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CA B1.1: Integration of new Urban Transport

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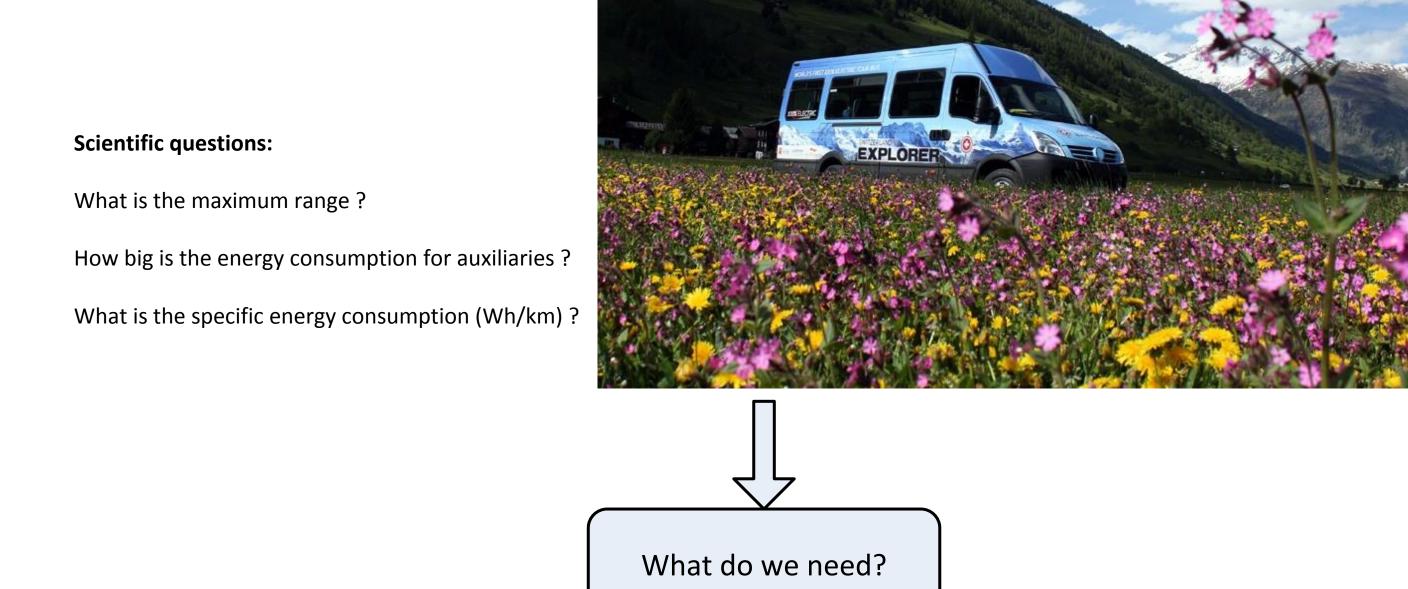
Electro bus for the future (Light Tram)



Electrical Mobility in 2014: The "Switzerland Explorer"

Electrical characteristics

150 [kW] Power: 100 [km/h] Max. speed: 4400 [kg] Weight 16 Passengers Load: 99 [kWh] Battery:



