REGIS - EcoPerformance DF69: Regionalisation in LCA

13th September 2018

Agenda

- Regionalization in REGIS
 - Introduction
 - Concept
 - Implementation: Background data, LCIA-methods
- Rice case study
 - Modelling
 - Results AWARE (unknown)
 - Conclusion

Introduction



REGIS

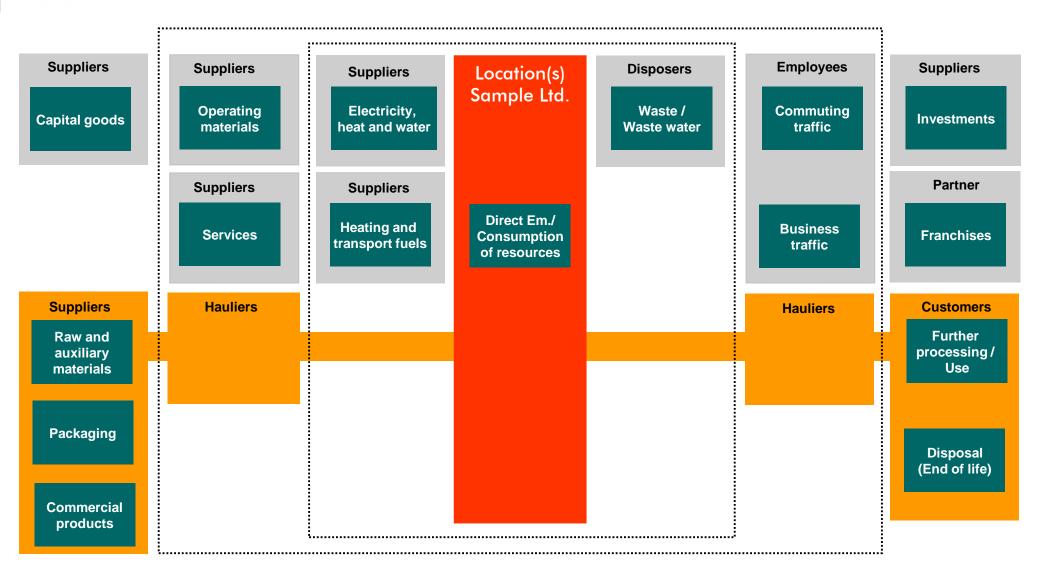
Since its market launch in 1993 REGIS enables companies to analyse and control their Corporate EcoPerfomance. With the REGIS version including ecoinvent 3 users can perform LCA - with special focus on Company-LCA - with regionalised LCI/LCIA.

Provider

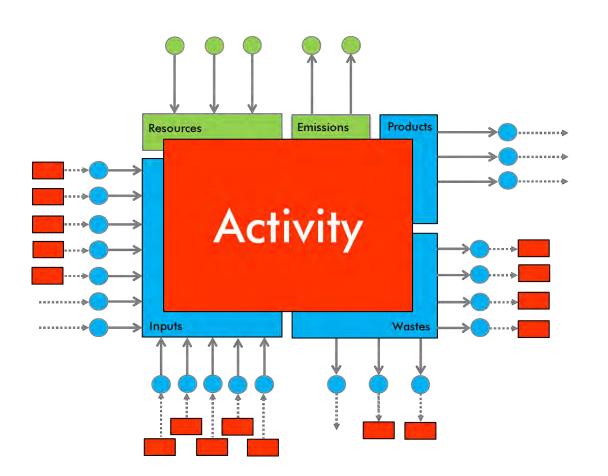
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Quelle: https://www.ecoinvent.org/partners/resellers/resellers.html

REGIS – Corporate Ecoperformance

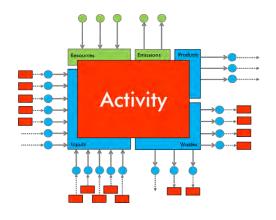


Concept: Starting point



- Intermediate Exchange
- Elementary Exchange
- Inventory

Concept: An Activity has a Geography...

