EuroFM 2013: BiM&FM

"Paradoxically, the best way for a group to be smart is for each person in it to think and act as independently as possible"

James Surowiecki, Wisdom of Crowds, 2004

Philipp Dohmen

Februar 2013



New paradigm...BIM?



"BIM (Building Information Modeling) is a methode of interdisciplinary collaboration based on a n-dimensional, virtual image of the construction, with the PUPPOSE of performace prediction, to simulate, evaluate and

optimize relevant ecomomic and ecological impacts (Quality, Cost, Time, Environment, Live Cycle) While planning, construction and Operation"



BIM BAM BOOM

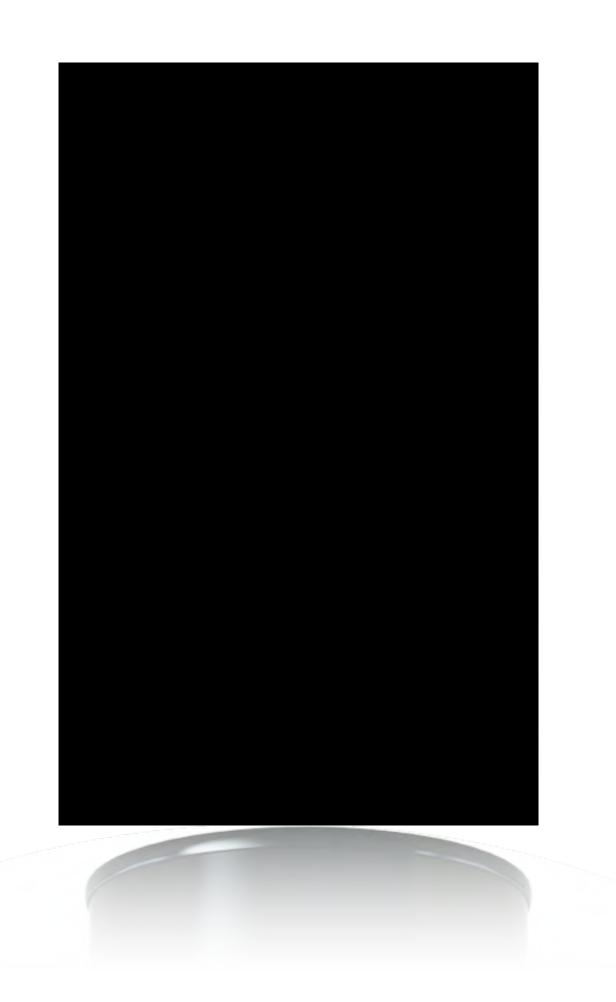


BIM BAM BOOM







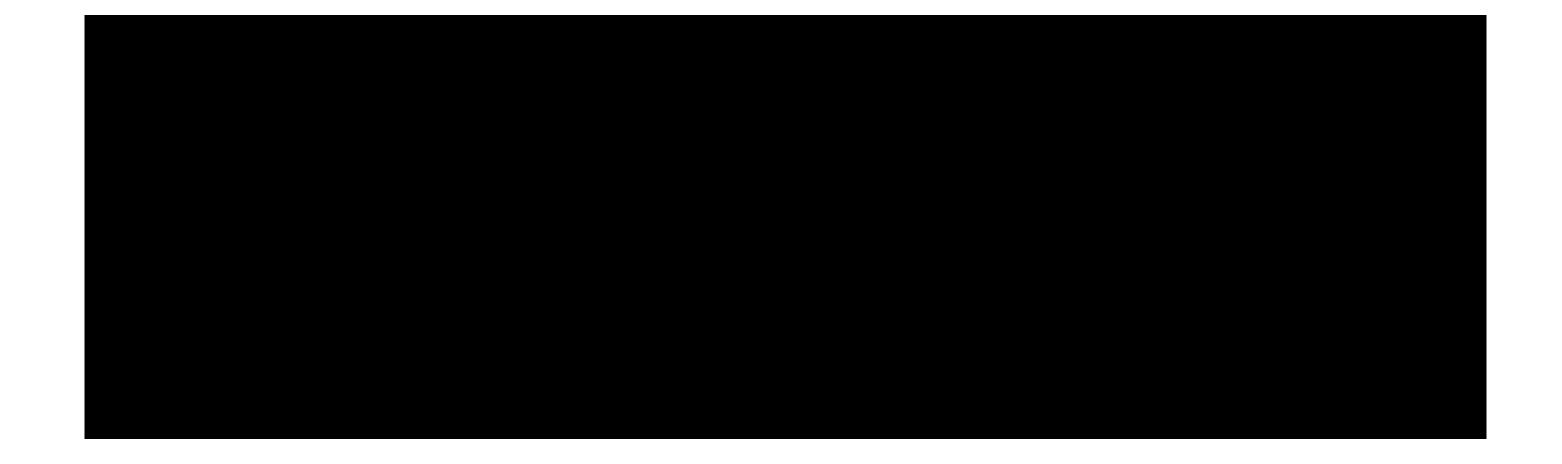




"Linking"



Fire





Space Travel





Lifespan



Global Market



"decode - aposua"

DREES & SOMMER

15 kg carbon
4 kg nitrogen
1 kg chalk
1/2 kg phosphor and sulfur
200 g salt
150 g potash und chlorine
plus 15 other materials
and 4 – 5 buckets of water

