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Time as Functional Unit in Comparative LCA of Immaterial and Material Consumption Systems

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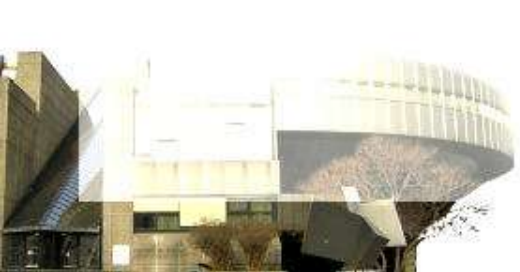


Promotion of Immaterial Consumption

- current research field at the ITNP
 - immaterial instead of material consumption
 - immaterial needs instead of material wants
 - change in consumer behaviour



we need: information on the
**environmental effects of individual
consumer behaviour**



Model LCA Study

GOING TO A PLAY

- immaterial consumption
- LCA for a service

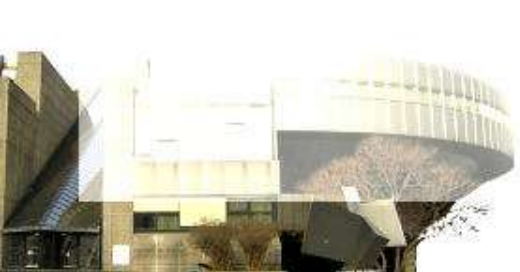
DRINKING BEER

- material consumption
- LCA for a product

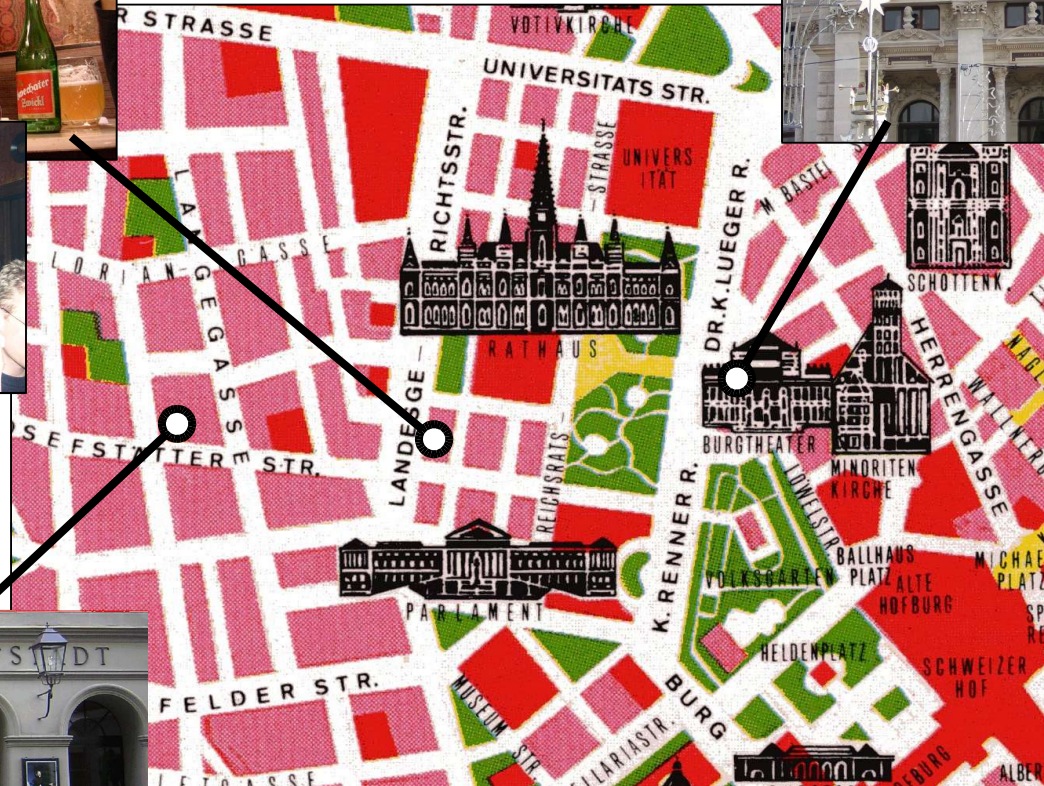


COMPARATIVE LCA

- common function ?
- adequate functional unit ?
- representative system boundaries ?



