

# STORHY FINAL EVENT HYDROGEN STORAGE SYSTEMS FOR AUTOMOTIVE APPLICATION

PSA POISSY, JUNE 3-4, 2008



## Integrated Project STORHY: Information Sheet

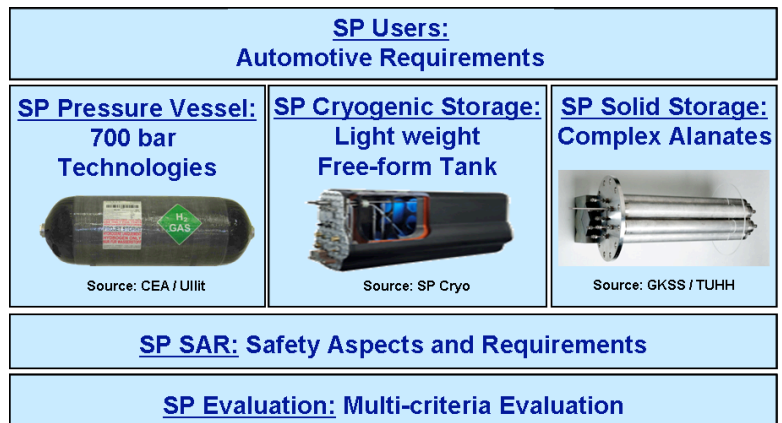
### Objectives

- ❖ Identify the **most promising hydrogen storage solutions** for different automotive applications
- ❖ Introduce **innovative and competitive solutions for high pressure, cryogenic and solid hydrogen storage** as soon as possible by means of R&D efforts, demonstration activities as well as development of appropriate production technologies

### Project Structure

StorHy is divided into 6 Subprojects (SPs):


- ❖ **SP Pressure Vessel, SP Cryogenic Storage and SP Solid Storage**, have concentrated on addressing the technological development of innovative hydrogen storage solutions.
- ❖ Cross-cutting issues have been dealt with in **SP Users** (defining requirements and disseminating results), **SP Safety Aspects & Requirements** (carrying out safety studies and pre-normative research) and **SP Evaluation** (responsible for multi-criteria evaluation of the results).



### StorHy Impact and Perspectives

- ❖ Next generation hydrogen vehicles with more than **400 km driving range** will be equipped with **700 bar compressed hydrogen storage systems or cryogenic storage systems**.
- ❖ StorHy **paves the way for the market entry of both these storage technologies**. StorHy systems are **ready for small series development** and **high pressure filling components** are already **commercially available** as certified products. **Both technologies still need further evolution to reach large-scale commercialisation**.
- ❖ StorHy **contributes the first free-form cryogenic storage system adaptable to current vehicle design, but in future new specifically adapted vehicle architectures are required**.
- ❖ **Solid storage is currently not mature enough for automotive application**. Further R&D efforts are required on material and system level.
- ❖ StorHy has proposed an approach to **improved safety regulations** and safety assessment procedures, which will help to further reduce weight and costs.
- ❖ StorHy has promoted the **intensive collaboration of major European stakeholders in industry and research**, thus increasing the **competitiveness of European industry** and **fostering European technical and scientific excellence** in the area of hydrogen storage.

### Organisational Information

Budget	18.7 m €	EC Funding	10.7 m €
Duration	March 2004 – August 2008	Website:	<a href="http://www.storhy.net">www.storhy.net</a>
Coordinator	Dr. Volker Strubel, MAGNA STEYR	Contact	<a href="mailto:volker.strubel@magnasteyr.com">volker.strubel@magnasteyr.com</a>
Partners	34 partners from 13 European countries: 5 OEMs (BMW, Daimler, Ford, PSA, Volvo), 14 suppliers, 15 research institutes		
	The project partners wish to thank the European Commission for financial support of the Integrated Project StorHy– Hydrogen Storage Systems for Automotive Application (Contract No.: SES6-CT-2004-502667) within the 6 <sup>th</sup> RTD Framework Programme.		