

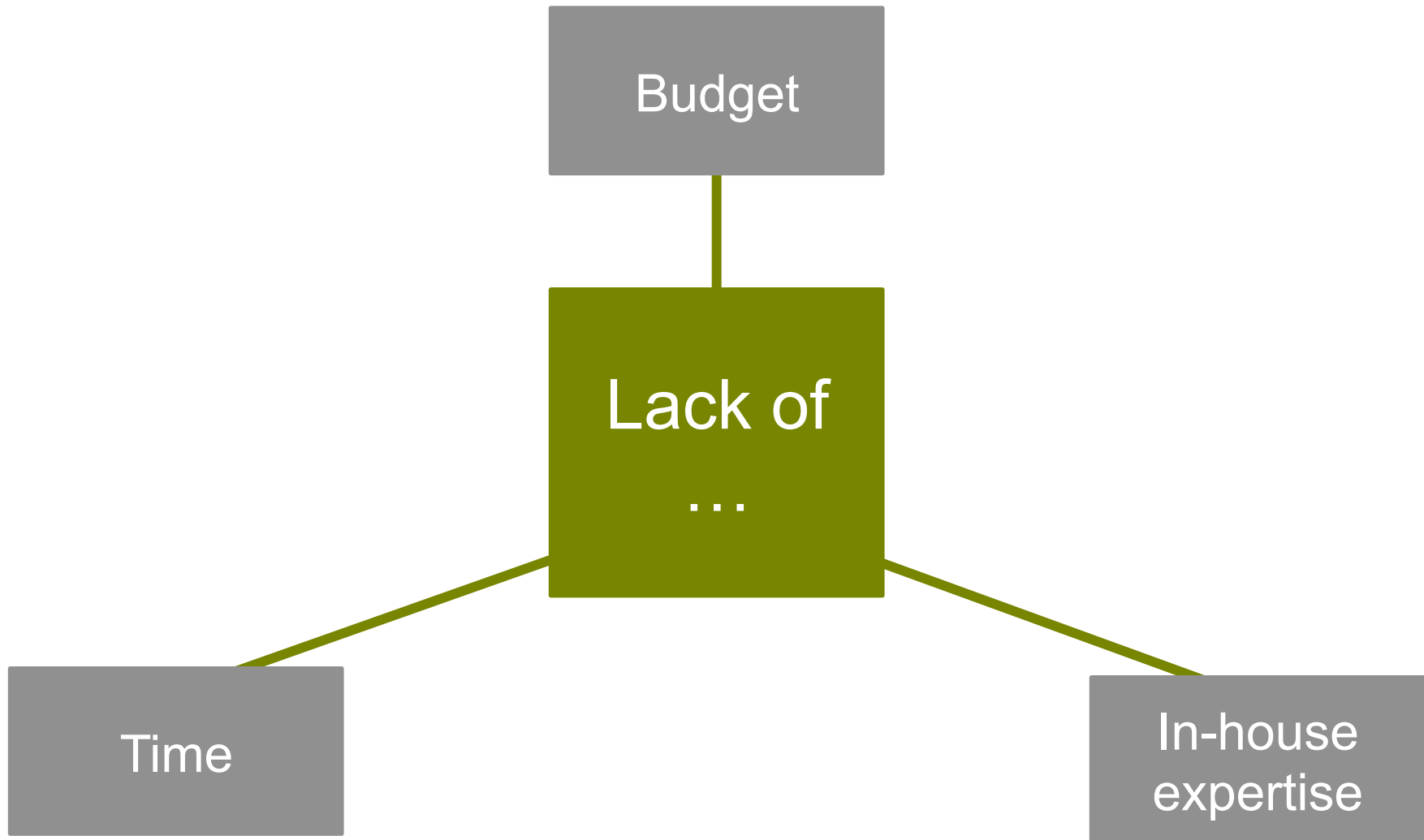
LCM 2013

REALIZATION OF LCA IN BUSINESS – LIFE CYCLE SIMULATION MODELS FOR PRODUCT OR TECHNOLOGY DESIGN

Gothenburg – 27/08/2013

Life Cycle Thinking and Industry

Main obstacles



Life Cycle Thinking and Industry

Essentials of LCA

