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**Delivering on the Paris Agreement: A demand-driven,  
integrated assessment modelling approach**

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[www.paris-reinforce.eu](http://www.paris-reinforce.eu)

**Title:** Delivering on the Paris Agreement: A demand-driven, integrated assessment modelling approach (PARIS REINFORCE)

**Funding:** European Union's Horizon 2020 Research and Innovation Programme (H2020)

**Lifetime:** June 2019 - May 2022 (36 months)

**Coordination:** NTUA, Energy Policy Unit, National Technical University of Athens

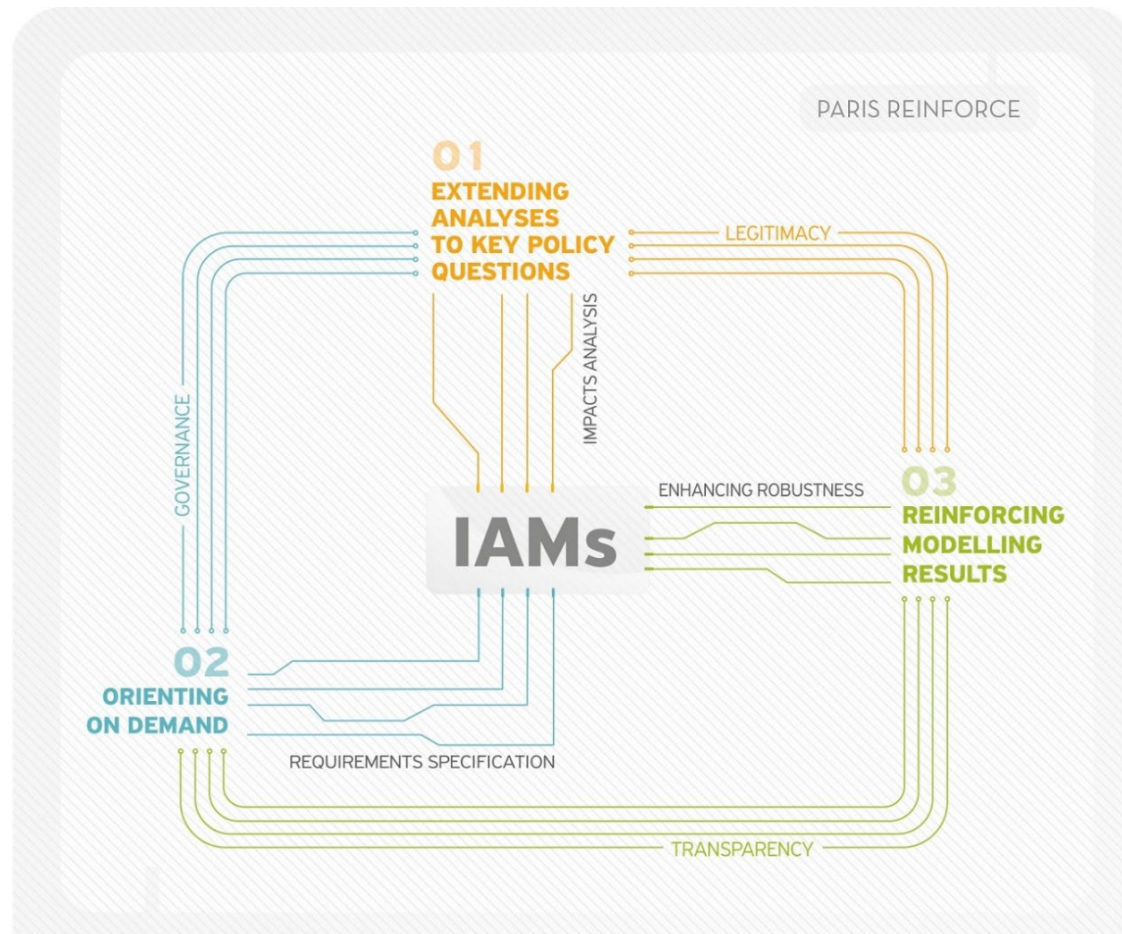
**Participants:** 13 European partners; 5 international partners

**Call/Grant:** H2020-LC-CLA-01-2018/820846



The PARIS REINFORCE project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No 820846.