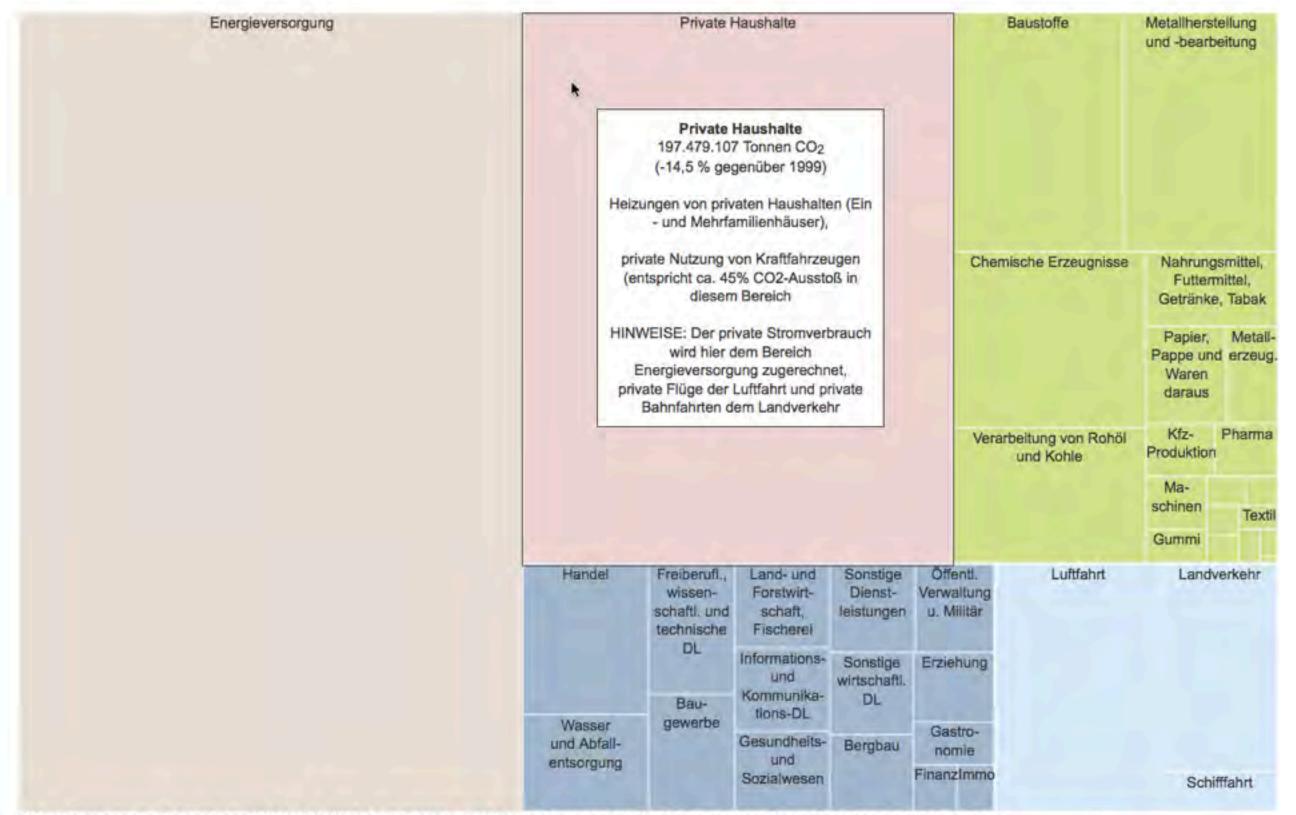


Bezüge sind alles. Bezüge sind das Leben.

Quote: J.W.v. Goethe



CO^2



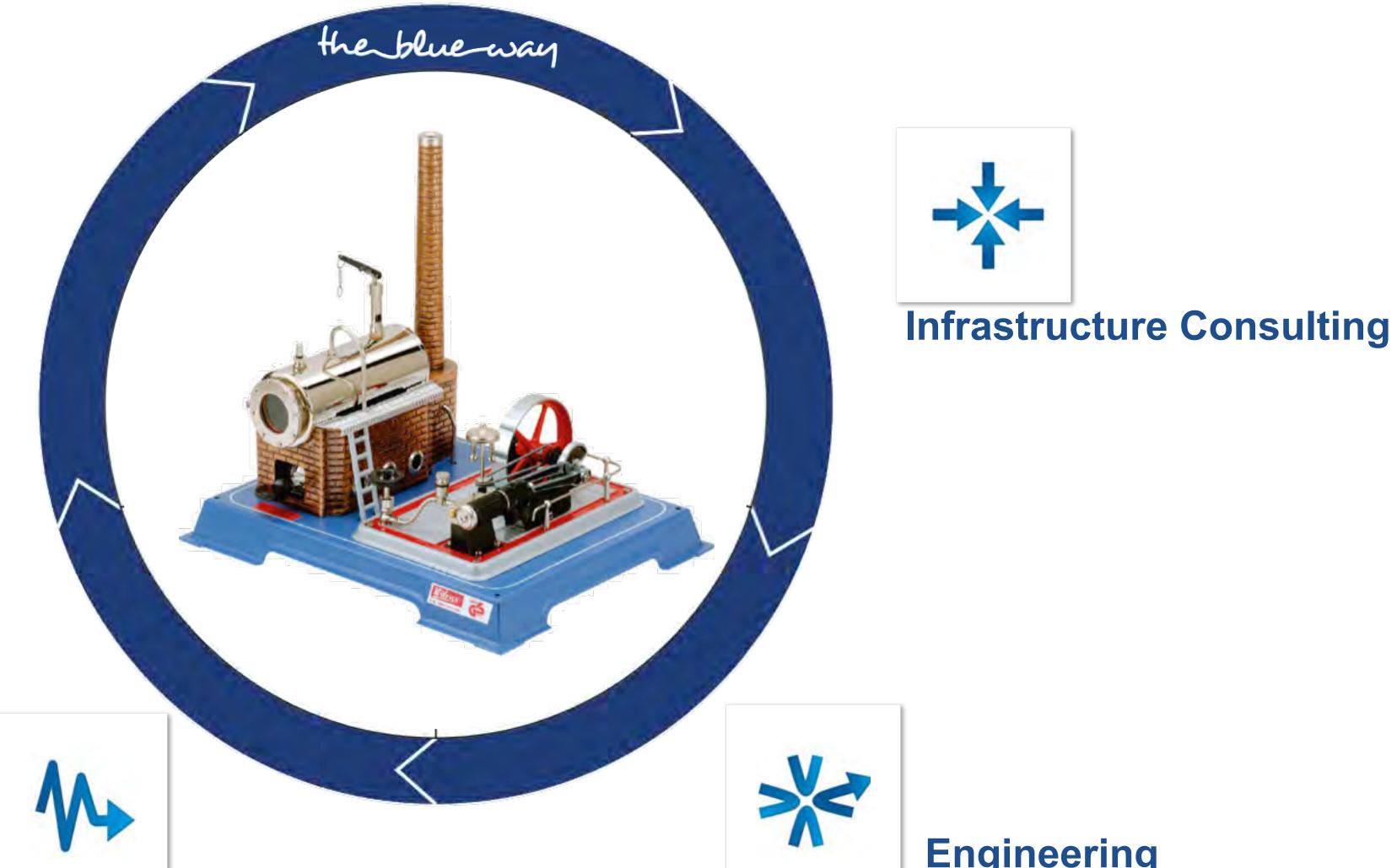
CO₂-Emissionen in Deutschland 2009. Für Details und prozentuale Veränderungen zu 1999 bitte mit dem Mauspfeil über die Flächen fahren.

