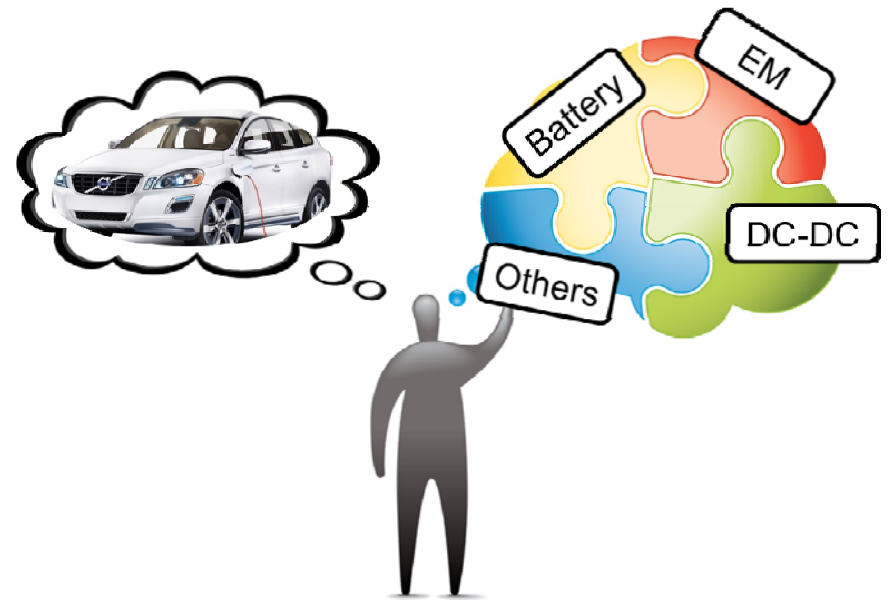




# FFI High Speed

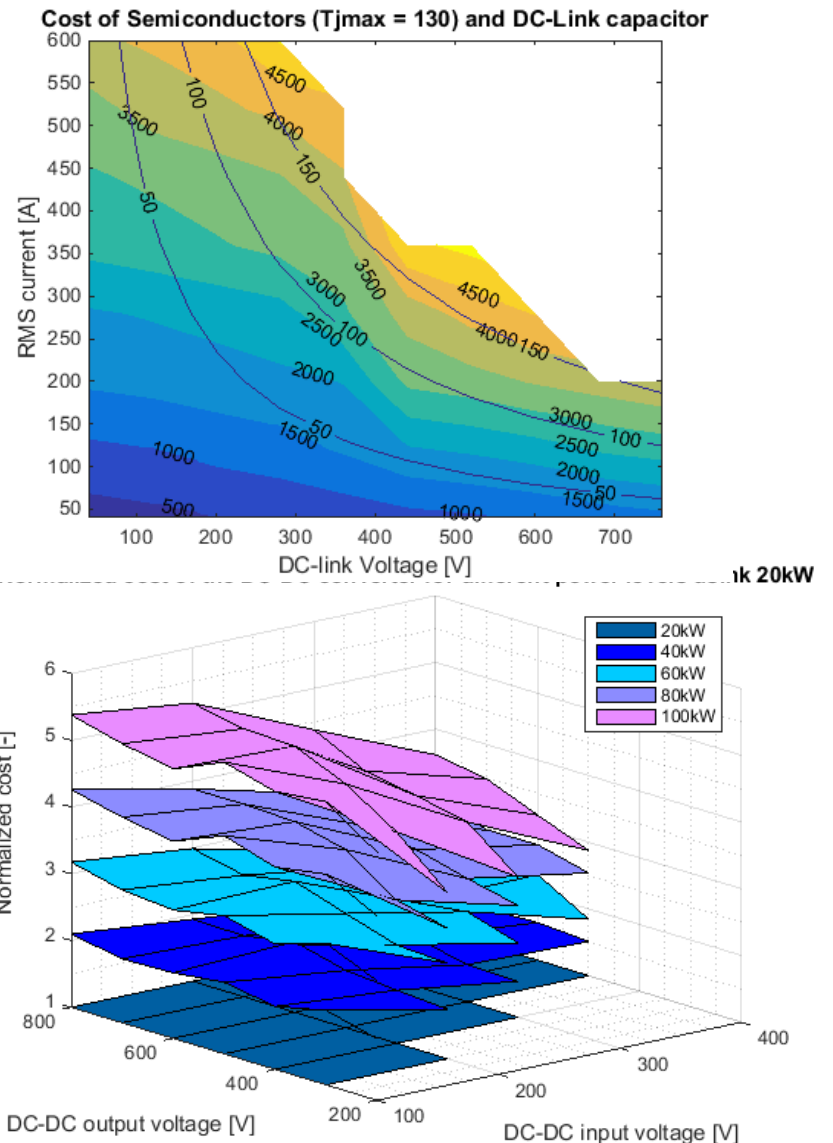
# Project Goal

- Optimize the electric powertrain of a HEV with special emphasis on cost minimization.
- Development of cost models for the main components of the drivetrain in order to study the trade-offs between performance and cost.



# Project Scope

- Development of cost models for electrical machines (EMs), power electronic converters (PEC), DC-DC converters, charger units and transmissions.
- Multi-objective optimization of a specific HEV using different driving cycles.



# Partners, Resources & Timeframe

- **Partners**

- Haldex BorgWarner

- **Resources**

- Power Systems lab @ Lund University

- **Timeframe:**

- Start: 2012-10-01
- Finish: 2015-11-30

# Contact Information ...

- **Project leader:**
  - Mats Alaküla
  - [mats.alakula@iea.lth.se](mailto:mats.alakula@iea.lth.se)
  - +46 46 222 92 84
- **Other Staff** (Supervisor, PhD student, ...)
  - Avo Reinap
  - [avo.reinap@iea.lth.se](mailto:avo.reinap@iea.lth.se)
  - Gabriel Domingues
  - [gabriel@domingues.se](mailto:gabriel@domingues.se)
  - +46 46 222 31 05
- **Secretary**
  - Carina Lindström
  - [Carina.lindstrom@iea.lth.se](mailto:Carina.lindstrom@iea.lth.se)
  - +46 46 222 92 90



# More material:

- **Papers:**

- <http://iea.lth.se/publications/pubpap.html>