Science

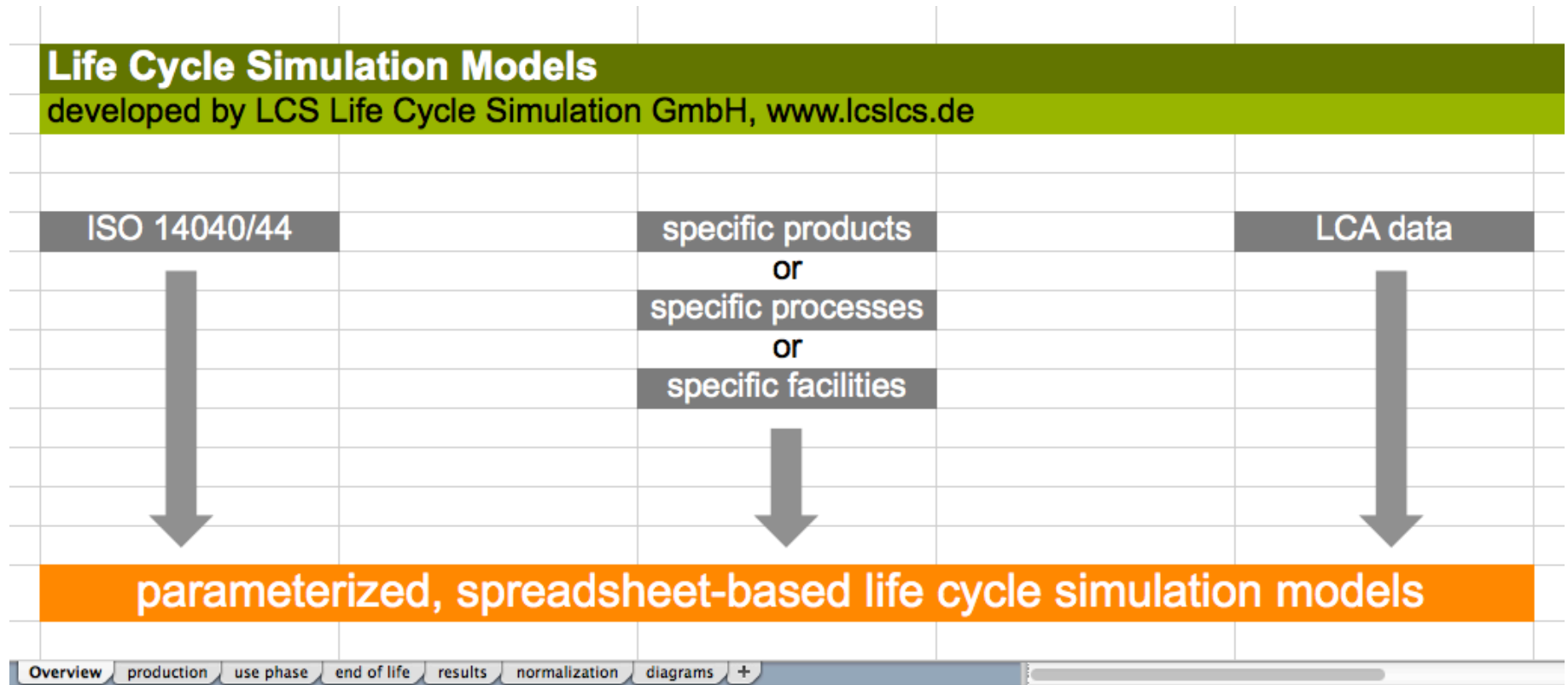
ISO compliance
scientific standards
accuracy
representativeness
transparency
meaningfulness
comparability

fast and flexible
implementable
low cost
little training
easy to use
self-explanatory
comprehensive data

