

ELVA – Advanced Electric Vehicle Architectures

Project Introduction

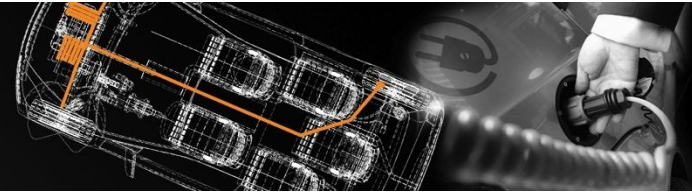
1 June 2011

Micha Lesemann

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Project Introduction

Objectives, Content & Scope

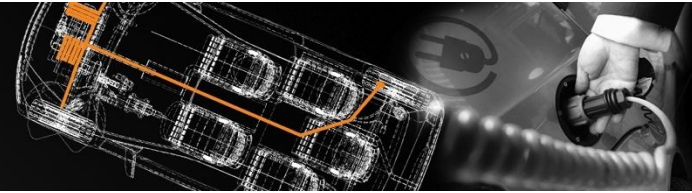


- Exploration and identification of conceptual design options for EVs
- Assessment of electric drive technologies and components by 2020
- Understanding of customer preferences of EVs
- Collection of a broad library of vehicle concepts
- **Development of three detailed vehicle concepts following a purpose design approach**
- **Qualitative assessment of the three vehicle concepts**
- Compilation of design practices/rules/freedoms & limitations for urban EVs
- Production of scaled rapid prototyping models of the three vehicle concepts



