

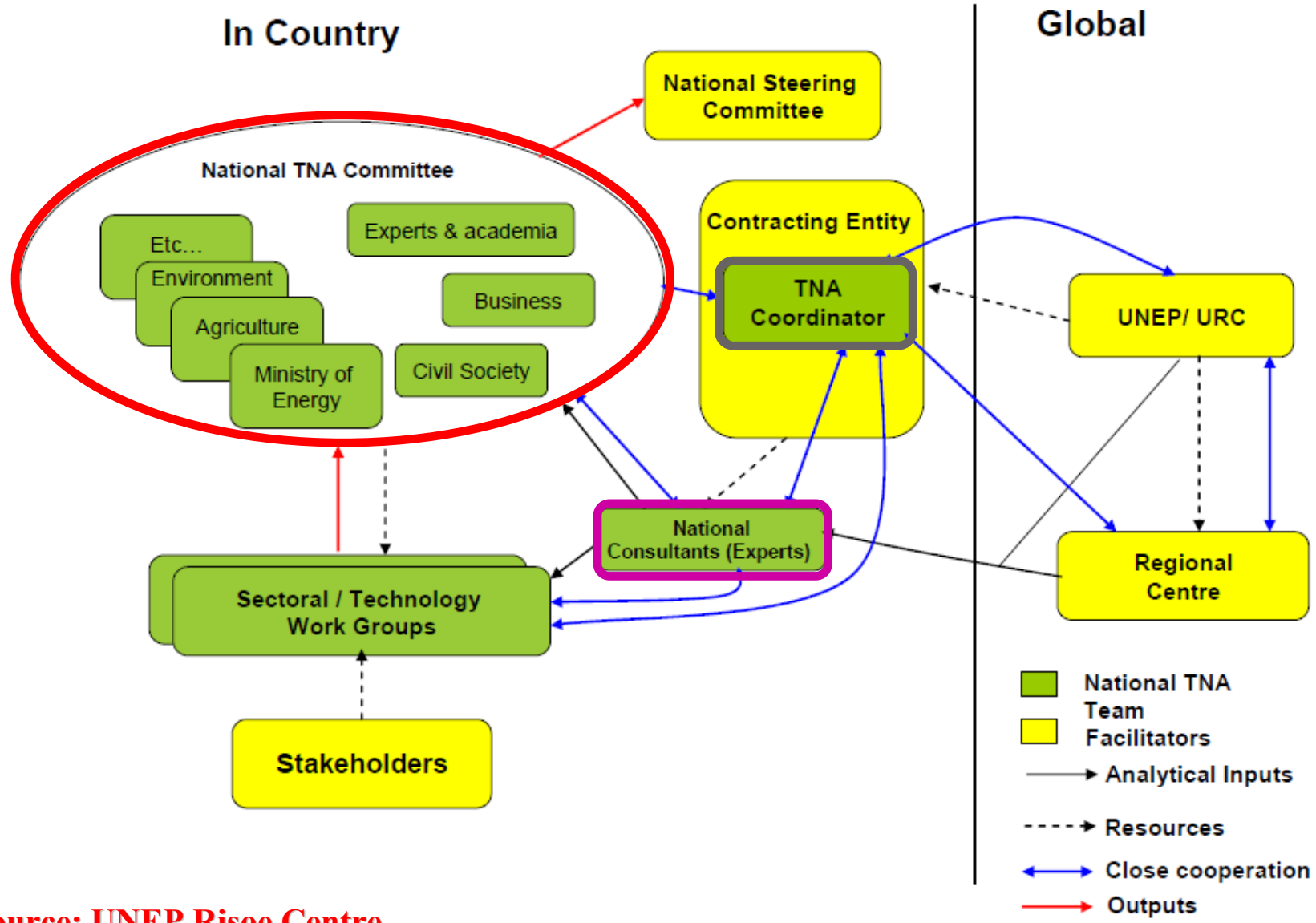


Thailand Climate Change Technology Needs Assessment (TAPs on Capacity Building)

