



## **Report of the Expert Workshop on Integrating Climate Change in National Forest Programmes**



**FAO, Rome, 20-21 September 2010**

## **I. Background**

The Forestry Department of FAO and the National Forest Programme Facility have initiated a joint effort to assist countries address emerging policy issues related to forests and climate change through integrating climate change considerations into national forest programmes. This is in response to an expressed need by countries. In many countries, climate change issues have not been fully addressed in national forest policies, forestry mitigation and adaptation needs at national level have not been thoroughly considered in national climate change strategies, and cross-sectoral dimensions of climate change impacts have not been fully appreciated. It is important that climate change the forest sector devise ways to address mitigation and adaptation challenges and opportunities in national forest policies. National forest programmes have been recognised by the international dialogue on forests as the framework to put international agreements into practice and as the platform for addressing issues related to sustainable forest management, including climate change.

The initiative has three phases. First, over 2009-2010 four national-level consultations were held, in Cambodia, Paraguay, South Africa and Tanzania, to provide a opportunity for government officials and other stakeholders to assess the status of integrating climate change considerations into the respective national forest programmes and identify the key needs at forest policy level to address climate change challenges and opportunities. Second, draft guidelines were developed incorporating the results of these consultations for discussion at the current workshop and then revision and finalisation. Finally, the guidelines will be disseminated and tested with support from international bodies including the NFP Facility.

The expert workshop was part of the second phase of the initiative and focused on the development of guidelines for the integration of climate change considerations into national forest policies through national forest programme processes. The workshop was a central part of the work on the guidelines and involved national and international forest policy and climate change experts

## **II. Objective and Participants**

The objective for the workshop was to review need for and usefulness of the proposed draft guide and provide guidance and recommendations on how to make the guide relevant, practical, complete, informative. Furthermore advice was sought on useful references/tools and ways to finalize, distribute and promote the guide.

The 14 expert participants in the workshop consisted of government officials from all regions of the world and representatives of civil society and of international research and financing institutions (see annex 1).

## **III. Opening and Introduction**

The workshop was opened by Mr. Eduardo Rojas-Briales (Asst DG, FAO), who noted the need for a more comprehensive and a better coordinated approach in addressing forests and climate change. He emphasised that Climate change poses crucial challenges but also presents important opportunities for the forest sector and said that to the many other objectives of forest management, we must add climate change mitigation and adaptation. He expressed the concern that in many countries, climate change is only beginning to be reflected in strategic forest-related policy frameworks. Moreover, that forestry is often underrepresented in climate change strategies or has been incorporated without sufficient consultation with forest-related

stakeholders risking incongruities with forest sector strategies. He said national forest programmes provide a policy framework that can and should comprehensively address all forest-related matters, including the integration of climate change into forestry and incorporation of forestry in climate change strategies.

He introduced the expert discussion on draft guidelines to advance this effort, calling the workshop a critical step in their development for more informed decision making on forests and climate change policy.

The introduction was followed by a tour de table of introductions by the hosts, participants and two facilitators, Pat Hardcastle and Deborah Davenport.

Following the formal opening, Ms Susan Braatz welcomed the participants and introduced the initiative on the guidelines (see annex 3). The initiative has three phases. First, over 2009-2010 four national-level consultations were held, in Cambodia, Paraguay, South Africa and Tanzania, to provide a opportunity for government officials and other stakeholders to assess the status of integrating climate change considerations into the respective national forest programmes and identify the key needs at forest policy level to address climate change challenges and opportunities. Second, draft guidelines were developed incorporating the results of these consultations for discussion at the current workshop and then revision and finalisation. Finally, the guidelines will be disseminated and tested with support from international bodies including the NFP Facility.

Jesper Tranberg reviewed the objectives, agenda and the provisional timetable of the workshop (see annex 2 and 3).

#### **IV. Objective, scope, target group structure and outline**

Pat Hardcastle then introduced the contents of the draft guidelines, consisting of four sections: 1) introduction and rationale; 2) strategic level steps; 3) operational level actions; and 4) tools and information. He noted that the guidelines incorporate both strategic and operational levels of intervention, and that their development is an iterative process of reviewing, revising, operationalising, monitoring, and analyzing climate change-related modifications in national forest programmes (see annex 4). There was then a plenary discussion on the objective, scope, and target group for the proposed guidelines and on their proposed structure and outline.

