

The H₂-Mobility Initiative

Overview of Status, Perspectives & Challenges

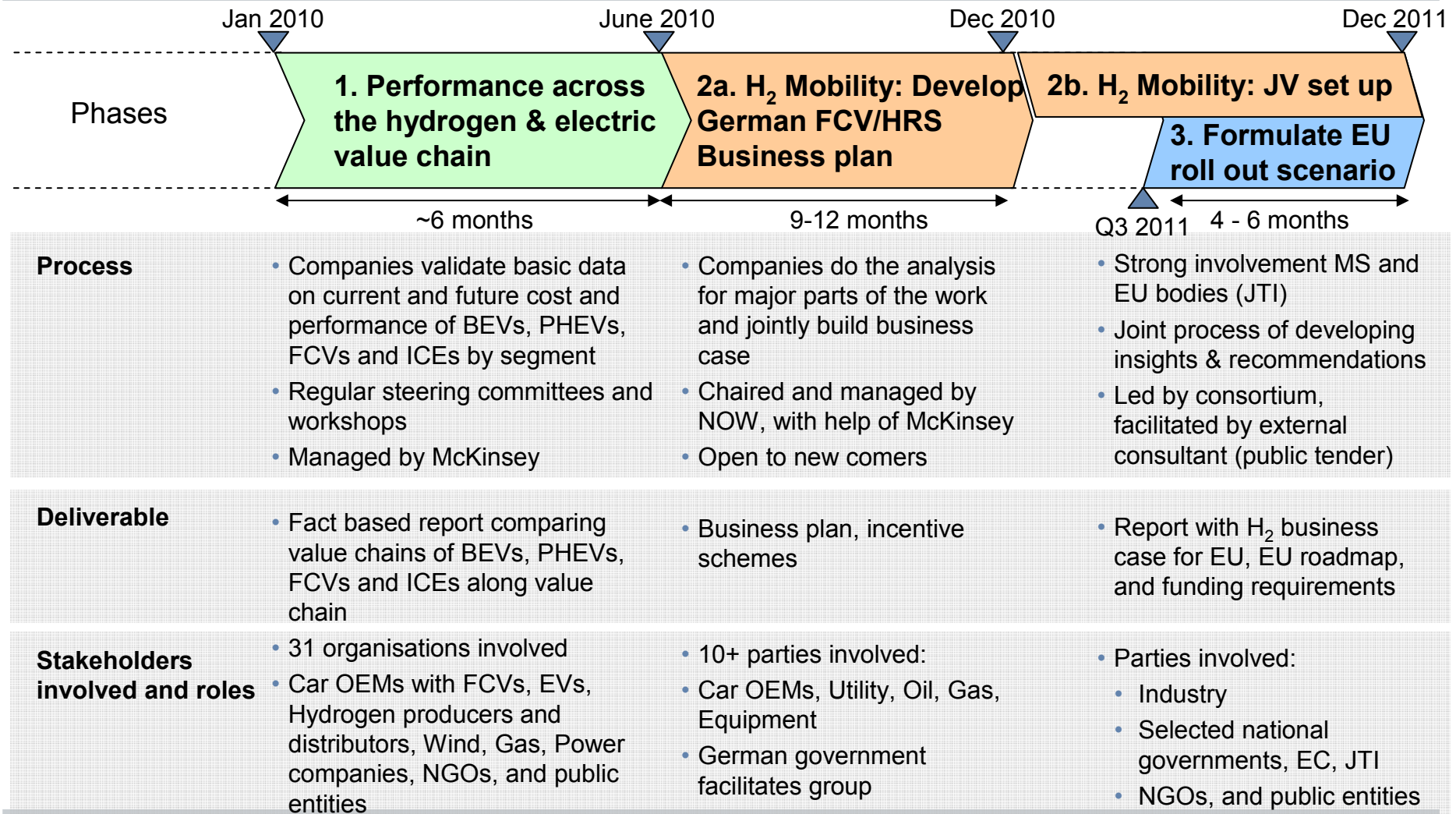
Philippe Mulard - TOTAL

09 November 2010

FCH SGA 2010

H₂ Mobility

Preparing Fuel cell vehicles deployment in Europe



Status of H₂ Mobility Consortium

Stakeholder groups in the field of mobility

The core Group of MoU Signatories

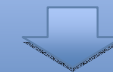


Additional Partners incl. OEMs
from
EU Coalition Study are
currently joining the Initiative:



- enlarged Industry interest
- additional input contributions

Project Management and
WGs Coordination & Support

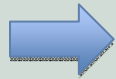


Contracted Consulting Firm

Organisation of the H₂-Mobility Consortium

- **Phase 1: 2009 – 2011**

- 1.1 : Technico-economical evaluation of the feasibility to deploy a network of HFS alongside the expected deployment of FCVs in Germany by 2015 (2009 – 2010)