Project Introduction

Geographical Overview



VOLKSWAGEN

AKTIENGESELLSCHAFT

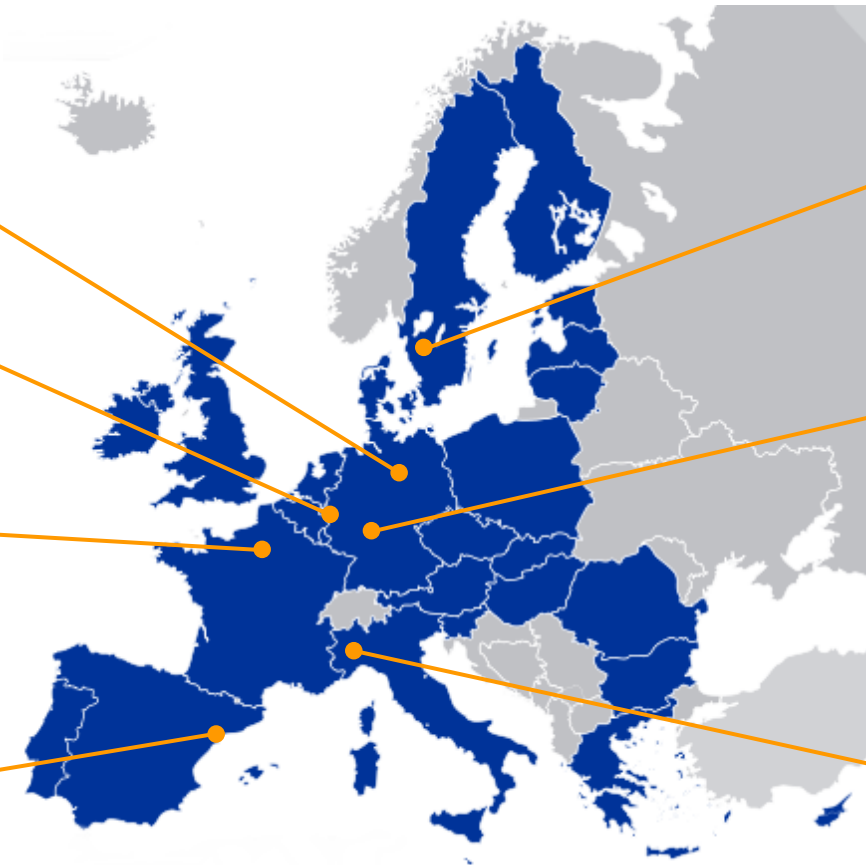
SAFER

