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norden
Energy & Transport

“the RekkEVidde”

Assessing Range and Performance of Electric Vehicles in Nordic Driving Conditions

“the RekkEVidde” Objectives

- Produce realistic performance figures for EVs attributed to Nordic driving and weather conditions
- Agree what kind of additional testing is done for EV’s apart from the regulatory test (ECER No. 101)

Create market acceptance for EV´s

Consortium

Coordination

greennet FINLAND

Laboratory testing

VTT

Field testing

TSS
Test Site Sweden

toi
Transportøkonomisk institutt
Stiftelsen Norsk senter for samferdselsforskning

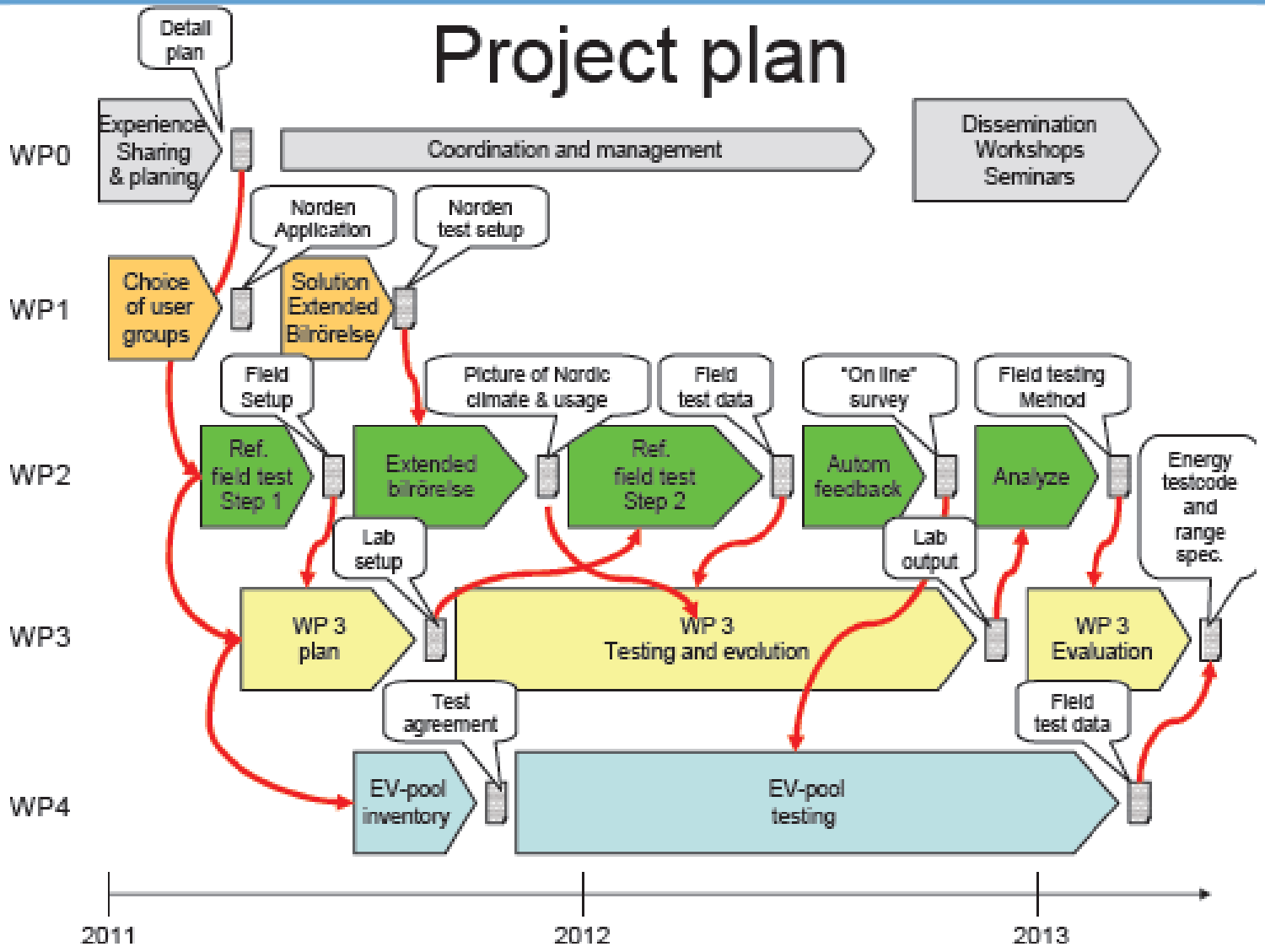
STOCKHOLMS STAD

ÍSLENSK NÝORKA ehf
ICELANDIC NEW ENERGY Ltd.