PARIS REINFORCE consists of **four fully interconnected pillars**



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# Policy

EU-level: next **NDC**; national level: **NECPs**

Sectoral analyses for **detailed EU 2050 roadmap**

All ten **major emitters**; other **less emitting** countries

Forum for discussing **game-changing** topics

# Society

**Co-creation**: needs scenarios, assumptions

Enhanced **transparency & legitimacy**

Improved **understanding of models**

# Research

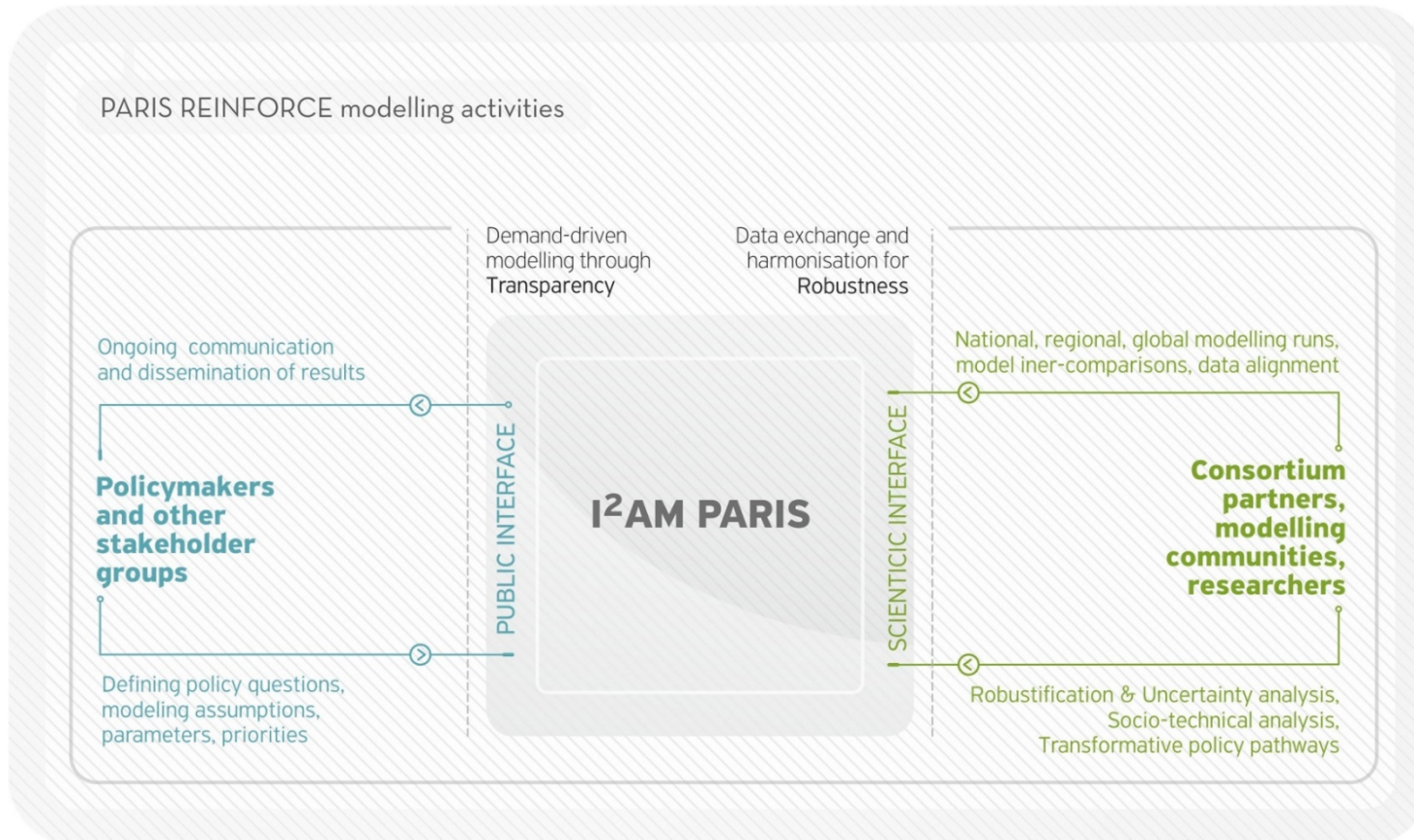
**I<sup>2</sup>AM PARIS**: open access, multi-modelling, data exchange platform

