

Fuel Cells and Hydrogen 2 Joint Undertaking

2014 Call for Proposals

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Program Head of Unit
July 2014

PRELIMINARY PROGRAMME - FCH JU Info-day - 10th July 2014

09:00 – 09:30 Registration

- 9.30-10.00: Welcome address and Presentation of the FCH 2 JU Council Regulation – J.L. DELPLANCKE
- 10.00-10.45: AWP2014 – Transport pillar topics & Overarching project topic – E.GIRON

10:45 – 11:00 Coffee break

- 11.00 – 11.45: AWP2014 – Energy pillar topics – N. LYMPEROPOULOS
- 11.45 – 12.00: AWP 2014 – Cross-cutting topics – V.FERREIRA

12:00 – 13:00 Lunch

- 13.00 – 14.00: Call conditions & Proposals submission and evaluation – M.ATANASIU

15:00 -15:15 Coffee break

- 15.15 – 15.30: Validation of beneficiaries, Financial Viability check & Guarantee Fund – E. ROBINO
- 15.30– 16.15: Grant Agreement – N.BRAHY
- 16-15 – 16.30: Introduction to the Industry Grouping and Research Grouping - I. JEMELKOVA
- 16.30 – 16.45: Knowledge management – J-L. DELPLANCKE
- 16.45 – 17.00: National Contact Points for Energy – P. SWIATEK
- 17.00-18.00: Q & A

18:00 Closure of the information day

Adoption procedure of FCH 2 JU under Horizon 2020

European Commission:

- Proposal for a Regulation: 10 July 2013

European Parliament:

(Committee of Regions & Economic and Social Committee):

- ITRE Committee: 23 January 2014
- EP Plenary vote: 15 April 2014

Council of the European Union:

- Adoption: 6 May 2014

Official Journal

- Publication: 7 June 2014 (No 559/2014)
- Entering into force (20 days after publ.): 27 June 2014

FCH 2 JU objectives

Reduction of production costs of long lifetime FC systems to be used in transport applications

Increase of the electrical efficiency and durability of low cost FCs used for power production

