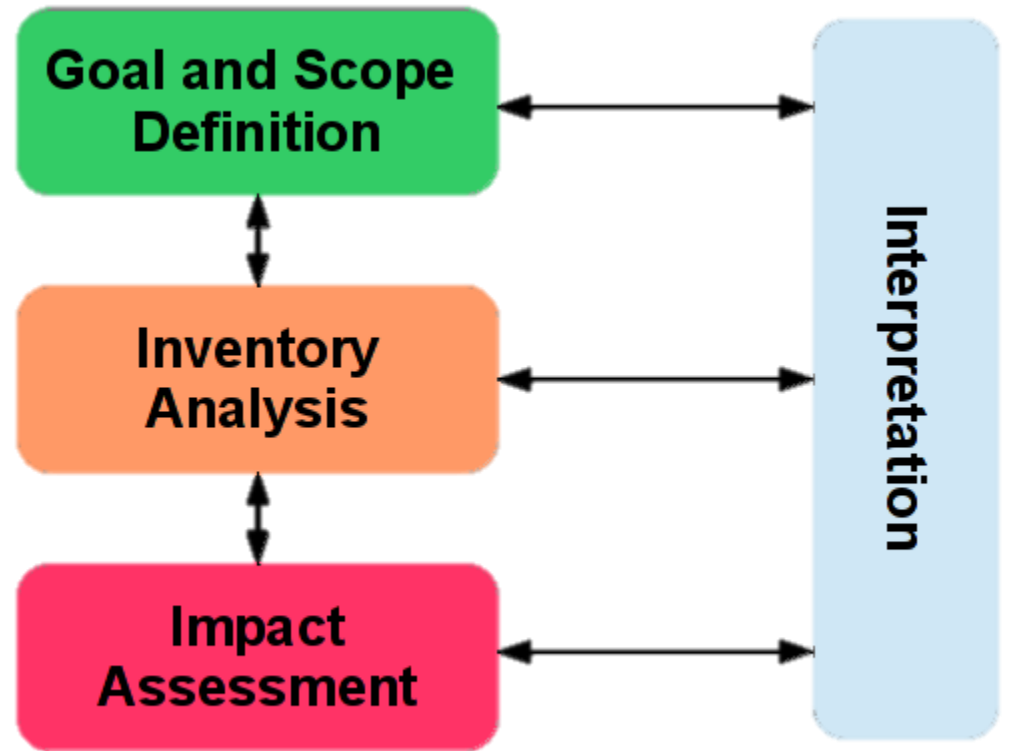


Performance reporting

Attention to the units!



How?



Advantages

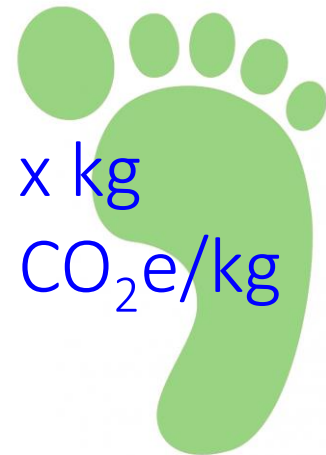
- Various commercially available software databases and modelling tools



Footprint process

CF tools integrate various algorithms to translate input data (representing farm characteristics) into footprint data...

Data →



Goal of the modelling during the workshop

Sampling data

Model the impact of the main management changes

Discuss the results

Expand the boundaries!

Muchas gracias!
Thank you!
Diolch yn fawr!

