Research program

24 March 2012



CONTENTS

Introduction	3
Background	3
Approach	4
Research Areas	5
1. Impact	5
2. Governance	9
3. Context	11
4. Supporting analysis	15
Output	17
Implementation plan	17

Introduction

This research program sets out the research activities proposed to be carried out under the CDM Policy Dialogue. The research program is intended to generate information and input to the Policy Dialogue, in addition to the discussions and stakeholder interactions that the high-level Panel has decided to engage in.

This version of the CDM Policy Dialogue research program is based on several inputs:

- 1. Decisions taken by the high-level Panel at its first meeting (Bonn 14-15 February 2012) regarding the focus of the research.
- 2. Three initial draft research briefs (29-02-2012), prepared on basis of the discussions in the Panel
- 3. Comments to the research briefs provided by Panel members and their advisers.
- 4. A revised structure of research questions, proposed by the secretariat on request of the Research Working Group (07-03-2012).
- 5. Further directions from the Research Working Group (12-03-2012) regarding the focus and proposed structure of the final research program.
- 6. Comments by Panel members and advisers on the revised structure of questions and on the directions provided by the Research Working Group (15-03-2012).

In preparing this version of the research program, emphasis has been put on developing a concise program that responds to the needs of the Panel to receive information timely and in a format that allows for considered deliberations and analysis by the Panel. This implies that the format of the output will be produced either as neutral analysis of facts, or as representative options that the Panel can consider. A third aspect of the program has been to define research activities and methodologies that can realistically be carried out within the time frame and budget of the Policy Dialogue. The fourth aspect taken into account is the need for balance between on one hand the independence of the Panel, and on the other hand resources available for conducting the research, consisting of the time of Senior Expert Advisers (SEA), external expertise and secretariat staff. This is reflected in an effort to use secretariat staff and SEAs as much as possible while restricting the involvement of secretariat staff to research activities involving factual data gathering and analysis.

Background

The high-level Panel of the CDM Policy Dialogue was established in late 2011 by the CDM Executive Board to carry out the Policy Dialogue as a high-level independent process, to take stock of lessons learned in CDM, resulting in recommendations on how to best position CDM for a continued strong role in the post-2012 carbon markets. The mandate for the Panel is wide-ranging, allowing the Panel to decide itself what issues and aspects of CDM it wishes to consider, and what methods to use to address them. The recommendations are to be presented to the 69th meeting of the CDM Executive Board in September 2012, and will also be made publicly available. The recommendations are expected to influence the future design and operation of the CDM, as well as other new market based mechanisms.

The high-level Panel convened for the first time on 14-15 February 2012 in Bonn, Germany. At this meeting, the Panel adopted the approach that the Panel will follow to allow it to generate the report and recommendations as expected. The three main elements of this approach consist of a research program (herein presented), a stakeholder engagement plan, and a process for drafting the final report. The research program was set to address three specific aspects of the CDM: 1) Impact of the CDM, 2) Governance and efficiency of the CDM, and 3) Future context of the CDM. In addition, one of the panel members were invited to develop a supporting analysis of how the conditions for CDM have evolved since the inception of the CDM.

Given the compressed nature of the Panel's deliberations, it was also decided that research should be commissioned to fill the Panel's two primary needs: i) to assist with the preparation of the Panel's report through the contribution of impartial and informed background and analysis, and ii) to develop a broad range of concrete options and solutions for the Panel to consider at its meetings.

This research program describes in more detail the research areas, proposed methodologies and proposed resources allocation to implement the program.

Approach

The rationale and expectations of the CDM Policy Dialogue research program have been outline above. This section addresses the proposed approach for how to meet these expectations within time and resources available.

It is understood that research and stakeholder interactions are closely linked in the Policy Dialogue. While the schedule for individual face-to-face stakeholder meetings is not identified in this program, but is developed separately, various modes of communication with stakeholders (calls for input, interviews, surveys, meetings) are here indicated as research activities. Research may also include reviews of existing studies and reports, as well as new analysis of existing data, or modeling of trends into the future under different scenarios. The research will in some cases result in objective data, and in other cases in summaries of views or options. In the latter case, the output will be presented to the Panel as a range of options and solutions.