Den kompletten Datensatz finden Sie in unserem öffentlichen Google-Doc. Die Klassifikationen der einzelnen Wirtschaftszweige liefert das Statistische Bundesamt.





Development Management



Engineering

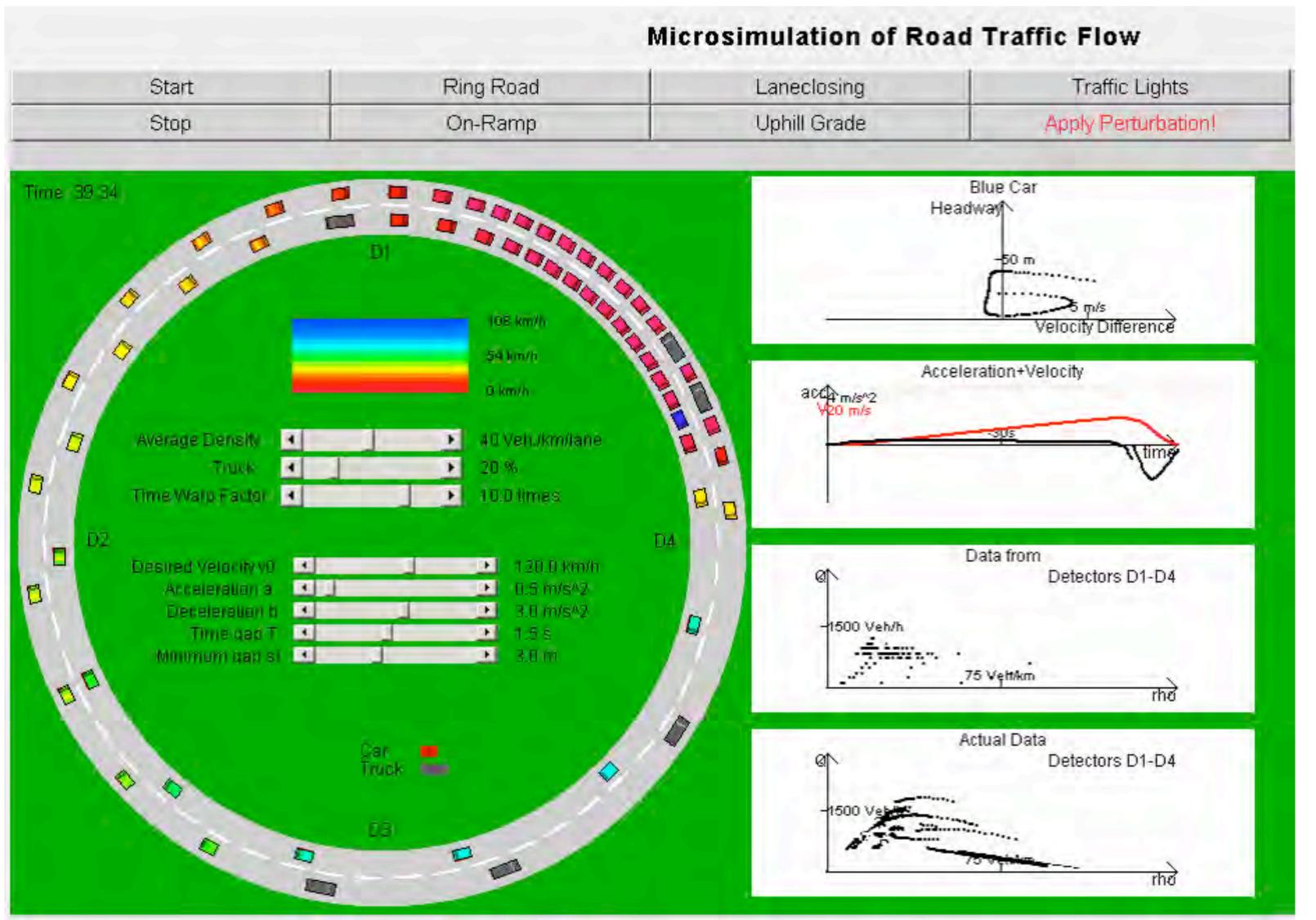
Projectmanagement

Real Estate Consulting

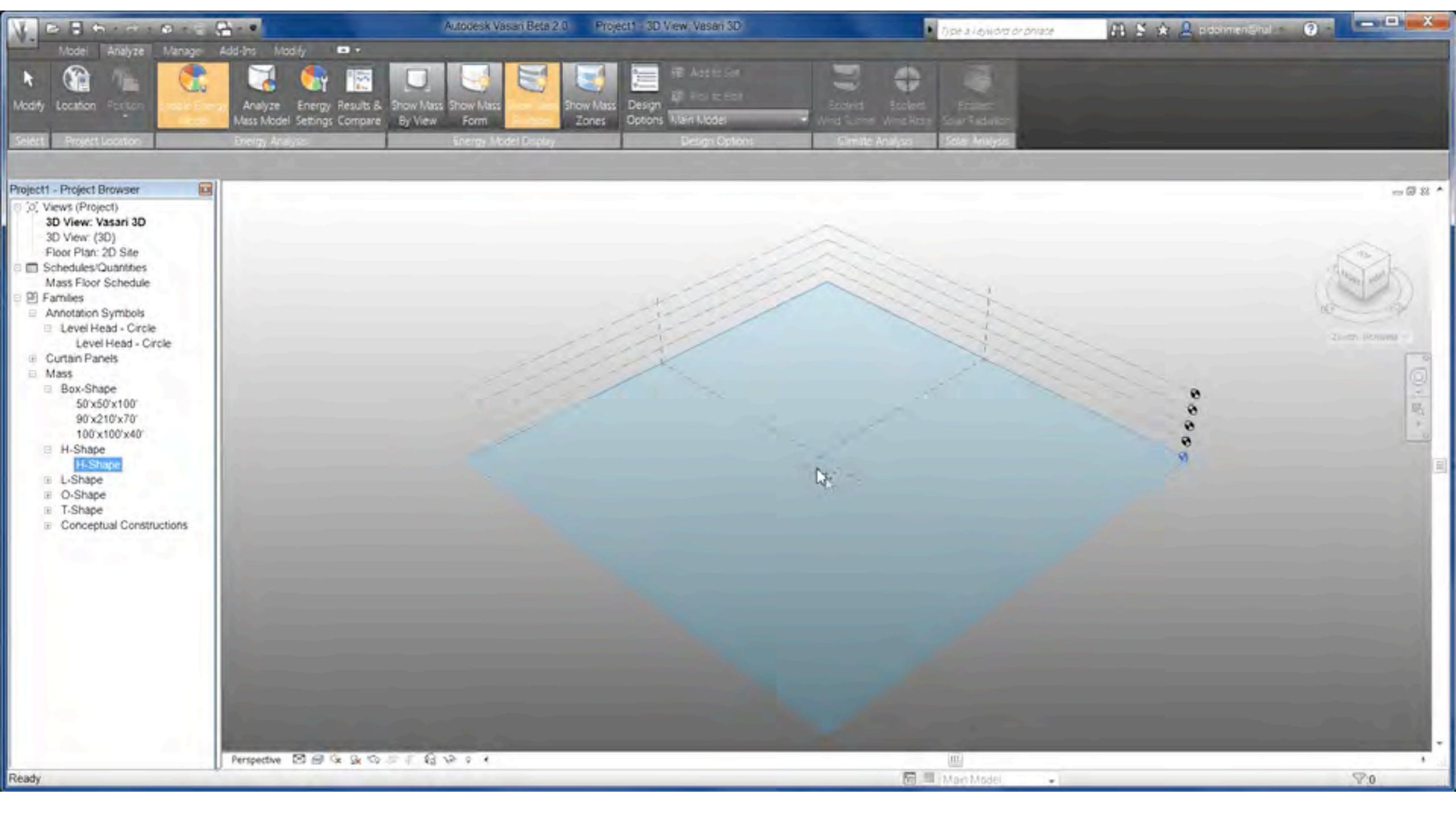


Successful systems become complex

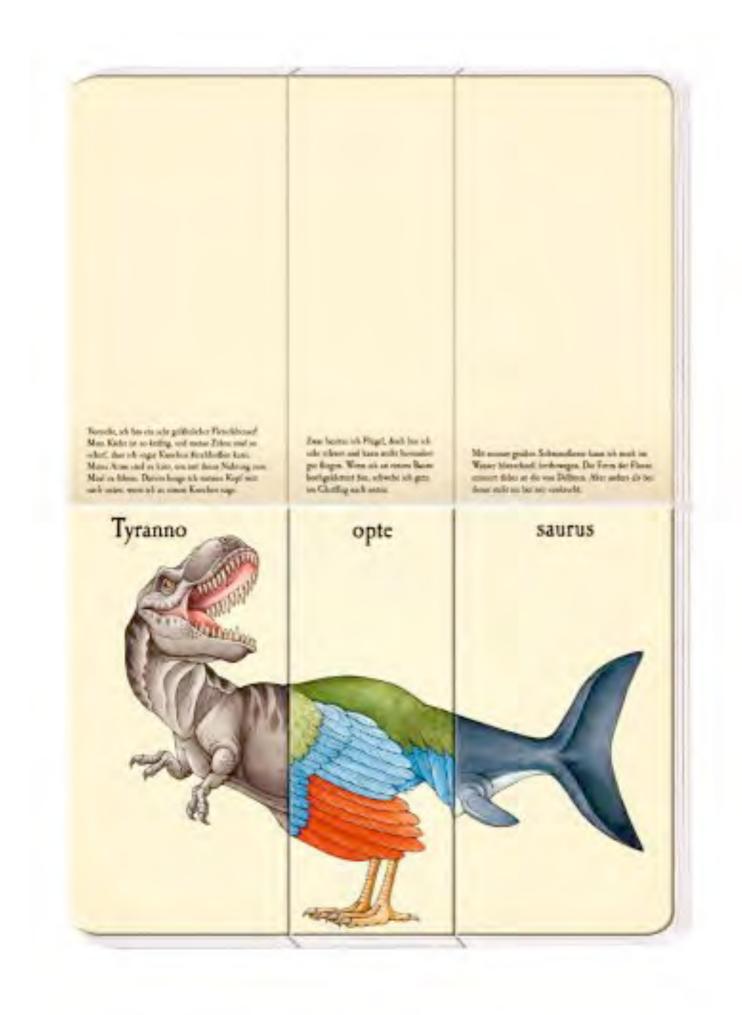




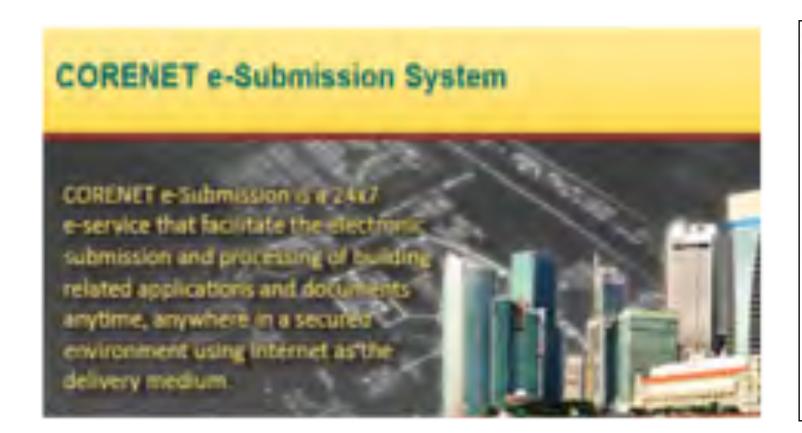