Transport

Industrial applications

Residential CHP

Feed to electricity grid

Reduce the use of critical raw materials

Existing natural gas, electricity and transport infrastructures

By-product from Chemical Industry

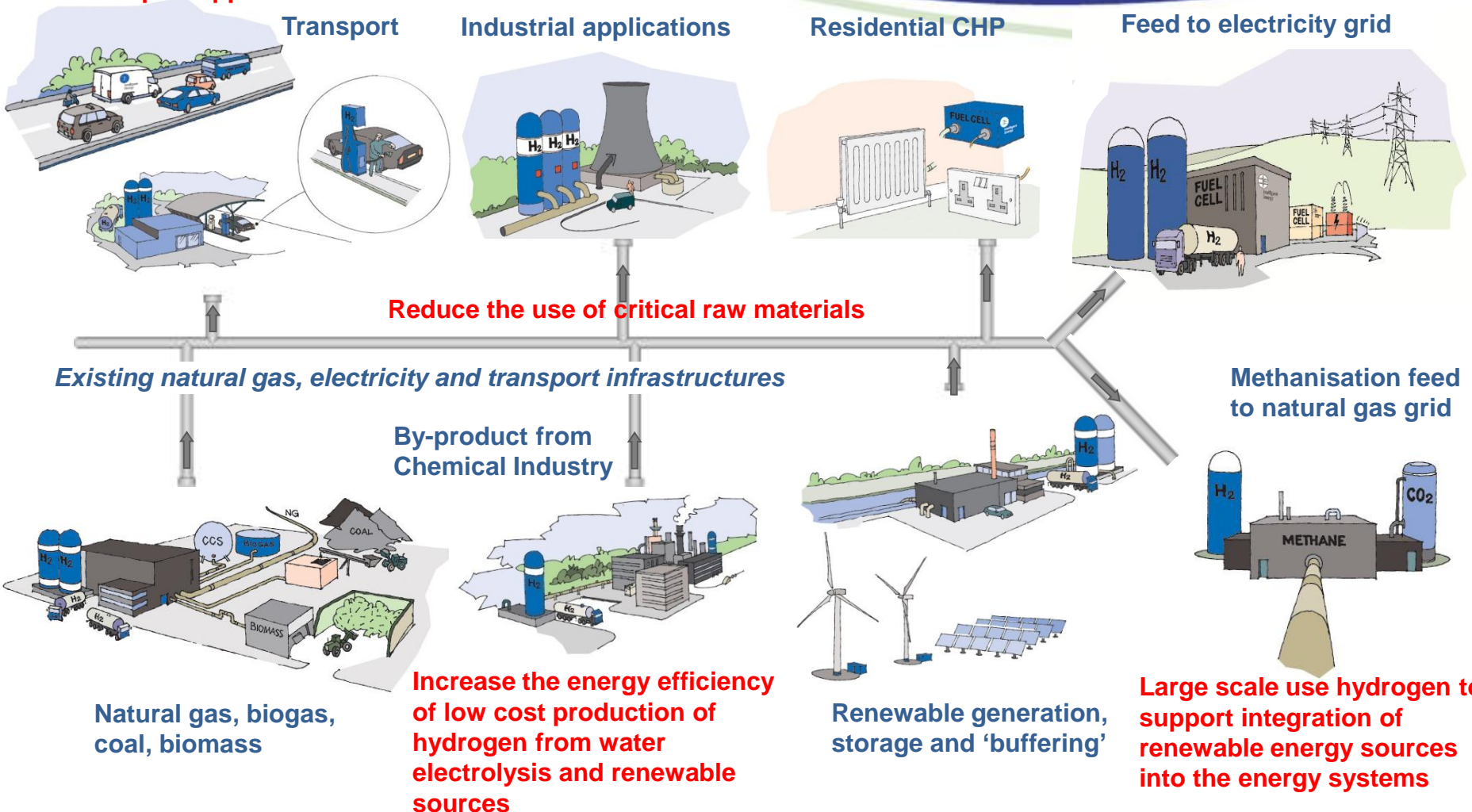
Methanisation feed to natural gas grid

Natural gas, biogas, coal, biomass

Increase the energy efficiency of low cost production of hydrogen from water electrolysis and renewable sources

Renewable generation, storage and 'buffering'

Large scale use hydrogen to support integration of renewable energy sources into the energy systems



FCH 2 JU Stakeholders

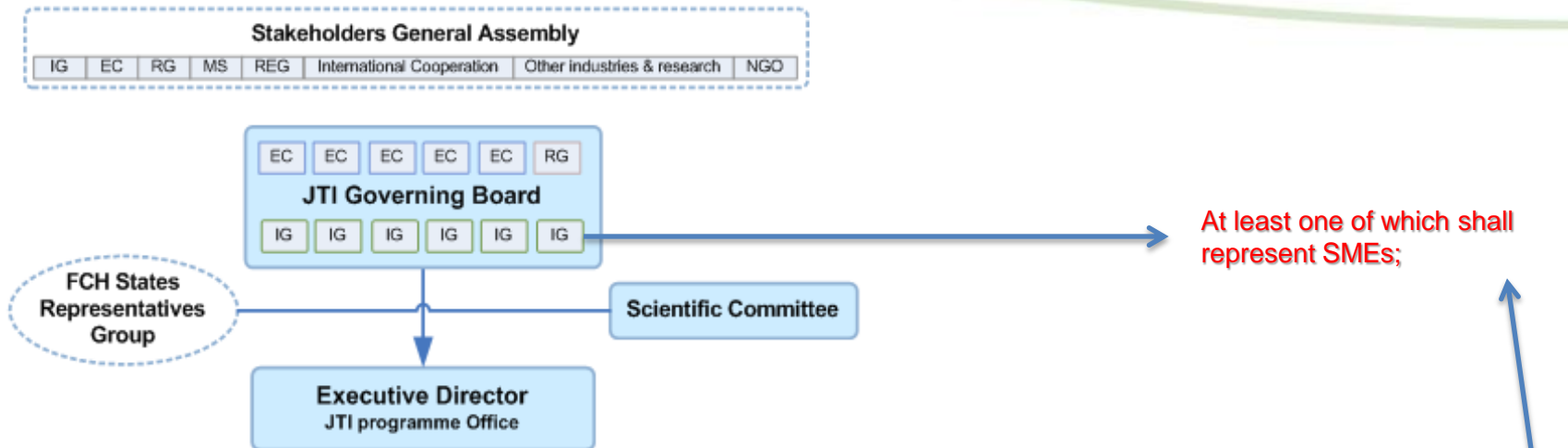
Members of the FCH 2 JU

- the EU, represented by the European Commission;
- the **New Energy World Industry Grouping AISBL**, a non-profit organisation established under Belgian Law (the 'Industry Grouping');
- the **New European Research Grouping on Fuel Cells and Hydrogen AISBL**, a non-profit organisation established under Belgian Law (the 'Research Grouping').