Among the many research questions proposed in previous documents (refer to introduction above), it is clear that there is a need to limit the number of issues that the research seeks to address, and that research questions therefore need to be linked and prioritized. The following approach has been adopted to this end when preparing this research program:

For each of the previously identified research questions, the following criteria need to apply, to allow the research question to be included in the research program:

- The question has been identified in the submission to the Call for Input as a priority issue for the Policy Dialogue to address, or has been highlighted by Panel members as an important issue to address.
- The question fits within one of the three research areas decided by the Panel (Impact, Governance, Context).

- Researching the question is likely to result in information that the Panel needs to develop recommendations.
- Researching the question is likely to generate information that is reliable, either based on verifiable facts, or on clearly defined assumptions.
- The research can be conducted within a reasonable time frame and budget (reasonable is here seen as the percentage of the overall research budget available)

In addition to this "litmus test" of the questions, the overall research program has also been developed with an eye to ensure that the accumulated output from the research questions, in combination with stakeholder interactions, allows the Panel to meet its mandate, i.e. to recommend how the CDM can best be positioned and made "fit for future" in post-2012 markets.

Research areas

In this section the three defined research areas, and the proposed research activities within each area, are elaborated, as is the supporting analysis paper. The background and rationale for each question which has been described in earlier papers are here only summarized so as to keep the program concise. In each area a number of questions for the Panel are defined. Under each question the supporting research questions, methodologies and proposed researcher are defined, in the following format:

X. Question that the Panel may want to make a recommendation about

Research questions	Methodology	Owners
Research that can be conducted to	Description of HOW the research can	Indication of who
provide relevant information to the	be generated	will carry out the
Panel		research

Impact of the CDM

Research in this area reviews the basic purpose and rationale for CDM to exist in the first place, as defined by the Kyoto Protocol:

- 1. To assist Annex I countries to achieve their mitigation targets (by making available cost effective mitigation opportunities in non-Annex I countries).
- 2. To support sustainable development in non-Annex I countries.

It also addresses other aspects that have emerged as relevant impact aspects of CDM, such as energy security, regional distribution, technology transfer and private sector investments.

The Impact research area is focused on the intention and actual impact of CDM, and the findings concern whether CDM has fulfilled the role it was intended to have and if this role can be strengthened.

In this area, the Panel may wish to make recommendations about the following eight issues, each of them attracting much attention in the public debate.

1. Should the CDM contribute to net mitigation of greenhouse gas emissions?

Research questions	Methodology	Owners
What is the expected net emissions	Factual study: CERs issued; CERs	[a] with support
impact of the CDM?	projected; used CERs (and where);	from secretariat
	cancelled/unused CERs. Incl regional	
	breakdown	
	Analysis: non-additional but credited	[a]
	mitigation; additional but non-credited	
	mitigation; mitigation achieved post-	
	crediting period.	
What options exist to improve the net	Summary of options: (a) standardized	Secretariat
emissions impact of the CDM? What	baselines; (b) discount factors; (c)	
are their respective	conservative assumptions, including	
strengths/weaknesses?	the length of crediting periods.	

2. Does the CDM allow annex I parties to increase their mitigation ambition by reducing mitigation costs?

Towarding intergration control		
Research questions	Methodology	Owners
What has been the CDM's impact on	Factual study.	[b]
minimizing costs to date?		
What impact has the availability of the	Analytical paper based on a survey of	Lead Researcher
CDM had on current mitigation	national governments and stakeholder	
ambition among parties?	consultations.	

3. Has the CDM contributed to sustainable development? Should it?

Research questions Methodology Owne		
How is a CDM project's contribution to sustainable development currently assessed?	Factual outline of current requirements and procedures, including overview of definitions of sustainable development.	Secretariat
What criteria do host countries currently use to determine whether a CDM project contributes to its sustainable development?	Survey of national governments; third-party assessment, stakeholder consultations.	SEA
What concerns have been raised about the sustainable development impact of the CDM? How could these be addressed?	Call for inputs; stakeholder consultation; synthesis.	SEA
What evidence is there that indicates contribution to sustainable development from CDM projects	Summary and analysis of project outcomes to gauge whether CDM advances or detracts from sustainable development. In the interests of pragmatism, this will require a definition of sustainable development, with caveats that it is a contested concept.	[c]

4. Is the contribution of CDM to increased energy security in developing countries a significant factor to consider in future operations of CDM?