©TU Dresden

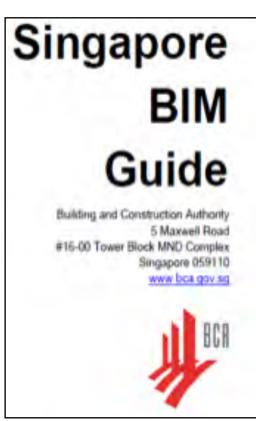


DREES & SOMMER















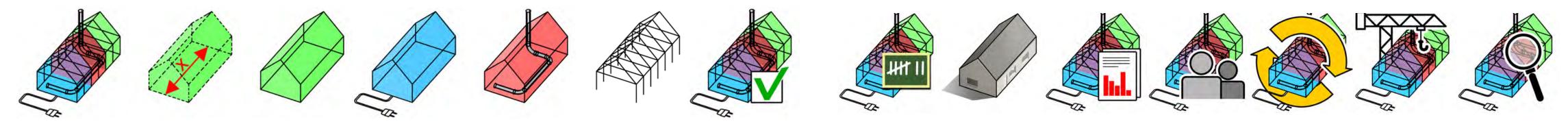
BIM International

Analysis

Country	Strategy	Status
- Denmark	-Public BiM Strategy	-all public Buildings more than 4 Mio. € must been build with Bim since 2008
 Netherland 	-Public BiM Strategie	-Building Applications of PPP Projects must be delivered in BiM since November 2011