The group strongly expressed the view that the guidelines were needed and would be useful. The participants made a number of suggestions as to their focus and structure. The key points were that they should be practical and in particular assist with improving the cross-sectoral linkages. The group was well aware of national differences and accepted that these were significant. The general consensus was that the guidelines should be non-technical as far as possible and avoid being prescriptive. The aim should be to facilitate and not direct.

The need to consider indigenous peoples was raised although a number of participants drew attention to the parallel needs of forest dependent communities generally, regardless of whether or not they were indigenous peoples. The importance of national sovereignty was also emphasised.

#### **V. Strategic level – Working group session 1**

After lunch, Pat Hardcastle introduced section 2 on long-term (3-5 year cycle) strategic level steps, organized into the seven components associated with NFPs: policy frameworks,

legislation, institutional frameworks, governance mechanisms, capability and capacity, financing, communications and information. The participants then broke into two working groups to discuss this section with particular reference to three questions:

- 1) Is the approach adopted generally at the right level, given the target audience of high-level policy makers?
- 2) Are the seven components the ones that key high-level policy makers need to consider? And
- 3) Are the components/outcomes/elements sufficiently detailed?

Each group proposed a number of suggested amendments, additions, and deletions, and the results of their discussions were presented and discussed in an afternoon plenary (see annex 5 and 6).

## **VI. Operational level – Working group session 2**

On the second day of the workshop, after a recapitulation of the results of discussions on day one, participants addressed section 3, on operational level actions. Pat Hardcastle introduced the section, asking participants to consider the key question of its organisation and structure and offering several alternative structures for consideration. During plenary discussion, one participant proposed that this section should be structured according to the standard model of policy-making, consisting of a repeating cycle of analysis of evidence, policy formulation, implementation, and monitoring. The group developed a diagram to illustrate this (see Annex 7). Another participant proposed augmenting this with a matrix of actions in each of these policy process stages for each of the seven components of NFPs. The two working groups then met to consider independently such a reformulating this section, organizing the actions according to the new proposed structure (see annex 8 and 9). After lunch, the working group presented the results of their discussions in plenary, followed by discussion.

## **VII. Tools and information**

The group moved into discussion on proposed section 4 for the guidelines, on tools and information, and also considered proposals made for the addition of other elements, such as a glossary and checklists of potential options for action (e.g. related to adaptation, mitigation, research, etc.). Strong support was expressed for inclusion of definitions of key terms in a glossary and also of checklists.

## **VIII. Recommendations and next steps**

In the final plenary participants, following agreement that the structure of section 3 would be reframed to accommodate the four stages of Evidence and Analysis, Formulation, Implementation and Monitoring. The participants then developed a set of recommendations and next steps for the development of the guidelines:

### **Recommendations**

1. The Guidelines provide a useful document which should focus on high-level forest policy makers and be adapted in-country to provide information and guidance for policy makers in other sectors, politicians, and at lower levels in the forest agency.
2. The Guidelines should avoid excessive detail and prescriptive phrasing, leaving countries to decide their own priorities and actions. Indicative examples of technical details can be annexed.

3. Modify Section 2 to include outcome, rationale, milestones, and a summary of actions for each component.
4. Frame Section 3 in a matrix based on the four stages of the policy process cycle and the seven components.
5. Provide an indicator for each action.
6. Section 4 should identify helpful resources, including core reference material, best practice guides and case studies.
7. The group will receive an updated and revised draft with a request for comment on the new structure and on suggested technical detail and reference material. These suggestions will be incorporated and a final draft circulated.
8. Include an executive summary, definition of key terms perhaps as a glossary, annexes, and diagram.
9. Decide on the best place to insert the crosscutting issues (Section I).
10. Take into account the results of the working groups in improving/revising the draft.

### **Next steps**

- FAO sends to the workshop experts the second draft of the guidelines by November 1, 2010 with the request for comments and input, including useful references/tools to be listed in Section IV.
- Comments requested by December 1 2010.
- Finalization by January 15 2011.
- Testing of guidelines (pilot phase).
- FAO should host a website which should be mirrored in each country to augment this with nationally relevant material.
- FAO should present the guidelines to the Regional Forestry Commissions.
- Identify opportunities (funding, awareness raising, dissemination) under UN-REDD, FCPF, NFP-Facility, regional CC &/or forestry networks.
- Disseminate document to NFP focal points.

