







A year of a public-private partnership

Outline

- Context
- Key Features of the Fuel Cells and Hydrogen Joint Undertaking (FCH JU)
- Progress Report
 - Establishing the FCH JU Structure
 - Executing Core Activities
- Main Challenges
- Towards Autonomy

Context: EU Energy Targets

By 2020 – three 20s:

- 20% reduction in GHG emissions
- 20% reduction in global primary energy consumption
- 20% share of renewable energy within total consumption, with 10% share in transport

 By 2050: 80% reduction in GHG in industrially developed countries – G8 in Aquila, Italy

A Critical Challenge

- From 80% dependency on fossil fuels to 80% reduction in GHG emissions in 40 years!
 - A reinvention of our energy system
 - A need to move to a low-carbon economy
 not easy, cheap or swift
 - Technology and the efficient use of resources are essential for this transition

Fuel Cell and Hydrogen Technologies

- Great potential to contribute to Community policies, in particular:
 - Energy
 - Environment
 - Transport
 - Industrial competitiveness
- With market growth, most importantly, longerterm contribution to 2050 goal of 80% reduction in GHG



FCH JU Key Features

Objectives

- Accelerate the development and deployment of fuel cell and hydrogen technologies
- Technology base for commercialisation in timeframe 2015-2020



A Public-Private Partnership

- The European Community represented by the Commission
- European Industry Grouping for the Fuel Cells and Hydrogen Joint Technology Initiative (NEW-IG)
- New European Research Grouping on Fuel Cells and Hydrogen (N.ERGHY)

Bodies

- Executive Bodies:
 - Governing Board
 - Executive Director supported by Programme Office

Advisory Bodies:

- FCH States Representatives Group
- Scientific Committee
- Stakeholders' General Assembly (SGA)

Governing Board

- Decisions are taken by consensus, or by ³/₄ majority if consensus is not possible
- 12 Members: 6 IG (including 1 SME), 1 RG, 5 EC





Funding

By launching annual, open and competitive calls for proposals

Budget and cost-sharing:

For 2008-2013:	EUR 940 million (minimum)
EC budget:	EUR 467 million (in cash)
Industry:	EUR 450 million (minimum in kind) EUR 20 million (in cash)
Research:	EUR 3 million (in cash)

50/50 cost-sharing between the Community and industry

Budget of Annual Calls



P. Vannson, SGA 2009

Progress Report: Since SGA 2008...

- The Commission is responsible for the establishment and initial operation of the FCH JU (Art.16)
 - Interim Executive Director nominated in November 2008
 - Interim programme office established within the Commission, supported by other relevant units
- Mission
 - Establishing the FCH JU structure
 - Executing core activities

Progress Report: Establishing the FCH JU Structure

All bodies established and active

- Recruitment of 20 staff well advanced
- Legal and financial framework in place
- Infrastructure in place by end of year

Bodies

States Representatives Group

- Nominations by Member States in autumn 2008
- Establishing meeting in December 2008
- Second meeting in March 2009: Input to AIP 2009 and MAIP
- Chair: Bernard Frois, France
- Vice-Chairs: Axel Mortensgaard, Denmark Georg Menzen, Germany

Scientific Committee

- Adoption of specific criteria and selection process for composition of Scientific Committee
- Appointment of 9 members by Governing Board in 2009
- First meeting in March 2009: Input to AIP 2009 and MAIP
- Chair: xxxx
- Vice-Chair: xxxx

Programme Office Staff

- Staff Policy Plan adopted in May 2009
- Publication of 18 vacancies in 2009, including that of Executive Director
- More than 800 candidacies received
- Selection by panels, including representatives of all FCH JU members
- Recruitment well advanced: First recruits to start in December 2009, all staff in place by March 2010
- Staff Implementing Rules ready for adoption

Financial Structure

- Modification of the Commission's budget structure (from 2010 budget onwards)
- Preparation of a budget scenario for running costs until 2017
- Preparation of General Financing Agreement Approved by the European Commission in September 2009
- Accounting system ready for implementation in December 2009: ABAC

Infrastructure and Services 1/2

Housing

- Temporary housing at EC's Covent Garden building
- Permanent housing: market procedure ongoing
- IT infrastructure
 - Procurement of hardware and network services together with other JTIs finalised in October 2009
 - Configuration of existing IT tools for FCH JU needs

Infrastructure and Services 2/2

Service-level agreements concluded with EC services

- Salaries
- Medical service
- Training
- FP7 IT tools

Framework Agreement concluded with the Joint Research Centre

- Contribution to pre-normative research
- Provision of services as reference laboratory
- Support for formulation of FCH JU strategy

Progress Report: Executing Core Activities

- Multi-Annual Implementation Plan (MAIP)
- Annual Implementation Plan (AIP) 2009
- Call for proposals 2008 (EUR 28.1 million)
- Call for proposals 2009 (EUR 71.3 million)
- Communication activities

Multi-Annual Implementation Plan

Public Awareness, Education

Market Support (SME Promotion, Demand-Side Measures, etc.)