Case Study & Scenario

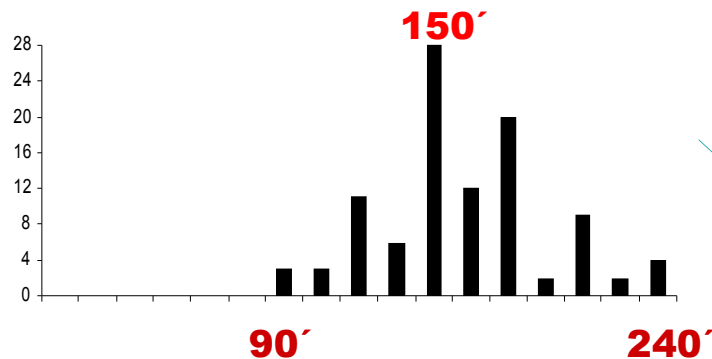


Time Use, Functional Unit & Reference Flow

FUNCTION → TIME USE DATA → FUNCTIONAL UNIT → REFERENCE FLOW



1 stage performance



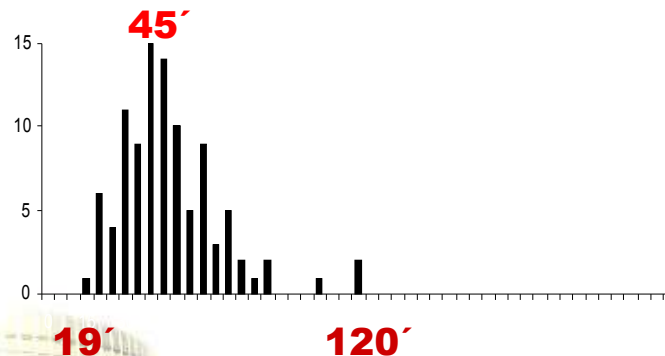
1 stage performance

150'

3*45' (+2*9')



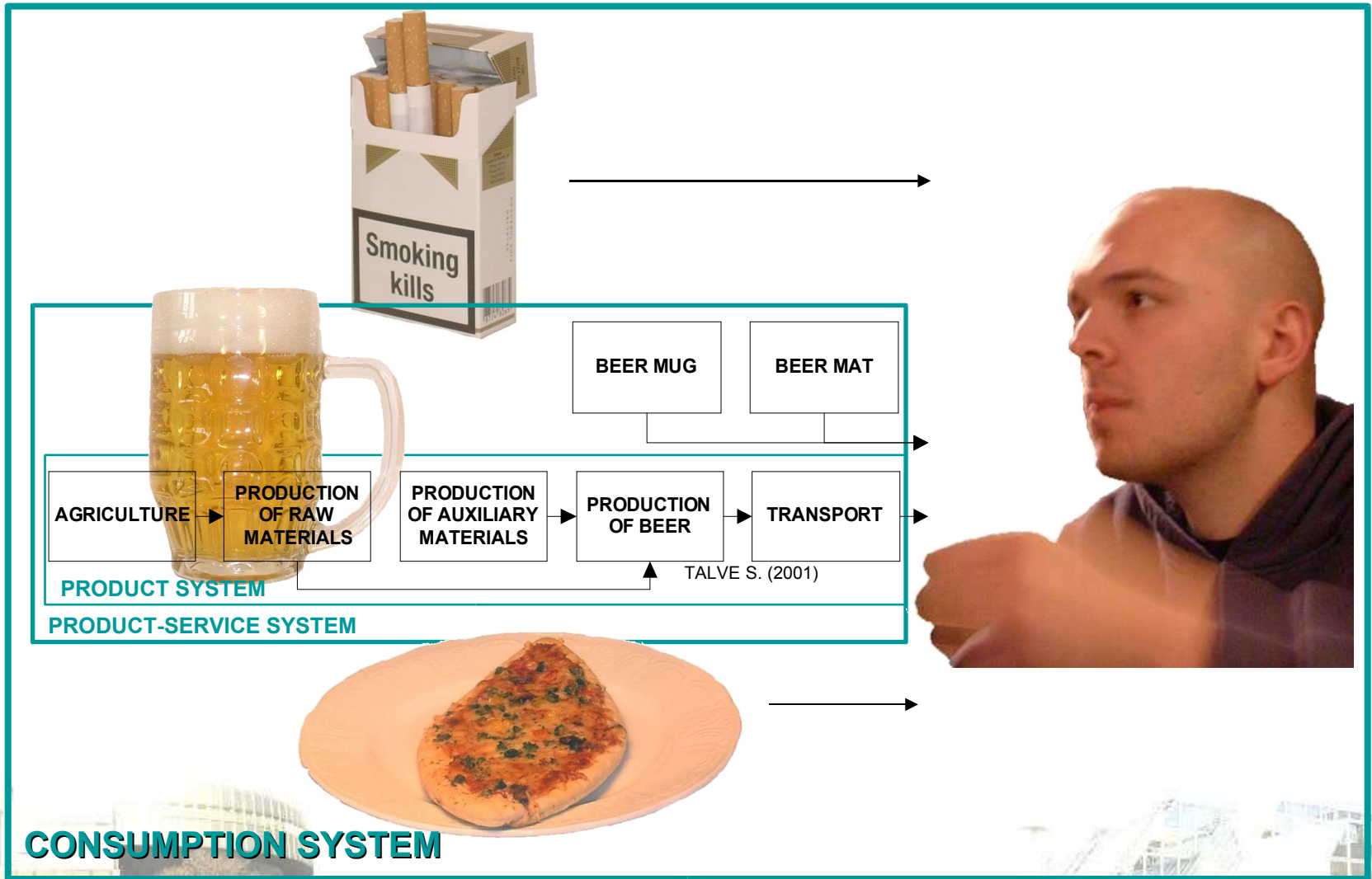
1 ,Krügerl'
(0.5l) of beer



3 ,Krügerl'
(1.5l) of beer



System Boundaries & Future Prospects



Thank You

for Your attention!



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