New **paradigm**: modelling **ensembles**, **robustness** analysis, systems of innovation

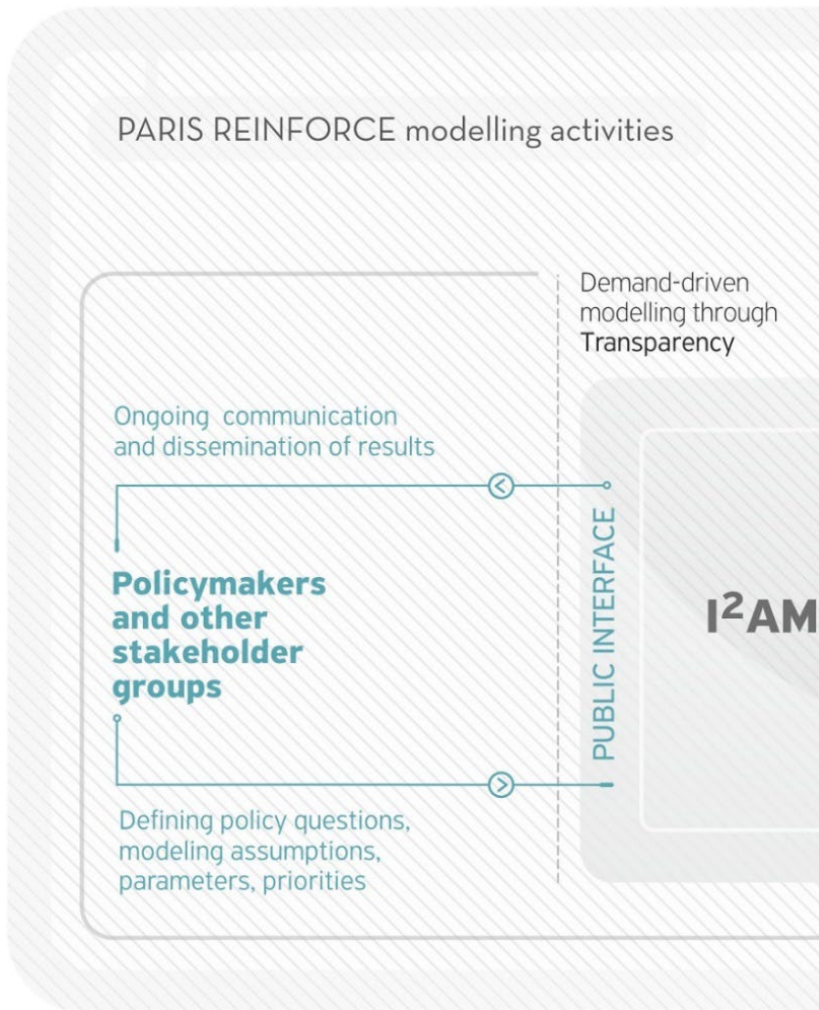
IPCC **AR6** & other assessments: **reviews**, **global** analyses & **inter-comparisons**



All **modelling activities**, including scenario inputs and assumptions, datasets, modelling outputs, and visualisation will be streamlined in an **open-access data exchange platform**



