

# A Bird's Eye Perspective of SOFC ‚Basic Research‘

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# European H<sub>2</sub>&FC Strategy History

2003: High Level Group, proposal to found the HFPEurope

2004: HFPEurope General Assembly  
**Strategic Research Agenda**  
**Deployment Strategy**

2006: **Implementation Plan** – Form the future JTI work programme that will implement all that is necessary in order to achieve the goals of the ‚2020 snapshot‘.

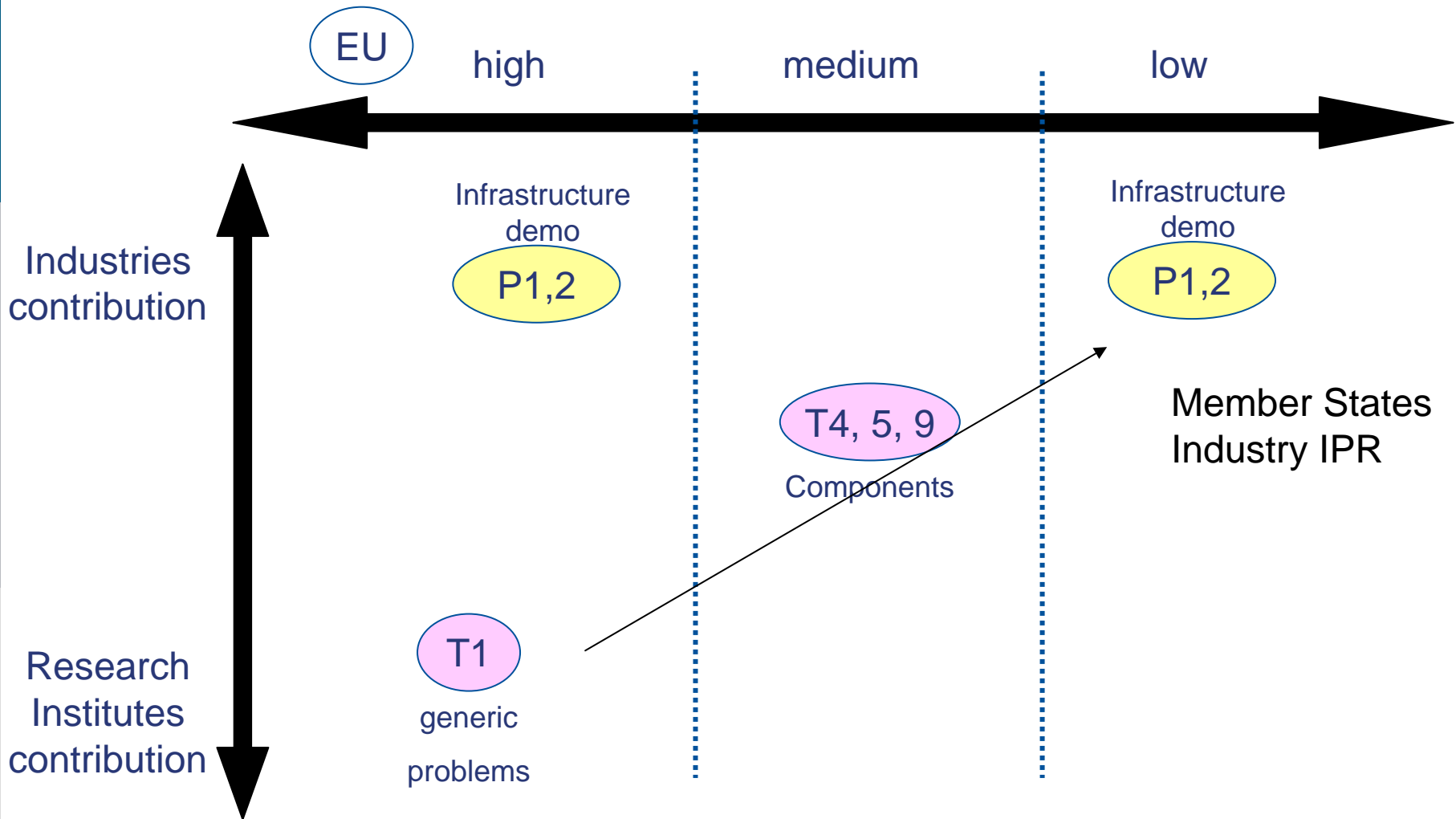
02/2007: 1<sup>st</sup> EU 7<sup>th</sup> FP H<sub>2</sub>&FC call