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First Meeting of the Durban Forum on Capacity Building
23 May, 2012. Bonn, Germany

Institutional Structure for the TNA project



Source: UNEP Risoe Centre

1st Thailand TNA Stakeholder Meeting

Bangkok, Thailand

July 12, 2010



- Office of Natural Resources and Environmental policy and Planning (ONEP), Ministry of Natural Resources and Environment and National Science Technology and Innovation Policy Office (STI), Ministry of Science and Technology organized the meeting for launch the Thailand Technology Needs Assessment (Thailand TNA) project and gathering the recommendation on TNA activities from experts and stakeholders.



- This Meeting brought together 54 experts and stakeholder in technology for climate change area, in particular those from governments, universities and private sectors.



- **Prioritized Sector**
 - **Adaptation** : Water Resource Management Sector, Agricultural Sector and modeling Sector
 - **Mitigation** : Energy Management Sector

The National Public Hearing Workshops and Focus Group



the 1st nation public hearing
Queen Sirikit National Convention Center Bangkok



Thailand Climate Change Technology Needs Assessment



Sector	Prioritized Technology
Water Resource Management Sector	<ol style="list-style-type: none"> 1 Operation of Water Infrastructure - Networking and management of infrastructures 2 Weathering & Hydrological Modeling - Seasonal climate prediction 3 Early Warning - Sensor web
Agricultural Sector	<ol style="list-style-type: none"> 1 Forecasting and early warning systems 2 Crop improvement – Marker Assisted Selection 3 Precision Farming
Modeling Sector	<ol style="list-style-type: none"> 1 National Climate Data Centre 2 Transferring Climate and Weather Data Transfer 3 Weather Forecasting Technology (WRF(ARW))
Energy Management Sector	<ol style="list-style-type: none"> 1 Energy Supply – Smart grid 2 Renewable energy technology – Waste to power 3 Energy efficiency improvement – Fuel Combustion in industrial Sector

Example TAPs on Capacity Building in Agricultural Sector

Forecasting and early warning systems	Crop improvement	Precision Farming
<ul style="list-style-type: none"> -Develop a simulation model with a scale suited for Thailand's geographic areas -Develop unified databases that use the same standards both nationally and regionally 	<ul style="list-style-type: none"> -Research collaboration with the international research institutes, private companies and networks -Transfer Marker Assisted Selection (MAS) technology to plant breeders 	<ul style="list-style-type: none"> -Develop and apply remote sensing and GIS technologies to small and medium sized farms -collaboration mechanism between public and private sectors, both domestically and internationally -Encourage an application of precision farming technologies
<p>Training on the development of pest/disease simulation mode / collaboration with international institutes</p>	<p>Formulate courses on plant Marker Assisted Selection (MAS) / collaboration with international institutes</p>	<p>Provide farmers with precision farming courses, focusing on how to collect and analyze relevant data to improve productivity while reducing resource consumption</p>

Example TAPs on Capacity Building in Energy Management Sector

Energy supply – Smart Grid	Renewable energy technology – Waste to energy	Energy efficiency improvement – Fuel Combustion in industrial Sector
<ul style="list-style-type: none"> - Develop a research network from academic institutes with best practices case-study 	<ul style="list-style-type: none"> - Advance technology Transfer of Hydrothermal Treatment Technology 	<ul style="list-style-type: none"> - Technology Transfer and approach
<ul style="list-style-type: none"> - Develop international smart grid network 	<ul style="list-style-type: none"> - Capacity Building in local community and NGO and public promotion in waste separation system 	<ul style="list-style-type: none"> - Technician/operator training/development by using the best practices case

Applying the results of TNA project in Thailand



- Assessment results will be used to establish a baseline for specifying mitigation and adaptation targets for the country.
- The results will be reported to the **National Committee on Climate Change Policies** for further national policy decision and its implementation by both government and industry.



Thank you & Sawasdee