VEHICLE AND TRAFFIC SAFETY CENTRE AT CHALMERS



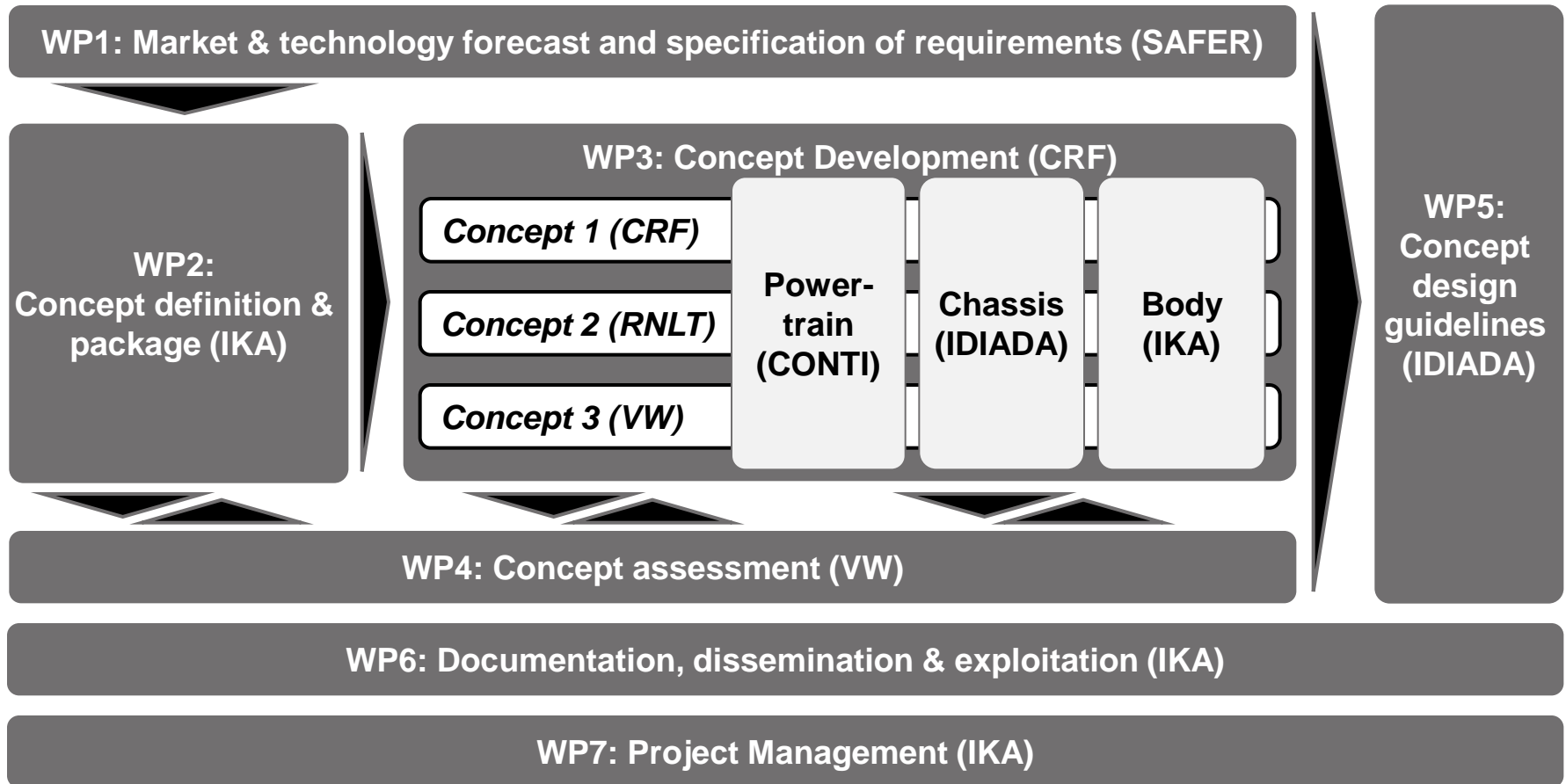
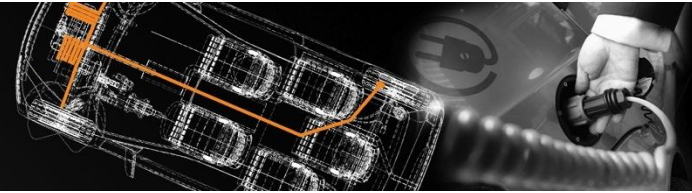
