



Horizon 2020 Societal challenge 5: Climate
action, environment, resource efficiency and raw
materials

COP21 RIPPLES

COP21: Results and Implications for Pathways and Policies for Low Emissions European Societies

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Estimated effort contributor(s) (PM):	0.5 PM (IDDRI)
Internal reviewer:	Roberta Pierfederici (IDDRI)



1. Changes with respect to the DoA

NA

2. Dissemination and uptake

The following stakeholders will use this deliverable:

- Project partners (in order to remember the main takeaways from the project meeting and to adapt their activities to the decisions taken).
- External stakeholders (in order to find out about the project's ongoing progress and first results).

3. Short Summary of results (<250 words)

After a first project meeting in January 2017, the second project meeting took place on 28 and 29 June 2017 in London. Six months into the project, it gave participants the opportunity to update each other on the projects progress and to agree on next steps. All partner organization were represented at the meeting and the Advisory Board members were also invited.

Each Work package was discussed during the meeting. For each Work package, five points were looked into:

- Objective;
- Work progress;
- Main agreements;
- Linkage to other WPs/tasks;
- Next steps.

This deliverable reports on each of these five points for each RPPLES Work package.

4. Evidence of accomplishment

- Report (D1.3)
- Meeting (28-29/06/2017, London) – agenda, participant list, signature list, minutes are available

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1. Introduction

After a first project meeting in January 2017,¹ the second project meeting took place on 28 and 29 June 2017 in London. Six months into the project, it gave participants the opportunity to update each other on the projects progress and to agree on next steps.² All partner organization were represented at the meeting and the Advisory Board members were also invited.³

Each Work package was discussed during the meeting. For each Work package, five points were looked into:

- Objective;
- Work progress;
- Main agreements;
- Linkage to other WPs/tasks;
- Next steps.

This deliverable reports on each of these five points for each RPPLES Work package.⁴

¹ See Deliverable D1.2 *Report of 1st Project Meeting*

² See full agenda in Annex 1.

³ See full participants list in Annex 2.

⁴ This excludes WP1 (Project management) and WP6 (Ethics requirement).

2. Work package 2: Assessment of the adequacy of NDCs and available pathways to 2°C/1.5°C

2.1. Task 2.1 Building the database of transition scenarios for NDCs and 2°/1.5°

2.1.1. Objective

The focus and priority of Task 2.1 is gathering data inputs for:

- Developing indicators to provide general benchmarks from a bottom-up perspective, to inform the design of global scenarios (WP3)
- Providing information to the DW analysis (Task 2.3)

The database collects data from existing country and global scenarios that can be representative of a set of storylines, as defined in Task 2.2. A set of benchmarking indicators derived from the database will be used to characterise those storylines and will serve as a guidance for the development of global scenarios in WP3.

2.1.2. Work progress

IDDRI discussed with country teams and CA the methodology for choosing the scenarios, the list of indicators to inform WP3 and shared the data template to collect the scenarios' data.

Country teams and CA provided a list of potential scenarios that can be collected in the database.

2.1.3. Main agreements

- Country teams will send to IDDRI the data template with country scenarios to be included in the database
- CA will send to IDDRI the data template with the global IAMs scenarios from IPCC and IEA to be included in the database
- IDDRI will follow up directly with the teams on specific issues related to scenarios availability and reporting
- IDDRI will use the database to derive a set of benchmarking values that will be circulated to global modelling teams involved in WP3
- IDDRI will circulate the database to CNRS to inform the DW analysis

2.1.4. Linkages to other WPs/Tasks

- Task 2.2: findings from the benchmarking assessment will be used to quantitatively characterise the storylines defined in 2.2.
- Task 2.3: scenarios downscaled with SIAMESE will be collected in the database to inform the work on benchmarking and DW analysis
- Task 2.4: the scenarios database will be used to carry out the DW analysis by CNRS
- WP3: the benchmarking analysis will inform the global scenarios in WP3

2.2. Task 2.2 Co-design of macroeconomic and transition scenarios

2.2.1. Objective

The goal of Task 2.2 is to define a set of storylines that can ensure consistent narratives across different workstreams. The storylines will serve as a general framework for:

