

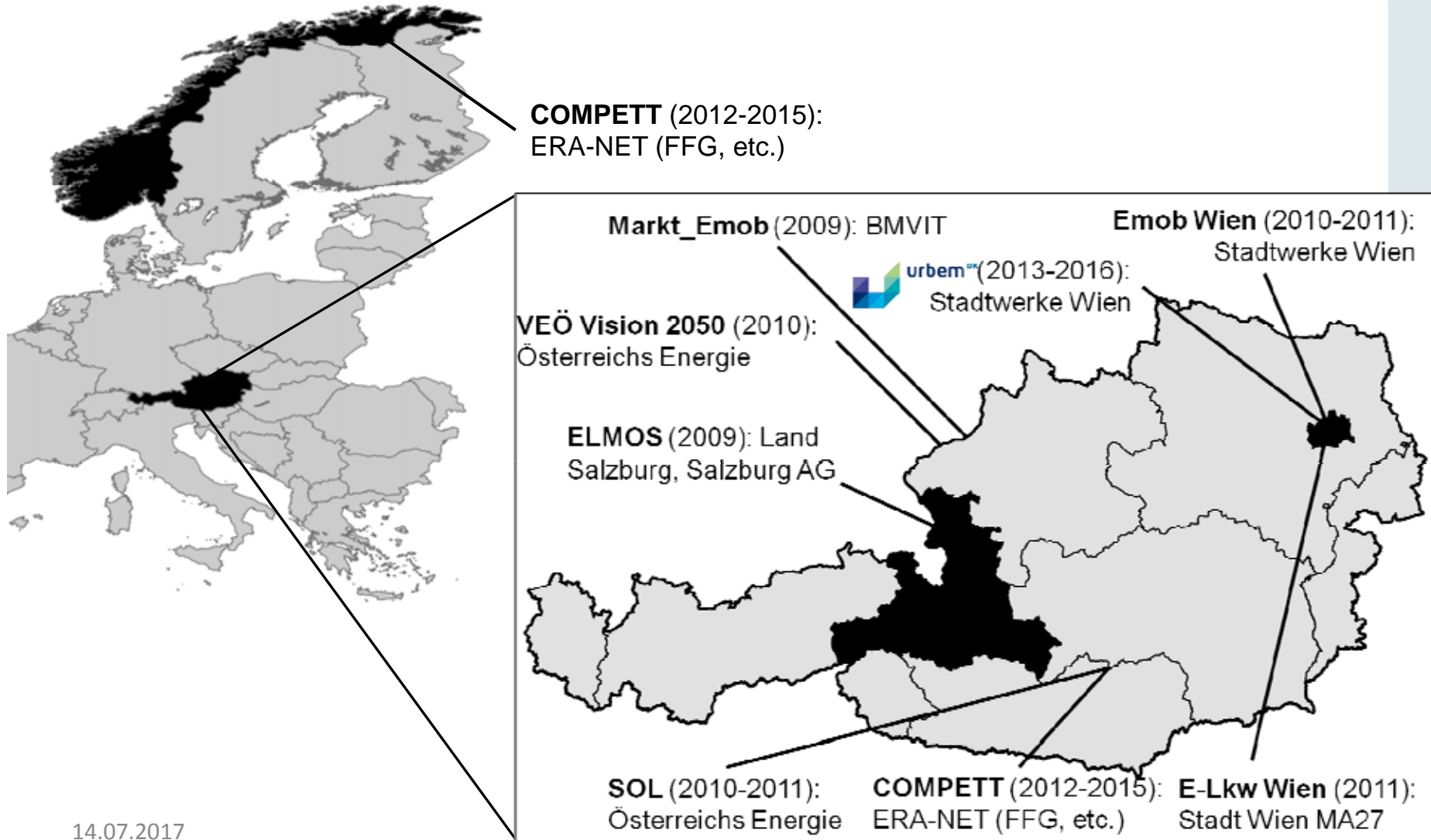
## SERAPIS (Simulating the Emergence of Relevant Alternative Propulsion technologies in the car and motorcycle fleet Including energy Supply)

- **Start of development:** 2009
- **Topic:** Modelling consumer choice of propulsion technology (ICE, PHEV, BEV)
- **Coverage:** Austria (9 counties), Norway (428 districts)
- **Background:** Pre-feasibility study e-mobility on behalf of the Austrian Ministry for Transport, Innovation and Technology
- **Link:**  
e.g. <http://compett.org>



# SERAPIS (Simulating the Emergence of Relevant Alternative Propulsion technologies in the car and motorcycle fleet Including energy Supply)

- Overview case studies



- **Vehicle characteristics:**

- Propulsion technology:

- ICE: internal combustion engine incl. non-plug in hybrids (e.g. Prius)
- PHEV: plug in hybrid & range extender veh. (e.g. Prius Plug In, Volt)
- BEV: battery electric vehicles

