



Feasibility analysis and development of on-road charging solutions
for future electric vehicles

Infrastructure of FABRIC SATORY test site

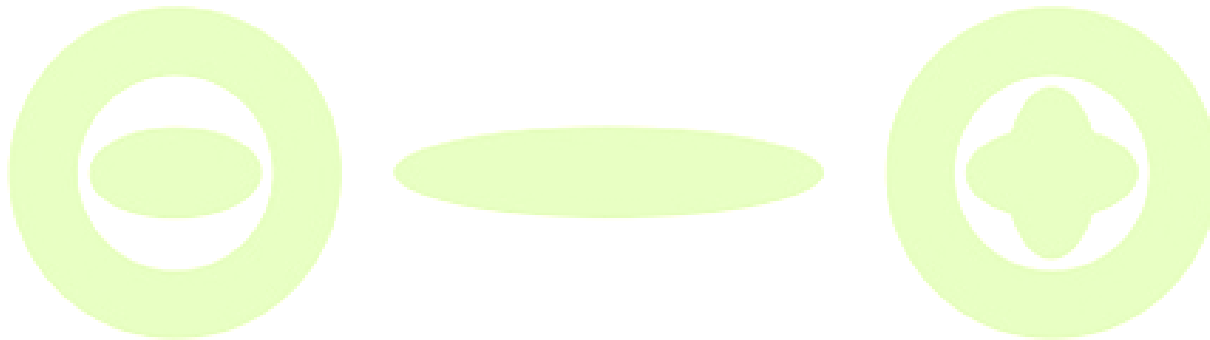
Stéphane LAPORTE
VEDECOM

FABRIC Conference, Brussels, 2 Feb. 2016



Agenda

1. **VEDECOM**
2. VEDECOM & FABRIC
3. VEDECOM & FABRIC @ Satory
4. VEDECOM & FABRIC @ Satory & Infrastructure: Status
5. VEDECOM & FABRIC @ Satory & Infrastructure: Next steps



VEDECOM, a research ecosystem unparalleled in France

Created in February 2014, **VEDECOM** is an **I**nstitute for the **E**nergy **T**ransition ('ITE') that was established as part of the French government's '**Investment for the future plan**'.



The Institute is dedicated to **individual, carbon-free and sustainable mobility**.



The Institute's **40 members**, which comprises firms in the **automotive and aerospace sectors**, mobility ecosystem infrastructure and service operators, **academic research** bodies and Ile-de-France **local authorities**, **work together in an unparalleled manner**.

VEDECOM partners

Founders



Associated donors



Supported by



Yvelines
Le Département



Active donors



Now an company



In collaboration with



VEDECOM Key Figures

40 members, including 10 founders

300 millions euros in funding over 10 years

3 programmes Vehicle, Eco-Mobility, Training spread over **19 projects**

3 fields of research

Vehicle Electrification

Driving delegation and connectivity

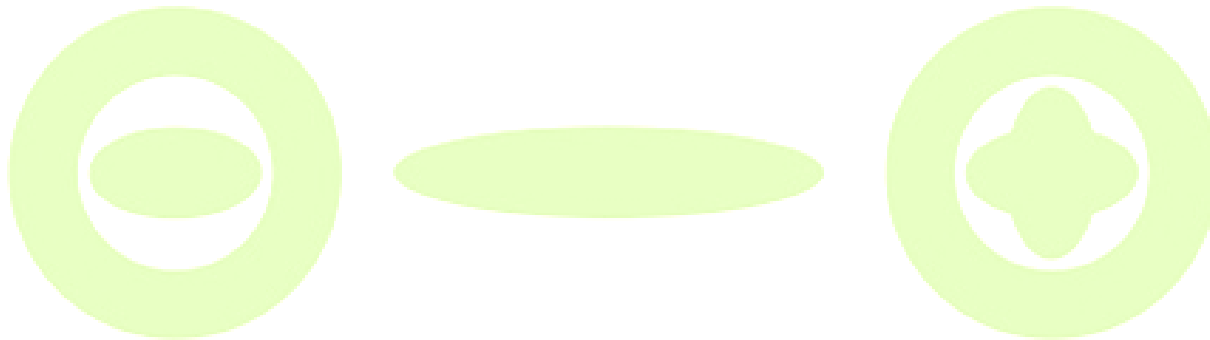
Shared mobility and energy

7 000 m² of workshops and offices dedicated to research

100 employees by the end of 2015, 250 by the end of 2017

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VEDECOM role in FABRIC

- Total costs 1182 k€ / EC funding 887 k€
- 59.5 PM
- Subcontract to Qualcomm : 350 k€
- Participant in SP2, SP3, and SP4
 - Leader WP25 : Design of ICT applications and development of components
 - Leader WP34 : Specifications
 - Leader WP46 : Vehicle and test site integration (French test site)
- VEDECOM will incorporate contributions from its members : IFSTTAR, Renault