In the closing of the workshop Ewald Rametsteiner reviewed the outcomes of the workshop, thanked the participants and colleagues providing logistical support for the workshop, and closed the meeting.

## List of Participants

*Integrating Climate Change in National Forest Programmes*

FAO, Rome, 20-21 September 2010  
India Room, FAO HQ, building A, third floor

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Programme Expert Workshop  
*Integrating Climate Change in National Forest  
 Programmes  
 - a Practical Guide*

FAO, Rome, 20-21 September 2010  
 India Room, FAO HQ, building A, third floor, room A327

**Monday 20 September**

<b>Opening</b>		
08:30 – 09:00	Workshop registration – India Room	
09:00 – 09:30	Opening and introduction <ul style="list-style-type: none"> <li>• Welcome</li> <li>• Presentation of participants</li> <li>• Introduction to the initiative, workshop topic, objectives, approach, and expected outcomes</li> </ul>	
09:30 – 10:00	Overview presentation of draft outline of the guide	
10:00 – 10:30	<i>Coffee break</i>	
10:30 – 12:30	<ul style="list-style-type: none"> <li>• Discussion on the objective, scope, target group etc.</li> <li>• Discussion on the proposed structure and outline</li> </ul>	
12:30 – 13:30	<b><i>Lunch and group photo</i></b>	
<b>Afternoon</b>		
13:30 – 16:00	Introduction to working groups on Section II	
	<i>Group A</i> Discussion of section II - Policy and strategic level	<i>Group B</i> Discussion of section II - Policy and strategic level
16:00 – 16:30	<i>Coffee break</i>	
16:30 – 17:30	Plenary: report and discussion of Working Group results	
18:00	<i>Reception hosted by FAO – Indonesia Room</i>	


## Tuesday 21 September

<b>Morning</b>					
08:30 - 09:00	Recapitulation of the first day Introduction to working group on Section III				
09:00 – 10:30	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 50%;"><i>Group A</i></td> <td style="text-align: center; width: 50%;"><i>Group B</i></td> </tr> <tr> <td>Discussion of Section III - Operational level actions</td> <td>Discussion of Section III - Operational level actions</td> </tr> </table>	<i>Group A</i>	<i>Group B</i>	Discussion of Section III - Operational level actions	Discussion of Section III - Operational level actions
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Discussion of Section III - Operational level actions	Discussion of Section III - Operational level actions				
10:30 – 11:00	<i>Coffee break</i>				
11:00 – 12:30	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 50%;"><i>Group A</i></td> <td style="text-align: center; width: 50%;"><i>Group B</i></td> </tr> <tr> <td>Discussion of Section III - Operational level actions</td> <td>Discussion of Section III - Operational level actions</td> </tr> </table>	<i>Group A</i>	<i>Group B</i>	Discussion of Section III - Operational level actions	Discussion of Section III - Operational level actions
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Discussion of Section III - Operational level actions	Discussion of Section III - Operational level actions				
12:30– 14:00	<i>Lunch</i>				
14:00 – 15:00	Plenary: report and discussion of Working Group Session results				
<b>Afternoon</b>					
15:00 – 16:00	Discussion of Section IV - Tools and information				
16:00 – 16:30	<i>Coffee break</i>				
<b>Recommendations and Closing</b>					
16:30 – 17:30	Plenary <ul style="list-style-type: none"> <li>• overview discussion of recommendations</li> <li>• Next steps in developing the guidelines</li> </ul>				
17:30 – 18.00	Workshop closure				

## Introducing the initiative on the guidelines and the objective of the workshop

**Forestry** **FACILITY**

### Introduction



Expert Workshop  
*Integrating Climate Change in  
 National Forest Programmes  
 - a Practical Guide*

FAO, Rome, 20-21 September 2010  
 India Room, FAO HQ, building A, third floor,  
 room A327

**Forestry** **FACILITY**

### Background

- climate change issues are only beginning to be addressed at forest policy level
- countries have expressed need for support on forests and climate change
- integration of CC into NFPs will help ensure balance between various services from forests and stakeholder involvement
- intention to synthesize experience into a practical guide

**Forestry** **FACILITY**

### The initiative

- Joint effort by FAO and NFP-Facility
- Three phases (2010-2011)
  1. National workshops (Cambodia, Paraguay, South Africa and Tanzania)
  2. Development of guidelines (including expert workshop)
  3. Dissemination and support for use of the guidelines

**Forestry** **FACILITY**

### The Guide: objective and target group

- help policy makers integrate climate change into existing forest policy frameworks in a participatory manner and encourage coherence with national climate change strategies.