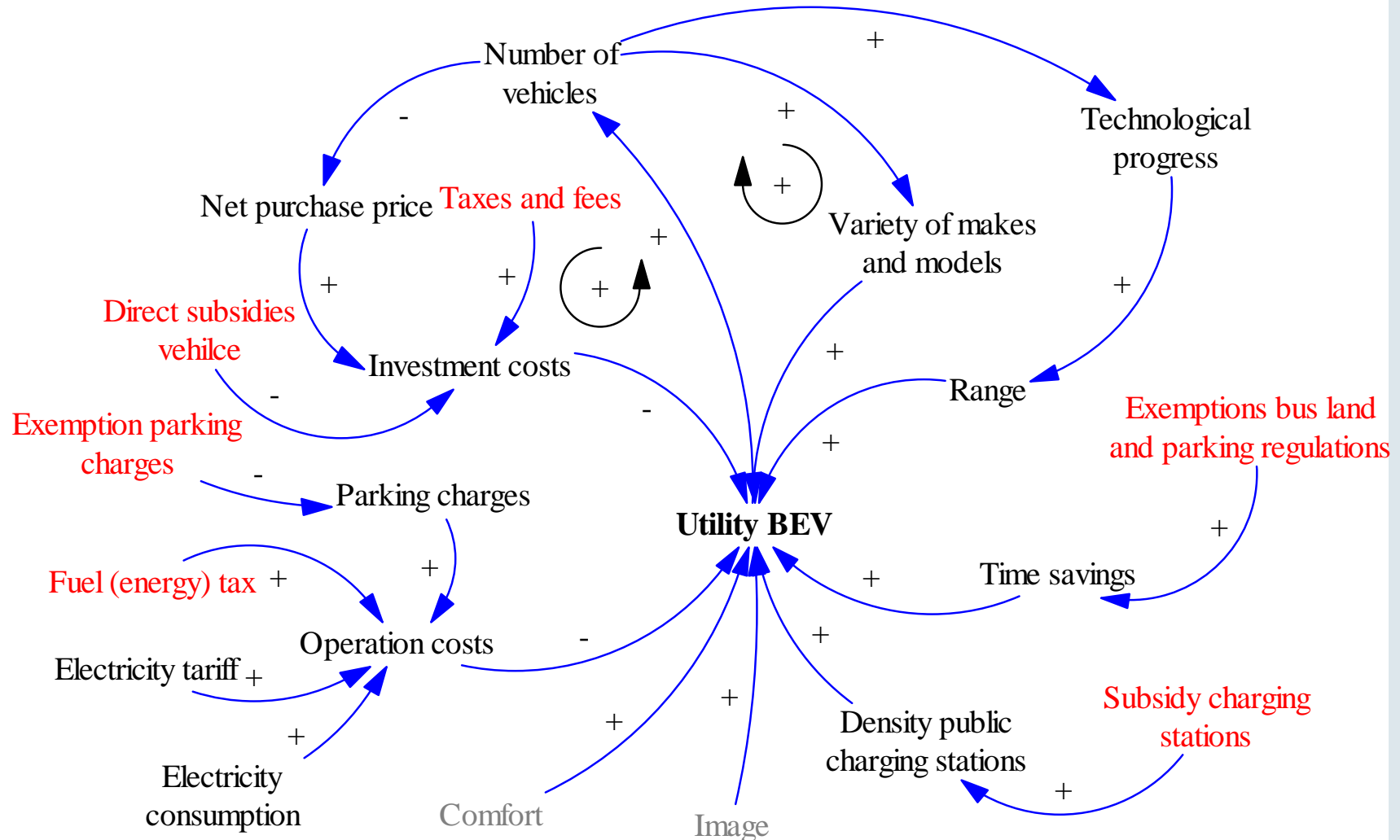
- Utilisation:

- 1<sup>st</sup> (or only) car
- 2<sup>nd</sup>+ car

- Size:

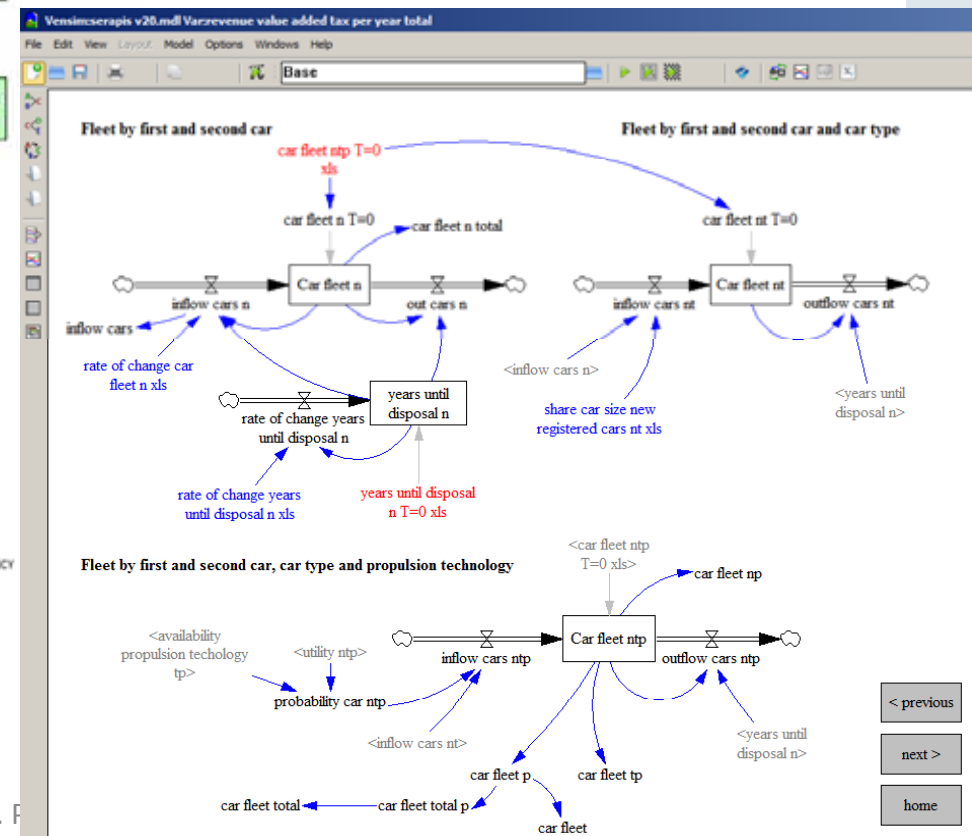
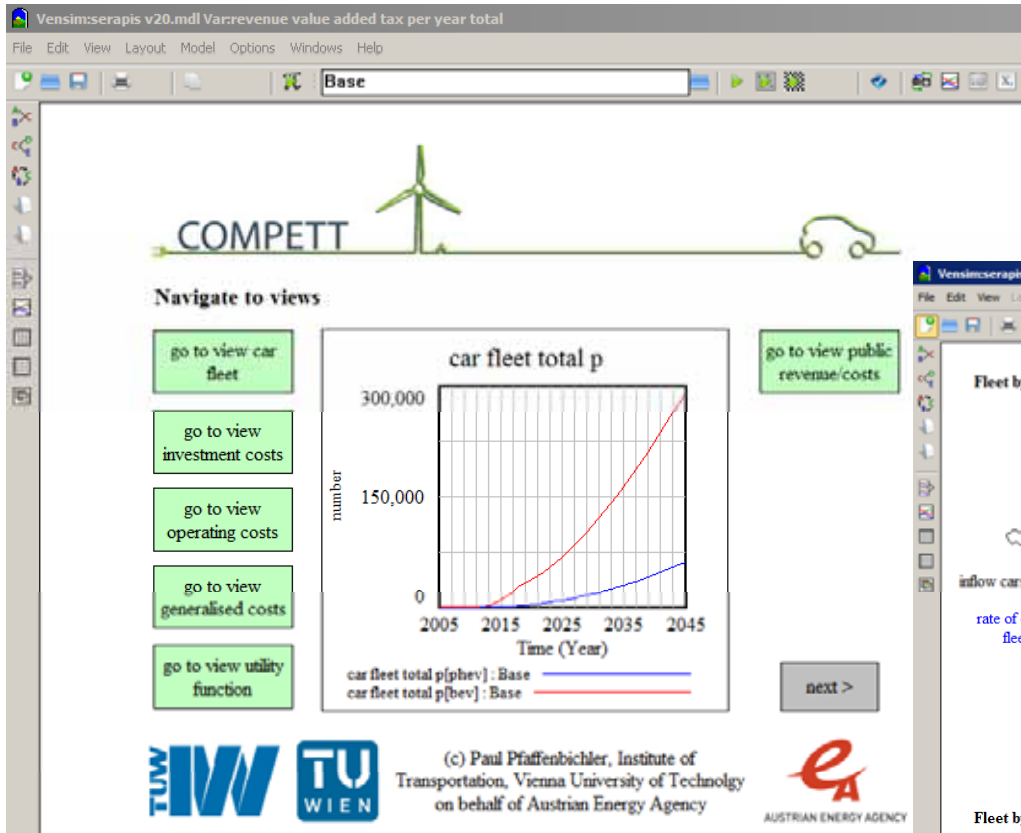
- Compact (from micro-cars up to cars like Renault Clio, Volkswagen Polo etc.)
- Family (from Volkswagen Golf, Ford Focus, etc. up to BMW 3, Mercedes C, etc.)
- Luxury (BMW 5 and 7, Audi A6, A7 and A8, Mercedes E and S, Ferrari, Lamborghini, BMW X series, Jeep Wrangler, etc.)

- Causal loop diagram utility BEV



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- Quantitative stock flow modelling



# SERAPIS (Simulating the Emergence of Relevant Alternative Propulsion technologies in the car and motorcycle fleet Including energy Supply)

- Comparison Modelling Results - Statistics

