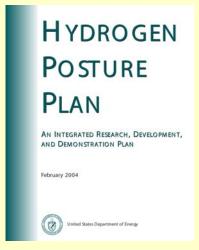
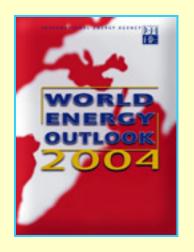
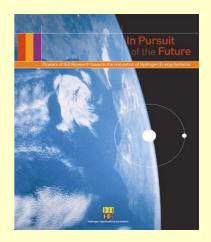
France begins to have a clear strategic vision

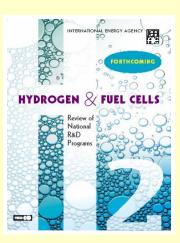
- WHEC 2004 in Japan
- WEC in Australia
- EU Platform launched
- Bibendum Challenge in Shanghai













R&D Investment and Co-operation

National Programs

- US: \$ 1.7 B for 5 years
- EC: €2 B in FP6 (Renew. & H₂/F/C)
- Japan: ¥ 30 B/y tripled from 1995
- and ... Canada, France, Germany, Italy, Korea, UK ...
- \$ 1bn/y global public effort



- IEA Hydrogen Co-ordination Group and Implementing Agreements
- International Partnership on **Hydrogen Economy (IPHE)**
- EU Technology Platform
- Bilateral Agreements





















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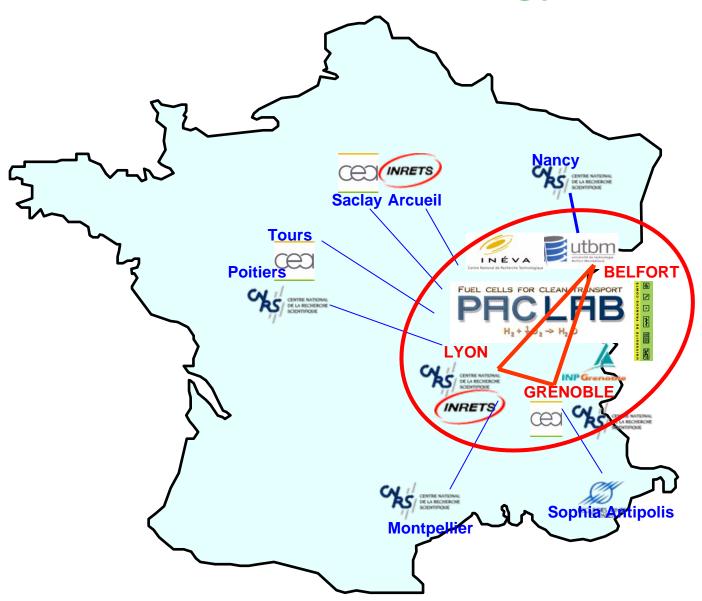


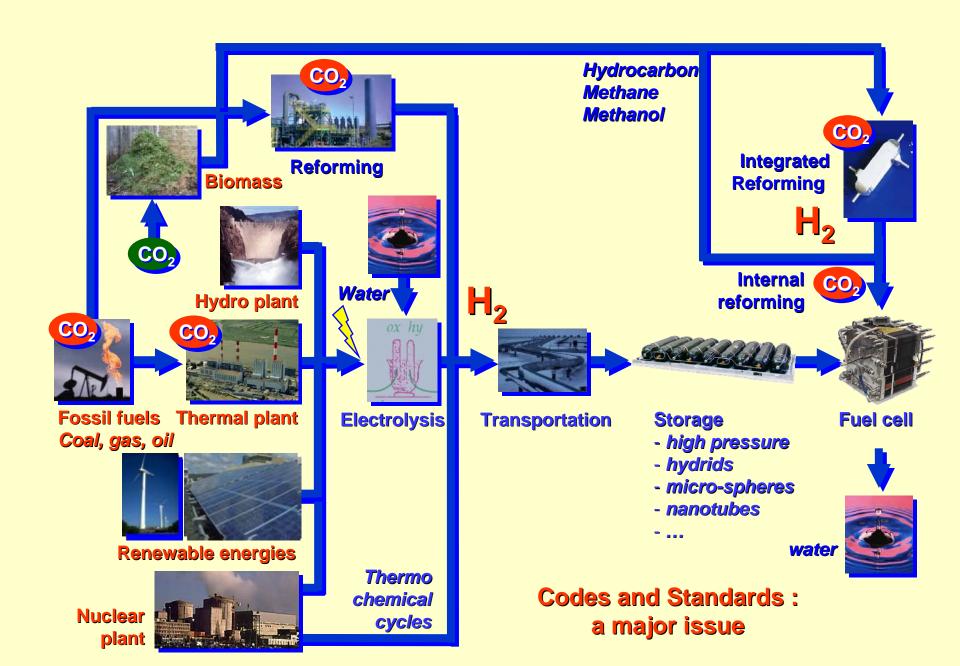


PAN-H: Hydrogen High-Level Group

- Public research organizations
- Industry
- Academic research
- Major Goals : PEMFC, transport and distribution, high-temperature processes for H2 production
- 5-years Action Plan (2006 2010)
- Proposal 600 M€ (40% public 60% industry)
- Budget being discussed (NRA NII)

