

Fuel Cells and Hydrogen Joint Undertaking (FCH JU)

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Outline



1. Introduction

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1. Introduction

To strengthen Europe's position as a technologically innovative economy, 5 Joint Undertakings have been set up, including **the Fuel Cells and Hydrogen Joint Undertaking (FCH JU)**, the first JU in the field of energy technology.

They focus on fields of high **industrial and policy relevance.**

FCH JU

Why?



- The FCH JU's main **goal** is to accelerate the development of fuel cell and hydrogen technologies in Europe and enable their commercialisation between 2010 and 2020.
- Co-ordinate research efforts and respond to **industry needs**

FCH JU

What?



- Long term **public – private** partnership supporting research, technological development and demonstration
- The FCH JU is established under **Article 171** of the EC Treaty
- Adoption of the Regulation 521/2008 setting up the FCH JU by the Competitiveness Council on 30 May 2008
- FCH JU shall support RTD activities following open and competitive calls for proposals, independent evaluation, and the conclusion of a Grant Agreement and a Consortium Agreement for each project .

Members of the FCH JU

- The European Fuel Cell and Hydrogen **JTI Industry Grouping** and the **European Community**, represented by the Commission, are the **founding members**
 - *Industry Grouping currently has **67** members*
- The New European **Research Grouping** on Fuel Cells and Hydrogen became a member at the first meeting of the FCH JU Governing Board
 - *Research Grouping currently has **54** members*

Bodies of the FCH JU

- **Executive bodies:**
 - Governing Board
 - Executive Director

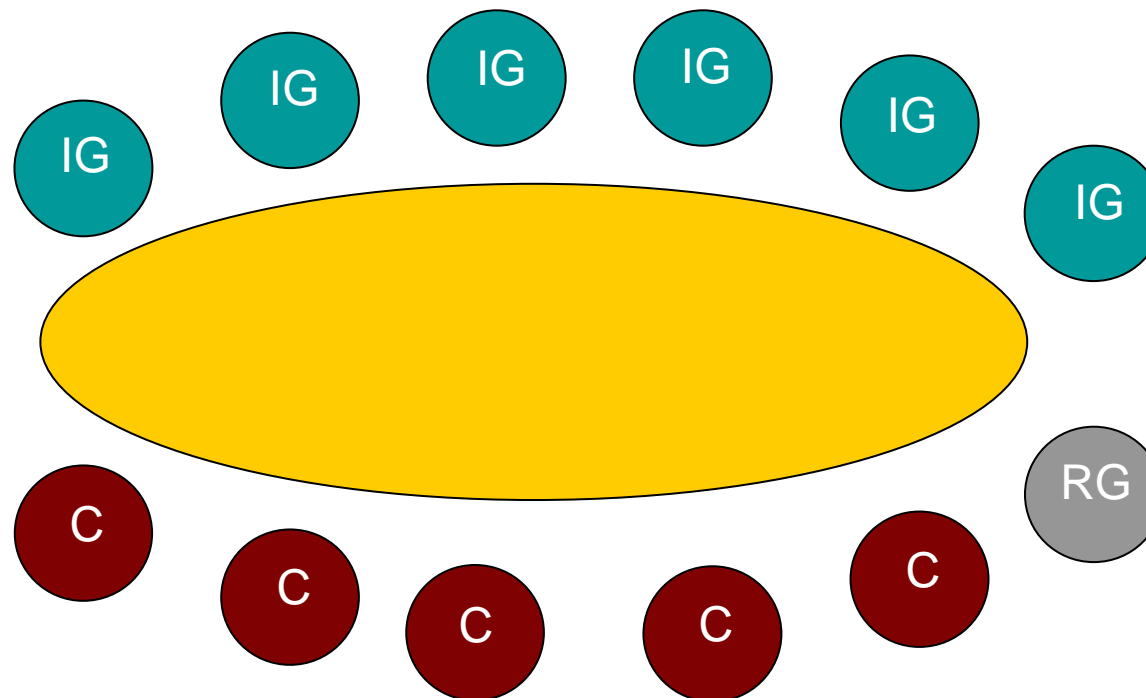
- **Advisory bodies:**
 - FCH States Representatives Group
 - Scientific Committee
 - Stakeholders' General Assembly