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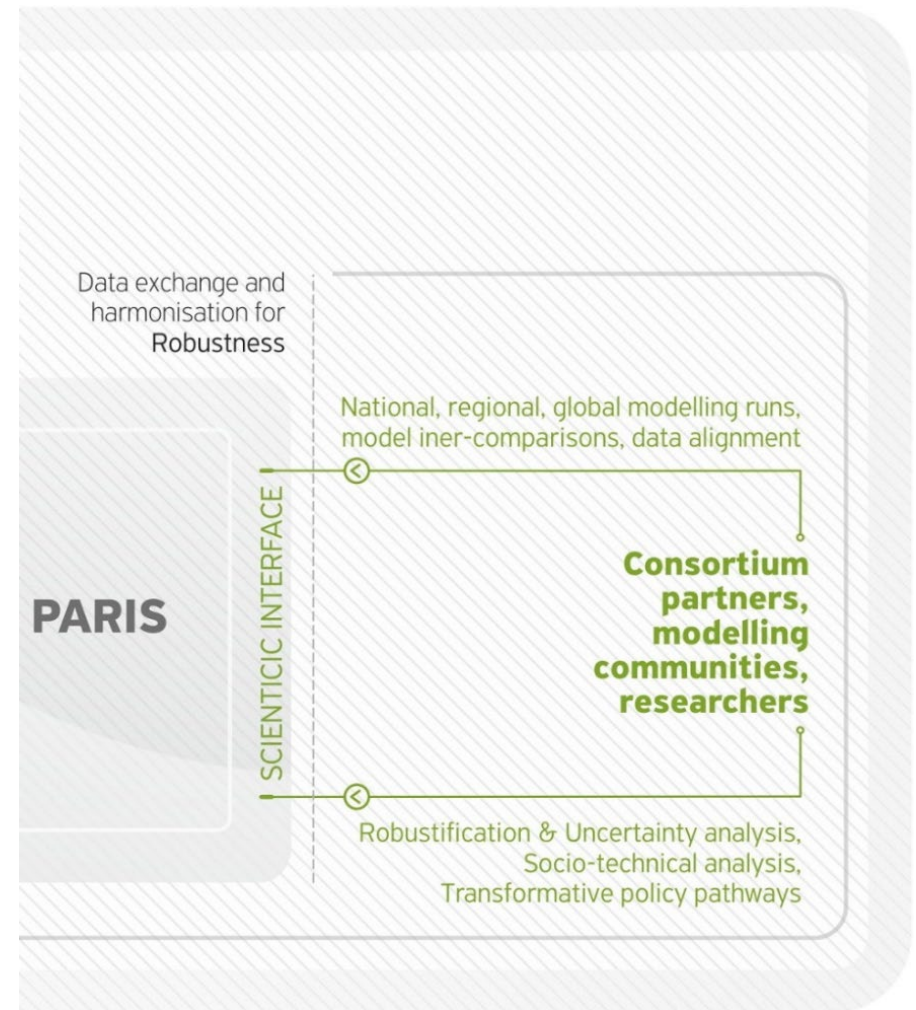
## Regarding the **public interface**:

- So far, we have worked on **transparency** of the models and presented a detailed **documentation** of the PARIS REINFORCE models.
- As modelling analyses are carried out, the second component of the platform will be implemented, including **user-friendly presentation** and visualisation of **policy-relevant results** and **policy prescriptions**, in response to **co-created policy/research questions**.