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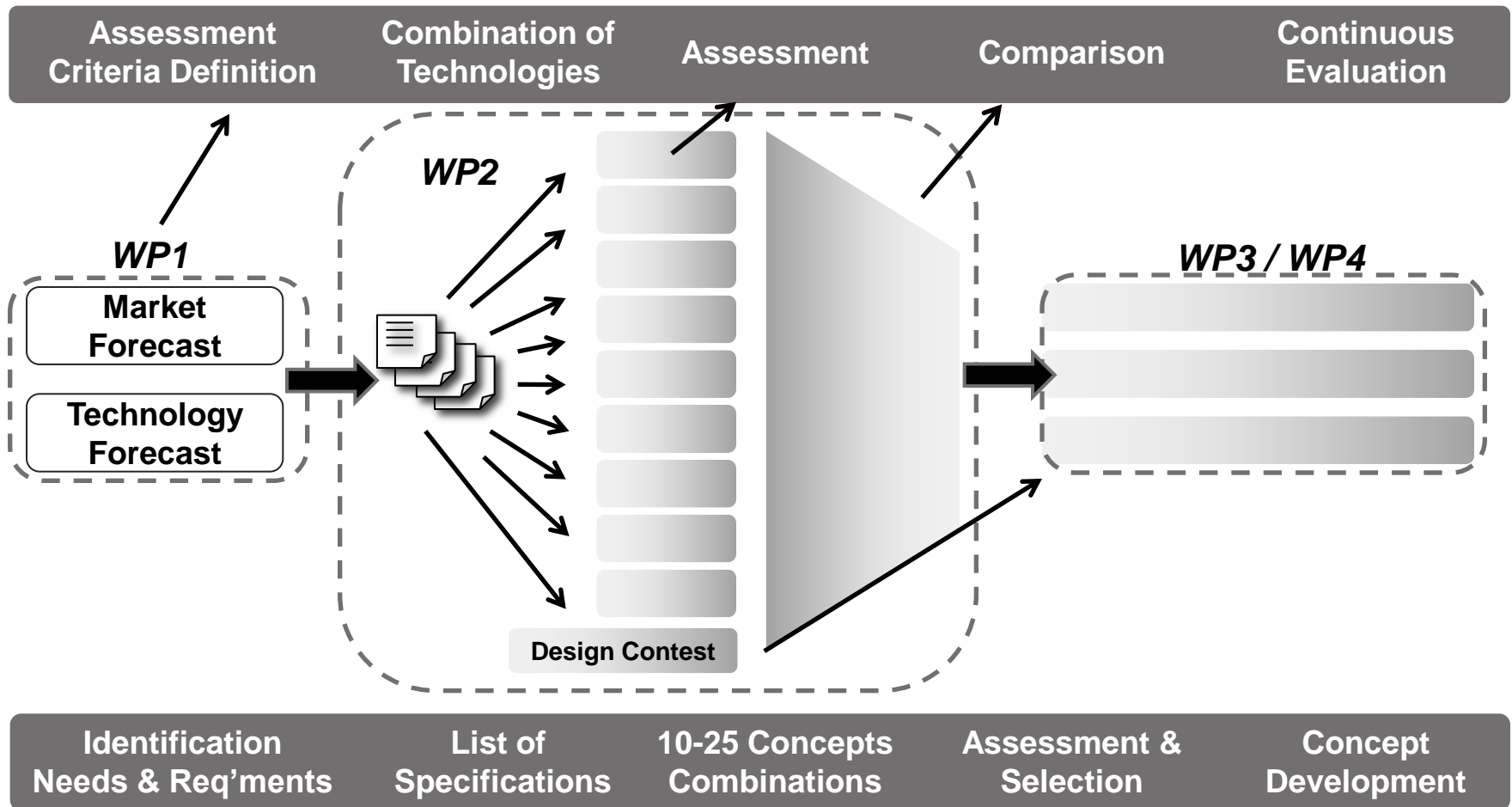
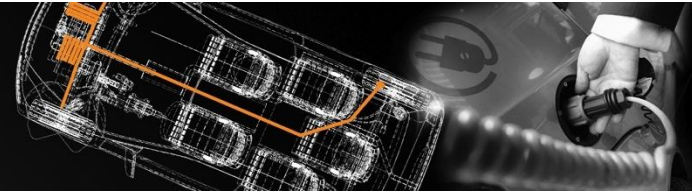


