# Light Weight Simulation

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#### **Abstract**

Many simulations suffer from the fact that the investment and the maintenance costs more than the harvested value of the simulation results. In this presentation we show a light-weight approach to simulation. Key success factors are discussed to keep the simulation light-weight and to get useful results nevertheless.

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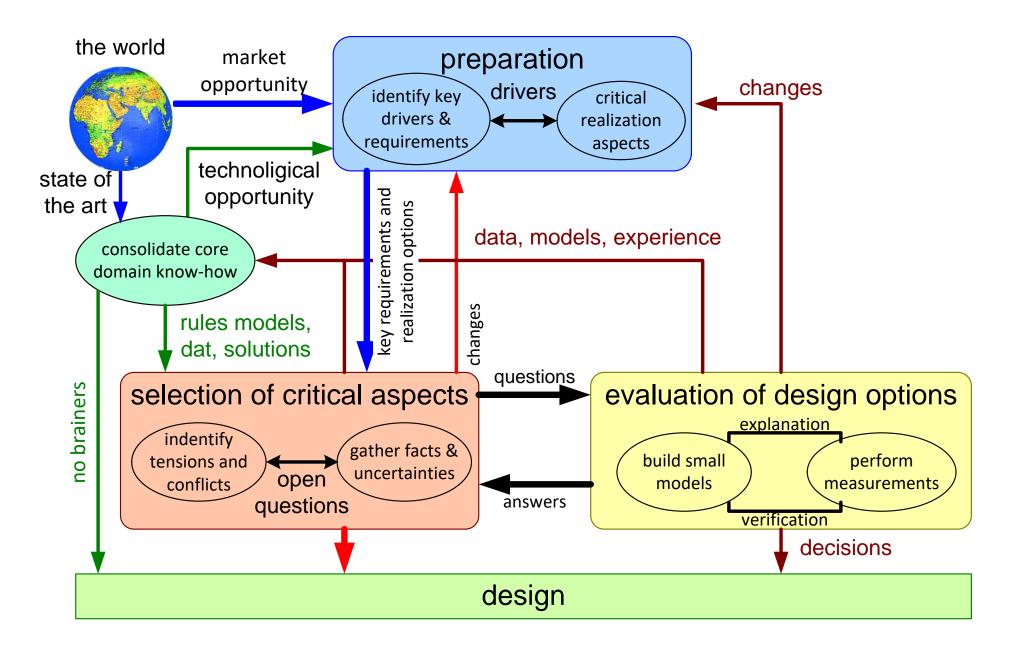
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## High Level Method





# High Level Method Stepwise

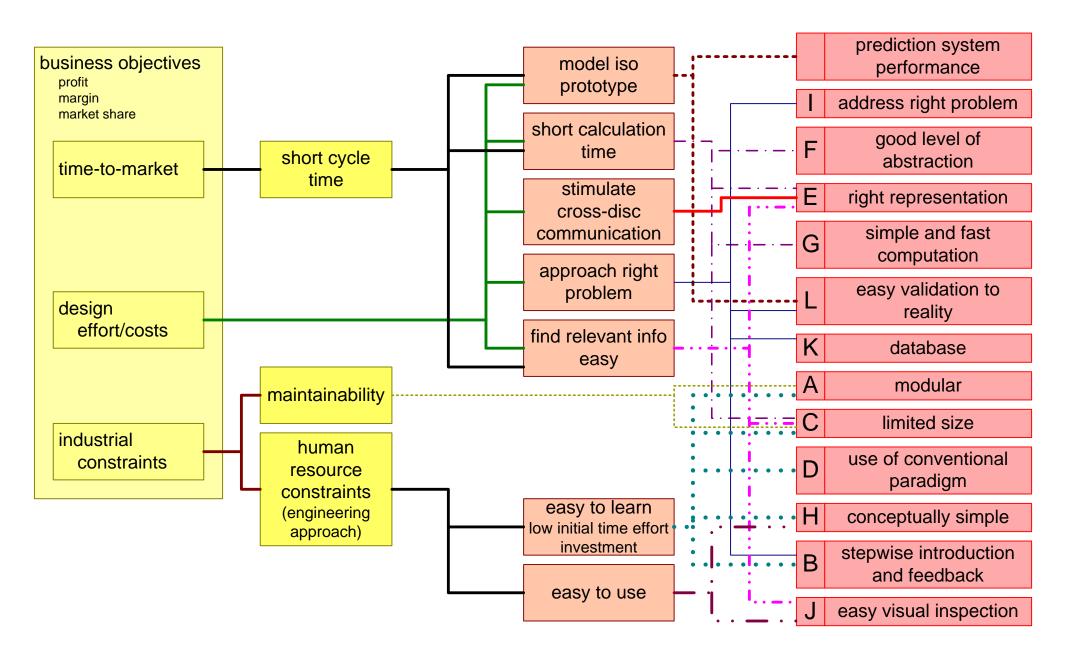
1A. Identify (customer) key drivers	in terms of stakeholders and concerns
1B. Identify critical realization aspects robus	for instance due to cost, performance, tness, technological maturity, et cetera
1C. Consolidate core domain know how	make implicit know how explicit
2A. Identify tensions and conflicts	
2B. Gather facts, identify uncertainties	figures of merit, design rules
3A. Build small models hours weeks	addressing tensions, using facts, and creating insight in the uncertainties
3B. Perform measurements	for calibration and validation

- Iterate many times
- Provide overview

by means of visualizations



#### Success Factors Light Weight Simulation





## Colophon

Light weight simulation is based on

research performed in the Boderc project.

Especially the work of

Jan Beckers (Océ) and Maurice Heemels (ESI)

has contributed.