Research questions	Methodology	Owners
What has been the impact of CDM projects on the share of renewable energy sources and on improved demand side energy efficiency at national levels?	Review and summary of existing research.	Lead Researcher
What are the views on the inclusion of large scale hydro power plants in the CDM?	Review and summary of existing research. Stakeholder consultations.	SEA

5. To what extent does CDM contribute to technology transfer?

Research questions	Methodology	Owners
What are the observed levels of	Analytical study	[c]
technology transfer in CDM? Can any		
trends be identified with regard to		
technology or region?		

6.To what extent does CDM leverage new and additional financing for mitigation?

Research questions	Methodology	Owners
What are the total and marginal	CDM investment analysis	[b]
investments that have been leveraged in		
CDM projects		
What are the trends in terms of CDM	CDM investment analysis	[b]
investments and investments from other		
sources in different types of CDM		
projects? Are any project types more		
successful in attracting private sector		
investments>		
What are the key barriers to	Call for inputs; stakeholder	Lead Researcher
investment?	consultation; synthesis.	

7. Should the CDM aim at increasing the regional distribution of projects and mitigation activities? If so, how?

Research questions	Methodology	Owners
What is the current regional distribution of projects and mitigation activities?	Factual study.	Secretariat
What factors influence CDM implementation in particular countries, and constrain CDM investments in particular regions and LDCs?	Analytical paper based on existing research, stakeholder consultations.	Lead Researcher

8. To what extent has the lack of standardized baselines and accounting for suppressed demand resulted in distortions in the CDM mechanism?

Research questions	Methodology	Owners
To what extent has suppressed demand	Summary of existing research	Lead Researcher
for energy and other services as a result		
of poverty, lack of infrastructure or		
natural resources been recognized as a		
means of carbon accounting and		
operationalised as a source of future		
avoided emissions?		
To what extent have standardized and	Factual study.	Lead Researcher
other default baseline emissions levels		
become standard practice in CDM?		
Are suppressed demand and	Analytical paper based on existing	Lead Researcher
standardized baselines pertinent issues	research, stakeholder consultations.	
for the future of CDM, what are the		
implications if these are taken into		
account, and how should CDM		
procedures be reformed in this regard?		

Summary of demand for research on Impact:

Owner	Research tasks	Type of work	Duration & work months (w/m)
Lead Researcher	Overall coordination and preparation of consolidated report and options for recommendations to the Panel.	Coordination and drafting.	1 w/m
	Study of impact of CDM on mitigation ambition by Annex I parties	Summary of existing research and input from stakeholder meetings.	1 w/m
	Study of CDM impact on the share of renewable energy sources and energy efficiency	Summary of existing research	1 w/m
	Identification of factors influencing CDM implementation in particular countries?	Summary of existing research and input from stakeholder meetings.	1 w/m
	Key barriers to investments in CDM	Summary of existing research + stakeholder meetings	
			0,5 w/m
	Review of practice and approach to standardized baselines and suppressed demand	Summary of existing research and analysis	0,5 w/m
External experts [a]	Analysis of CER issued under different assumptions	Analytical study, including scenarios for different assumptions on additionality	9,6 11,111
			1,5 w/m
[b]	Cost and investment study including investment costs, leverage of additional financing, and reduced costs of mitigation	Statistical analysis of investment and cost data for CDM costs and comparable mitigation costs in Annex I countries	
		ALD TO GO OF	3 w/m
[c]	Study of CDM contribution to sustainable development, and study of technology transfer under CDM	Update of UNFCCC SD benefits report	3 w/m
Secretariat	Analysis of CER issued under different assumptions	Supply statistical data	0,5 w/m
	Summary of options to improve net mitigation impact of CDM, including pros & cons.	Summary of proposals	0,5 w/m
	Summary of current requirements to define sustainable development in CDM projects	Factual description	N/A
	Regional distribution of CDM projects	Factual description	N/A
SEAs	Criteria used by DNAs for sustainable development in CDM	Survey + stakeholder meetings	1 w/m
	Summary of concerns regarding	Call for input + stakeholder	
	sustainable development impact of the CDM	meetings	1 w/m
	Views on the inclusion of large scale hydro power plants in the CDM?	Summary of existing research	1 w/m

Governance and Efficiency

This research area deals with issues related to how the CDM is set up and is operating, including the role of different CDM bodies and the efficiency of processes. The answers to these questions will provide insights into the potential to improve efficiency in the mechanism, thereby reducing transaction costs, which is a frequently quoted reason for why projects and countries do not participate in the CDM. At the same time these questions may also serve to clarify if efficiency can be improved without reducing the integrity of the mechanism, which by many is seen as a key advantage of the CDM.