Project Introduction

Work Package Dependencies

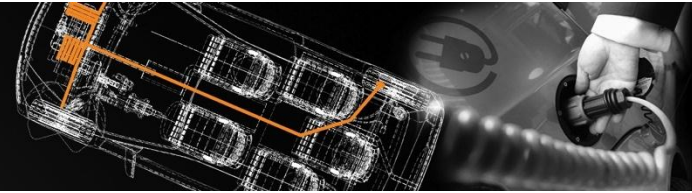


Project Introduction Workflow



Project Introduction

Timing of Actions

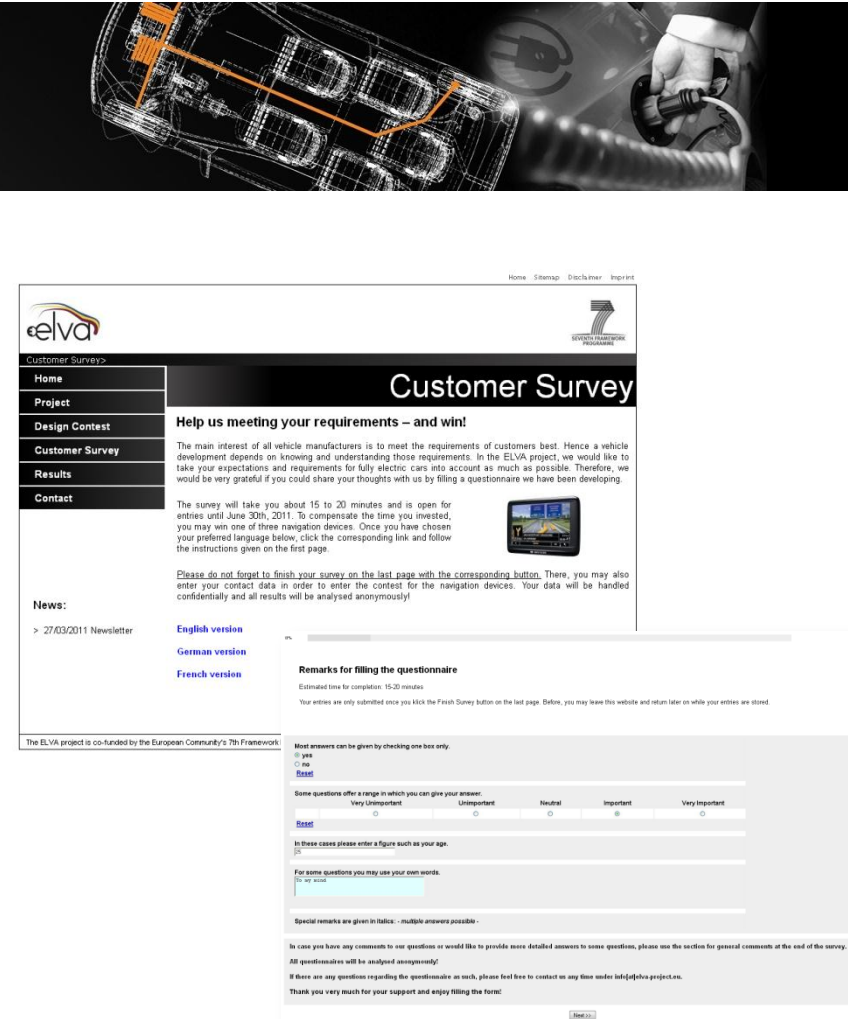


Year		10	2011												2012												2013				
Month		D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M
Project Month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
WP1	Market & technology forecast																														
WP2	Concept definition & package																														
2.1	Overall concepts definition																														
2.2	Basic package concepts																														
2.3	Body shape definition																														
2.4	Design contest																														
2.5	Assessment of basic concepts																														
2.6	Selection of concepts																														
WP3	Concept development																														
WP4	Concept assessment																														
WP5	Concept design guidelines																														
WP6	Documentation/dissemination																														
WP7	Management																														

Project Introduction

Customer Survey

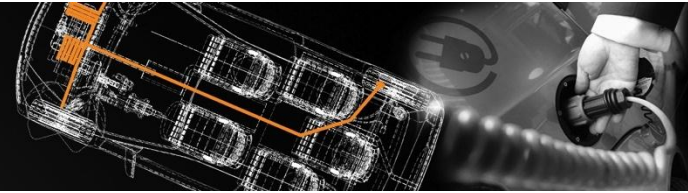
- Customer requirements will be analysed by a large scale survey which is currently running.
- It can be accessed using these links:
 - EN: www.elva-project.eu/survey.html
 - DE: www.elva-project.eu/umfrage.html
 - FR: www.elva-project.eu/questionnaire.html
- The survey is open until 30 June 2011.
- Please share your opinion with us and encourage also colleagues, friends & family to join this survey!



The screenshot shows the ELVA Customer Survey website. The header includes the ELVA logo and the text 'Customer Survey'. A navigation menu on the left lists: Home, Project, Design Contest, Customer Survey, Results, and Contact. The main content area features a large heading 'Customer Survey' and a sub-heading 'Help us meeting your requirements – and win!'. Below this, there is a paragraph explaining the survey's purpose and a small image of a navigation device. A 'News' section shows a link to a '27/03/2011 Newsletter'. There are also links for 'English version', 'German version', and 'French version'. A 'Remarks for filling the questionnaire' section provides instructions on how to complete the survey, including a note about estimated completion time (15-20 minutes) and confidentiality. The bottom part of the page shows a form with radio buttons for 'yes' and 'no', a Likert scale from 'Very Unimportant' to 'Very Important', and a text input field for 'Special remarks'. A 'See you' button is at the bottom right.