- Collection and analysis of existing country and global scenarios (WP2)
- Design of new global scenarios to address the key questions in the project (WP3)

2.2.2. Work progress

IDDRI, together with the modelling teams, designed a framework to define four main storylines for 2°C and 1.5°C. Currently the storylines are briefly described along two dimensions - short-term climate action and transition strategies. The next steps will be to provide a coherent narrative of the governance context in which the storylines are embedded as well as a quantitative assessment of the kind of energy and economic transition required in each storyline. This latter will be derived from the analysis of national and global scenarios included in the database (Task 2.1) and will provide general benchmarks to guide the development of scenarios in WP3.

There is no agreement yet on the procedure to derive narratives on the governance aspects. In addition, the “middle ground storyline” for 2°C needs to be better defined in terms of how many scenarios it will include and what are the key players and policy developments to take into account.

2.2.3. Main agreements

- Based on the analysis in 2.1, IDDRI will derive a set of benchmarking indicators to quantitatively characterise the storylines
- IDDRI will follow up with other WP leaders and teams to identify the way forward to derive governance narratives to inform the quantitative modelling of the storylines and the definition of the “middle ground storyline” for 2°C

2.2.4. Linkages to other WPs/Tasks

- Task 2.1: the scenario database will be used to quantitatively characterise the storylines
- WP3: the development of new global scenarios will be based on the storylines framework
- To be decided if the analysis of global policy development and governance landscape in WP4 could inform the narrative of the storylines

2.3. WP2 Next steps

Task	Activity	Responsible	Timeline
2.3	Update on downscaling of 2°/1.5° global pathways	CA	August 2017
2.2	Definition of procedure to characterise the governance narratives in the storylines as well as the middle ground scenarios	IDDRI, with the support of WP leaders	August/September 2017
2.1	Fill-in data template with existing scenarios	ENEA, WI, CNRS, COPPE, TU, UCT, TU, CA, WiseEuropa	2nd week of September 2017
2.1	Finalisation of database	IDDRI	End of October 2017
2.1	Circulate database with CNRS	IDDRI	End of October 2017
2.1	Circulate benchmarking values with global teams	IDDRI	November 2017
2.2	Co-design of macroeconomic and transition scenarios	IDDRI (lead), all teams	December 2017
2.1	Fill-in data template with scenarios downscaled with SIAMESE	CA	March 2018
2.1	Update database and benchmarking analysis with new scenarios from SIAMESE and potentially other sources	IDDRI	From March 2018 on
2.3	Report on implications of 1.5°C versus 2°C for global transformation pathways	CA (lead), UCL	April 2018
2.4	Report on comparing sectoral and technological transformation in national NDC and 2°C/1.5°C pathways	CNRS	July 2018

3. Work package 3: Realising Green Growth: Economic and Security dimensions of NDCs and deeper mitigation pathways

3.1.1. Objective

The objective of this WP is to develop a set of global scenarios to analyse the impact of achieving the 2°C/1.5°C targets on key socio-economic dimensions.

3.1.2. Work progress

Given the broad diversity of modelling approaches involved in WP3, a methodology was proposed by UCL and IDDRI to ensure scenarios consistency across global models. The methodology lies on two stages:

- translating the storylines into modelling assumptions – requiring harmonisation of macroeconomic drivers and implementation of benchmarking indicators in the global models
- analysis of similarities and differences across models in the representation of the different storylines

A data template was identified that can be used as a framework for comparing model outputs, including different parameters and variables that might be relevant in assessing the storylines.

In order to take account of uncertainties in the global scenarios, a sensitivity approach has been proposed to explore uncertainty in inputs drivers, parameters and elasticities.

In terms of specific Tasks, progress has been made in identifying energy security dimensions and indicators to be feed in Task 3.1; reviewing studies on competitiveness and carbon leakage to be used in Task 3.2; identifying investment channels, with a focus on the Weighted Average Cost of Capital (WACC) to inform Task 3.3; analysing technology innovation, competitiveness and learning curves in Task 3.5.