Constituent entities are the entities that constitute each Member of the FCH 2 Joint Undertaking other than the Union

FCH JU Stakeholders

Bodies and composition

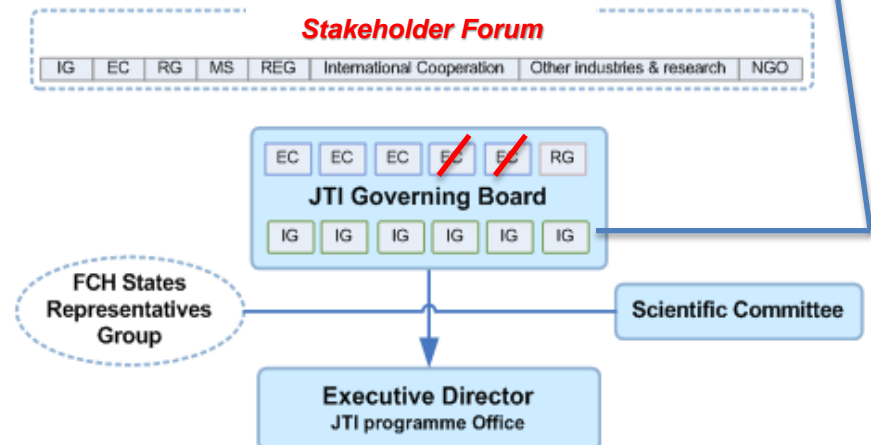


GB voting rights:

The Union shall hold **50 %** of the voting rights. The voting rights of the Union shall be indivisible. The Industry Grouping shall hold **43 %** of the voting rights and the Research Grouping **7 %** of the voting rights. The Members shall use their best efforts to achieve consensus. Failing consensus, the Governing Board shall take its decisions **by a majority of at least 75 % of all votes**, including the votes of those who are absent.

GB meetings: at least twice a year

Observers: SRG* and SC Chair have the right to attend meetings, take part in GB deliberations, but shall have no voting rights



Functioning of the GB

The GB shall have **overall responsibility for the strategic orientation** and the operations of the FCH 2 JU and shall supervise the **implementation** of its activities.

Adopts/approves:

1. the financial rules;
2. the annual budget of the FCH 2 Joint Undertaking, including the staff establishment plan;
3. the annual work plan;
4. **the annual additional activities plan;**
5. the annual activity report;
6. the calls as well as, where appropriate, the related rules for submission, evaluation, selection, award and review procedures;
7. the list of actions selected for funding on the basis of the ranking list produced by a panel of independent experts; **no approval of the batches**
8. where appropriate, set up advisory groups in addition to the bodies of the FCH 2 Joint Undertaking;
9. Others

Scientific Committee

1. The SC shall consist of **no more than nine** members;
2. The members of the SC shall reflect a **balanced representation** of world-wide recognised experts from academia, industry and regulatory bodies.
3. The Governing Board shall establish the specific criteria and selection process for the composition of the SC and shall appoint its members.
4. The SC shall carry out the following **tasks**:
 - (a) advise on the scientific priorities to be addressed in the annual work plans;
 - (b) **advise on the scientific achievements described in the annual activity report.**
5. The SC shall meet **at least twice a year**.
6. The SC may invite other persons to attend its meetings.
7. The SC shall adopt its own rules of procedure.

States Representatives Group

1. The SRG shall consist of **one representative** of each Member State and of each country associated to Horizon 2020.
2. The SRG shall meet at least twice a year. The chairperson of the SRG may invite other persons to attend its meetings as observers, **in particular representatives of regional authorities.**
3. The SRG shall be consulted and, in particular review information and provide opinions on the following matters:
 - (a) **the programme progress in the FCH 2 JU and the achievement of its targets;**
 - (b) **the updating of strategic orientation;**
 - (c) **the links to Horizon 2020;**
 - (d) the annual work plans;
 - (e) **the involvement of SMEs.**
4. The SRG shall also provide information to and **act as an interface** with the FCH 2 JU on:
 - (4.a) **the status of relevant national or regional research and innovation programmes and identification of potential areas of cooperation, including deployment of FCH technologies to allow synergies and avoid overlaps;**

States Representatives Group

(4b) specific measures taken at national or regional level with regard to **dissemination events**, dedicated technical workshops and communication activities;

5. The SRG may, **on its own initiative**, issue recommendations or proposals to the Governing Board on technical, managerial and financial matters as well as on annual plans, in particular **when those matters affect national or regional interests**.

