IZNAB

(SME in Engineering, Poland)

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E-ULV

Energy efficiency improvements of Ultra-Light e-Vehicles

(GV.5-2014. Electric two-wheelers and new light vehicle concepts)

Objetives

- Cost efficiency, integration and modularity of battery packs.
- Exploiting new ultra-light materials characteristics.
- Emission, noise, and energy consumption characteristics.
- Carrying out of LCA (LCCA) analysis of vehicle.
- Proof of concept of ultra-light e-vehicle

Expected Impact

- Developing of innovative and holistic vehicle architecture
- Relevant environmental benefits of weight reduction (recyclable materials)
- Significant reduction of emissions (Euro 5 level), noise and energy consumption
- Overall reduction in time-to-market and development costs
- Homologation validation and requirements of demonstrator (e-vehicle)

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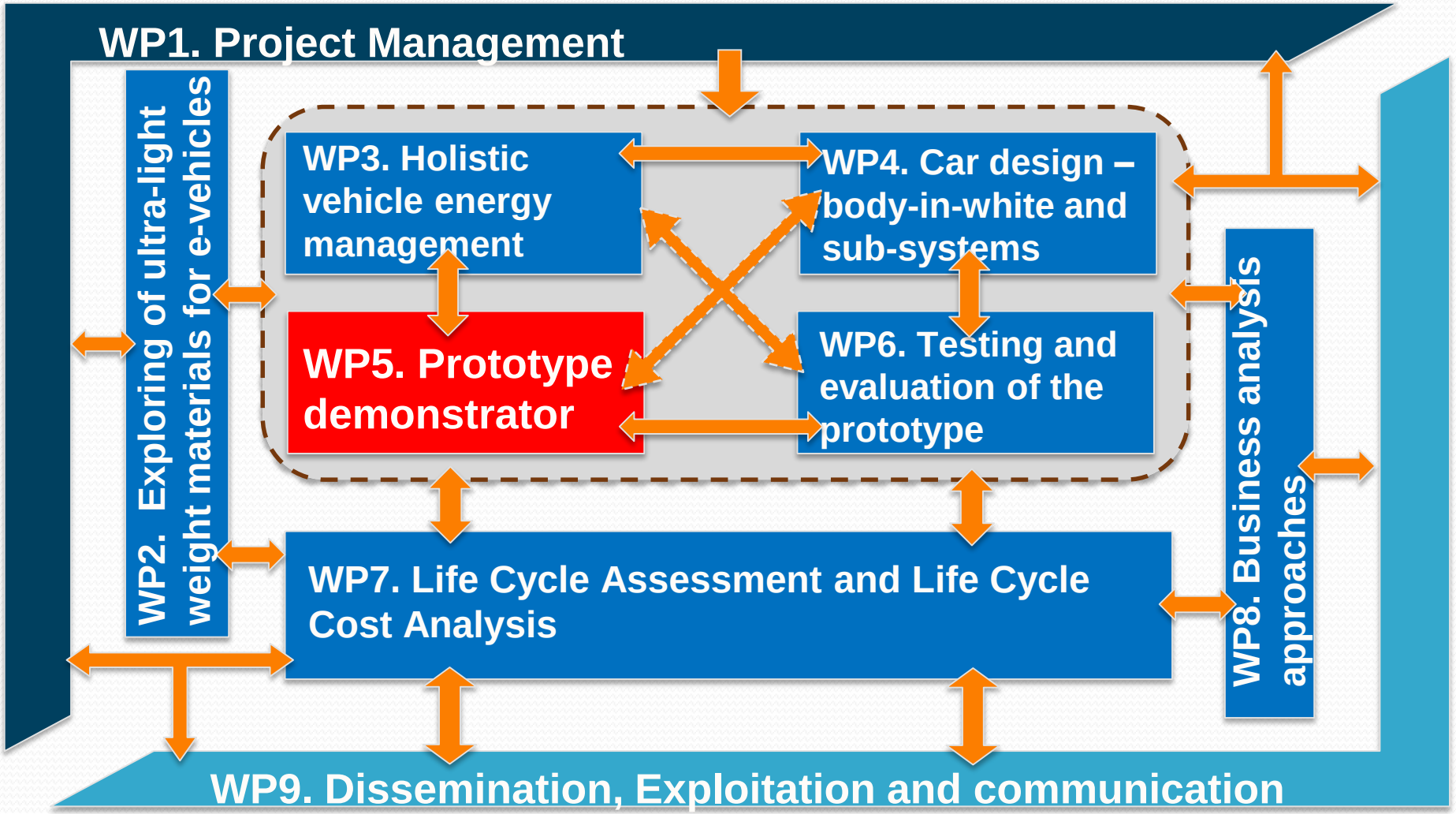

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YEAR 1	YEAR 2	YEAR 3	YEAR 4
Project Management			
Exploring of ultra-light materials characteristics			
Holistic vehicle energy management			
Car design - body-in-white and sub-systems			
	Prototype demonstrator		
		Testing and evaluation of the prototype	
	LCA/LCCA		
Business analysis			
Dissemination, Exploitation and communication			

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Partner needed				
No	***Expertise***	***Type***	***Country***	***Role in the project***
1	Manufacture of cars	Large		Final prototype of e-vehicle
2	Light-weight materials for automotive sector	RTD		Exploring of ultra-light materials
3	Energy management of battery packs	RTD		Integration and modularity of battery packs
4	Homologation	RTD/OTHER		Homologation requirements and validation
5				
6				

Other topics of IZNAB interest!
GV.1-2014. Next generation of competitive lithium ion batteries to meet customer expectations
GV.2-2014. Optimised and systematic energy management in electric vehicles
GV.4-2014. Hybrid light and heavy duty vehicles
GV.7-2014. Future natural gas powertrains and components for heavy duty vehicles

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Thank you for your attention!!!

IZNAB Sp. z o.o.

"Innowacje Zorientowane Na Biznes"

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