3.1.3. Main agreements

- IDDRI will provide the global modelling teams with a timeline for receiving the data and information required to characterise the storylines
- IDDRI and UCL will follow up with the global modelling teams on timeline for providing preliminary results for outreach publications in 2018

3.1.4. Linkages to other WPs/Tasks

WP2: the development of global scenarios will be based on the storylines defined in 2.2 and the benchmarks provided by 2.1

3.1.5. Work Package 3 next steps:

Task	Activity	Responsible	Timeline
3.2	Review of competitiveness, carbon leakage and EU policy options in the post-Paris landscape	CMCC (lead), UCL, CNRS, WiseEuropa, USOPH	July 2017

Task	Activity	Responsible	Timeline
3.1	Literature review on energy security indicators	CNRS (lead), WiseEuropa, USOPH	July 2017
3.2	Report on mapping industrial transformation strategies and screening modeling options	CMCC, Bruegel	September 2017
3.5	First draft of a report on determining future comparative and technology advantage in low carbon technologies	Bruegel	November 2017
3.3	Data mapping of investment channels and intermediation instruments by sector	UCL	November 2017
3.5	Bruegel send our data-driven assessment of some low-carbon goods/technologies in which Brazil/China/South Africa/Italy might develop a comparative or technology advantage. TU, COPPE, UCT and ENEA should provide a structured critical assessment of the predictions, based on qualitative research.	Bruegel (lead), TU, COPPE, UCT, ENEA	End 2017
3.5	Summary of results on green technology comparative advantage and of industrial / innovation policies for the design of policy scenarios in task 3.2	Bruegel	January 2018
3	Initial scenario results	CNRS, CMCC, WiseEuropa, UCL, UCAM	May 2018
3.1	Report on energy security implications of NDC and 2°C/1.5°C trajectories	CNRS, IDDRI, WiseEuropa, USOPH	June 2018
3.5	Report on assessing the technology innovation implications of NDCs, technology portfolio choices, and international competitiveness in clean technologies	Bruegel (lead), UOXF, TU, COPPE, UCT, ENEA	July 2018

4. Work package 4: Assessment of the adequacy of COP21 outcomes for effective international climate governance and the EU's role

4.1.1. Objective

The objectives of this Work Package are to:

- To systematically identify and analyse the core challenges and key governance functions for the polycentric international climate governance regime;
- To analyse the adequacy of the existing international climate governance landscape to address the core challenges and fulfil the key governance functions identified;
- To identify and analyse gaps and room for improvement in the existing international climate governance landscape to address the core challenges and fulfil the key governance functions identified and to develop options for the further development of the international climate governance landscape so as to enhance its adequacy;
- To identify and assess main options for the EU and its member states to contribute to the further development of the international climate governance landscape.

4.1.2. Work progress

Task 4.1: The team elaborated a first draft of the report (milestone M10) consisting of:

- Definitions of key concepts
- Definition of functions of international governance institutions
- Sectoral analyses of decarbonisation challenges and prospects of international cooperation

Task 4.2:

- UEA compiled an initial database of transnational climate governance initiatives
- WI prepared first draft of analysis of Paris Agreement

Task 4.4:

- UCT elaborated a draft research framework for the country analyses (starting from the case of South Africa, with a focus on the power sector)
- Engagement of COPPE and TU for Brazil and China country studies as well as responsibility for India country study was identified as to be in urgent need of clarification.

4.1.3. Main agreements

- Revised sectoral analyses in Task 4.1 should address the five general functions of international institutions explicitly (and take into account various other comments made at the meeting and in writing)
- While much of the existing work on transnational climate governance has addressed climate initiatives, Task 4.2 should focus on governance institutions. The database needs to include all key governance institutions from all sectors analysed in Task 4.1 as well as overarching institutions such as the G7/G20, World Bank etc.
- While the mapping exercise under Task 4.2 will start comprehensively, the analysis will in the next step have to set priorities and focus on a sub-set of the sectors analysed in Task 4.1. One selection criterion could be to take those sectors where the issues to be studied in Task 4.3 – finance and technology/innovation – are most relevant.