In this area, the Panel may wish to make recommendations about the following six issues:

9. Can the project cycle be further streamlined to improve efficiency and reduce costs? How can it be done?

Research questions	Methodology	Owners
What are the steps in the project cycle?	Factual outline.	Secretariat
How can the project cycle be	Analytical paper based on existing	Lead Researcher
streamlined without sacrificing	research, stakeholder consultations.	
environmental integrity?		

10. Should the current validation/verification model be reformed? If so, how?

Research questions	Methodology	Owners
What is the current role of DOEs, and	Factual outline of current requirements	Secretariat
how are they currently hired and paid?	and procedures.	
What concerns have been raised about	Call for inputs; stakeholder	Lead Researcher
the current process? In particular, what	consultation; synthesis.	
constraints exist on the ability of DOEs		
to discharge their functions effectively?		
Are the accreditation procedures and	Call for inputs; factual analysis;	Lead Researcher
requirements for DoEs appropriate?	stakeholder consultation; synthesis.	
Are there regional imbalances in		
accredited DOEs? If so, what are the		
reasons? What are the remedies?		
How could the current model of	Analytical paper based on existing	Lead Researcher
verification be improved to become	research and discussions, highlighting	
more efficient without reducing trust in	advantages and drawbacks of different	
CER's? Is there current duplication of	proposed measures	
effort in the system between the DOE's		
and the EB?		

11. Should the methods for determining additionality be changed? If so, How?

Research questions	Methodology	Owners
How often is (failing) additionality the	Analysis of documentation of decisions	[d]
reason for rejections of projects? What	to reject projects.	
is the percentage of projects rejected		
due to technology and financial		
additionality respectively? Are there		
regional trends or technology trends		
among rejected projects?		
What concerns exist about the	Summary of existing research,	[d]
additionality of certain CDM projects /	including call for inputs and stakeholder	
project types (e.g. E+/E-)? Are these	consultation.	
being successfully addressed?		

12. Should the EB be professionalized in terms of composition and conduct? If so, how?

Research questions	Methodology	Owners
What is the current system for	Factual outline of current system and	Secretariat
nominating EB members and	rules.	
alternates, and what rules govern their		
conduct		
What criteria have national	Survey of national governments;	SEA
governments used to appoint EB	assessment of claims.	
members and alternates?		
What are the major criticisms of the EB	Call for inputs; stakeholder	SEA
as a body, including the system to	consultation; synthesis.	
nominate members, the members roles		
and conduct, and the impact of having		
the EB as a part-time body?		
What measures have been proposed to	Summary of papers and public	SEA
address any weaknesses in the current	discussions.	
set-up of the EB, and what are the		
advantages/disadvantages of the		
proposed measures		

13. How should the major points of dispute regarding the registration/issuance appeals process be resolved?

Research questions	Methodology	Owners
What are the major points of dispute	Factual outline of the points of dispute	Secretariat
delaying the adoption of an appeals	in the textual proposal currently under	
process for registration and issuance	consideration by Parties.	
decisions (e.g. scope of review)?		
What resolution would best satisfy the	Legal analysis.	[e]
principles of fundamental justice,		
including consideration of who should		
be able to appeal and on what grounds?		

14. Should the current requirements for stakeholder consultation be strengthened? If so, how?

501 011 8011 011 00 11 00 11 0		
Research questions	Methodology	Owners
What are the current requirements for stakeholder consultation?	Factual outline of current requirements and procedures.	Secretariat
What concerns have been raised about current stakeholder consultation	Call for inputs; stakeholder consultation; synthesis.	Lead Researcher
processes and outcomes (in particular for projects that have subsequently attracted criticism)?	For impugned projects, comparison of PDD claims versus subsequent findings.	[d]

Summary of demand for research on Governance:

Owner	Research tasks	Type of work	Duration & work months (w/m)
Lead	Overall coordination and preparation of	Coordination and drafting.	
Researcher	consolidated report and options for recommendations to the Panel.		1 w/m
	Analysis of options for streamlining CDM project cycle	Analytical paper based on existing research, stakeholder consultations.	
			0,5 w/m