Practitioners

Life Cycle Thinking and Industry

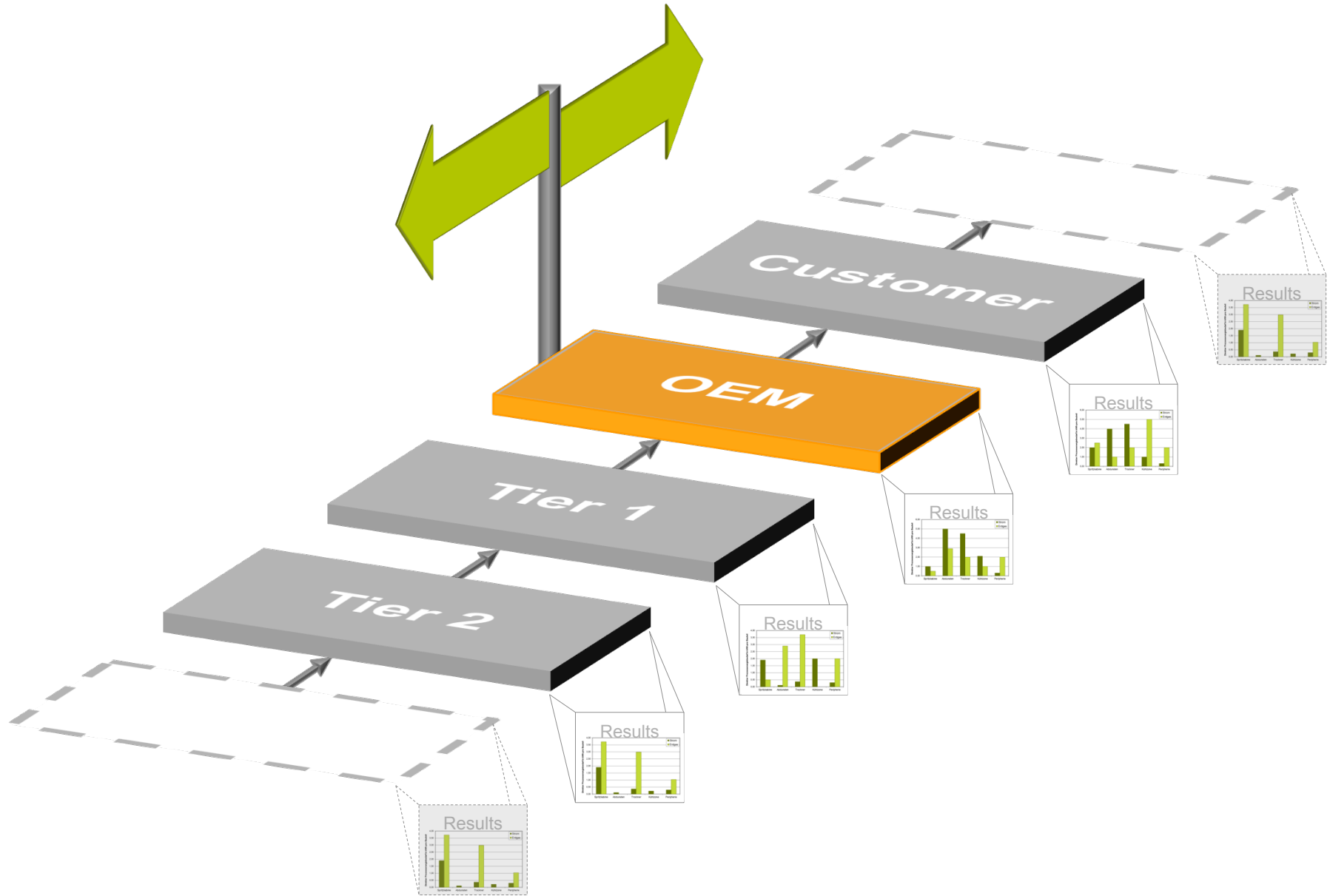
Missing link



Not simplified, but customized

Spreadsheet-based life cycle models

Any level of detail at any stage



Spreadsheet-based life cycle models

Key characteristics

- ✓ ISO compliance
- ✓ scientific standards
- ✓ accuracy
- ✓ representativeness
- ✓ transparency
- ✓ meaningfulness
- ✓ comparability

- fast and flexible ✓
- implementable ✓
- low cost ✓
- little training ✓
- easy to use ✓
- self-explanatory ✓
- comprehensive data ✓