An universal measurement's equipment

Cars

E-Bikes

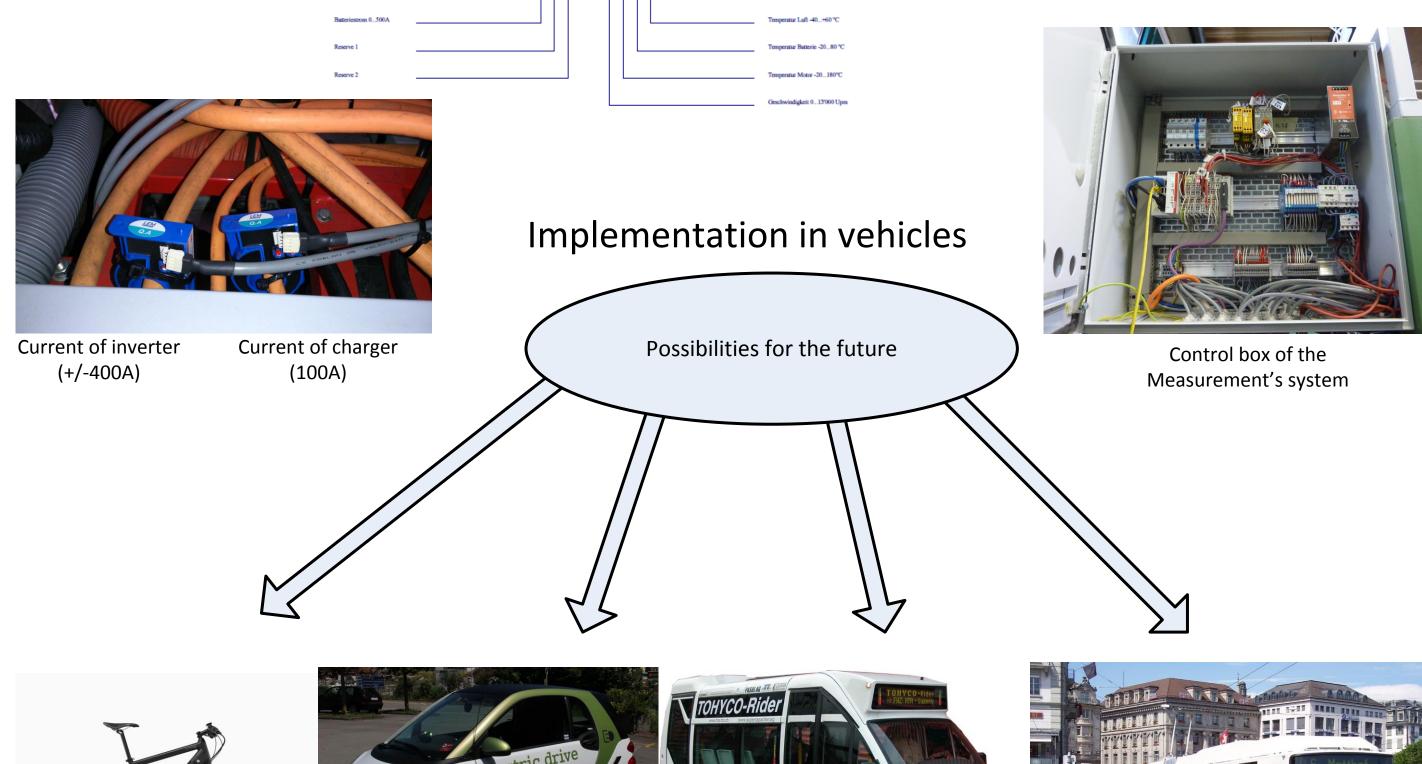
Main possibilities:

- Position / time / speed and altitude with a GPS datalogger
- Time synchronisation with NTP-Server
- Up to 4 voltage-measurements
- Up to 4 current-measurements - Up to 8 temperature-measurements