Owner	Research tasks	Type of work	Duration &
			work
			months (w/m)
	Study on concerns about, and	Analytical paper based on	(W/III)
	opportunities for, improving validation	existing research and	
	and verification procedure, including the	stakeholder consultations	
	role of DOEs		
	Davian and analysis of concerns about	Cummary of diagonasions	1 w/m
	Review and analysis of concerns about current stakeholder consultation processes	Summary of discussions and deliberations	
	and outcomes	and democrations	1 w/m
External	Review of research and discussions	Summary of existing	
experts	regarding additionality of projects,	research, including call for	
[d]	including factual data compilation about	inputs and stakeholder consultation.	
	performance of selected criticized projects	consultation.	1 w/m
[e]	Summary of concerns that have been	Summary of research,	- 11/111
	raised about current stakeholder	complemented with	
	consultation processes and outcomes	analysis of PDD claims vs.	
		subsequent findings	1 w/m
[f]	Legal analysis of options for an appeals	Legal analysis	1 W/III
[-]	system	20gui unui) sis	0,5 w/m
	,		,
Secretariat	Description of steps in the CDM project	Factual description	0.2
	cycle Description of role of DOE	Factual description	0,2 w/m
	Description of fole of DOE	ractual description	0,2 w/m
	Description of current system for	Factual description	
	nominating EB members and alternates,		
	and what rules govern their conduct	E	0,2 w/m
	Summary of major points of dispute delaying the adoption of an appeals	Factual summary of points of dispute in the textual	
	process for registration and issuance	proposal currently under	
	decisions (e.g. scope of review)?	consideration by Parties	
			1 /
SEAs	Report on criteria that national	Survey	1 w/m
SEAS	governments use to appoint EB members	Survey	1 w/m
	and alternates?		===
	Summary of major criticisms of the EB as	Call for input +	
	a body, including the system to nominate	stakeholder consultations	
	members, the members roles and conduct, and the impact of having the EB as a part-		
	time body?		1 w/m
	Summary of measures have been proposed	Synthesis of existing	
	to address any weaknesses in the current	research + stakeholder	
	set-up of the EB, and what are the	consultations/Call for	
	advantages/disadvantages of the proposed	input	1 w/m
L	measures		I W/III

Future context of the CDM

This research area focuses on the role of the CDM in a future climate regime. Assuming that the impact and the governance of the CDM itself can be addressed, in what context will the CDM then operate? This research area is essential to identify

what issues need to be addressed in different scenarios if CDM is to remain a viable part of the future climate change mitigation regime.

Due to its focus on the future, where many important factors are today still unknown, this research will in many cases need to make assumptions about future developments, and reflect these as different potential scenarios. Furthermore, the supporting analysis paper (below) will provide further important background, against which the future context can be better assessed by the Panel.

The Context research area is in particular important for parties to the convention, who are now developing a new market based mechanism (decided at COP17), as well as a framework that may support recognition under UNFCCC of nationally/regionally developed mechanisms and markets.

In this area, the Panel may wish to make recommendations about the following seven issues:

15. What should be the role of the CDM under each of the plausible future scenarios for the international carbon market?

Research questions	Methodology	Owners
How might national targets (with	Analytical paper	[g]
commitment to purchase credits to		
offset excess emissions) influence		
demand in the periods 2012-2015,		
2015-2020 and beyond 2020? What is		
the estimated demand (for CER or		
other offset units outside UNFCCC)		
under plausible scenarios? What other		
factors are likely to influence the		
demand-supply situation in future		
markets?		
What are the views of stakeholders	Stakeholder interaction	SEA
regarding the future role of CDM		

16. In light of the emergence of other carbon mechanisms, what is the CDM's comparative advantage? What role, if any, should CDM play in improving standards for carbon mechanisms around the world?

Research questions	Methodology	Owners
What other mechanisms (e.g. voluntary, domestic, bilateral, UNFCCC) currently exist or are in incipient stages of development? How large are they? What has been their development trajectory?	Factual description of major existing and emerging mechanisms	[g]
How are these mechanisms likely to develop? Does this depend to any extent on the performance of the CDM?	Analysis of existing research complemented with stakeholder discussions	[g]
What is the CDM's comparative advantage amongst the proliferation of mechanisms, and how might the CDM complement or contribute to emerging mechanisms?	Analytical paper.	[g]

Research questions	Methodology	Owners
Should the CDM attempt to function	Analytical paper	[g]
as a standard setter for these other		
mechanisms? If so, how? What are the		
advantages and disadvantages of these		
options?		
In light of this potential role as standard	Analytical paper	[g]
setter, how should the role and		
functioning of the EB, secretariat, and		
DOEs be modified?		