**Forestry** **FACILITY**

### Objectives of the workshop

- review need for and usefulness of the proposed guide
- provide guidance and recommendations on how to make the guide relevant, practically useful, complete, informative
- contribute to list of useful references/tools
- suggest ways to finalize, distribute and promote the guide

**Forestry** **FACILITY**

### Approach and structure of the workshop

- Open and informal technical discussion,
- experts in your personal capacity
- flexible programme:
  - overall concept (incl Section 1) - plenary
  - strategic level in WG (Section 2) - reporting in plenary
  - operational level in WG (Section 3) - reported in plenary
  - tools and information (Section 4) - plenary
  - plenary discussion on key recommendations, next steps

## Presentation of the draft guidelines

### Climate Change for Forest Policy Makers

Practical guide for integrating climate change into national forest programmes

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2010

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### Rationale

- Impact of climate change on life and forests
- Adaptation
- Mitigation
- Need for policy revision through:
  - ⇒ National leadership
  - ⇒ Cross sectoral approach
  - ⇒ Wide societal engagement

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### Context

- UNFCCC
  - ⇒ Climate science
  - ⇒ Importance of forests and land use change
  - ⇒ Understanding of issues
- Forest policy change
- National forest programmes
- Use NFP approach to integrate climate change

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### The Guidelines

- Four sections:
  - ⇒ Introduction and rationale
  - ⇒ Strategic level steps
  - ⇒ Operational level actions
  - ⇒ Tools and information
- Draft is a starting point for the workshop discussion, not a finished document

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### Goal and Objectives

- Goal
  - ⇒ Help policy makers integrate climate change into existing policy frameworks in a participatory and coherent way
- Three objectives:
  - ⇒ Identify and prioritize changes to policy and practices
  - ⇒ Operational guidance on integrating climate change into forest-sector policies and practices
  - ⇒ Enhance coherence between forestry and climate change

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### Summary of the approach

- Clarify understanding of national vulnerability to climate change and its impacts, need for adaptation and scope for mitigation, then:
- Two levels of intervention:
  - ⇒ Strategic
  - ⇒ Operational
- This is an iterative process
  - ⇒ Review, revise, operationalize, monitor, analyse and repeat

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## Preliminary work

- Vulnerability and impact assessment
- What will climate change mean?
  - ⇒ Adaptation – what will be needed?
  - ⇒ Mitigation – what is the potential?
  - ⇒ How well is climate change integrated now into national development and economic plans?
- National climate change policy
- International climate change commitments
- Prioritize adaptation and mitigation actions
- Gap analysis of current policy and practice

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## Structure – Strategic Section (2)

- Aimed at high level policy makers
- 7 Components
  - ⇒ Policy – with coherent Legislation, Institutional framework, Governance mechanisms
  - ⇒ Application of policy – Capability and Capacity, Financing, Communications and Information
- Policy framework is long term, 3 to 5+ year cycle, stability is important
- Outcome, rationale, steps, milestones

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## Structure - Operational Section (3)

- Cuts across strategic components
  - ⇒ Core, Supporting, Facilitating
  - ⇒ Links back to strategic steps in section 2
  - ⇒ Has prerequisites for actions
  - ⇒ Indicator
  - ⇒ Type of action: one-off, periodic, continuous

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## Tools and information (4)

- Capturing and using information from a range of levels from global to local
- Tools to assist delivery
- Web-based resource

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## Issues for discussion

- Are the guidelines needed and useful?
- Will they be used as assumed?
- How can they be improved to be made more useful?
  - ⇒ Structure?
  - ⇒ Content?
- What will be required to keep the guidelines up-to-date?