Governing Board



Decisions are taken by consensus and if this is not possible, by $\frac{3}{4}$ majority

12 Members : 6 IG (including 1SME), 1RG, 5 EC



Not legally binding

Budget and cost sharing of the Fuel Cells and Hydrogen JU

- × For 2008 – 2013: **€ 940 M** (minimum)
- × EC budget : **€ 470 M** (in cash)
- × Industry : **€ 450 M** (minimum in kind)
€ 20 M (in cash)
- × Close follow-up to monitor and ensure the 50/50 cost sharing between the Community and industry

Interim Measures

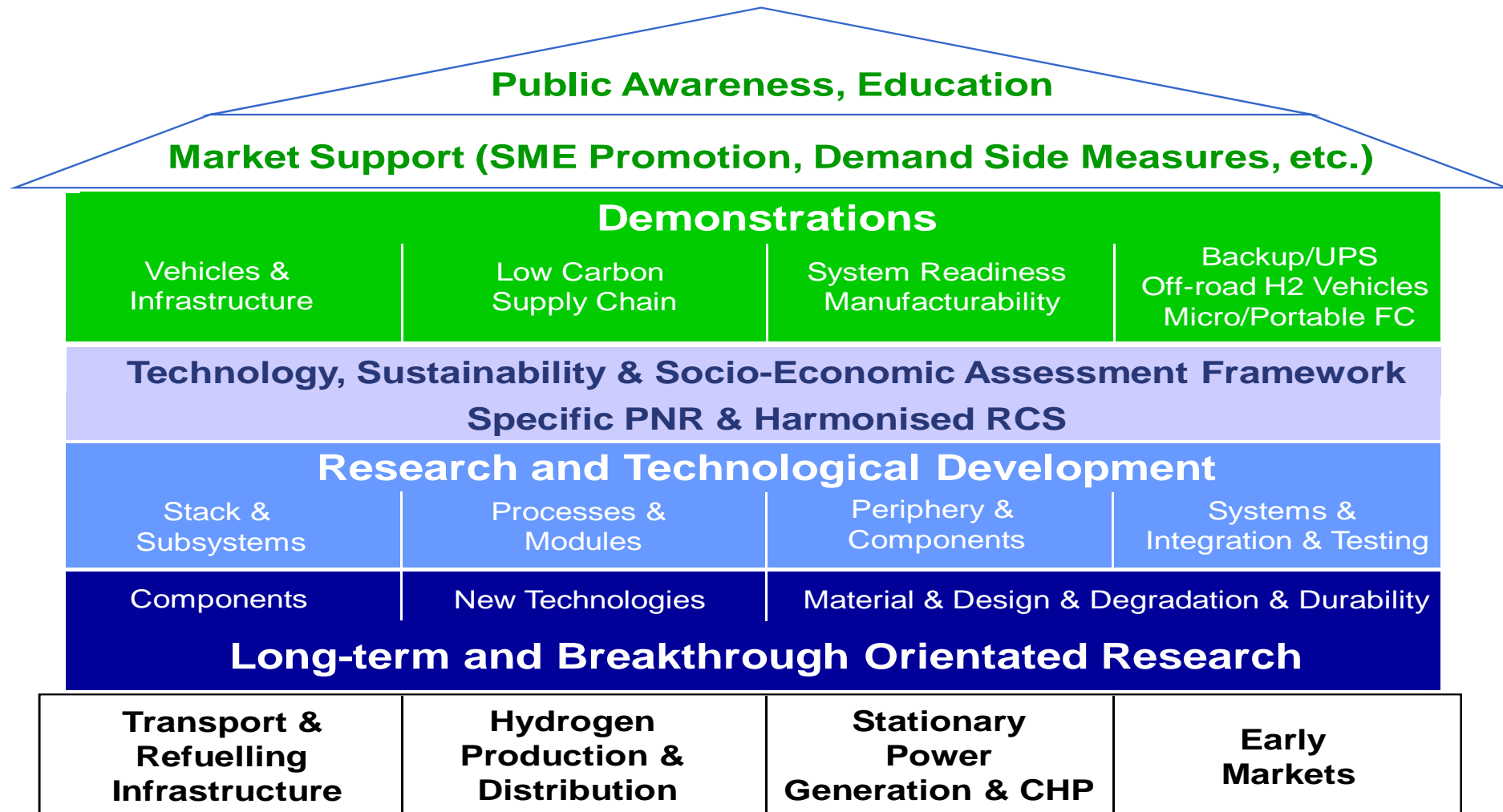
- During the **interim phase**, the **Commission is responsible** for the establishment and initial operation until the JTI has the operational capacity to implement its own budget.
- **Autonomy** foreseen for the first semester of 2010