A National Strategy









The Shanghai surprise

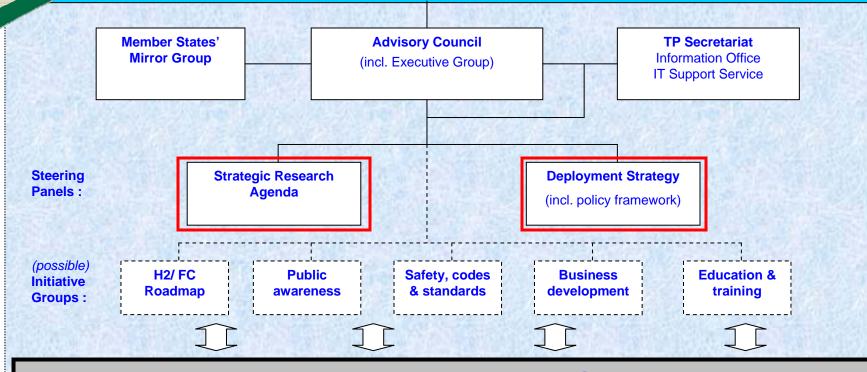
4 seats 850 Kg 400 Km





Community Research

H2/ FC TECHNOLOGY PLATFORM



PLATFORM OPERATIONS

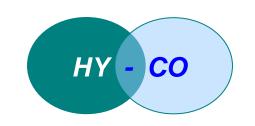
New and on-going projects and initiatives (EC + MS national, regional and local)

GENERAL ASSEMBLY

(Bi-)annual Technology Platform Forum



HY-CO: ERA-NET on Hydrogen and Fuel Cells

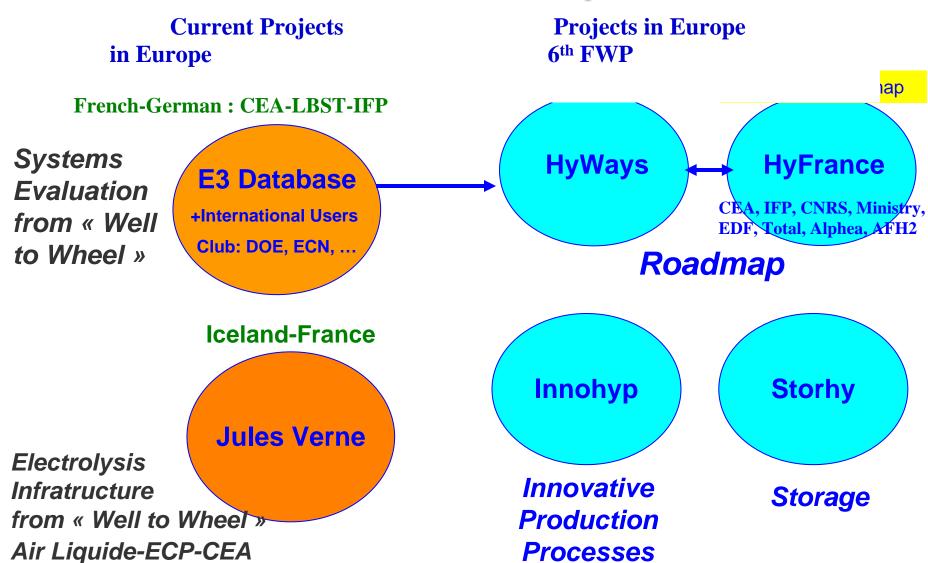


(1 October 2004 – 31 October 2008)

- Program coordination of H2/FC R&D activities
- 21 participants from 16 countries
- A common knowledge base
- HY-CO strengthens the European R&D and demonstration infrastructure on H2/FC technologies through joint activities
- A strong support to the Member States Mirror Group of the H2/FC Platform



Projects in Europe on Hydrogen technologies, economics and environmental impact





World Hydrogen Energy Conference 2006 LYON, France 13th-16th June 2006





Prospects

- Significant R&D results (FC, storage, etc.)
- Strong collaboration between industry and research
- Market, investment, social acceptance and transition to the hydrogen economy are fundamental issues
- R&D Effort in key areas to be focused and increased in the new agencies (Research and Industry)
- A strong partnership with EU HTP
- Looking forward to IPHE projects