Project Introduction

Concept Definition



Basis specs

Brainstorming workshop

- Project partners
- Selected additional persons
- Two creative days

Open design contest

- Few limitations
- Design brief



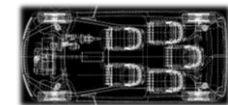
Broad collection of ideas

Analysis phase

- Feasibility, technical potential
- Sustainability

Design detailing

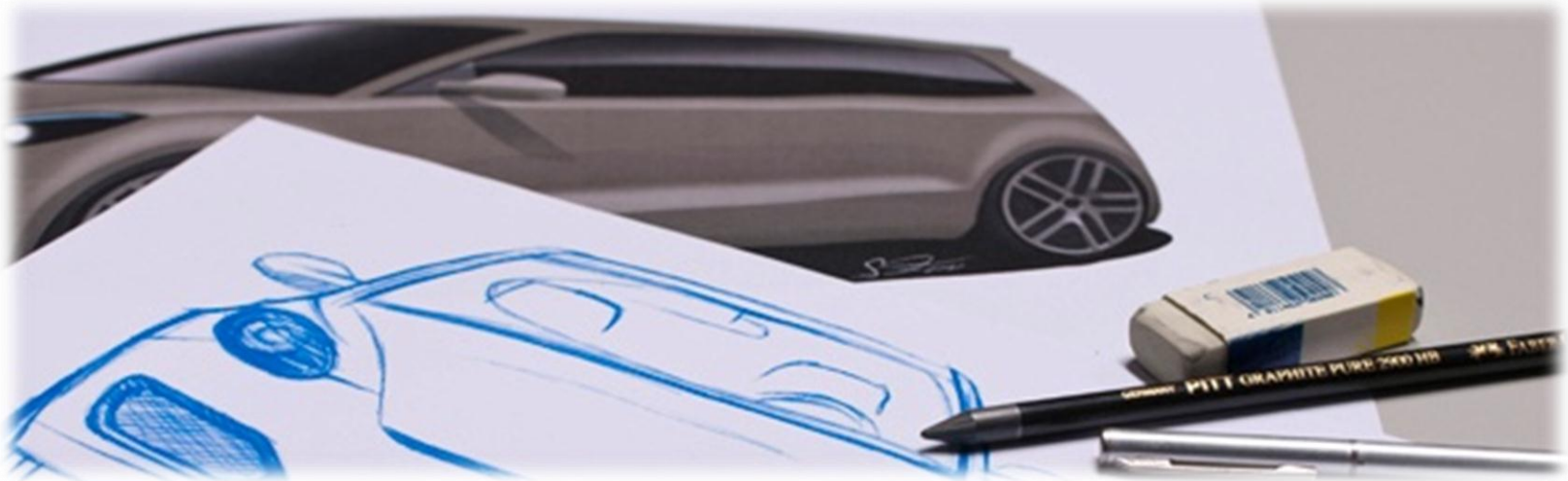
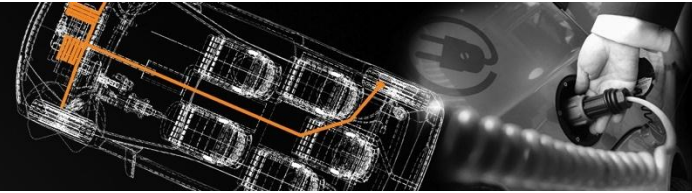
- More limitations



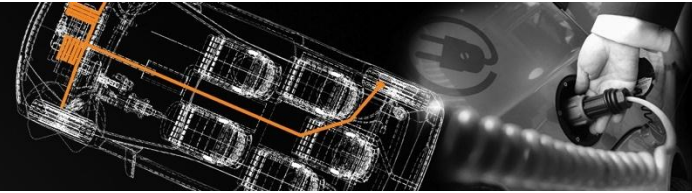
Consolidation workshop

- Presentation of all positively evaluated ideas
- Discussion and conclusion

Project Introduction Design Contest



- A two-stage design contest will be arranged involving design schools, freelance designers and every interested person.
- Stage 1: open design contest with few limitations
- Stage 2: design detailing with further technical requirements
- A winner's ceremony is scheduled for November.

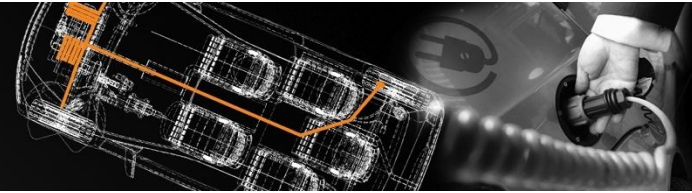


Thank you very much for your attention!

www.elva-project.eu



Contact



Dipl.-Ing. Micha Lesemann

Forschungsgesellschaft Kraftfahrwesen mbH Aachen
for: RWTH Aachen University
Steinbachstr. 7
52074 Aachen
Germany

Phone +49 241 80 27535
Fax +49 241 8861 110
E-Mail info@elva-project.eu
Internet www.elva-project.eu