17. In light of the emergence of new carbon markets outside of the UNFCCC and EU ETS what role, if any, should CDM play in directly issuing credits to these markets?

Research questions	Methodology	Owners
In what markets are CER recognized as	Review of CER access to existing and	[g]
offsets and in what markets are CER	emerging markets, based on existing	
not recognized as offsets? What is the	descriptions complemented with	
rationale for allowing/not allowing	interviews/stakeholder meetings	
CER into these markets?		
How are these mechanisms likely to	Analytical paper	[g]
develop? Does this depend to any		
extent on the performance of the CDM?		
What would be the value for the	Analytical paper based on existing	Lead Researcher
Convention and the CDM to allow the	research and stakeholder interactions	
use CER in these markets? What are		
the advantages and disadvantages of		
these options?		
Should the role and functioning of the	Analytical paper based on existing	Lead Researcher
EB, secretariat, and DOEs be modified	research and stakeholder interactions	
to better serve the use of CER in other		
markets? If so, how?		

18. Without prejudging global negotiations, how could CDM promote useful learning-by-doing on REDD+?

Research questions	Methodology	Owners
What is the current status of REDD+	Factual review.	[h]
(current and potential supply of credits,		
current demand for credits, current		
acceptance in markets, integrity of		
emissions reductions)?		
How would including REDD+ in CDM	Analytical paper.	[h]
affect the CDM market? How would		
including REDD+ in CDM affect		
REDD+?		
What are the options of incorporating	Analytical and options paper	[h]
REDD+ in CDM so as to build		
learning-by-doing? What are the		
advantages and disadvantages of these		
options?		

19. Without prejudging global negotiations, how could CDM promote learning-by-doing on sectoral mitigation?

Sy words on sector an integration.		
Research questions	Methodology	Owners
What is the current status of sectoral	Factual review of published research	Lead Researcher
offsetting programs around the world,	and other available information.	
including expectations from CDM		
stakeholders regarding the new market		
based mechanism defined at COP17?		
What would be the likely effect on	Analytical paper.	Lead Researcher
CDM markets of allowing crediting of		
sectoral mitigation programs under		
CDM?		
What are the practical requirements to	Analytical and options paper	Lead Researcher
enable sectoral crediting in the CDM?		

20. Should project-by-project offset generation, as currently carried out in the CDM, remain part of the future climate mitigation architecture?

Research questions	Methodology	Owners
Based on the impact of the CDM and the most plausible scenarios for future carbon markets, and development of new mechanisms (questions above), what is the likely role and impact of project based CDM beyond the second commitment period?	Analysis of potential contribution of project based CDM to the objectives of the Convention.	Lead Researcher
Are there sectors, or regions where project based CDM is more suitable as an offset generator, than other types of mechanisms?	Analytical paper.	Lead Researcher

21. Should the CDM remain embedded in the United Nations / UNFCCC? If so, who should operate it?

Who should oberate it.		
Research questions	Methodology	Owners
What functions are currently performed by the United Nations / UNFCCC?	Factual review.	SEA
Does the UNFCCC secretariat discharge its functions effectively?	Survey of EB members/alternates and ex-members/alternates; survey of stakeholders; synthesis.	SEA
What are the advantage and disadvantages of operating the CDM under the United Nations / UNFCCC?	Analytical paper.	SEA

Summary of demand for research on Context:

Owner	Research tasks	Type of work	Duration & work months (w/m)
Lead	Overall coordination and preparation	Coordination and drafting.	
Researcher	of consolidated report and options for		
	recommendations to the Panel.		1 w/m
	Review of the value for the	Analytical study	
	Convention and the CDM to allow the		
	use CER in new and emerging		
	markets? What are the advantages and		1 w/m
	disadvantages of these options?		