IFSTTAR

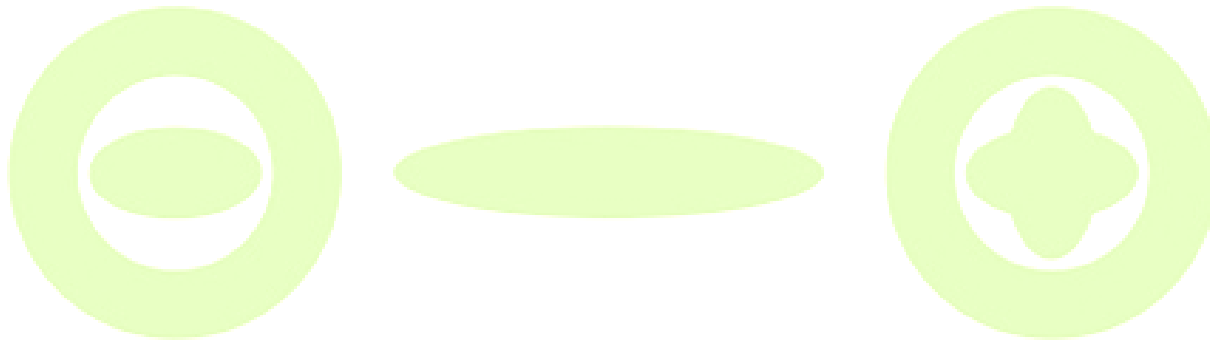


- VeDeCoM will implement Qualcomm IPT systems on the Satory test track and on electric vehicles provided

