

TOPIC	WHAT
<b>1. <u>On-board Vehicle System</u></b>	
<ul style="list-style-type: none"> <li>▪ <b>In-vehicle Energy Management Systems</b></li> </ul>	<ul style="list-style-type: none"> <li>▪ Drivetrain</li> <li>▪ Auxiliary systems / components</li> <li>▪ Energy recuperation systems (e.g. suspension, braking systems)</li> </ul>
<ul style="list-style-type: none"> <li>▪ <b>Vehicle to/from driver information, support and command systems</b></li> </ul>	<ul style="list-style-type: none"> <li>▪ Vehicle status monitoring systems (e.g. energy status)</li> <li>▪ Driver support and command systems for optimised energy use and recuperation</li> <li>▪ ADAS efficient driving:                             <ul style="list-style-type: none"> <li>○ Short horizon: dynamic traffic</li> <li>○ Medium horizon: planning of route</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>▪ <b>Vehicle system architectures</b></li> </ul>	<ul style="list-style-type: none"> <li>▪ New requirements</li> <li>▪ Fail-safe aspects</li> <li>▪ Distributed x-by-wire systems</li> </ul>
<b>2. <u>Safety aspect of new vehicle concepts</u></b>	
<ul style="list-style-type: none"> <li>▪ <b>Electric vehicles ADAS for vulnerable road-users</b></li> </ul>	<ul style="list-style-type: none"> <li>▪ Electrified vehicles</li> <li>▪ New body design and enhanced materials</li> <li>▪ Distributed drivetrain architectures</li> </ul>
<ul style="list-style-type: none"> <li>▪ <b>Collision avoidance and crash mitigation of EV and low-weight vehicles</b></li> </ul>	<ul style="list-style-type: none"> <li>▪ EV is silent and has to be detected by all road-users</li> <li>▪ Systems sensing and adapting to the object being crashed into</li> </ul>
<ul style="list-style-type: none"> <li>▪ <b>High voltage systems / components</b></li> </ul>	<ul style="list-style-type: none"> <li>▪ Regular use (instructions)</li> <li>▪ Maintenance and repair</li> <li>▪ Information / database systems for rescue / emergency services and intervention</li> </ul>

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	<ul style="list-style-type: none"> <li>▪ Post-crash automatic intervention:                             <ul style="list-style-type: none"> <li>○ Safe batteries</li> <li>○ High-voltage systems risks</li> </ul> </li> </ul>
<b>3. <u>Vehicle-Infrastructure aspects</u></b>	
<ul style="list-style-type: none"> <li>▪ <b>Energy charging systems</b></li> </ul>	<ul style="list-style-type: none"> <li>▪ On-line information systems on:                             <ul style="list-style-type: none"> <li>○ Geographical location of charging systems</li> <li>○ Availability of connectors for energy charging</li> <li>○ Price of energy</li> <li>○ Battery swapping (if not plug-in)</li> </ul> </li> <li>▪ Automatic energy measuring and debiting systems</li> <li>▪ Interoperability vehicle – charging systems                             <ul style="list-style-type: none"> <li>○ Standardisation</li> <li>○ Data / energy automatically exchanged (e.g. contact-less systems)</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>▪ <b>Inter-modal efficiency of People and Goods Transport</b></li> </ul>	
<ul style="list-style-type: none"> <li>▪ <b>Energy supply and security systems</b></li> </ul>	<ul style="list-style-type: none"> <li>▪ Information related to energy needs</li> </ul>
<b>4. <u>The Electric Vehicle in the Transport System</u></b>	
<ul style="list-style-type: none"> <li>▪ <b>Information, systems for interfacing / exchange between modes or types of clean(er) vehicles</b></li> </ul>	
<ul style="list-style-type: none"> <li>▪ <b>Interfaces among various level of “environment zones”</b></li> </ul>	<ul style="list-style-type: none"> <li>▪ Traffic and network information</li> <li>▪ Management systems</li> </ul>
<ul style="list-style-type: none"> <li>▪ <b>Demand management information and control</b></li> </ul>	