- Interface with internal CAN-Bussystem

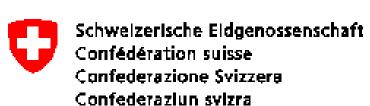
Trolleybus

- Counter for energy and capacity
- of batteries



In cooperation with the CTI

Swiss Competence Centers for Energy Research



Swiss Confederation

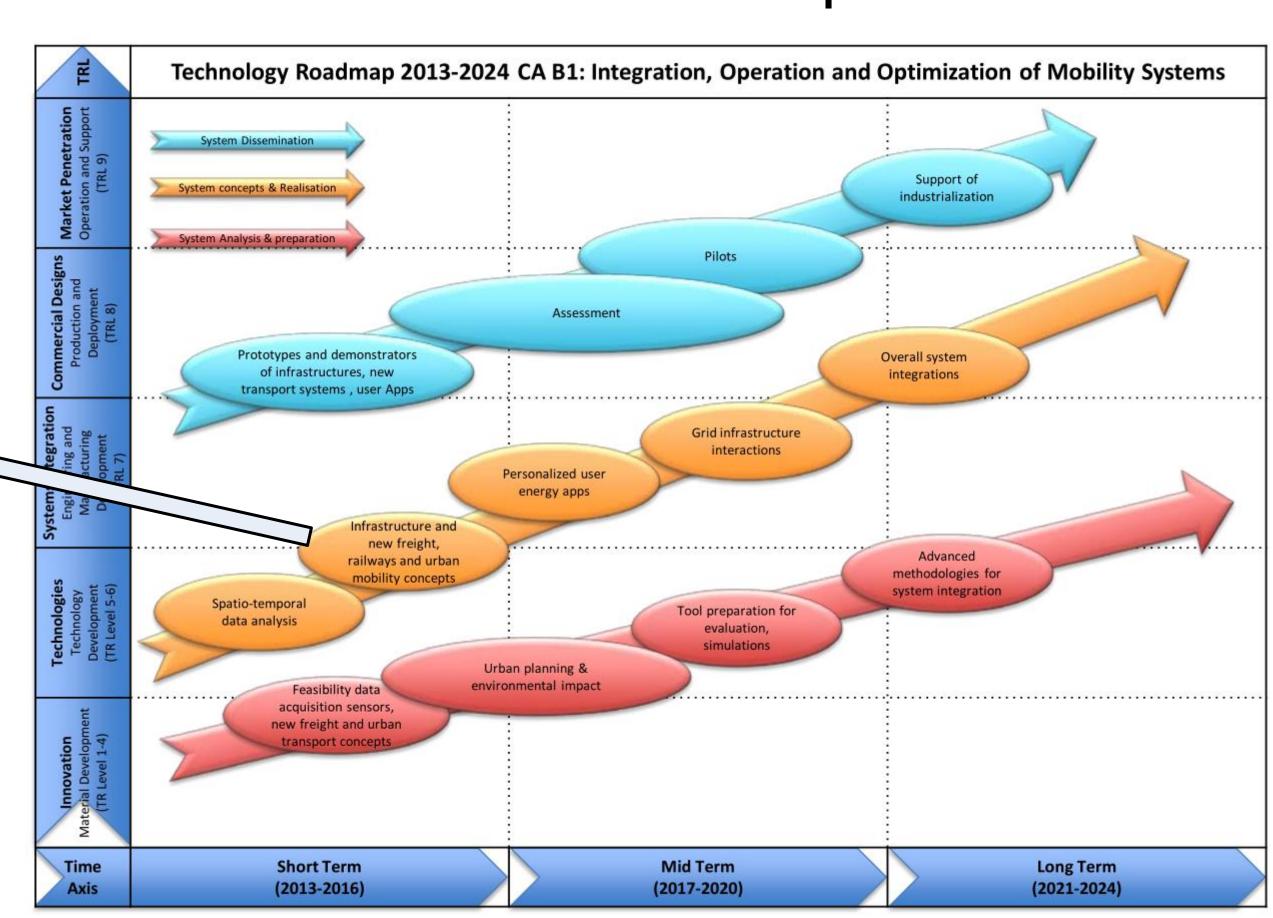
Commission for Technology and Innovation CTI