Finland	-Cobim	-BIM is required for all Projects (above a certain level) since 2007
 Norway 	-Statsbygg Strategy	-all Statsbygg Projects, not using BiM need a exception from rule
-UK	-GB wants to become leading BiM country	-All public Projects > 5 Mio. must be using BiM since 01.01.2012.
- Germany	-First German BiM Guidline in cooperation with US Army Corp	-Guideline for US Militay Hospitals in Germany



- 1. General BIM Requirements
- 2. Modeling of the Starting Situation
 - 3. Architectural Design
 - 4. MEP Design
 - 5. Structural Design
 - 6. Quality Assurance
 - 7. Quantity Take-off



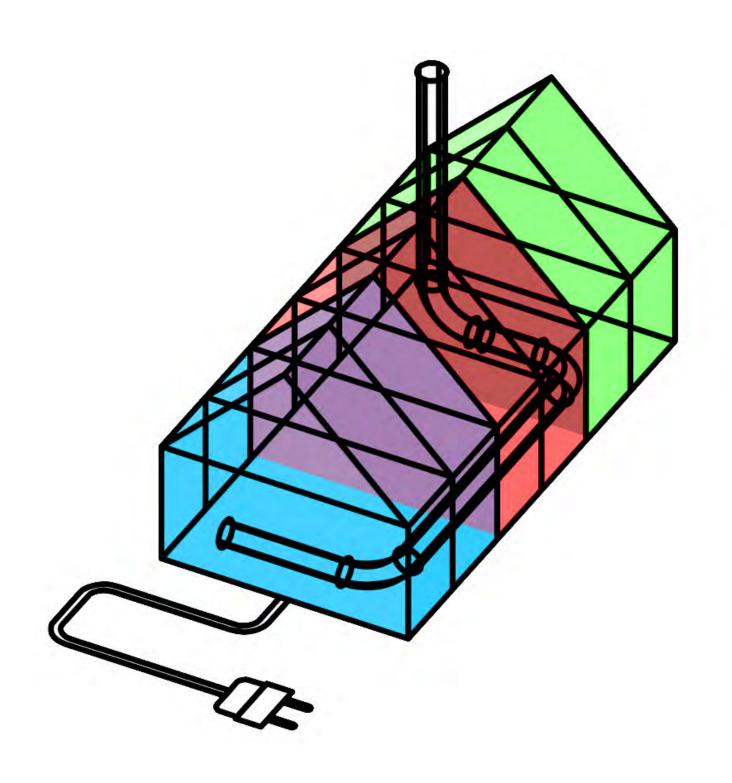
- 8. Use of Models for Visualization
- 9. Use of Models in MEP Analyses
 - 10. Energy Analysis
- 11. Management of a BIM Project
- 12. Use of Models in Facility Management
 - 13. Use of Models in Construction
- 14. Use of Models in Building Supervision