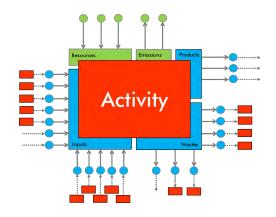


Elementary Exchange

- Geography
- Time (start and end)
- **....**

An Elementary Exchange has a Geography from its Activity.

Concept: ... and REGIS?





- Time (start and end)
- ·



Modell structures

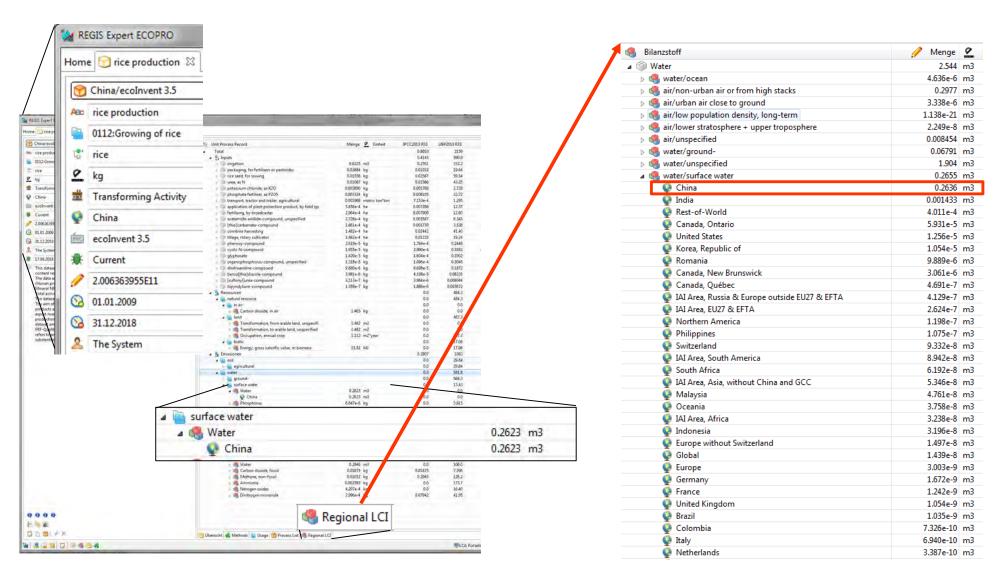
Geography

Production structures

- Geography (Modell structure)
- Time Period

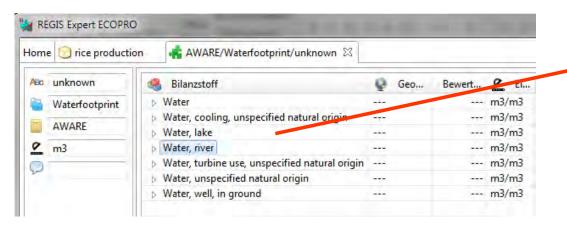
Implementation: Background data e.g. ecoinvent v35

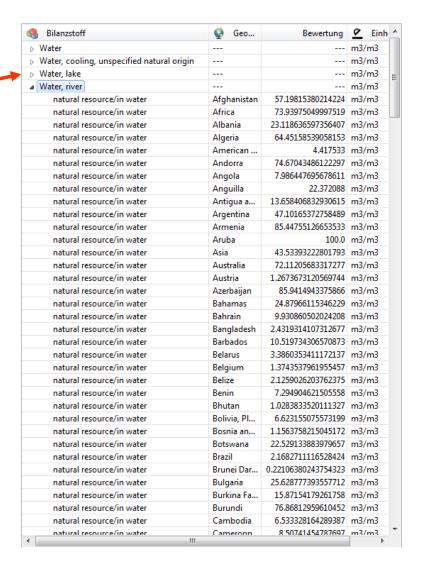
THE REAL PROPERTY.