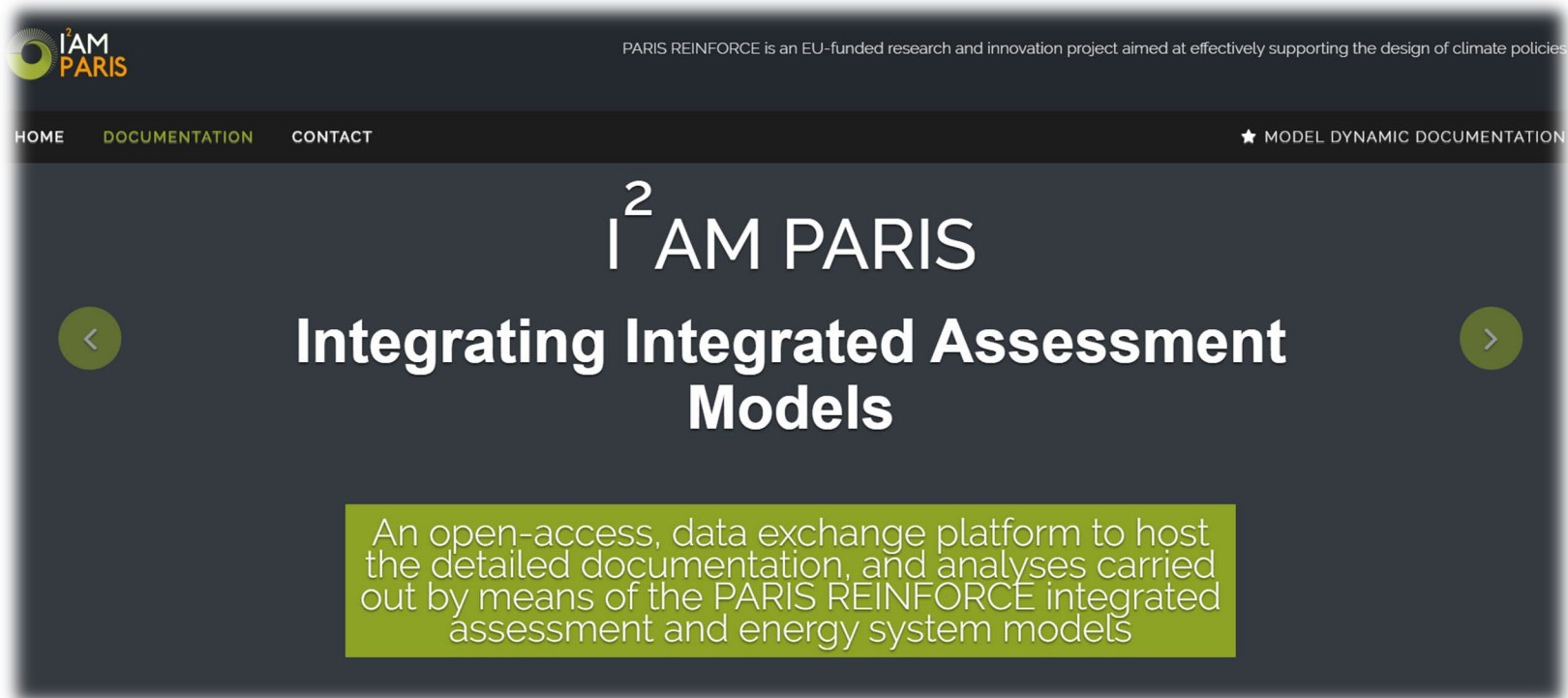


## Regarding the **scientific interface**:

- We will create a **template** for all climate-economy and energy system modellers to provide us with **detailed documentation of their model(s)**, so that we can include it in our database, detailed and dynamic documentation. **[OPEN CALL]**
- Scientists will also have access to similar templates to provide us with the **topics** (research questions) they have addressed, as well as their modelling **inputs** and **results** to host in I<sup>2</sup>AM PARIS.