2. Multi-Annual Implementation Plan

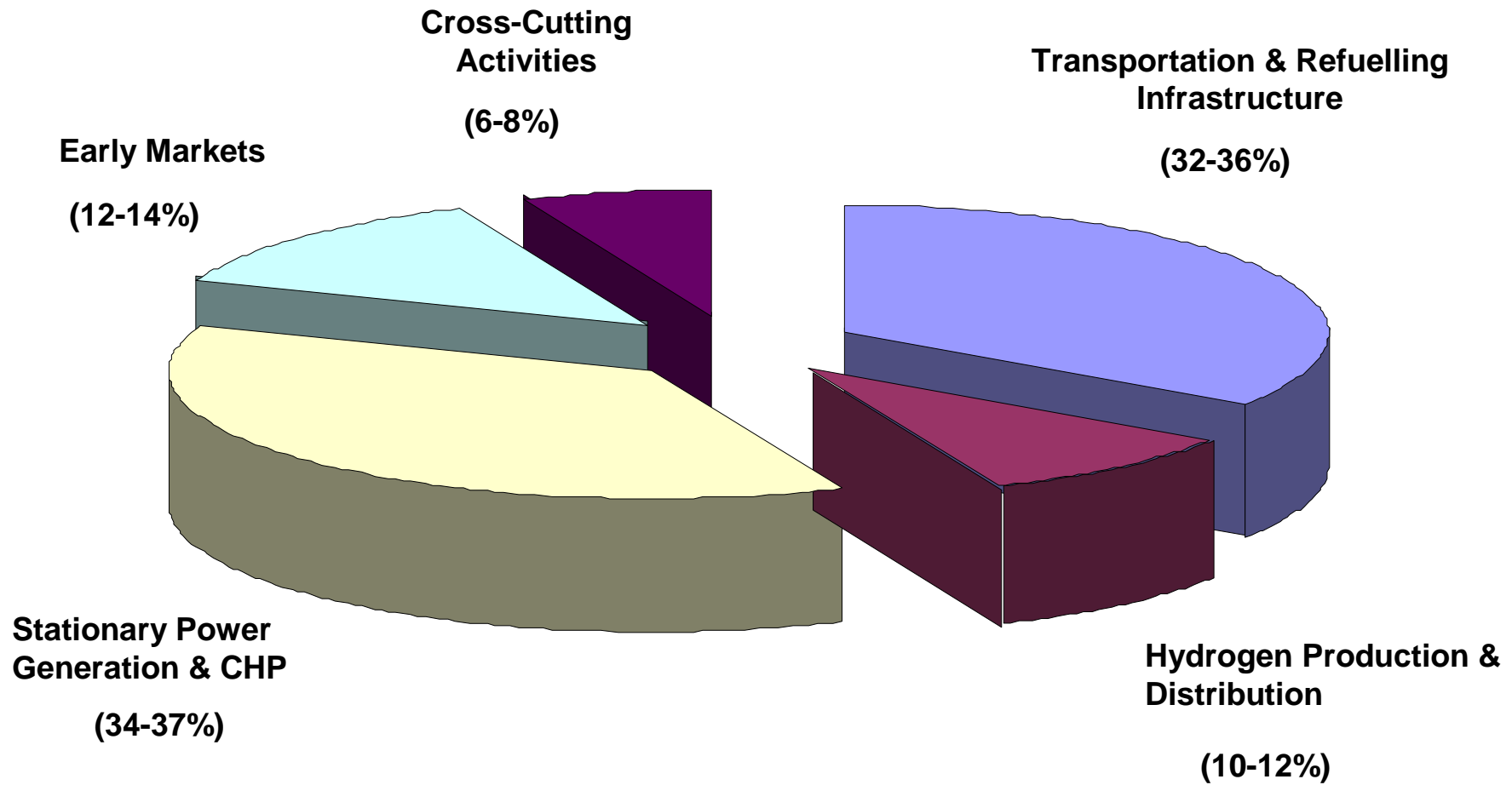
Objectives

- ***FCH JU is a part of the Strategic Energy Technology (SET) Plan: Contributing to the EU's goals for 2020***
 - 20% reduction in GHG emissions
 - 20% reduction in global primary energy
 - 20% share of **renewable energy** in the EU's overall mix and 10% share of renewable energy in transport
- ***With market growth, most importantly longer-term contribution to 2050 goal of 60 to 80% reduction in GHG***
- ***Reduce the time for market introduction of FCH by 3-5 yrs***
- ***Technology base for commercialisation in the time-frame 2015-2020.***