Implementation: LCIA-Methods

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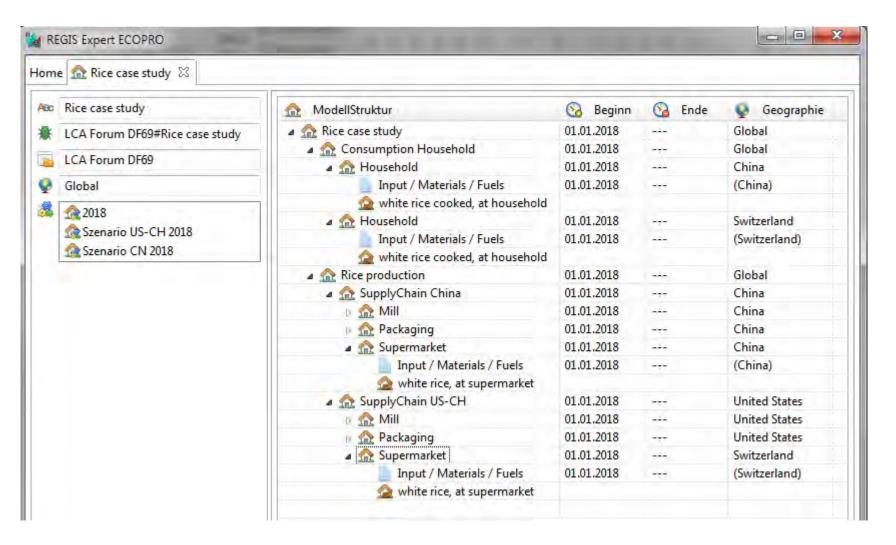


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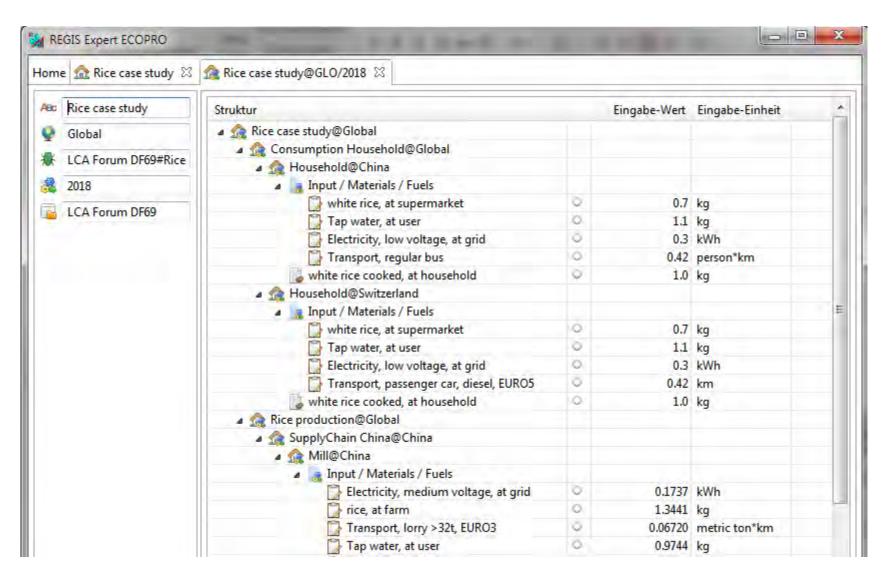
Rice case study – Modelling: Modell structure