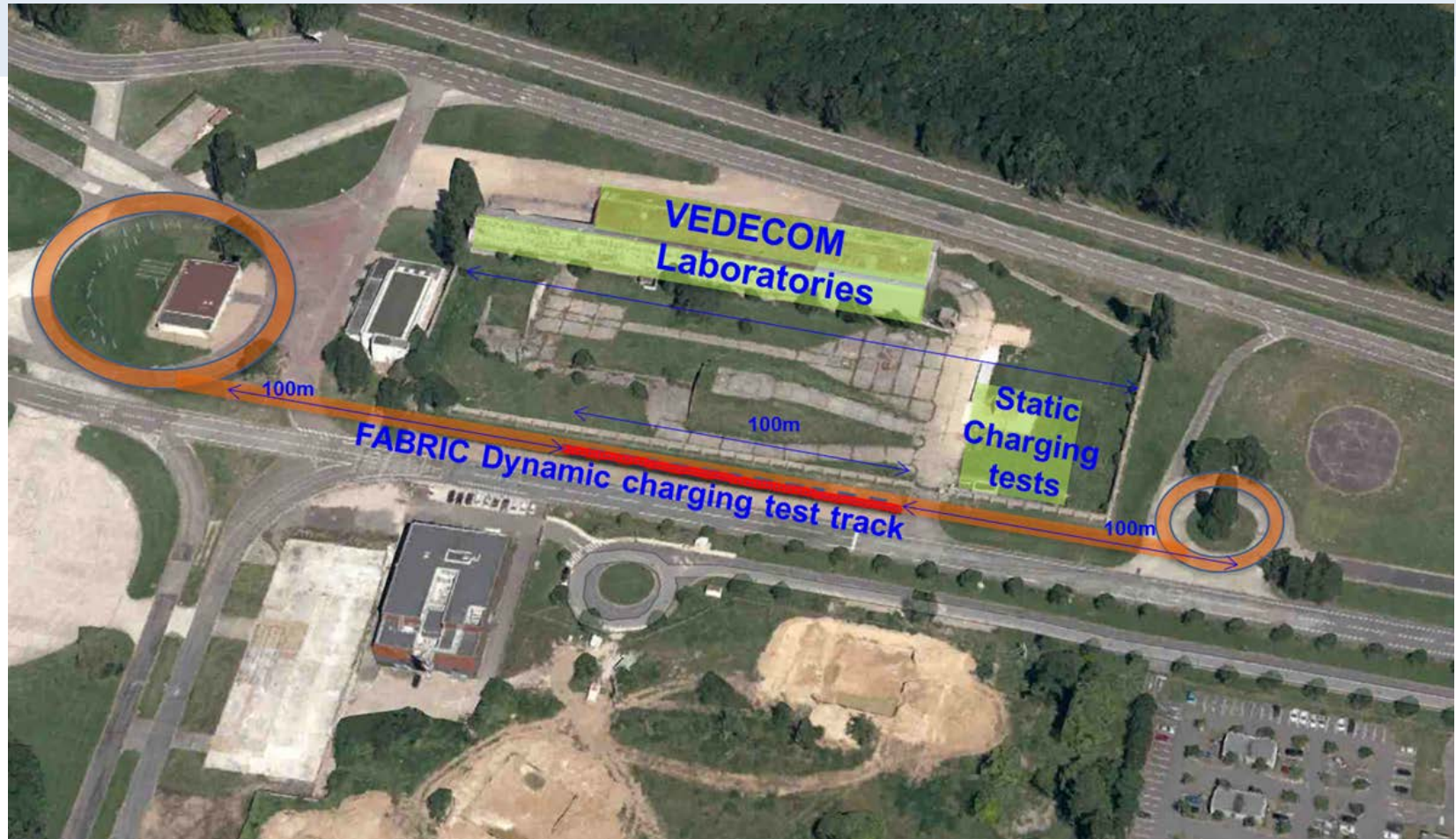


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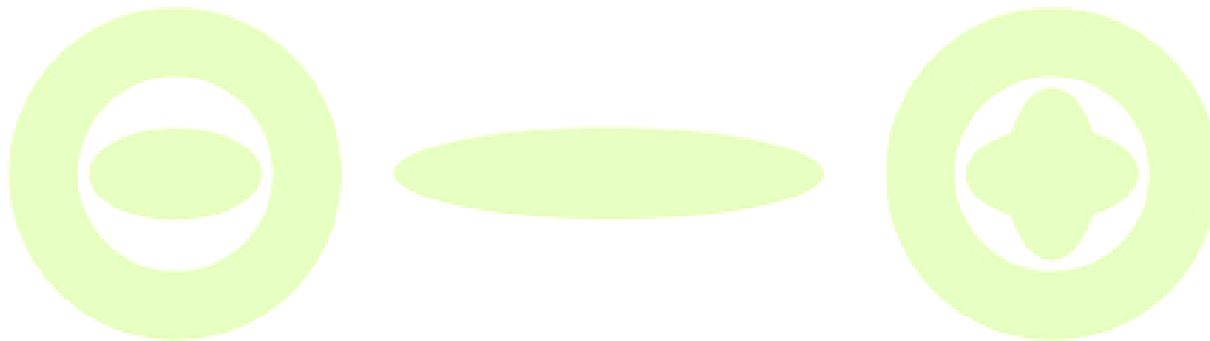


VEDECOM & FABRIC @ Satory & Infrastructure



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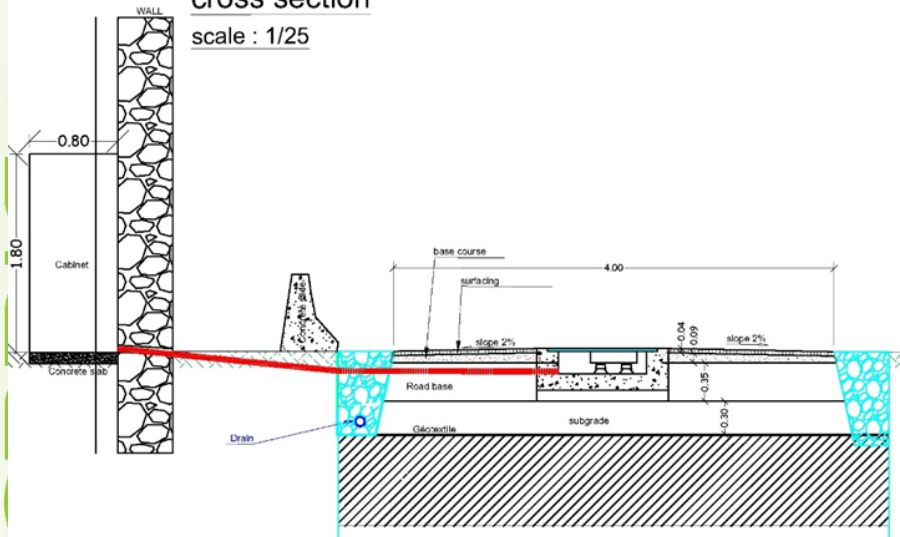
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100 m test track – 57 WPT units – 2 x 30kVA