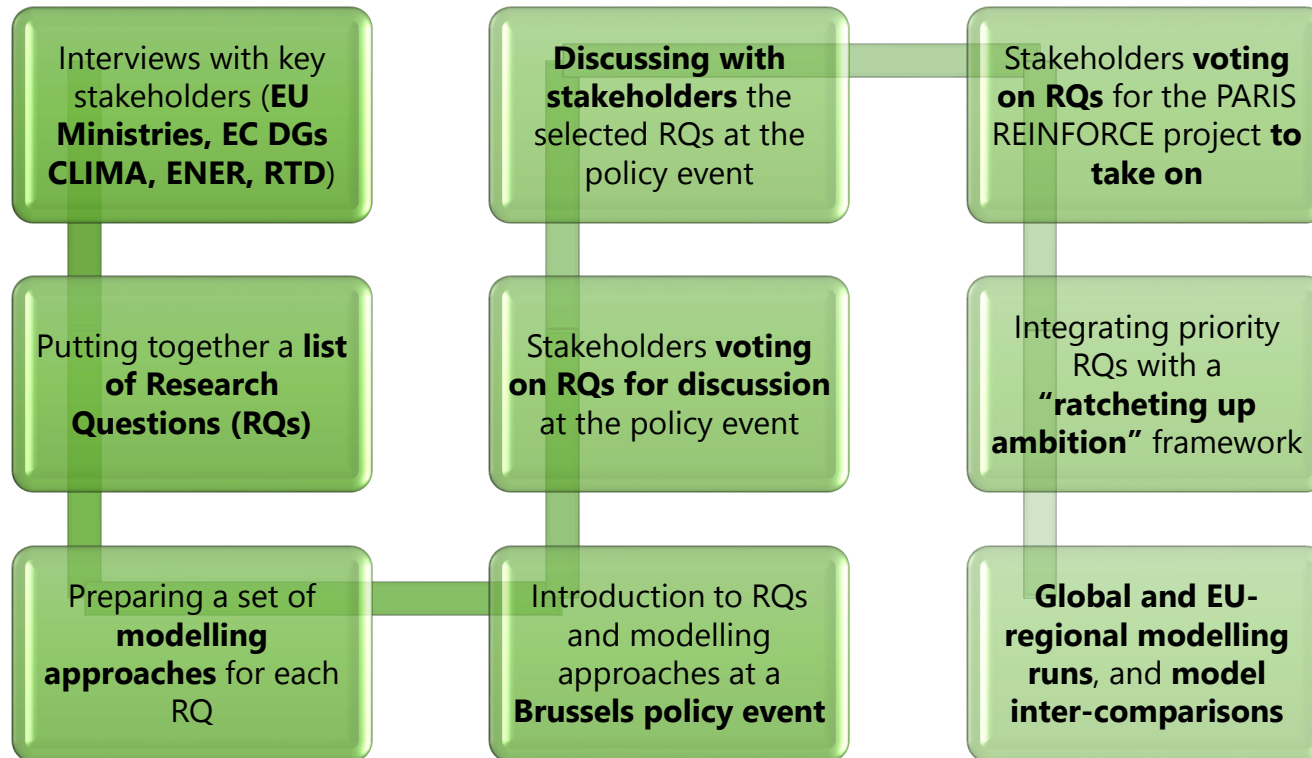
<http://paris-reinforce.epu.ntua.gr/main>