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## Operational actions – alternative 1

- Each strategic level action → several operational level actions
  - ⇒ This means that the two sections have to have a similar structure. There is considerable repetition and overlap at the Operational level
  - ⇒ No clear way of showing sequencing
  - ⇒ Operational level section becomes very long
- This was tried but rejected

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## Operational actions – alternative 2

- Identify *type* of strategic action, e.g.
  - ⇒ Review - enhanced information and understanding
  - ⇒ Identify and engage stakeholders and actors, resolve conflicts through negotiation and actions
  - ⇒ Planning, reporting, reviewing systems and information flows
  - ⇒ Securing enhanced coherence
  - ⇒ Revision processes
  - ⇒ Improved coordination and cooperation
- Provide guidance on implementing each type of strategic action

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## Operational actions – alternative 2 cont.

- ⇒ Review, better knowledge and information
  - ✓ 01, 02, 03, 010, 011, 012, 015, 019, 027, 032, 035
- ⇒ Engage stakeholders and actors
  - ✓ 04, 05, 06, 029, 030, 039, 041
- ⇒ Plan, report, review systems; information flow
  - ✓ 07, 08, 014, 033
- ⇒ Secure enhanced coherence
  - ✓ 09, 018, 026, 028, 034, 036, 037, 038, 040, 042
- ⇒ Revision processes
  - ✓ 013, 017, 027
- ⇒ Improved coordination and cooperation
  - ✓ 020, 021, 022, 023, 024, 025, 031
- ⇒ Time? Sequencing? Climate change detail?

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## Strategic level – Working group A

## GROUP A: SECTION 2

## Question #1

- Target the Forestry Policy Makers
- To address additional audiences, FAO and others can create products (i.e. policy briefs)
- Diagram needed to clarify the structure
- Document should be factual, not presupposing (e.g. – eventual (vs. potential) REDD framework)
- Differentiating Crosscutting issues. Options:
  - Make as a separate, larger section, including material enhanced cross-sectoral coordination
  - Add as a Component – 8 total
  - Keep as is, but change format

## GROUP A: SECTION 2

## Question #2

policy framework, legislation, institutional framework, governance mechanism, capability and capacity, financing responses, information and communication

## GROUP A: SECTION 2

## Question #3

- First column should be a number and letter (A1, A2..)
- Prerequisites too prescriptive – take out?
- Replace prerequisites with “recommended previous steps”
- “Steps” should be replaced with “Elements”
- Replace last column with “Monitoring” (i.e. one off, continuous monitoring, review in # years, etc.)

## Question 3 – Component A

## Component A – Policy Framework

- Outcome: add at end “...and cross-sectoral coordination at all levels”
- Lack of “Milestone” for component A

## Question 3 – Component B

- Outcome: “...and with other relevant policies and legislation...”
- “Milestone” for component B – “Forest related legislation *taking into account [integrating] climate change*”
- S16 and Milestone – replace “system” with “process”

## Question 3 – Component C

- Milestone #1: “..between forestry agency and other agencies (i.e. UNFCC focal point), with...”
- S21 – under last column: “continuous”
- S23 – under last column: “yearly”

### Question 3 – Component D

- Outcome: *“A transparent, affordable, and effective forest governance...”*
- *“.....with appropriate participation, fair outcomes and equitable allocation of costs and benefits.”*
- Under S29 *“Ensure that the principle of Free Prior and Informed Consent (FPIC), taking into account national legislations and circumstances, is fully embedded in governance systems...”*

### Question 3 – Component E

- Outcome and Milestones: replace *“systems”* with more appropriate word (perhaps *“institutions and processes”*?)
- Rationale: redefine *“capability”*
- Revise S31 for clarity to capture the idea of making full use of international and regional cooperation to minimize duplication of effort, and avoid donor driven duplication and reduce the demands on national expertise.

