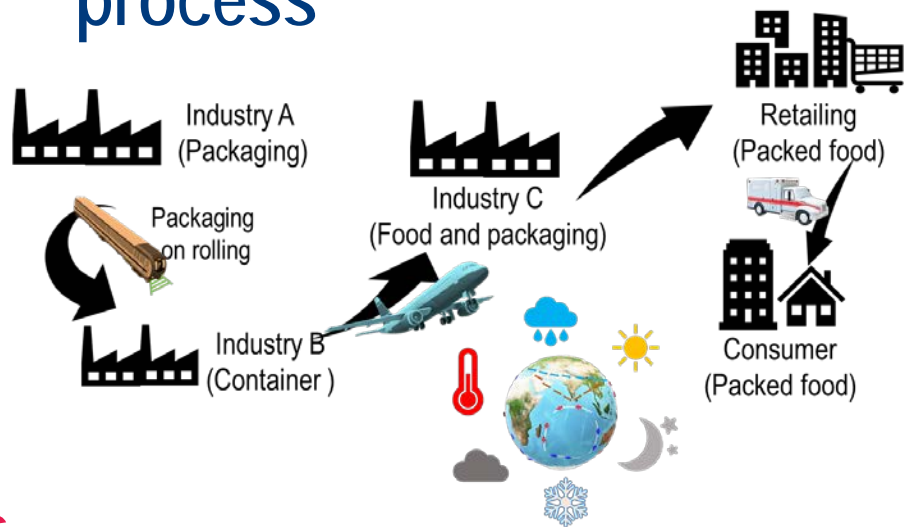


Risk assessment of multi -step and -condition process

Issues

- Variation of conditions in the multistep process
- Effects of unknown conditions
- Risk assessment of an entire packaging system

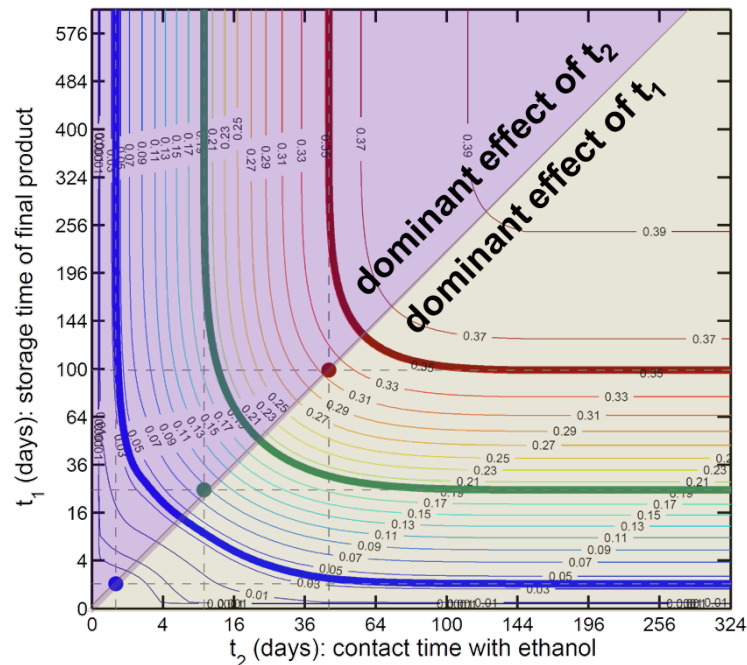
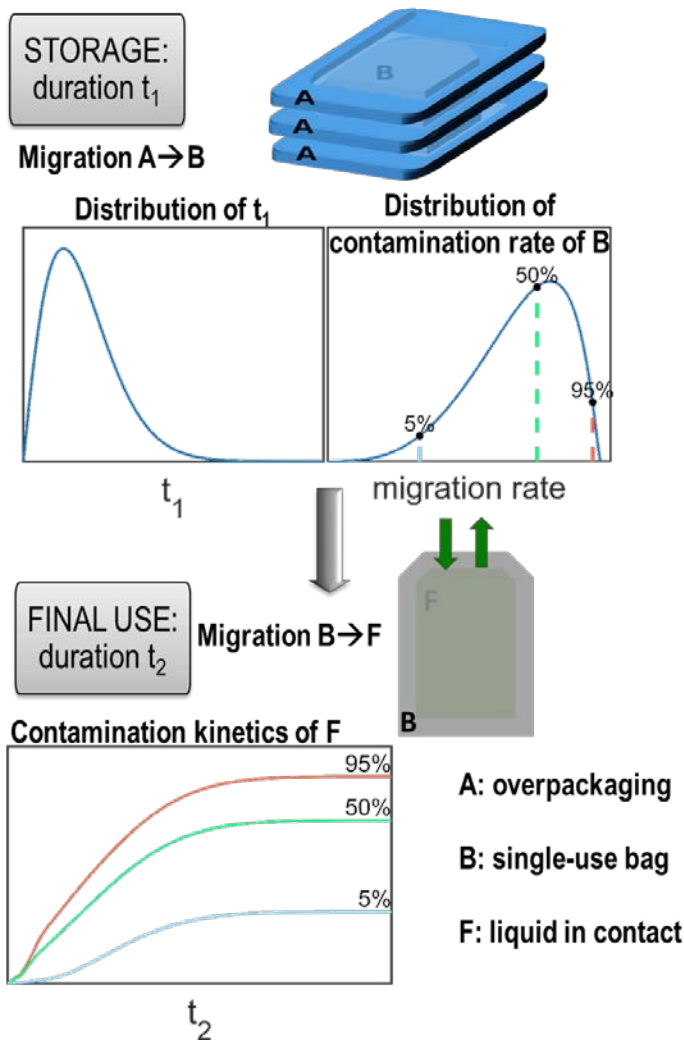


Our contributions

- ✓ Chained scenario interpretation
- ✓ Chained simulation
- ✓ Probabilistic modeling
- ✓ Identification of transport and thermodynamic properties

Application areas

- Food (over-) packaging
- (Over-) packaging for biotechnological devices, pharmaceutical and cosmetic products



Left: Migration kinetics of an additive originating from overpackaging (A) to food (F) according to the percentiles of the contamination rate of B at the end of the step 1

Right: contamination rate of an additive originating from overpackaging (A) to food (F) according to the two contact times.