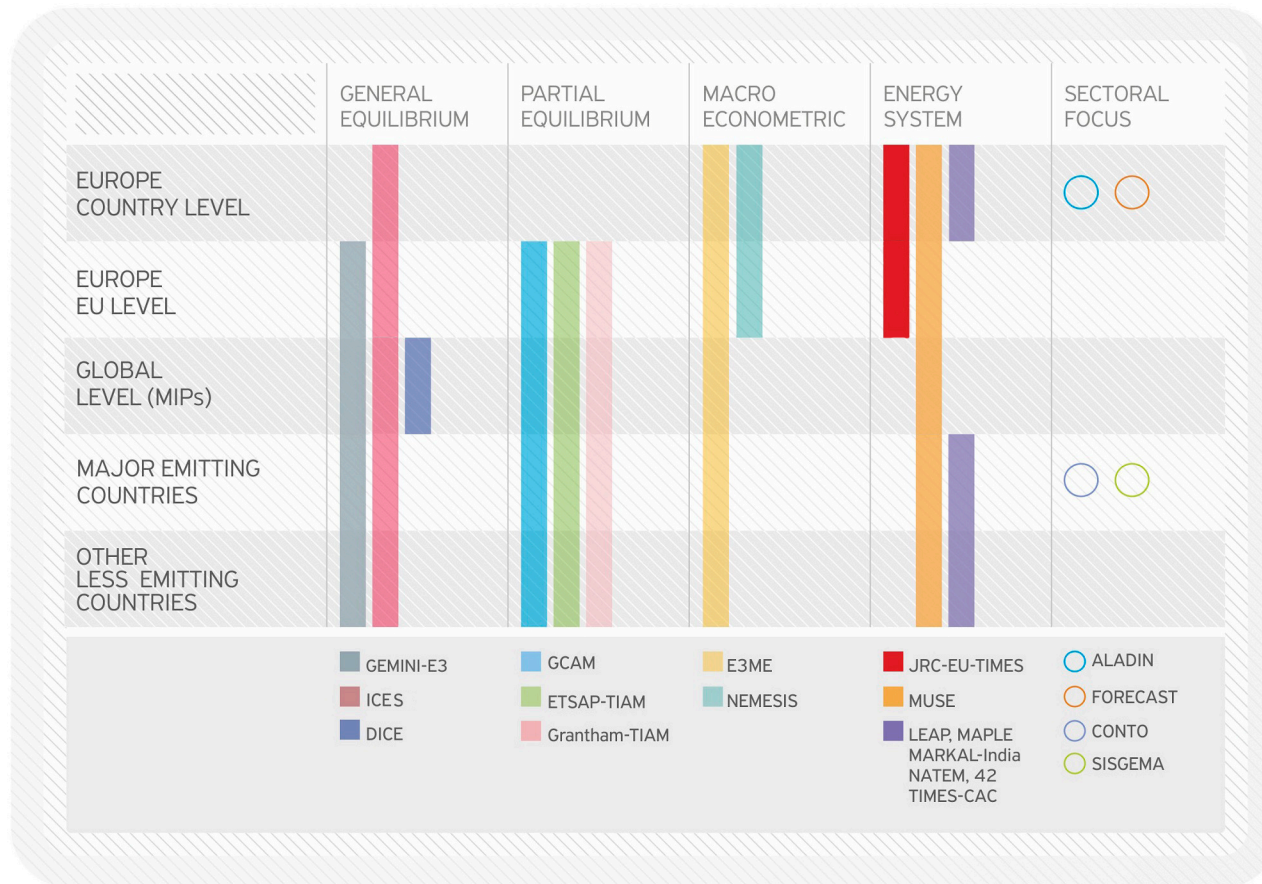
The screenshot shows the website's header with the I<sup>2</sup>AM PARIS logo on the left and the text "PARIS REINFORCE is an EU-funded research and innovation project aimed at effectively supporting the design of climate policies" on the right. Below the header is a navigation bar with "HOME", "DOCUMENTATION", and "CONTACT" on the left, and "★ MODEL DYNAMIC DOCUMENTATION" on the right. The main content area features the title "I<sup>2</sup>AM PARIS" in large white letters, followed by the subtitle "Integrating Integrated Assessment Models" in bold white text. A green box below the subtitle contains the text: "An open-access, data exchange platform to host the detailed documentation, and analyses carried out by means of the PARIS REINFORCE integrated assessment and energy system models". Navigation arrows are visible on either side of the main text.



Key priorities for designing **scenarios for mid-century strategies** were defined **with stakeholders** across three axes: **global pathways**; **a Paris-consistent Europe**; and **implications for Sustainable Development Goals**.