Preliminary Structure of the MAIP

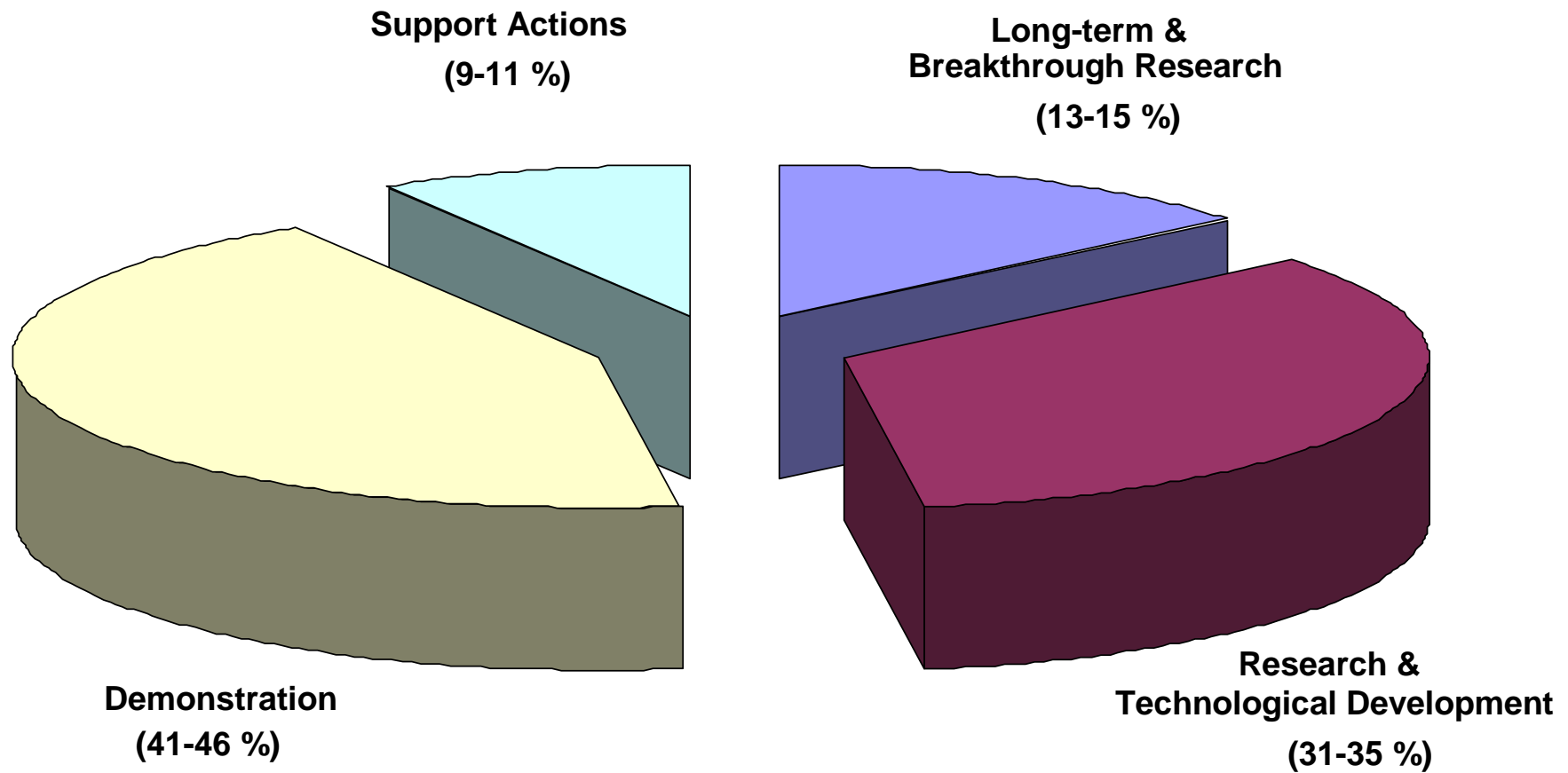


Preliminary Budget Breakdown by Application Area



Not legally binding

Preliminary Budget Breakdown by Action Category



Not legally binding

3. Calls for Proposals

Participation Conditions



- Minimum **3** independent legal entities from **different MS/AC**
- At least **one legal entity** belonging to the **Industry Grouping** or **Research Grouping** in each project
- **All** legal entities and international organisations **can participate**
- As a rule, **third country** participants are **not eligible for funding**
- In general, **co-ordinator** will be IG/RG member

Call for Proposals 2008

- **Call 2008 published 8 October 2008 - closed on 15 January 2009**
