

**Expert Session 1 – Workshop1**  
Commercialisation Roadmap  
Perspectives and Gaps for Hydrogen Storage

**C-H2 Session: Vessel manufacturing & mass  
production scale-up**

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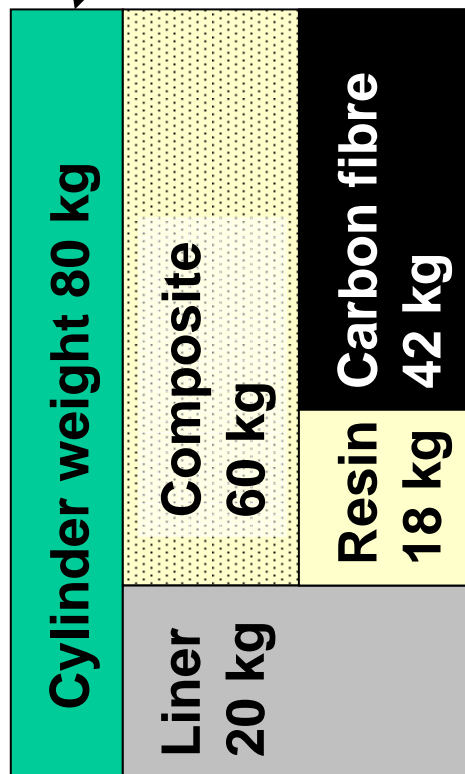
**STORHY  
FINAL EVENT**

**June 3-4, 2008  
Poissy, France**

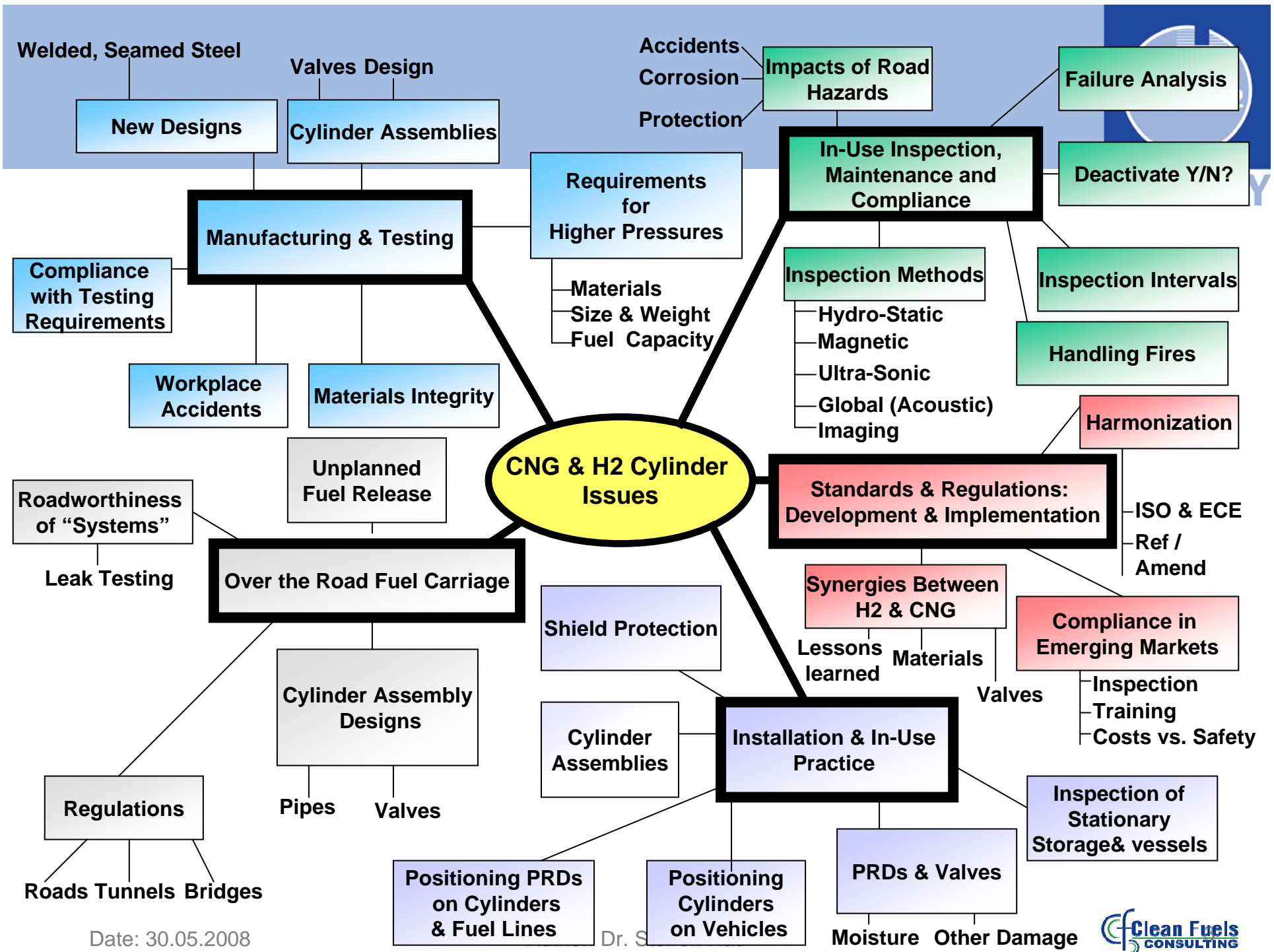
# Impact of carbon fibre

## ➤ 4 kg H<sub>2</sub> / passenger car system

: 5% (specific weight)



- Cost target with mass production:  
carbon fibre costs = app. 75 % of total costs  
 $42 \text{ kg} * 25 \text{ €/kg} / 0.75 = 1,400 \text{ €}$
  - Carbon fibre consumption vs. production:
    - Production capacity 2008 = app. 30,000 t/a
    - annual vehicle production of cars and light commercial vehicles = app. 65,000,000
- 1% of vehicle production as H<sub>2</sub> vehicles would require 27,300 t carbon fibre



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Dr. S