- It was considered that the core of WP Tasks 4.1 and 4.2 may meet in the margins of the next climate COP in Bonn
- It was discussed that task 4.3 could greatly benefit from a common framing for all three subtasks
- WI will consult bilaterally with the Partners involved in 4.3 on the content of the proposed common framing.
- See next steps below

4.1.4. Linkages to other WPs/Tasks

- To be further discussed whether WP3 and WP4 work on finance and technology can cross-fertilise. One avenue is review of WP4.1 report by member of WP3.
- Possible alignment around common storylines need to be explored further (at least as a common point of reference)

4.1.5. Work Package 4 next steps

Task	Activity	Responsible	Timeline
4.1	Revision of section of draft report on concepts, governance functions and sectoral analyses	VUB, WI, UEA, CA	22 July 2017
4.2	Sector experts to indicate key governance institutions in their respective sectors for inclusion in database	VUB, WI, UEA, CA	22 July 2017
4.1	Draft sections on concepts, governance functions and sectoral analyses to be sent out for review (including to advisory board)	VUB, WI (IDDRI)	29 July 2017 (with deadline of 19 August)
4.1	Draft conclusions to be drafted and sent for review (including to advisory board)	VUB	End of August 2017 (with review within 10 days)
4.1	Finalisation of report on key concepts, challenges and governance functions in polycentric international climate governance	VUB, WI, UEA, CA	End of September 2017
4.2	Further development of database (forming part of Milestone)	UEA	September 2017
4.2	Revision and refinement of analysis of Paris Agreement (forming part of Milestone)	WI	September 2017

Task	Activity	Responsible	Timeline
4.3	WI will circulate a draft chapeau containing a suggested framing for the three sub tasks early on when the task begins	WI	September 2017
4.2	Selection of sectors for further analysis	UEA, VUB, WI, CA	October/November 2017
4.4	Clarification of engagement of COPPE and TU on Brazil and China country studies and responsibility for India country study	IDDRI	ASAP
4.4	Further development of research framework and first draft of analysis (South Africa)	UCT	Next project meeting
4.2	Report on the international governance landscape and the role of the UNFCCC/Paris agreement in it	UEA (lead), VUB, WI, IDDRI, CA	May 2018



5. Work package 5: Stakeholder engagement, scientific dissemination, and outreach to policy makers

5.1.1. Objective

This Work package aims at disseminating project results and managing all communication activities related to the project, including stakeholders engagement, outreach to policy-makers and publications.

5.1.2. Work progress

The project website and logo have been created with the lead of CS, which has been responsible also for creating an extensive database of stakeholders as well as the project Advisory Group, composed by nine high-level climate experts.

5.1.3. Main agreements

- The consortium agreed to apply to a side-event at the EU pavilion during COP23, with the possibility of organising the event jointly with other EU-funded projects
- The next project meeting in Warsaw, originally scheduled for June 2018, will now be March/April 2018. A doodle poll will be sent out to the consortium to define the date
- In order to inform the Facilitative Dialogue and the process of revision of the NDCs, some outreach events will be organised during 2018. Key events will be identified to better position the project in terms of reaching out policy makers and the scientific community. Among others, these might include:
 - A policy dialogue in Brussels. Originally scheduled for March 2019 (M29), it will be held during the year 2018. Bruegel, with the support of CS and IDDRI, will monitor the Brussels landscape to pick the best time.
 - Non-state actors summit in California
 - Facilitative Dialogue: preparatory/technical phase and political phase (during COP24)
 - G7 in Canada / G20 in Argentina
 - IPCC special report on 1.5 degrees
 - The consortium also discussed the possibility of having a stakeholder meeting not back to back with project meeting.
- In terms of publications that will accompany the events, it has been proposed to keep it flexible in terms of number and timeline. However, IDDRI and the other institutes involved in WP5 will outline a draft timeline for 2018, making sure to align the work program with the key dates in the political landscape
- CS recommended a dedicated RIPPLES design for all publications to limit sensitivity. CS will be in charge of defining the common layout.