### Question 3 – Component F

- Rationale and Elements should also include financing for more than carbon (i.e. adaptation actions, PES)

### Question 3 – Component G

- Elements (ie S41) should reflect somewhere *“based on best available scientific information”*

## Strategic level – Working group B

Group B : Section 2  
Question 1

- diagram to provide visual map for different tasks & how they link together
- forest policy-makers are key, but...
- emphasis on stakeholder engagement at all points – to ensure capacity-building
  - science & evidence
  - assess training needs
  - collaboration: task forces, working groups

## Question 2

- yes, broadly, although evidence is a building block
- not sequential (replace 'steps' with actions?), and no single approach
- present as a toolkit – understand the linkages
- precondition rather than prerequisites?
- balance between importance of different components varies:
  - capacity-building (of all types of stakeholder) is fundamental
  - finance essential from the perspective of multi-purpose forestry and across sectors & funding sources
    - \* plus forestrole in supporting livelihoods & enhancing resources (e.g. water supply)
  - legislation as a spur & lever – guidance needed on taking this forward?

## Question 2 (cont'd)

- other possible formats? e.g. state outcome, list possible actions
- current steps often part of NFPs in any case – need to focus on additional actions
- therefore, co-ordinate and synchronise with ongoing NFP processes

## Question 3

## Cross-cutting issues : initial analyses

- minimise duplication with the subsequent main components

## Question 3 - Component A

- need a tailored package of measures that complement each other

## Question 2 – Component B

- S15, S16 & S17 – also review existing policies in light of international legislation
- S16 as precondition for S17?
- but recognise that national legislation is designed to meet national circumstances – “get national house in order” first?

### Question 3 – Component C

- institutional frameworks may extend well beyond forestry

### Question 3 – Component D

- need vertical as well as horizontal integration and co-ordination
- S29 – should be continuous, because CC is an evolving situation
- S30 – conflict resolution is crucial – where to obtain expertise to develop appropriate systems?