Project content

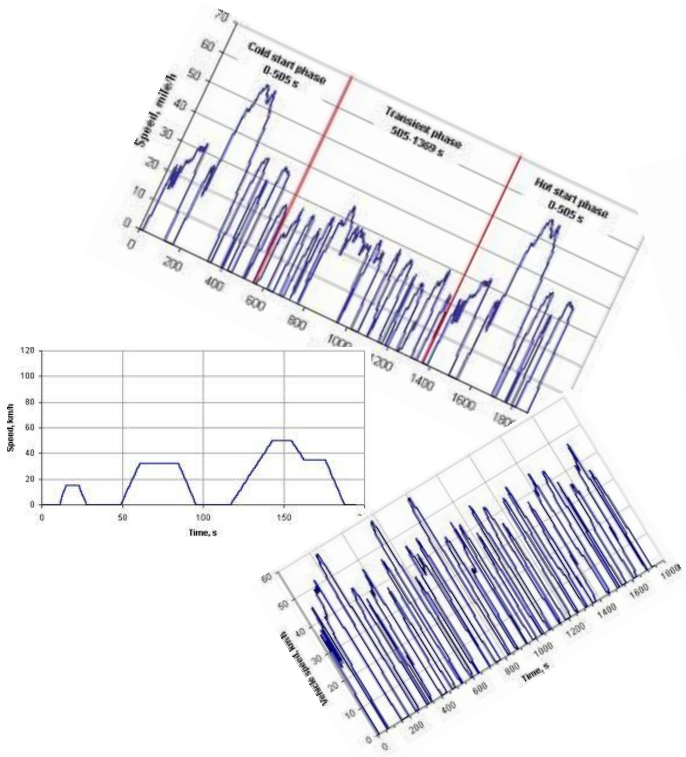
WP0 Coordination and Dissemination
WP1 Duty cycle analysis
WP2 Test protocol tools
WP3 Application of the laboratory test protocol on 3 EV types
WP4 Field test of EV pool

Project plan

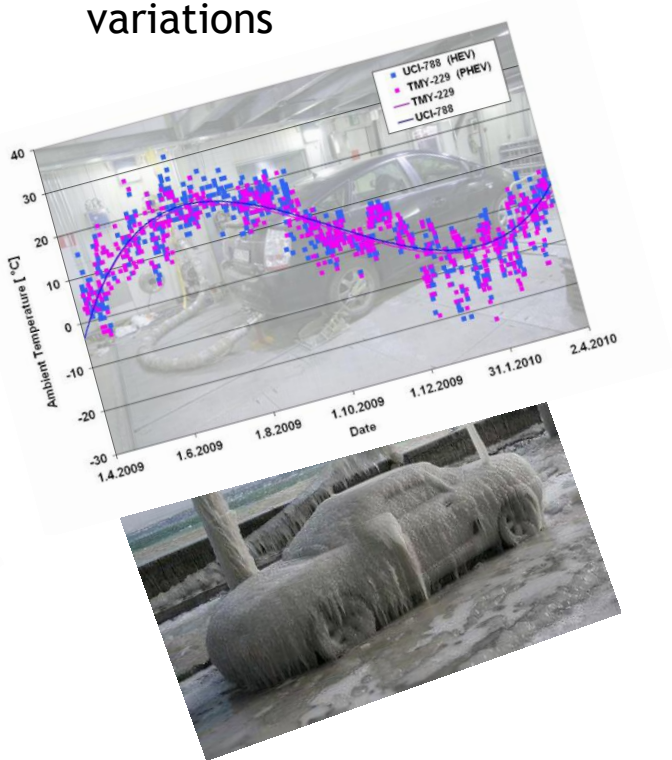


WP1 Duty cycle analysis

Study of the Driving Cycles



Temperature &road condition variations



Typical trips&loads

TSS: Bilrörelse

NORSTART

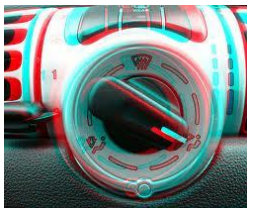
WP2 Test protocol tools

Field drive input from 80-100 ICE-vehicles will be logged

Test temperature and charging

Preheating of cabin during charge allowed at test protocol?

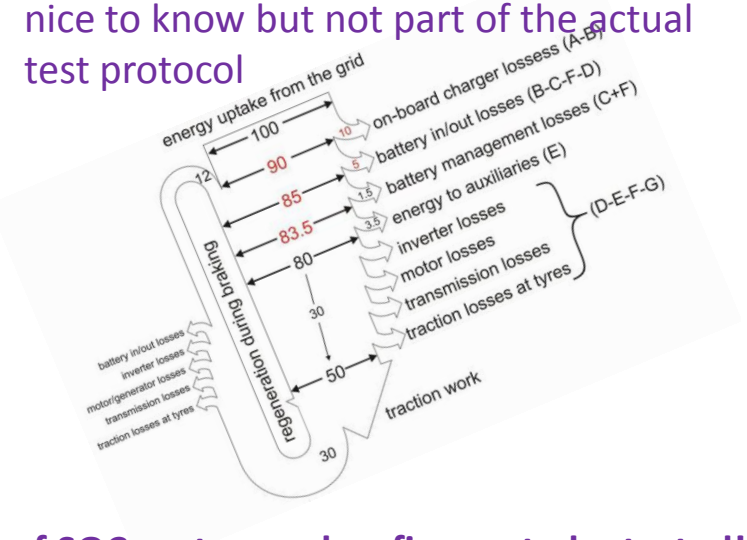
Cabin heating & auxiliary energy use



Vehicle load?
Useful range criteria?
Climb home range?