***Economics of Business Plan are being currently optimized
Consolidation of Business Plan by mid December***

- 1.2 : Definition of the future Consortium Agreement Contract / Partners negotiation phase (2011)

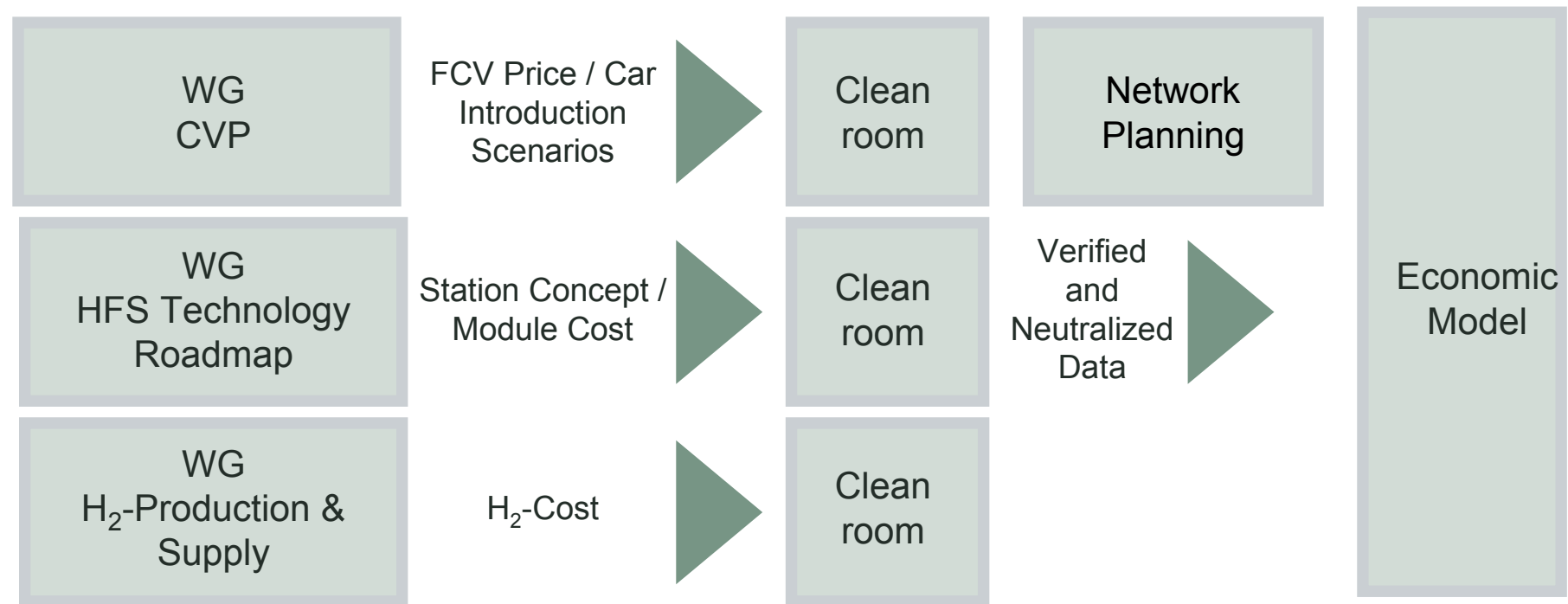
- **Phase 2: 2011+**

- Implementation of the Business Plan defined in Phase 1 through the agreed definitive agreement between partners

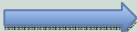
Organisation of the H₂-Mobility Consortium

10 WGs set up to achieve Phase 1: **6 WGs up & running for Phase 1.1 today**

- **CVP, Network Planning, Economic Modelling, H₂-Production & Supply, Future Consortium, Environment, HFS Technology Roadmap, Legislation, Incentives Schemes, Marketing & Communication.**



H₂-Mobility Initiative: Perspectives & Challenges

Consolidation of a viable CO₂ free Hydrogen production Roadmap must be achieved  Political Support

- **Phase 1.2:** Definition of the future Consortium Agreement Contract / Partners negotiation phase = 2011
 - **Most critical Phase** = Partners Internal Validation of original Business Case (Q1-2).
 - Parallel negotiations for future Venture (Q1-Q4) incl. legal reviews.
 - Project Financing Options will need careful evaluations.
 - Process likely to be time consuming.
 - Main Outcome: Identification of **Committed Partners** for Phase 2 (Implementation).

Towards an EU roll out

- The success of H₂ Mobility should allow further FCEVs/HRS Roll out activities in other EU regions/MSs
- Subsequent EU Roll out study will be made “conditional” to successful outcome of H₂ Mobility
- Study will be implemented by the Fuel Cell and Hydrogen JTI with participation of coalition of interested companies and governments
- Main critical issues:
 - Alignment of Industry Stakeholders & Governments
 - Adaptation of H₂ decarbonization routes to Regions specificities



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Thank you very much for your attention

H₂ Mobility