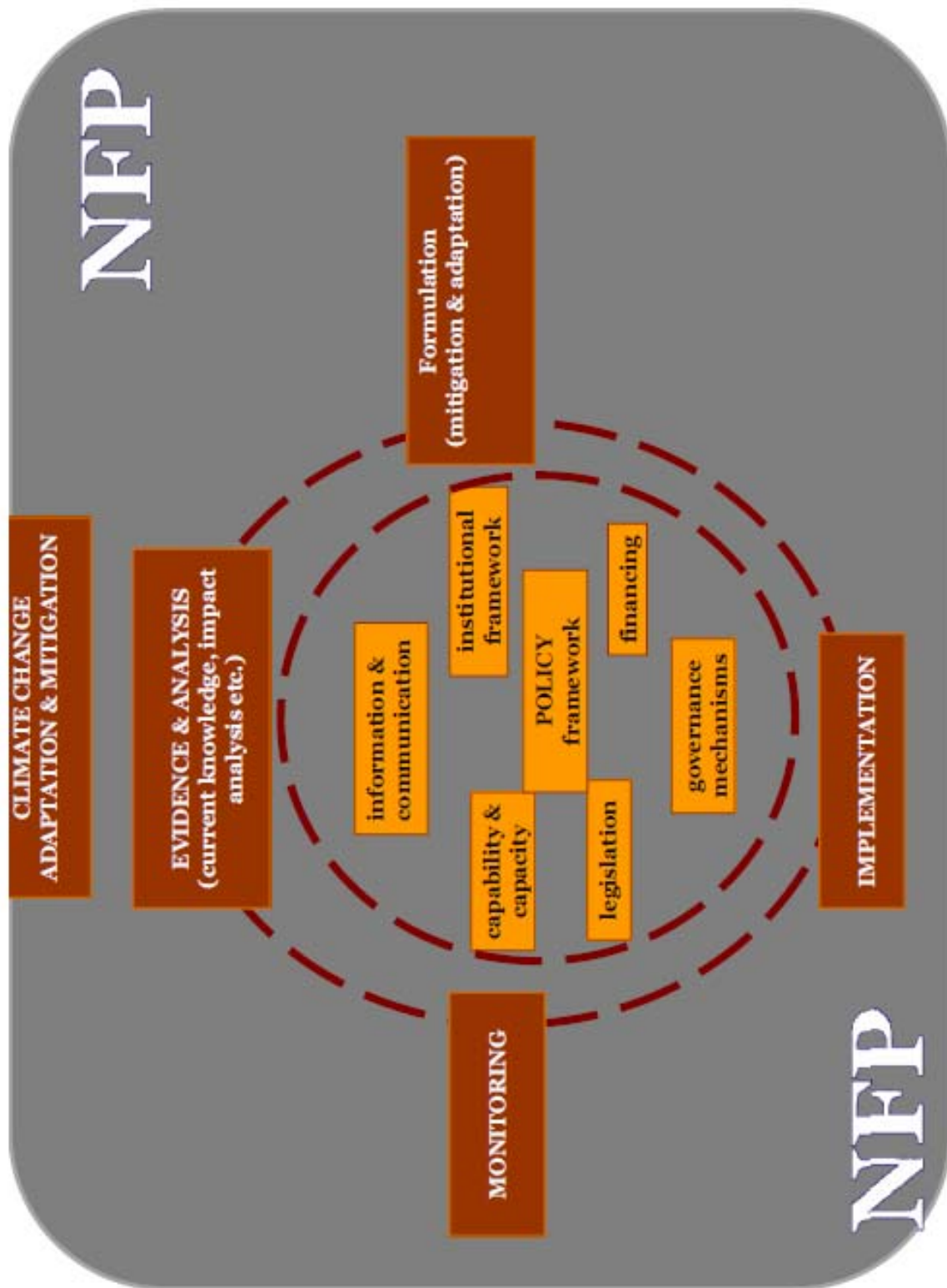
### Component E

- add an S35:
  - i.e. “ensure (or facilitate?) access to capacity building activities to enable full and effective participation of stakeholders (including indigenous peoples and forest-dependent communities)”

### Component F

- emphasise need for innovation and engaging with new stakeholders
- S36 – “to ensure transparency and accountability” in place of short-term profiteering
- S37 – more recognition of capacity of national governments to mobilise finance

Operational level – Suggested new structure



## Operational level – Working group A

### Additions to Section #2

- Cross-sectoral vision – holistic vision
- Encourage inter-sectoral coordination discussions on sustainability, which incorporate forest issues and sector
- Transnational/International cooperation – strengthen best practices exchange
- Not reinvent wheel – ensure that existing tools are used

### General Points – Section #3

- Division between core, supporting and facilitating actions are confusing – do we need three actions?
- Recommend to reorganize according to four stages and seven components (refer to matrix)
- Some actions need to be moved to Section #2
- Move some very specific details to another section (perhaps Section #4?)
- Question: What level of detail do we want in “specific detail” section?

### Evidence and Analysis

#### Types of assessments/analysis/studies:

- Vulnerability studies on ecosystems, species, and communities
- Adaptation
  - Changes to Forest Management
  - Adaptation actions to help other sectors
- Mitigation
- Financing
  - Identification of new and modified forest business opportunities
- Capacity of land managers and institutions (forest service, private land owners, communities)
- Assessment of governance structures and land tenure systems
- Synergies between adaptation and mitigation
- Assessment of research and training capacity and integration
- Analysis of current information system

### Formulation

- Develop adaptation and mitigation strategy, defining the priority actions (i.e. genetics, fire, etc.)
- Synchronized with national climate change policy formulation and other sector policies
- Refer to topics in analysis phase
  - example: E1, E3, E8, E10, E16, C6, C8, C9, C10
- Establish a research agenda
- Development of new structures and systems, if needed, to involve all key stakeholders into policy development process
- Strengthen and develop capacity building policies and structures – research, stakeholders, land managers, land owners, local communities

### Formulation #2

- Establish innovation strategy (how to make new business out of climate change)
- Create a monitoring policy / information and communications policy
- Build upon traditional and local knowledge/structures (E10)
- Develop new financing, technological, and risk management frameworks, with a long term vision (i.e. especially in light a potential increase of major catastrophic events)

### Implementation

- Do all of the above ☺
- C5
- partnerships , education, public awareness, conflict resolution
- Coordination (multisectoral, stakeholder committees, etc.)
- regional and international collaboration
- financing – public, private, ODA, climate funds