Owner	Research tasks	Type of work	Duration & work months (w/m)
	Identify need for institutional reform in the CDM so as to facilitate access of CER to new and emerging markets.	Analytical study	1 w/m
	Review of current status and potential implications of sectoral crediting inside and outside CDM, including identification of practical requirements to enable sectoral crediting in CDM	Summary of existing research + analysis	1 w/m
	Analysis of the role of project based CDM beyond the second commitment period, including review of the need for this type of mechanisms in specific sectors/regions	Compilation of existing data and research	1 w/m
External experts	Analysis of other mechanisms in relation to the CDM, and estimate of future relation between these mechanisms and the CDM.	Comparative analysis, including summary of existing research and input from stakeholder consultations	
[g]	Analysis of access of CER to markets and conditions for CER to be used in those markets		1,5 w/m
[g]	Impact on demand-supply in future carbon markets from national targets and other factors	Summary of existing research and estimates.	1 w/m
[g]	Analysis of the potential of the CDM to act as a standard setter, including potential requirements to modify the institutional set-up of the CDM.	Analysis of how CDM has influenced standards in existing mechanisms, and of key conditions for CDM to act as a standard setter for market based mechanisms	
			3 w/m
[h]	Study of REDD+ in relation to CDM	Summary of existing research	0,5 w/m
Secretariat	-	-	-
SEAs	Summary of stakeholder views on future of CDM	Call for input and stakeholder interaction	1/4 - 15/6 1 w/m
	Review of role of the UNFCCC secretariat in CDM	Factual review, stakeholder interactions, synthesis	/.
			2 w/m

Supporting analysis:

The Panel agreed that the three research areas above, should be supplemented by an analytical study of how the conditions for CDM have changed since the adoption of CDM in 1997.

Following the same format as for the research areas, the following research questions are expected to be addressed as part of preparing this paper

22. How has the world has changed since Kyoto (1997)?

22. How has the world has changed since Kyoto (1997)?			
Research questions	Methodology	Owners	
How has the global emissions profile changed since 1997? Net and per capita emissions for Annex I and non Annex I	Compilation of existing data from national reports and UNFCCC databases, and existing research	Secretariat	
countries, observed and projected rate of change in emissions, based on economic models.	databases, and existing research		
Climate impact scenarios for projected	IPCC reports, UNEP Gap report, and	Panel member/	
emission levels	other relevant research	SEA	
Emerging policy context, with focus on new instruments and tools under UNFCCC decided at COP15-COP17 (NAMA, Green Climate Fund, New market based mechanism, PoA etc).	Summary of decisions	Secretariat	
Analysis of new and emerging carbon markets, including analysis of differences and similarities with CDM, potential overlaps and synergies	Covered by research questions 14-16		
Changes in national emission targets since 1997	Summary of existing communications	SEA	
Changes in per capita income and annual GDP since 1997, for developed countries and developing countries compared to net and per capita emissions. Estimates on future percapita and annual GDP, as above.	Compilation of existing research	Panel member/SEA	

Summary of research demand for research on Impact:

Owner	Research tasks	Type of work	Duration & work months (w/m)
Panel member	Overall coordination and preparation of	Coordination and	
/ SEA	paper	drafting.	
			1 w/m
	- Summary of national emission targets	Factual summary of	
	- Comparison of emission trajectories with	existing information	
	warming scenarios	and analysis of future	
	- Economic data and analysis	trajectories	1 w/m
Secretariat	- Compilation of emission data	Factual summary	
	- Summary of policy context COP15-	reports of existing	
	COP17	information	1 w/m

Output

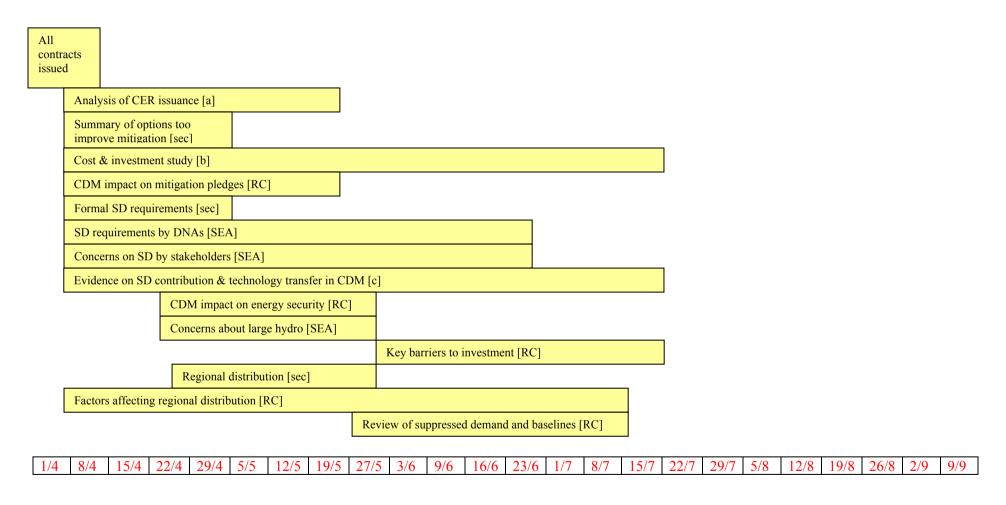
Within each research area (Impact, Governance, Context) a research status report will be produced in time for the second Panel meeting (30-31 May). The research status report will, for each research question within the research area, present preliminary or final findings and, where research findings are not in the form of objective conclusions, present findings as a range of options for the Panel to consider. The objective of the research status reports is to allow the panel to start consider the potential recommendations for each research questions.