- **Evaluation of proposals concluded in February 2009**
- **Quick info on the evaluation results sent to applicants on 6 March**
- **Clarifications requested by 26 March**
- **The Governing Board approved on 15 May a list of 16 proposals to start negotiations with**

Overview of the Call

FCH-JU-2008-1

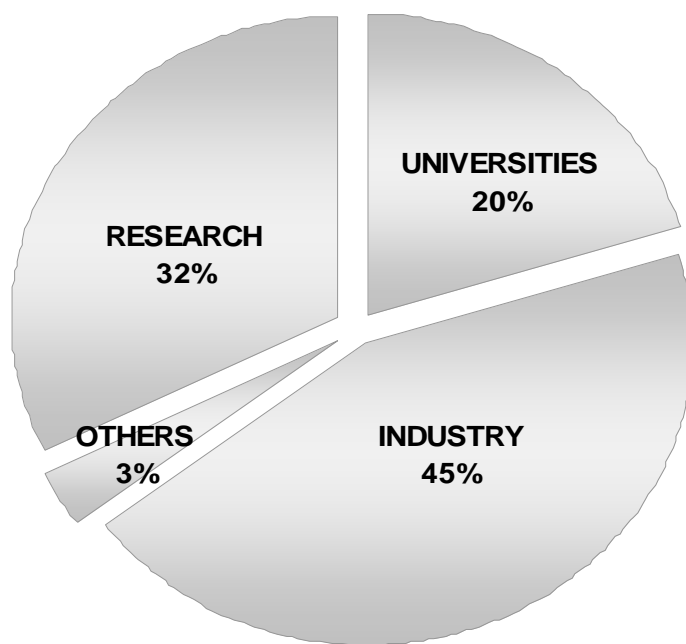


- ***Publication date: 8 October 2008***
- ***Deadline: 15 January 2009***
- ***Budget:***
 - **EUR 28.1 million**
- ***Topics in different areas:***
 - Transportation & Refuelling Infrastructure : **EUR 8.9 million**
 - Hydrogen Production & Distribution : **EUR 2.9 million**
 - Stationary Power Generation & CHP : **EUR 12 million**
 - Early Markets : **EUR 2.6 million**
 - Cross-cutting Issues : **EUR 1.7 million**