Lucerne University of Applied Sciences and Arts

HOCHSCHULE LUZERN

Technik & Architektur CC Integrale Intelligente & Effiziente Energiesysteme

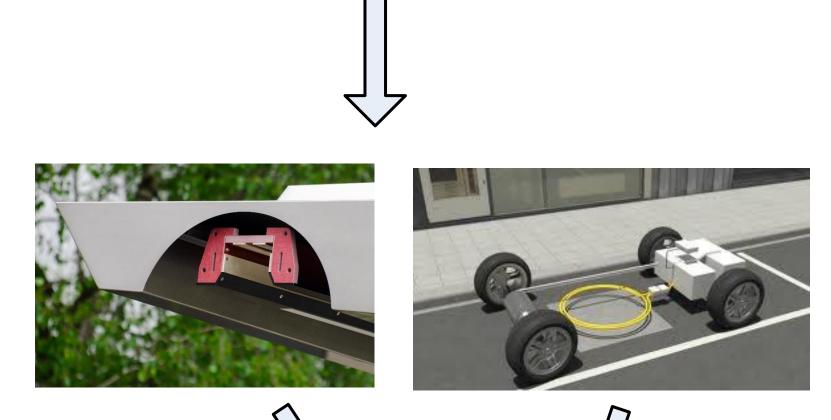
The Roadmap

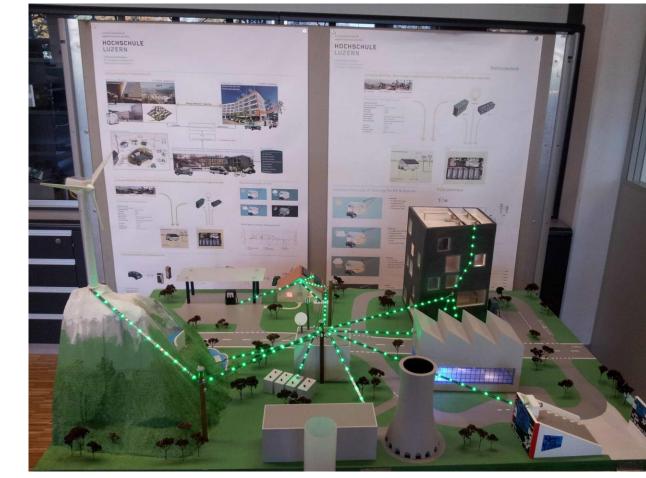


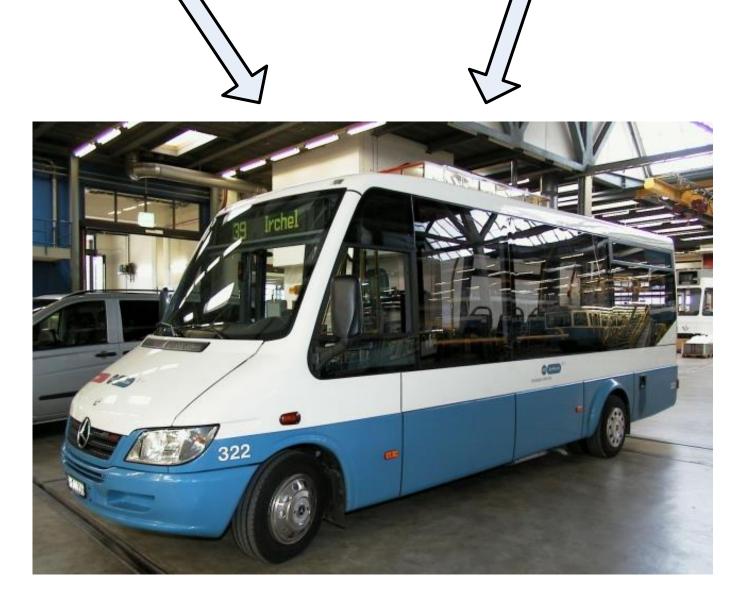
Infrastructure in 2014 PV-Module ⇔ Accumulator ⇔ Grid

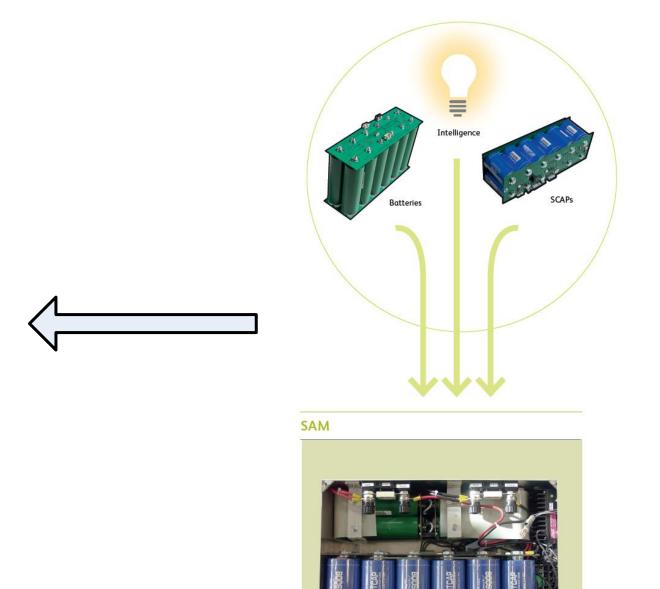












New Small Electro Bus for Zürich (VBZ) 2015-2017