The final report from each Lead Researcher is to be produced as a full options paper, presenting for each research question, objective findings and other input, captured as options for the Panel to consider. The final reports are to be delivered by 15 July.

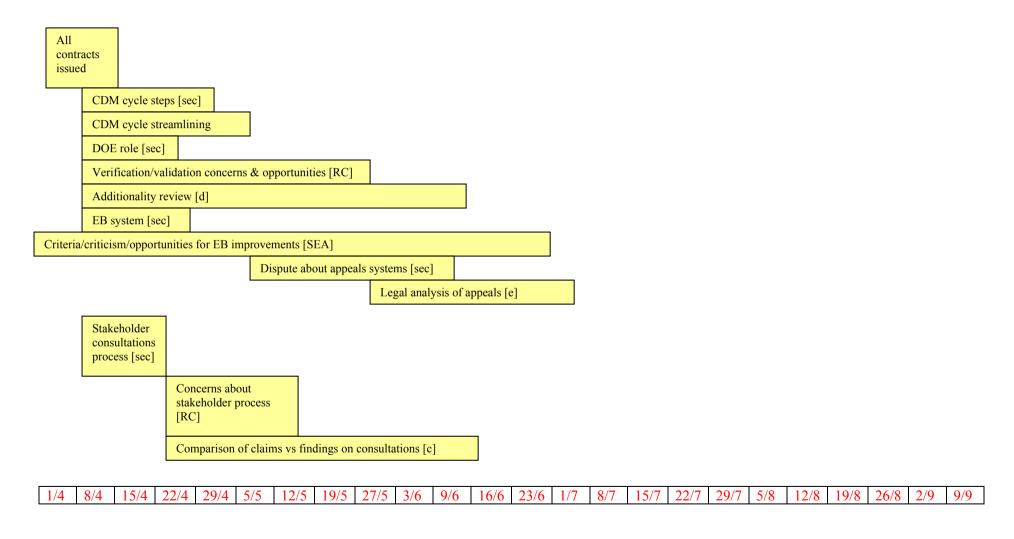
Implementation Plan

The following pages depicts graphically the suggested implementation sequence of research activities in each area.

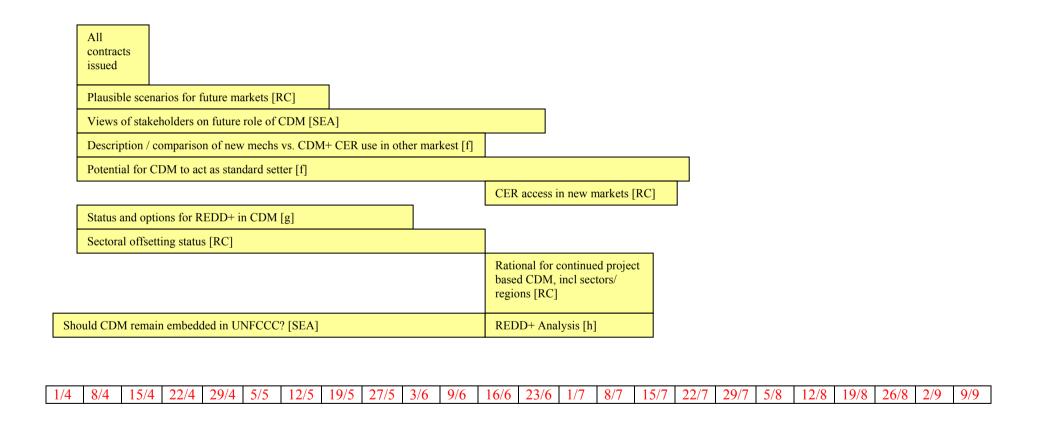
Implementation plan for research on Impact



Implementation plan for research on Governance



Implementation plan for research on Context



Implementation plan for research on supporting analysis