Call 2008 - Participation

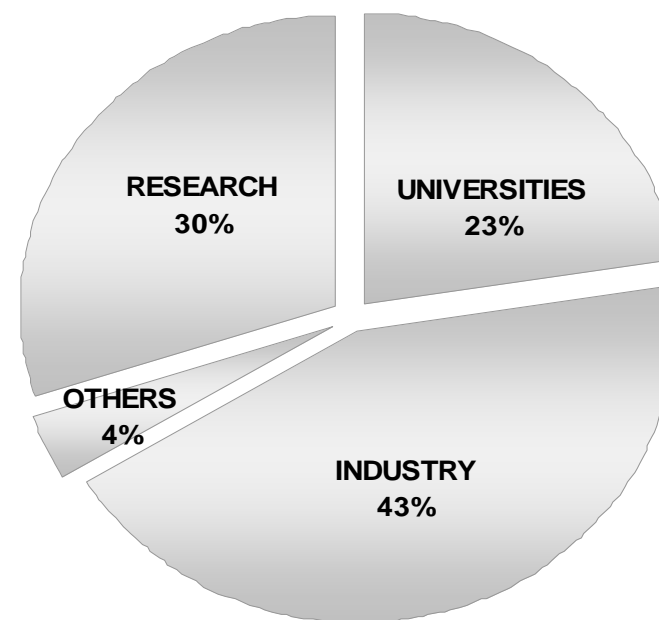


- Total number of proposals: **32**
- Total number of coordinators from IG/RG: **27** (IG:14 + RG: 13)
- Total number of partners: **243**
- SMEs (declared in the submission): **78**



Budget breakdown

(Total requested grant = 68.4 M€)



Participant organisation type

(Number of participants = 243)

Call 2008 - Evaluation outcome

Application areas	Proposals submitted to evaluators	Below thresholds proposals		Above thresholds proposals		
			%		%	Requested FCH-JU contribution (M€)
<i>Transportation & Refuelling Infrastructure</i>	4	1	25	3	75	12.10
<i>Hydrogen Production & Distribution</i>	7	4	57.14	3	42.86	4.54
<i>Stationary Power Generation & CHP</i>	15	6	40	9	60	19.50
<i>Early Markets</i>	5	3	60	2	40	3.23
<i>Cross cutting Issues</i>	1	0	0	1	100	0.27
TOTAL	32	14	43.75	18	56.25	39.64

• **16 proposals approved for negotiations on 15 May**

available budget 28.1 mill €

Overview of the Call - Indicative

FCH-JU-2009-1



- ***Publication date: 15 June 2009***

- ***Deadline: 8 October 2009***

- ***Budget:***
 - **EUR 71.3 million**

- ***Topics in different areas:***
 - **Transportation & Refuelling Infrastructure : EUR 26.4 million**
 - **Hydrogen Production & Distribution : EUR 5.7 million**
 - **Stationary Power Generation & CHP : EUR 25.9 million**
 - **Early Markets : EUR 10.3 million**
 - **Cross-cutting Issues : EUR 3.0 million**

Call 2009 - Funding Limits

Type of organisation	Type of Activity		
	RTD	Demonstration	Other
Industry (other than SME)	CP: max. 50% CSA: max. 100%	CP: max. 50% CSA: max. 100%	CP: max. 100% CSA: max. 100%
SME	CP: max. 75% CSA: max. 100%	CP: max. 50% CSA: max. 100%	CP: max. 100% CSA: max. 100%
Non-profit public bodies, universities & higher education establishments, non-profit Research organisations	CP: max. 75% CSA: max. 100%	CP: max. 50% CSA: max. 100%	CP: max. 100% CSA: max. 100%

- Funding rates are adapted in line with the industry matching requirement

4. Next steps

Next steps



- **Preparing the next version of MAIP:**
 - Strategy for implementing large demonstration projects
 - Better defined targets and milestones
 - Role of Programme Office in Regulation Codes and Standards
 - International cooperation strategy
 - Modalities for the interface with other EU polices

- **Preparing the next calls**
 - Launch of 2009 Call scheduled for 15 June
 - Working Groups being organised for the 2010 topics

- **Communication Strategy**

- **Appointing staff**

- **Ensuring that the FCH JU has the capacity to implement its budget autonomously**

Co-operation with Member States and Regions



- Advance planning imperative to align activities and to exploit synergies
- With Member States and Associated Countries coordination through States Representatives Group
- With Regions, cooperation started through HyRaMP
- Pilot projects being explored:
 - Bus demonstration together with the Hydrogen Bus Alliance
 - Forklifts



THANK YOU FOR YOUR ATTENTION

Further information: FCH-JU@ec.europa.eu



European Industry Grouping for a FCH-JTI (NEW-IG)

<http://www.fchindustry-jti.eu>



New European Research Grouping on FCH (N.ERGHY)

<http://www.nerghy.eu> (forthcoming)