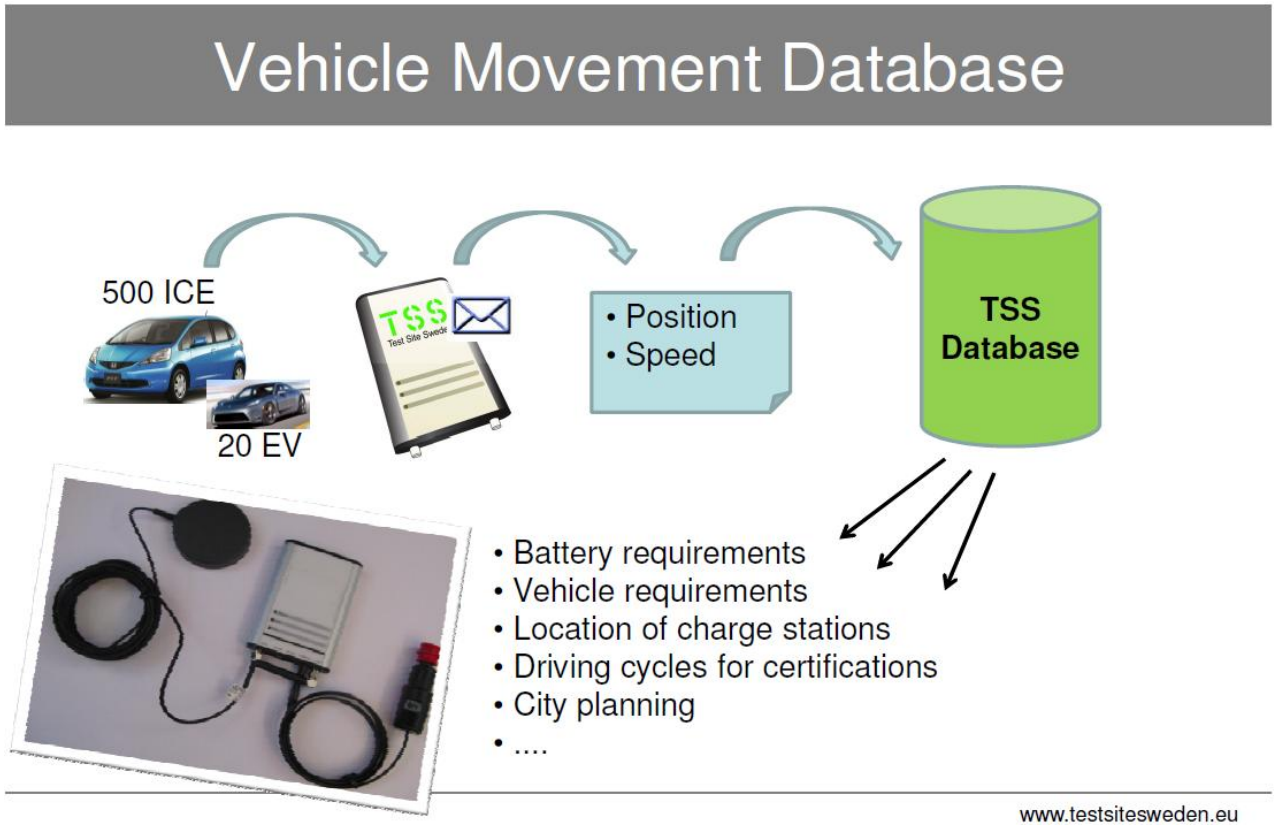
WP3 Application of the laboratory test protocol on 3 EV types

Energy consumption (kWh/km) from the grid and efficiency inside EV are nice to know but not part of the actual test protocol



Useful driving range in Nordic conditions and accuracy of SOC meter are key figures to be tested!

WP4 Field test of EV pool



WP0 Dissemination

Dissemination Policy:

- Protocol development will be open for comments
- Co-operation with electric vehicle manufacturers is welcome

Time schedule:

11/2011 Lab-test protocol
07/2012 Database of lab test results
01/2013 Database of in-field test results
05/2013 Database of in-laboratory and in-field test programme results
05/2013 Final report

IDEA for Norden Energy&Transport

World most important Electric and Hybrid vehicle research conference EVS27 will be held in June 2013 in Barcelona

Norden could use this event as place for exhibit it's own activities and also encourage project give papers to the conference

EVS24 was held in Stavanger! EVS30 could also be in Scandinavia if we are active enough

Contact Information

Project will develop web page for dissemination purposes later 2011

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