5.1.4. Work Package 5 next steps:

Task	Activity	Responsible	Timeline
5.2	Application to COP23 side-event	IDDRI, CS	By 18 August 2017
	Schedule project meeting in Warsaw for March/April 2018	IDDRI, all teams	September/October 2017
5.2	Identification of key outreach events to target in 2018	CS, IDDRI, Bruegel, WI, VUB, UEA, UCL, UCAM	December 2017
5.3	Draft timeline for policy papers in 2018	CS, IDDRI, Bruegel, WI, VUB, UEA, UCL, UCAM	December 2017



6. Conclusion

The two-day project meeting allowed consortium members and Advisory board members to gather. After six months of project, it allowed them to exchange on the project, on its challenges and main hurdles. A lot of discussion took place, enabling each participant to share their experience. Together participants agreed on the next steps. They will update each other at the next project meeting.

7. Annex 1: Meeting agenda



COP21: Results and Implications for Pathways and Policies for Low Emissions European Societies (COP21 RPPLES)

Project Meeting

Wednesday - Thursday, June 28-29, 2017

Holiday Inn, Camden Lock, 30 Jamestown Rd, London NW1 7BY, UK

AGENDA

WEDNESDAY, 28 JUNE	
9:30-10:00	Registration and coffee
10:00-10:30	<p>Welcome, Introduction to COP21-RPPLES Project and Meeting Objectives (including presentation of the Advisory Board) <i>(David Levai, IDDRI; Andrzej Blachowicz, CS)</i></p> <p>[30 min]</p>
10:30-11:00	<p>International climate governance and the role of the EU in the implementation of the Paris Agreement <i>Chair: David Levai (IDDRI)</i></p> <p><i>Overall approach, challenges and functions of international climate governance (Sebastian Oberthur, VUB)</i> <i>The Paris Agreement as a governance framework (Lukas Hermwille, WI)</i></p> <p>[30 min presentation]</p>
11:00-11:30	Coffee break
11:30-12:30	<p>International climate governance and the role of the EU in the implementation of the Paris Agreement (continued)</p> <p><i>Feedback from Advisory Board</i> <i>Open discussion</i></p> <p>[1h]</p>



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12:30-14:00	Lunch
14:00-15:30	<p>Implementation of NDCs and ratcheting up ambitions: implications of low-carbon transition for the economic, social and security dimensions <i>Chair: Michael Grubb (UCL)</i></p> <p><i>Overall approach, main research questions and preliminary insights (Gabriel Anandarajah, UCL; Sandrine Mathy, CNRS)</i></p> <p><i>Open discussion and Feedback from Advisory Board</i></p> <p>[30 min presentation + 1 h discussion and feedback]</p>
15:30-16:00	Coffee break
16:00-17:30	<p>International climate governance and implications for scenarios design and low-carbon pathways. Towards a better integration across different research perspectives <i>Chair: Henri Waisman (IDDRI)</i></p> <p><i>Identification of linkages across WPs (IDDRI, VUB, UCL)</i></p> <p><i>Open discussion and feedback from Advisory Board</i></p> <p>[30 min presentation + 1 h discussion and feedback]</p>
17:30-18:30	<p>The RPPLES project in the context of the international climate policy agenda <i>(David Levai, IDDRI; Andrzej Blachowicz, CS)</i></p> <p>[1h min]</p>
19:00	<p>Social Dinner <i>Strada Camden, 40-42 Parkway, London, NW1 7AH</i></p>



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THURSDAY, 29 JUNE

9:30-11:00 Breakout Group A: Scenarios design and database for pathways to 2°C/1.5°C (WP2-WP3)
Chair: IDDRI

Quantification of storylines: better integration between national and global models, benchmarking approach (IDDRI)

Breakout Group B: Assessment of the adequacy of COP21 outcomes for effective international climate governance and the EU's role (WP4)
Chair: Lukas Hermwille (WI)

Challenges and functions of international climate governance: (a) concepts and framing; (b) sectoral analysis; (c) first results and (d) further process to finalisation - Task 4.1 (Sebastian Oberthur, VUB)

[1h30 min]

11:00-11:30 Coffee break

11:30-13:00 Breakout Group C: Realising Green Growth: economic and security dimension of NDCs and deeper mitigation pathways (WP 3)
Chair: Gabriel Anandarajah (UCL)