COBIM Common BIM Requirements 2012

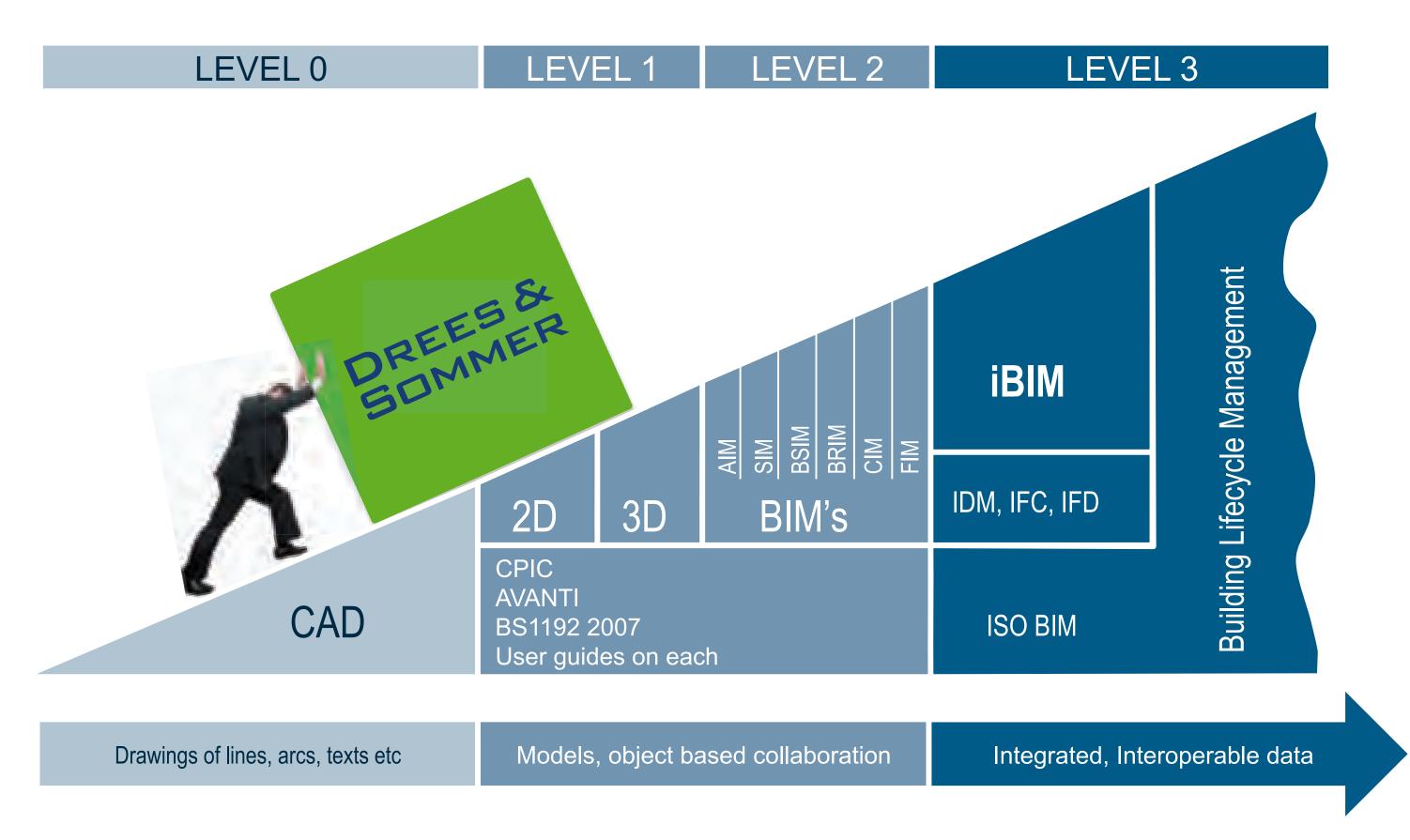
v 1.0







DREES & SOMMER



© Bew & Richards 2008



"New paradigm,…..lt's like new sex. There just isn't any such thing."

Quote: Warren Buffet





Philipp Dohmen