The Governing Board shall inform the States Representatives Group without undue delay of the follow up it has given to such recommendations or proposals, or it shall give reasons if they are not followed up.

6. The SRG shall receive information on a regular basis, among others on the **participation in indirect actions** funded by the FCH 2 JU, on the **outcome of each call for proposals** and project implementation, **on synergies with other relevant Union programmes**, and on the **execution of the FCH 2 JU budget**

Stakeholder Forum

1. The **SF** shall be **open to all public and private stakeholders**, international interest groups from Member States, associated countries as well as from other countries.
2. The SF shall be informed of the activities of the FCH 2 Joint Undertaking and shall be invited to provide comments.
3. The meetings of the Stakeholder Forum shall be convened by the Executive Director.
(And It shall be convened once a year).

The SF is an important communication channel to ensure transparency and openness of the FCH 2 JU activities with its stakeholders.

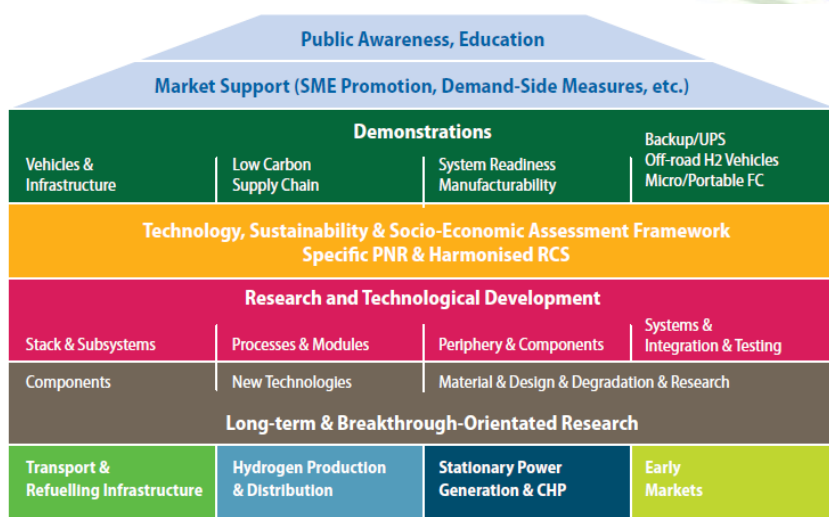
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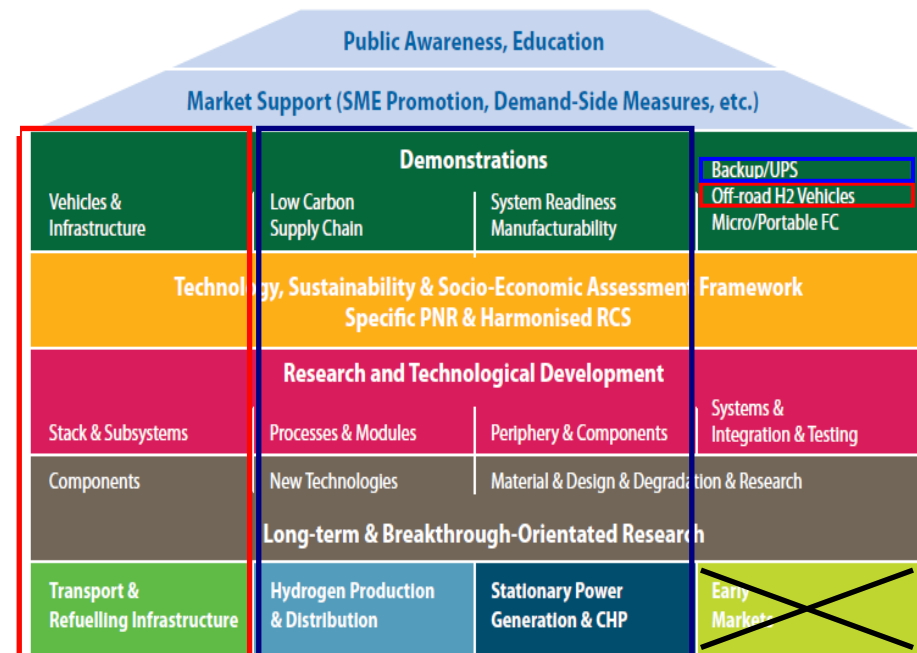
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MAIP 2011 Vs MAWP 2014