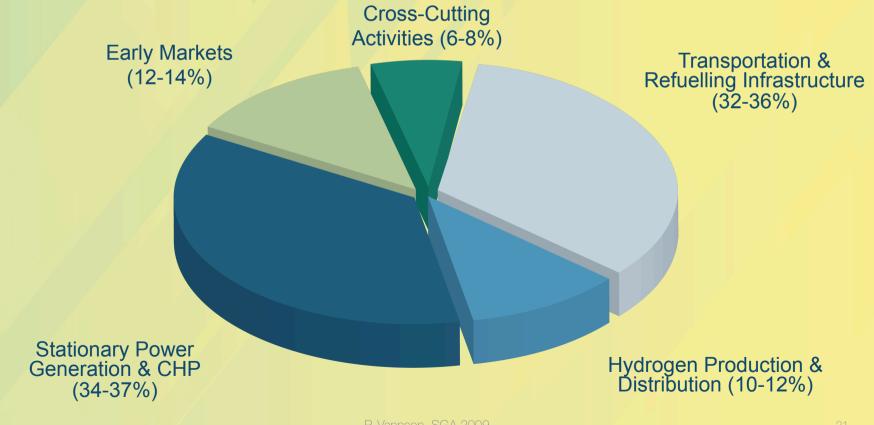
Demonstrations			Backup/UPS
Vehicles & Infrastructure	Low Carbon Supply Chain	System Readiness Manufacturability	Off-road H2 Vehicles Micro/Portable FC

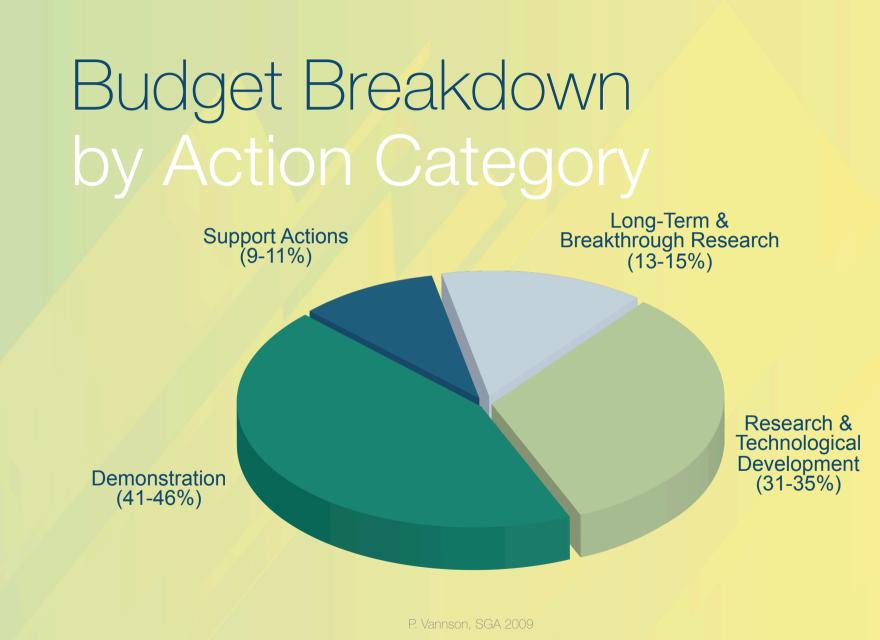
Technology, Sustainability & Socio-Economic Assessment Framework **Specific PNR & Harmonised RCS**

Research and Technological Development					
Stack & Subsystems	Processes & Modules	Periphery & Components	Systems & Integration & Testing		
Components	New Technologies	Material & Design & Degradation & Research			
Long-term and Breakthrough-Orientated Research					
Transport & Refuelling	Hydrogen Production &	Stationary Power	Early Markets		

Adopted in May 2009

Budget Breakdown by Application Area





Preparing Calls for Proposals

- In line with the MAIP
- AIPs including
 - Call topics
 - Budget
 - Upper funding limits and other call provisions
- Rules for submission of proposals;
 the related evaluation and award procedure
- Guide for Applicants
- Grant Agreement

Call 2008 Overview

- Publication date: 8 October 2008
- Deadline: 15 January 2009
- Budget: EUR 28.1 million
- Topics in areas:
 - Transportation and refuelling infrastructure
 - Hydrogen production & distribution
 - Stationary power generation & CHP
 - Early markets
 - Cross-cutting issues