[around 30 min for each Task presentation + discussion]

Quantifying the storylines: coherent development of global scenarios – (UCL)
Energy security dimension – Task 3.1 (CNRS)
Competitiveness and carbon leakage – Task 3.2 (CMCC)

Breakout Group B: Assessment of the adequacy of COP21 outcomes for effective international climate governance and the EU's role (WP 4) (continued)
Chair: Sebastian Oberthur (VUB), Lukas Hermwille (WI)

PA framework and sectoral analysis of governance institutions – Task 4.2 (Lukas Hermwille, WI; Tim Rayner, UEA)

[1h30 min]

13:00-14:30 Lunch

14:30-15:30 Breakout Group C (continued)

Options for modelling investment channels and intermediation instruments – Task 3.3 (UCL)
Technology innovation and competitiveness of low-carbon technologies – Task 3.5 (UOXF, Bruegel)

Breakout Group B (continued)

International governance landscape in selected key areas - Task 4.3 (Lukas Hermwille,



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	<p>WJ)</p> <p><i>Political economy opportunities and constraints in major emerging economy and the role of international governance - Task 4.4 (Hilton Trollip, UCT)</i></p> <p>[1h]</p>
15:30-16:00	Coffee break
16:00-16:30	<p>Plenary: Reporting back from parallel sessions</p> <p>Chair: IDDRI</p> <p>[30 min]</p>
16:30-17:30	<p>Stakeholder engagement, scientific dissemination, and outreach to policy-makers (WP 5)</p> <p><i>Alexandra Carr (CS)</i></p> <p>Outreach events, publications, policy dialogues and stakeholder meetings.</p> <p>[1h]</p>
17:30-18:00	<p>Wrap up and next steps</p> <p>IDDRI</p> <p>[30 min]</p>

Project partners



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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant

8. Annex 2: Participants list

Consortium

First Name	Last Name	Institution
Roberta	Pierfederici	IDDRI
David	Levai	IDDRI
Henri	Waisman	IDDRI
Caroline	Hoogendoorn	IDDRI
Andrzej	Blachowicz	Climate Strategies
Alexandra	Carr	Climate Strategies
Diana	Quezada	Climate Strategies
Henry	Derwent	Climate Strategies
Michael	Grubb	UCL
Gabrial	Anandarajah	UCL
Paul	Drummond	UCL
Alvaro	Calzadilla Rivera	UCL
Andrea	Biancardi	UCL
Matthew	Winning	UCL
Olivier	Dessens	UCL
Lukas	Hermwille	Wuppertal Institute
Wolfgang	Obergassel	Wuppertal Institute
Georg	Zachmann	Bruegel
Robert	Kalcik	Bruegel
Pauline	Chetail	Bruegel
Sebastian	Oberthuer	IES-VUB
Gauri	Khandekar	IES-VUB
Rupert	Way	Oxford University
Fei	Teng	Tsinghua University
Emilio	La Rovere	COPE
Tim	Rayner	UEA
Zoha	Shawoo	UEA
Aleksander	Sniegocki	WISE Europa
Maciej	Bukowski	WISE Europa
Michiel	Scheaffer	Climate Analytics

First Name	Last Name	Institution
Fabio	Sferra	Climate Analytics
Atanas	Georgiev	Sofia University
Annela	Anger	Cambridge University
Sanna	Markkanen	Cambridge University
Sandrine	Mathay	CNRS
Silvana	Mima	CNRS
Laureline	Coindoz	CNRS
Elena	Stolyarova	CNRS
Enrica	Decian	CMCC
Maria Rosa	Virdis	ENEA
Hilton	Trollip	University of Cape Town

Advisory Board

First Name	Last Name	Institution
Gilberto	Arias	Independent
Wael	Hmaidan	CAN International
Andrzej	Kraszewski	Warsaw University of Technology
Clare	Sierawski	US Trade and Development Agency
Katia	Simeonova	UNFCCC
Pierre	Cannet	WWF France
Thomas	Spencer	TERI
Hans	van der Loo	Independent