Spreadsheet-based life cycle models

Implementation in business – case studies

BSH Bosch Siemens Hausgeräte GmbH, Munich
Product LCA

B/S/H/

Richard Henkel GmbH, Forchtenberg
Process LCA

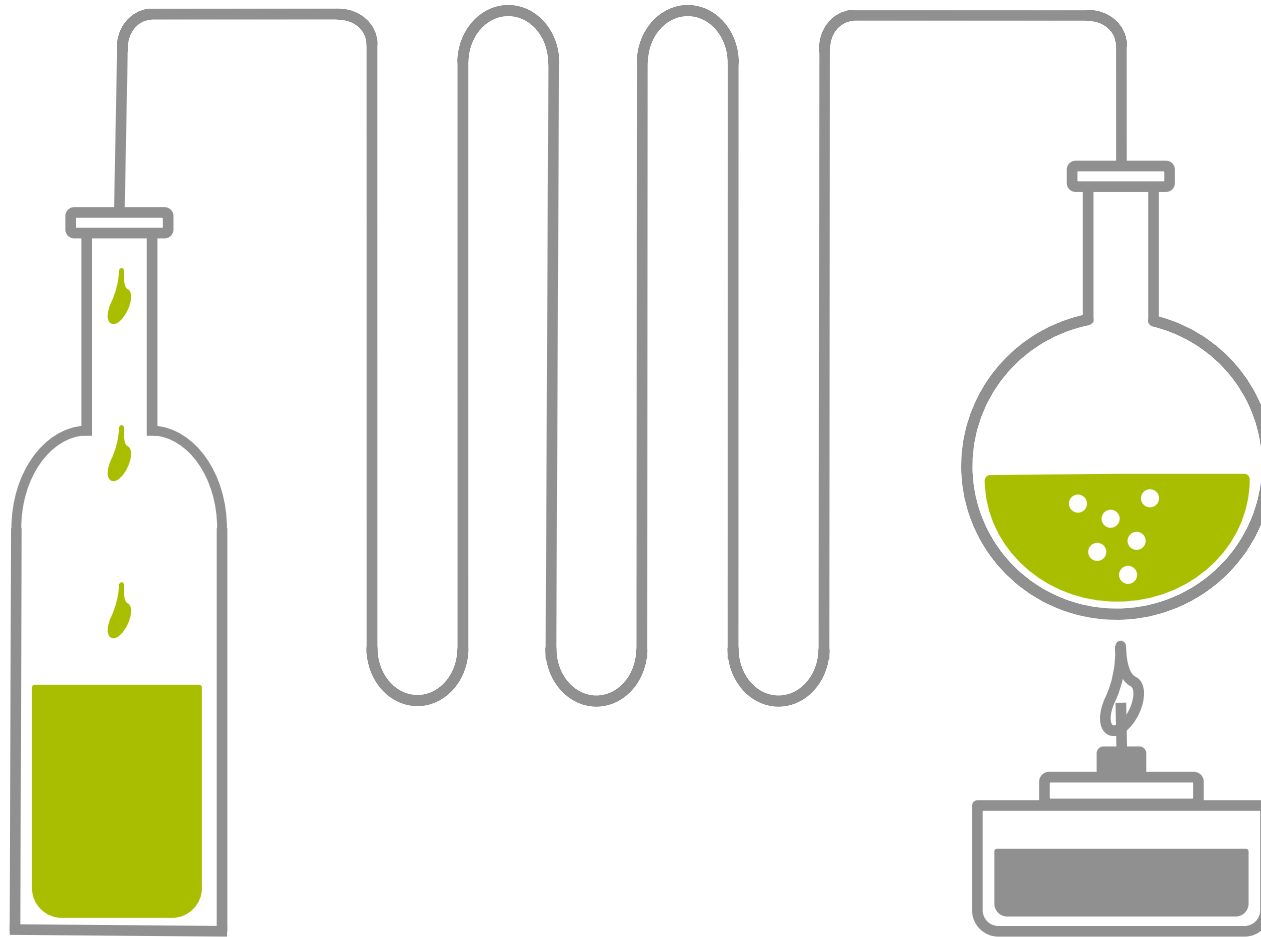
HENKEI

Innoshade Project, EU Com. - FP7
Future Technology Benchmark

INNOSHADE
INNOVATIVE SHADING DEVICES

Spreadsheet-based life cycle models

Conclusion



Take the essence of LCA and put it in spreadsheet-based, customized LCA tools

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