Ref	Stage - Element	Action
<i>Forest and climate change related policies and planning</i>		
C1	Analysis -all elements	Review other sector policies affecting forest-related adaptation and mitigation action needs, assess consistency and coherence with forest sector policies, develop and deliver plan to resolve conflicts
C2	Implementation - all elements	Forestry officials contribute inputs and participate in the development of national climate change strategies and plans and facilitate/encourage broad forest stakeholder involvement
C3	Formulation – all elements	Identify and prioritize actions that will maximize synergies between adaptation and mitigation measures in the forest sector and incorporate these into work plans, programmes and budgets
<i>Forest and climate change related research</i>		
C4	Formulation –all elements	Identify new research needs related to forests and climate change in the country and organise appropriate consultation and revision of research strategies.
C5	Implementation – all elements	Ensure good coordination across research institutions on research related to forests and climate change
C6	Formulation – all elements	Use national climate change impact and vulnerability assessments as the basis for assessing climate change impacts on forests and identifying the most vulnerable forest ecosystems
C7	Formulation	Ensure that information on relative vulnerability to climate change of different forest ecosystems is incorporated into monitoring systems and research planning. See Actions E7, E8
<i>Capacity building for forest and climate change policies</i>		
C8	Analysis	Review capacity and capability across the sector in respect of climate change related expertise. See Actions E13, E14
<i>Forest and climate change financing mechanisms</i>		
C9	Formulation - financing	Identify and work to revise existing subsidies or tax incentives that have negative effects on REDD or work against afforestation/ reforestation. <b>**make more general, expand past carbon, include adaptation, PES, LULUCF</b>
C9	Formulation - financing	<b>Enhance existing mechanism that work and explore opportunities for new financing (PES, REDD, etc.)</b>
<i>Information and communication on forests and climate change</i>		
C10	Formulation and Implementation - Information	Develop and implement a communications strategy on forests and climate change as part of overall forest sector communications, which provides for public awareness of the role of forests and trees in climate change mitigation and adaptation as well as of the country's related policies and programmes, as appropriate

## Operational level – Working group B

This is a toolkit – pick and choose. No particular order intended

Components	Operations			
	Evidence & analysis	Formulation	Implementation	Monitoring & evaluation
Core/background information	C4-7 (forest & CC research) Review existing evidence & initiatives Establish risks and vulnerabilities			C7 (incorporate vulnerability info into monitoring systems)
Policy framework	1. Assess gaps & where additional policies needed 2. Identify other policies affecting forestry C1 (review other sector policies) 3. Assess prospects for forest carbon markets	C3 (actions to synergise mitigation & adaptation in forestry) Evaluate policy options (e.g. markets, fiscal etc)		C1 (review other sector policies)
Legislation	Review & evaluate existing legislation (E3) Review ownership rights (e.g. land, carbon etc.)			
Institutional frameworks	Review institutions (incl. research)	C5 (research co-ordination) Establish CC research institutional framework (e.g. in-house, external, collaboration, partnerships)		
Governance mechanisms	E1 (Assess current mechanisms for conflict resolution)	E2 (anticipate & manage conflicts)		
Capability and capacity	Risk and vulnerability assessment C8 (review) Capacity needs assessment		S33 Training (to incl. CC in forestry curricula; in-house and external)	
Financing	Review economic instruments - Public expenditure - extent of private investment - donors C9 (perverse incentives)	C3 (actions to synergise mitigation & adaptation in forestry) Assess market & non-market opportunities	Develop incentives for forestry-related mitigation and adaptation  Mobilising funding (private investment etc)	

	Plus real incentives			
Information and communication	Establishing baseline for communications needs	C3 (actions to synergise mitigation & adaptation in forestry) C4-7	C10 (comms. strategy) Plus, ensuring access to information (outreach) E 5 (updates on relevant research) E7 & E8 (research programmes e.g. inventories, impacts, mitigation, adaptation*)	C7 (incorporate vulnerability info into monitoring systems) E6 (revise research programmes as required)

### Deletions

E4

### Additions

1. Capacity needs assessment
2. \* list potential research activities under impacts, mitigation and adaptation (as annex under section 4?)
  1. Amazon dieback study (World Bank) (Amazon, Indonesia and Congo Basin)
  2. Read Report (UK) (impacts, mitigation, adaptation)
  3. IUFRO assessment of adaptation research
  4. Adaptation – biophysical (forests potential to adapt) and human (helping society to adapt, and indirect effects on society)
  5. Economic instruments and financial mechanisms
  6. Forest inventories
3. reduce section 2 and put actions in 3 or vice-versa?
4. use existing knowledge and processes – these guidelines to add new info only (on CC)