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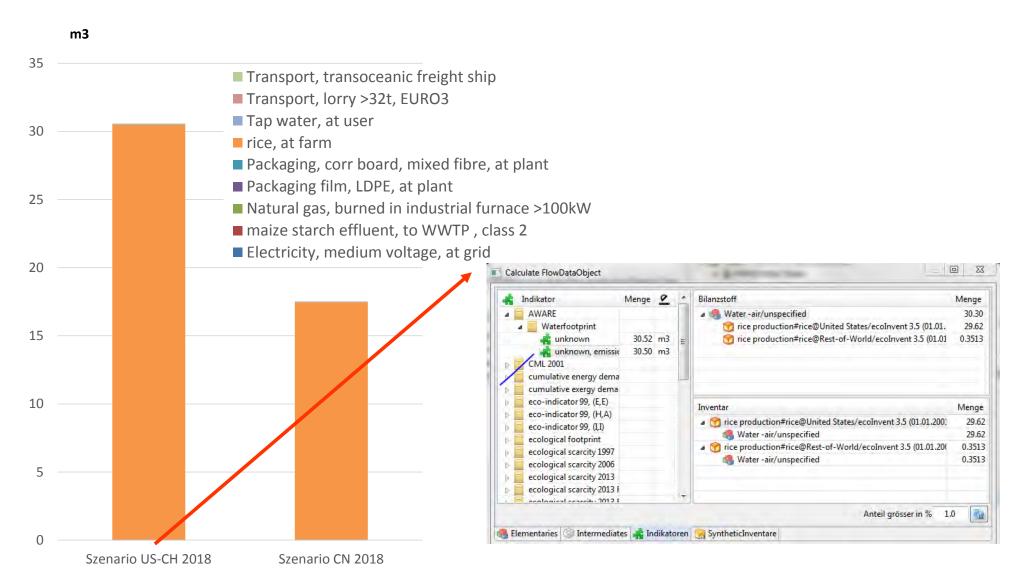


Rice case study – Modelling: Production structure

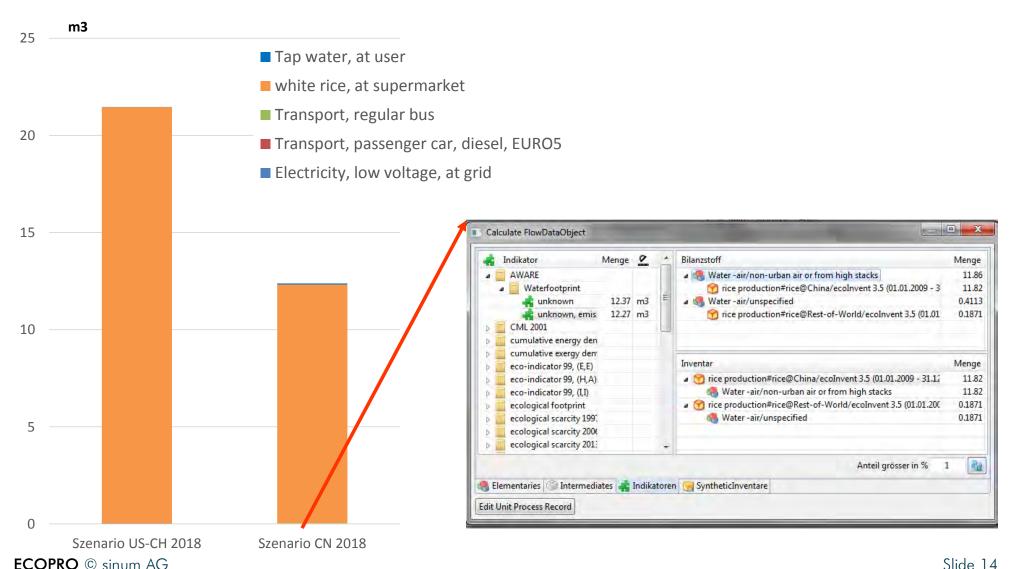
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Results, AWARE (unknown) - Rice production: white rice@supermarket



Results, AWARE (unknown) - Consumption: white rice, cooked@household



Conclusion

⇒ LCI: Regionalization is given via the Geography of the Activity/UPR

⇒ LCIA: Fall back to GLO for unknown Geography

Thank you for your attention



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