

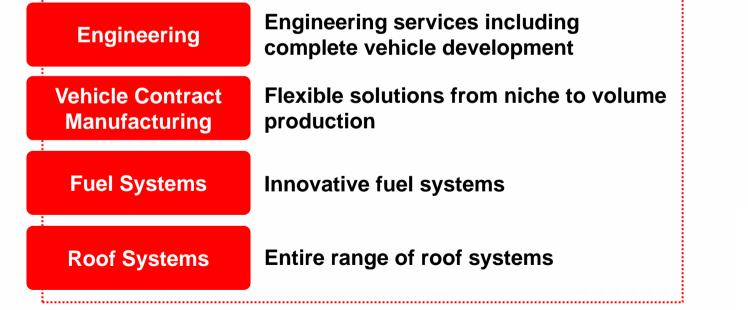
### **Transfer-Workshop Cluster 1**

G.Pöllmann, Magna Steyr Dusseldorf 18th April 2012

### We offer ...

# **MAGNA STEYR**





## Gaseous Hydrogen Storage Technologies **MAGNA STEYR**



### **Vehicle integration**



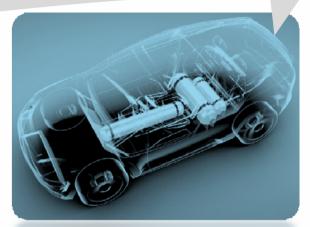


 Development & production of fully wrapped composite cylinders & components up to 70 MPa



H2 storages

- Assembly and quality assured supply of modules
- System qualification, validation & certification



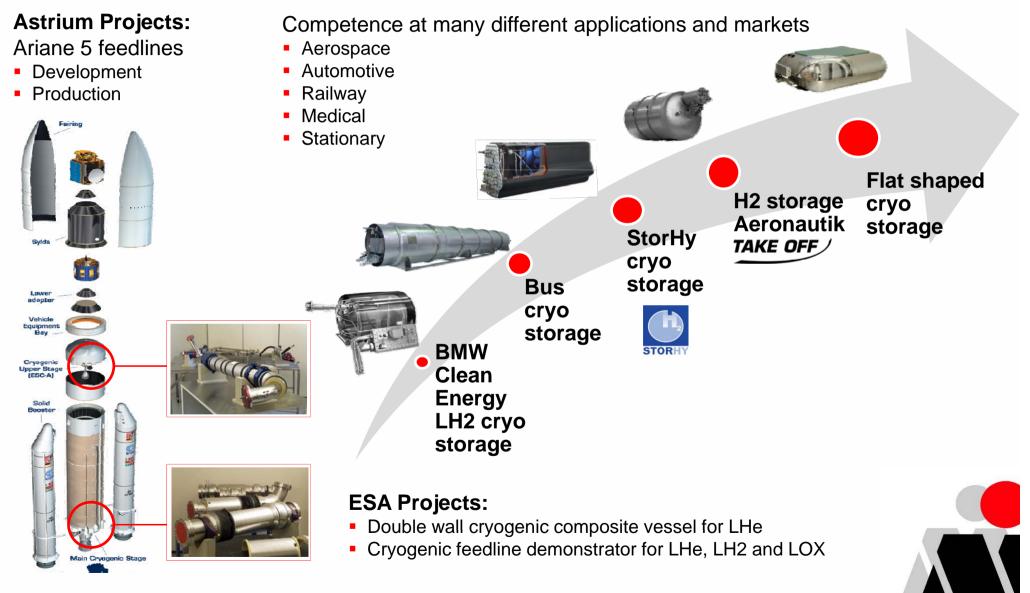
- Packaging of modules
- Installation of system
- Vehicle validation & certification

Global supplier of industrial hydrogen storage solutions On stop shop for customers



### Liquid Hydrogen Storage Technologies

# **MAGNA STEYR**



#### **Project Proposal** Hydrogen Technology – Synergy for Mobility

# MAGNA STEYR



#### Challenges

- Commercialisation of Hydrogen technology for stationary and mobile applications
- New technologies include significant spending, research & development risks for each industry/application separately
- Global harmonisation of hydrogen standards and certification

#### **Project Proposal**

- Capitalization of synergies by combining efforts for commercialisation at mobility (automotive, rail, aerospace,...) and stationary applications
- Combining customer or demonstration projects to leverage scales

#### **Synergy Potentials**

- Development of H2 systems and components e.g. vessels, pressure regulator, valves
- Systems e.g. fuel cell sub-/systems, integration, testing and validation
- Infrastructure: H2 supply, accredited testing & instrumentation environment
- Industrialisation: production processes and technologies, validation and EOL testing