Activity areas Vs Pillars



5 Activity Areas



2 Pillars (Transport & Energy)

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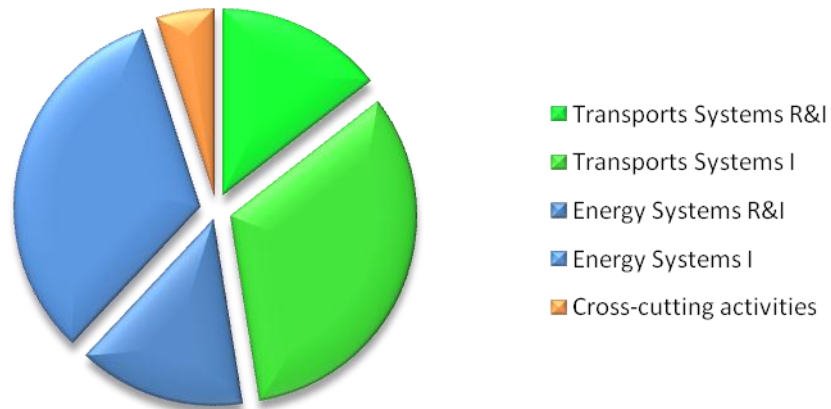
Cross-cutting

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Overarching projects

Budget distribution

Funding distribution	Research and Innovation		Innovation		Total	
Transports Systems	94 (± 5)	14.5%	213 (± 10)	33%	307	47.5%
Energy Systems	94 (± 5)	14.5%	213 (± 10)	33%	307	47.5%
Cross-cutting activities					32	5%
Total	192	29%	426	66%	646	100%



Transport pillar

- Technologies for Transportation Systems
 - Road Vehicles
 - Car & Bus demonstration projects
 - Improvement of fuel cell
 - APUs for trucks or recreational vehicles
 - Two wheelers under discussion
 - Non-road mobile vehicles and machinery
 - Deployment of Forklifts and material handling vehicles
 - Refuelling infrastructure
 - Maritime, rail and aviation application
 - APUs for different applications and propulsion for boats

Energy pillar

- Technologies for Energy Systems
 - Hydrogen production from renewable electricity
 - Large green hydrogen production systems compatible for (smart) grid integration
 - Large scale hydrogen storage and injection of hydrogen in the natural gas grid
 - Re-electrification
 - Hydrogen production with low carbon footprint from other resources and waste hydrogen recovery
 - Fuel cell systems for combined heat and/or power on industrial, local, domestic scales and small applications
 - Hydrogen storage, handling and distribution

- Overarching Projects
- Cross-cutting research activities
 - Social acceptance and public awareness
 - Education and training
 - Safety
 - Pre-Normative Research
 - Building databases for environmental, economical, socio-economic subjects
 - Identification and development of financial mechanisms to support market introduction
 - Support portable applications & other niche market fuel cell solutions
 - socio-economic research to determine environmental and societal impact
 - Recycling of FCH technologies
 - Other supporting activities

AWP 2014

- Launch: 9 July 2014
- **Information Day: 10 July 2014**, Auditorium Madou (Brussels)
- Registration via web-site
- Deadline: 6 November 2014 – Evaluation December 2014
(**Experts?**)
- Indicative budget: 93M€

Pillar	Action Type	# Topics	Indicative budget (M€)
Transport	5 RIA + 1 IA	6	10
	IA	1	32
Energy	RIA	8	16
	IA	3	25.5
Overarching	IA	1	5
Cross-cutting	2 CSA + 1 RIA	3	4.5
Totals		22	93

H2020 Rules for Participation



Three main objectives:

Innovation, Simplification and Coherence

(single set of rules, funding rates, indirect cost model etc)



Single set of rules

- Covering all H2020 research and innovation actions
- Keeping flexibility where needed

Horizon 2020



Participant Portal integrated services



X No e-mail



X No mail



X No blue ink signature

- +** Coherent
- +** Transparent
- +** Integrated
- +** Improved services

Proposal

Legal entity data

Grant Preparation

Financial reporting

Scientific reporting



Thank you for your attention !

Further info :

- FCH JU : <http://fch-ju.eu>
- NEW-IG : <http://www.new-ig.eu>
- N.ERGHY : <http://www.nerghy.eu>

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09:00 – 09:30	Registration
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