10/2007: agreements on the H<sub>2</sub>&FC JTI

hand-over of the **complete** EU H<sub>2</sub>&FC programme into the responsibility of the JTI

2008: start of the FCH JU operations

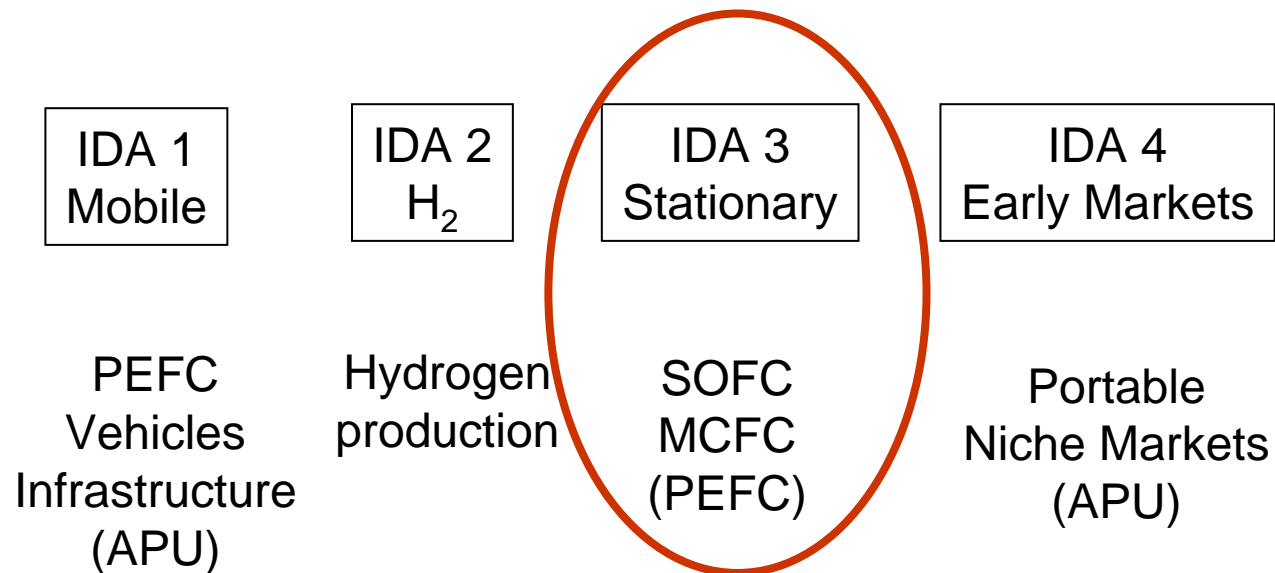
# Example: IP Panel Priorisation of EU Funds



# Joint Undertaking IDA's

IP: Implementable Development Actions

now: Innovation & Development Actions



# „Basic Research“ in the JU Multi Annual Implementation Plan

## BR1

- degradation effects, modelling of degradation, accelerated testing

## BR 2

- new materials

## BR3

- new designs

Based on **existing materials** (and materials sets) and resulting in meaningful results **within the programme** duration that can – within the programme – be **integrated** into next-generation components & products.

## **„Basic Research“ JU Understanding**

- „generic“ in nature, applying to a variety of designs and technologies
- offering basic understanding
- developing new materials and designs (including processes therefore) with a short to mid-term timeline, based on known effects and with a mid-term commercialisation perspective

## „Basic Research“ Science Understanding

- „generic“ in nature, independent of application
- offering basic understanding
- development & application of new methods
- development of new materials and designs (including processes therefore) with a long-term timeline
- break-through research with high risk
- mobilisation of inventiveness, synergies, cross-links
- not a playground for theorists
- should be relevant
- should be validated and integrated into applied projects
- should be coordinated and benchmarked with feedback from industry

## Where should this work be allocated?

- no EU H<sub>2</sub>&FC programme left
  - FC activities (if at all) shifted to NMP programme (high emphasis on ,nano‘ materials and new material development)
  - no programme for long-shot developments in FC
  
  - Basic Research activities will have to revert to national funding – funding improbable
- or
- EU will need to open new programme for FCH Basic Research within 7<sup>th</sup> FP, not limited to rules of the game of NMP