cross section

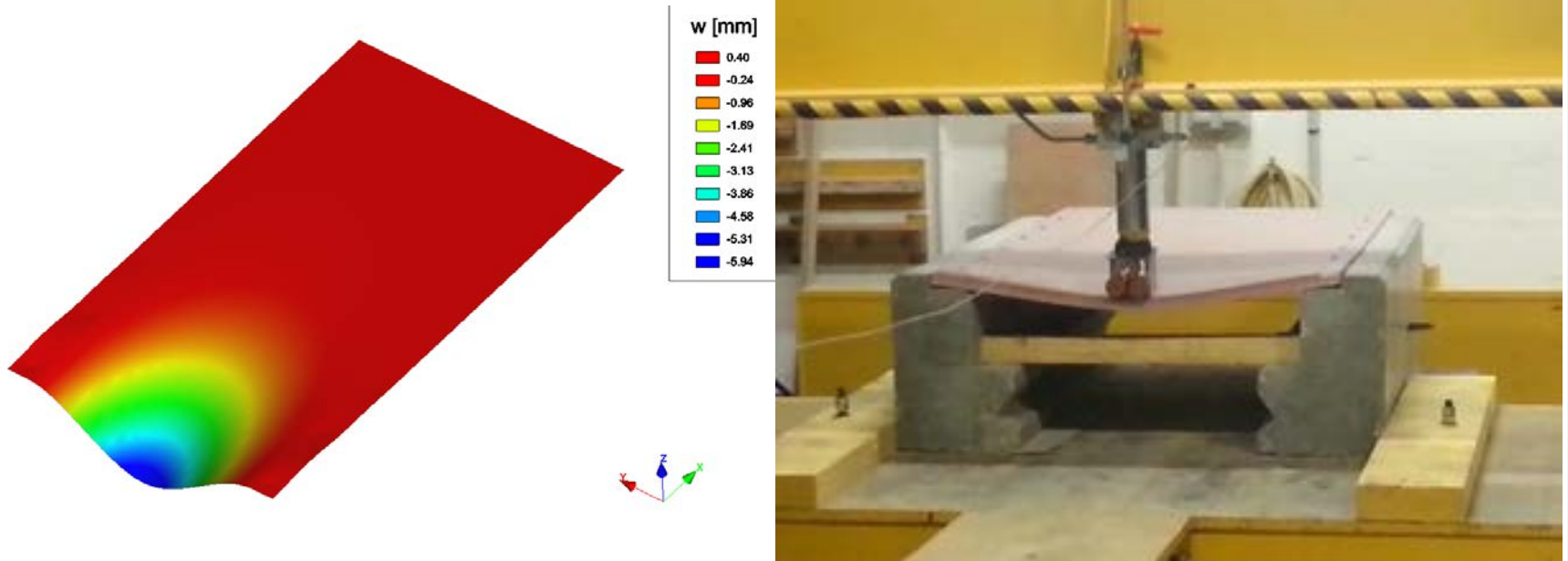
scale : 1/25



Roadworks : ✓

WPT units and electrical hardware will be installed this summer.