(EUR 8.9 million) (EUR 2.9 million) (EUR 12 million) (EUR 2.6 million) (EUR 1.7 million)

 16 projects selected for negotiations which started in early June; 15 almost concluded

Call 2009 Overview

- Publication date: 2 July 2009
- Deadline:

15 October 2009 Budget: EUR 71.3 million

- Topics in areas:
 - Transportation and refuelling infrastructure
 - Hydrogen production & distribution
 - Stationary power generation & CHP
 - Early markets
 - **Cross-cutting issues**

(EUR 26.4 million) (EUR 5.7 million) (EUR 25.9 million) (EUR 10.3 million) (EUR 3.0 million)

XX Proposals received: Evaluation 16-20 November 2009

Communication

- Communication strategy prepared adoption by Governing Board pending
- Website: <u>http://ec.europa.eu/research/fch</u>
- Preparation of Stakeholders' General Assembly 2009
- Inputs to media on request



Main Challenges

- Funding rules matching of FCH JU's contribution by industry
- Cooperation with Member States and regions
- Regulations, Codes and Standards
- Targets and milestones
- Strategy for implementing large demonstration projects
- Modalities for interface with other EU polices
- International cooperation strategy

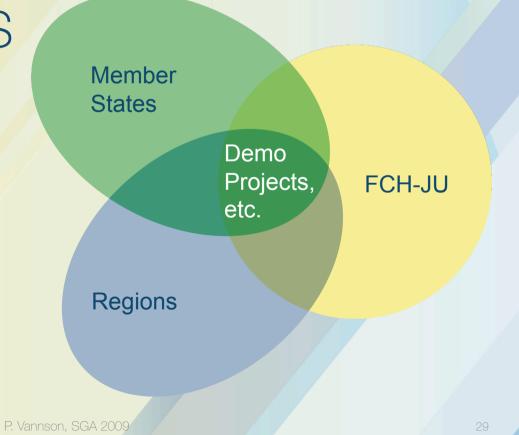
Funding Rules

Statutes of the FCH JU:

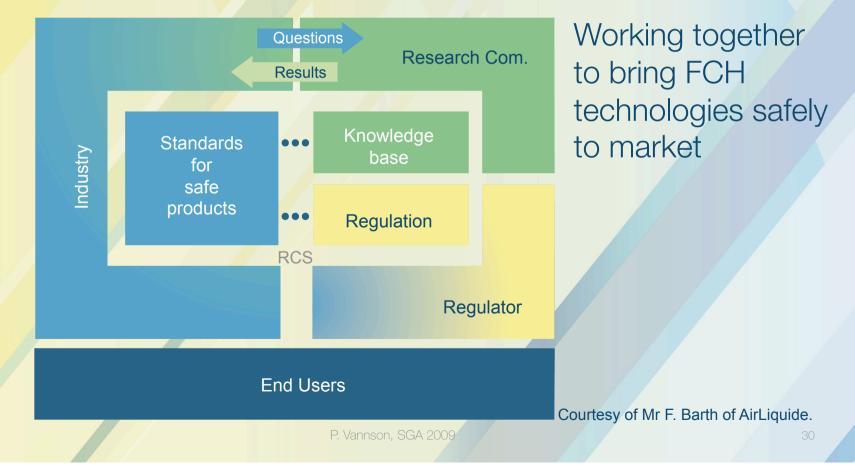
- Art. 12(3): 'The industry [in-kind] contribution shall at least match the Community's contribution'
- Art.15(3): 'In case lower levels of funding will be necessary to comply with the matching principles referred to in Article 12(3), the decreases shall be fair and balanced proportionally'
- To approach a balance in industry matching in the 2008 Call, real funding rates for direct eligible costs had to be reduced by a factor of ~0.67 to approximately:
 - 33% of total direct costs for large industrial participants
 - 50% for SMEs, non-profit public bodies, universities, higher education establishments and non-profit research organisations

Cooperation with Member States and regions

Need to cooperate to optimise use of resources - Forward planning imperative!



Regulations, Codes and Standards



Towards Autonomy

Capacity to implement the budget autonomously, including:

- All bodies established
- Executive Director or Interim
- Accounting Officer and other key staff
- Accounting system
- Internal control framework
- Budget available
- Bank account
- Goal: Autonomy by 15 March 2010

More information

FCH JU official website: <u>http://ec.europa.eu/research/fch</u>

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European Industry Grouping for a FCH-JTI (NEW-IG): <u>http://www.fchindustry-jti.eu</u>

New European Research Grouping on FCH (N.ERGHY): <u>http://www.nerghy.eu</u> (forthcoming) <image>

P. Vannson, SGA 2009

Thank you for your attention

P. Vannson, Stuttgart Sept 2009