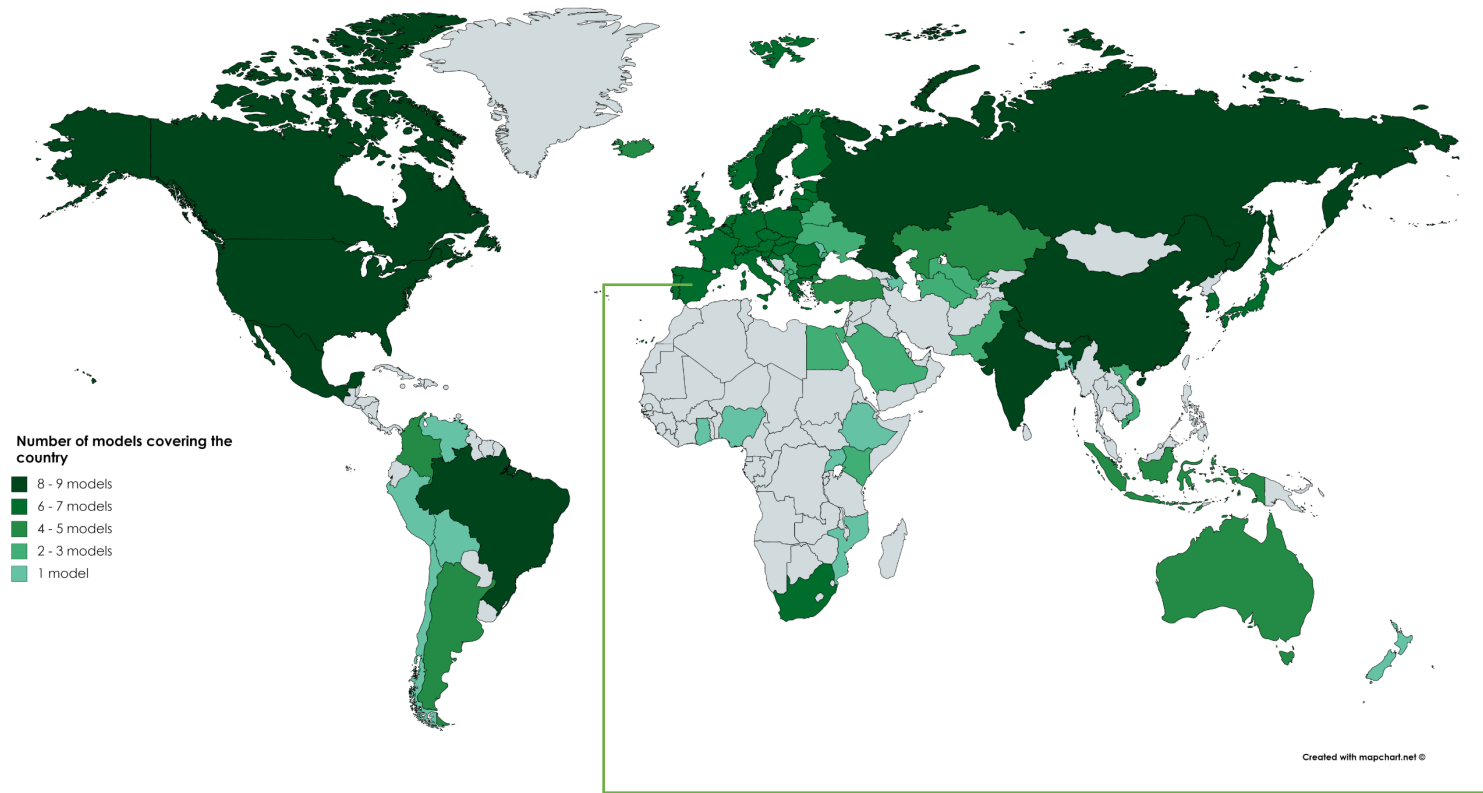


A set of **complementary**-in terms of mathematical structure, geographical, sectoral and focus coverage-**integrated assessment, energy system** and **sectoral models**



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**National-level coverage for Spain** from **6 global and regional models** of the PARIS REINFORCE modelling armoury.



## National coverage from regional (EU) IAMs:

- **JRC-EU-TIMES**  
(energy system)
- **NEMESIS**  
(macro-economic)
- **ALADIN**  
(road transport sector)
- **FORECAST**  
(industry/building sector)

## National coverage from global IAMs:

- **E3ME**  
(macro-economic)
- **ICES**  
(general equilibrium)



## (1) Carbon border adjustment

### • Policy Area:

- What would the impact of CBA be on EU countries?
- Do models provide economic justification for CBA implementation?

1 vote

## (2) EU internal taxation policies

### • Policy Area:

- What are the potential implications of expanding the harmonisation of taxation across the EU in non-ETS sectors?

3 votes

## (3) Robustness of NECPs

### • Policy Area:

- Are the individual NECPs realistic?
- Do they hold true when imposing different assumptions or models?

9 votes

## (4) Electrification

### • Policy Area:

- How can we provide enough RE generation, storage and distribution capacity in an extreme electrification scenario?

5 votes



## (1) Declining Carbon Intensive Sectors

- **Policy Area:**

- Climate policies and removing public support on emission intensive energy sectors (e.g. coal): What will be the outcome in terms of employment and other socio-economic dimensions?

0 votes

## (2) Cross-Sectoral Impacts

- **Policy Area:**

- In particular mitigation scenarios, and future worlds: how do prices and employment vary across sectors compared with today?

10 votes

## (3) Impacts by EU Member State

- **Policy Area:**

- Will all countries within the EU benefit from a decarbonisation push? Or will there be some losers?

8 votes





Thank you!

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