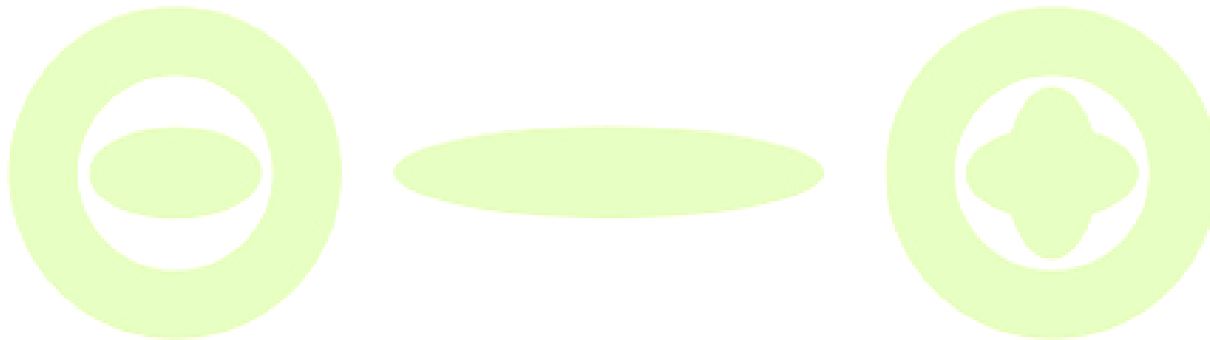
Cover design assessed (structural integrity)



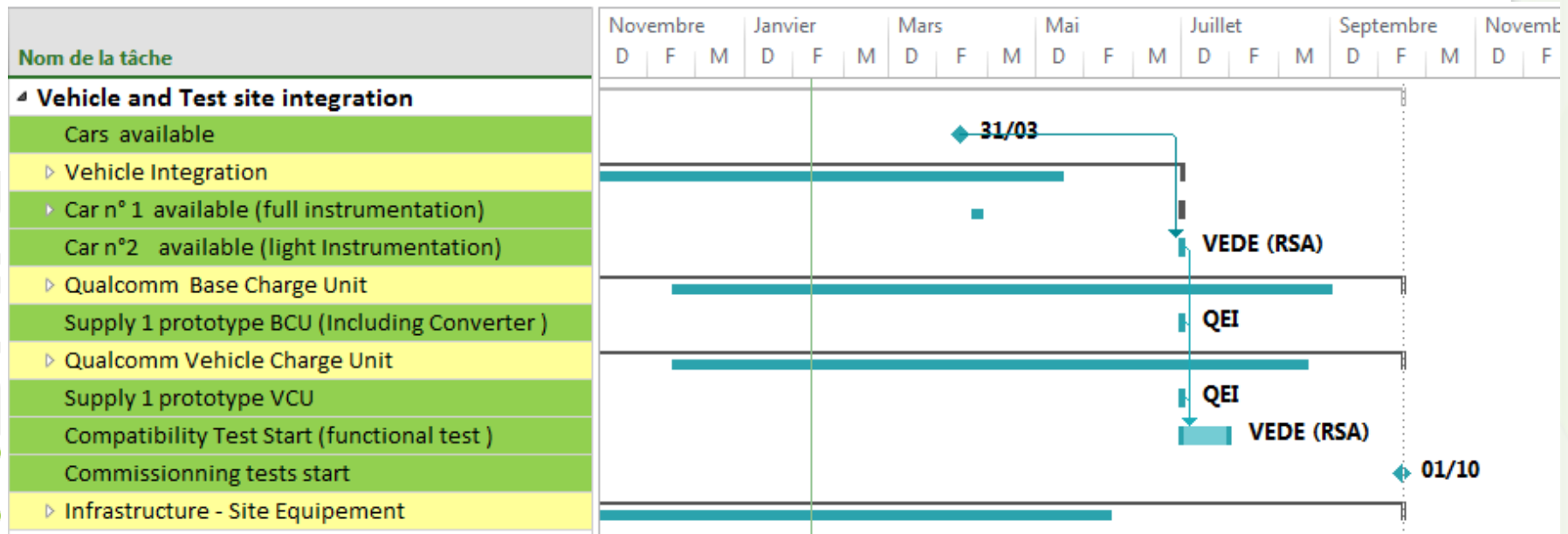
Cover Design and validation : ✓
Production will be launched next month.

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VEDECOM & FABRIC & Satory & Infrastructure : Next steps (dates to be confirmed)



VEDECOM & FABRIC & Satory & Infrastructure: Next steps

Our priorities :

1. Exposure to magnetic fields
2. EMC Qualcomm system/Kangoo
3. System performances characterization
4. Optimize system functioning
5. Lane keeping assistant and ICT functions



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Thank you!



Stéphane Laporte
Project Manager, VeDeCom

