



**UNITED NATIONS ENVIRONMENT PROGRAMME**

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Программа Организации Объединенных Наций по окружающей среде    برنامج الأمم المتحدة للبيئة

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# Global Partnership on Nutrient Management (GPNM) Proceedings of the 4<sup>th</sup> Steering Committee meeting

**April 1<sup>st</sup> 2015**

**By teleconference**

## Overview

The **Global Partnership on Nutrient Management (GPNM)** was launched in 2009 to address the global challenges faced by the mismanagement of nutrients and nutrient over-enrichment. It is a global partnership of governments, scientists, policy makers, private sector, NGOs and international organizations. It responds to the 'nutrient challenge' – how to reduce the amount of excess nutrients in the global environment consistent with global development. The GPNM reflects a need for strategic, global advocacy to trigger governments and stakeholders in moving towards more efficient and effective nitrogen and phosphorous use and lower losses associated with human activities. It provides a platform for governments, UN agencies, scientists and the private sector to forge a common agenda, mainstreaming best practices and integrated assessments, so that policy and investment responses/options are effectively 'nutrient proofed'. The GPNM also provides a space where countries and other stakeholders can forge more co-operative work across the variety of international and regional fora and agencies dealing with nutrients, including the importance of impact assessment work. The work of the GPNM is advanced by a Steering Committee, a sub-set of the Partnership members and is supported by the GPA Unit of the Freshwater and Marine Ecosystems Branch of the Division of Environmental Policy Implementation of UNEP, which serves as the Secretariat to the Steering Committee.

The Fourth meeting of GPNM Steering Committee was convened on 1<sup>st</sup> April 2015 via teleconference for the purpose of providing an update on progress of GPNM activities since the last steering committee meeting, provide a summary of the GEF Global Nutrient Cycling (GNC) Project workplan to March 2106 (which will constitute the bulk of support under the GPNM), provide update on proposed governance arrangements with respect to the GPNM within the GEF-INMS Project (under development) and provide updates on recent work of GPNM Task Teams.

Participants were:

Dr. Christopher <b>COX</b>	Programme Officer, UNEP/GPA
Dr. Greg <b>CROSBY</b>	National Program Leader National Institute of Food and Agriculture, USDA
Mr. Patrick <b>HEFFER</b>	Senior Director, Agriculture Service IFA
Dr. Sasha <b>Koo-OSHIMA</b>	Senior International Water Policy Advisor Office of Water, Environmental Protection Agency (EPA)
Dr. Yuelai <b>LU</b>	Head of the Secretariat UK-China Sustainable Agricultural Innovation Network
Dr. Terry <b>ROBERTS</b>	President IPNI
Prof. Roland <b>SCHOLZ</b>	Project Leader Global Traps/University of Zürich
Dr. Mark <b>SUTTON</b>	Environmental Physicist Centre for Ecology & Hydrology
Mr. Vincent <b>SWEENEY</b>	Coordinator UNEP/GPA
Ms. Isabelle <b>VANDERBECK</b>	GEF IW Task Manager UNEP (invited)

## GPNM 4<sup>th</sup> Steering Committee Meeting Proceedings

### Welcome remarks and agenda review

#### Welcome Remarks: Dr. Greg Crosby, National Program Leader, Sustainable Development, USDA National Institute of Food and Agriculture and GPNM Chair

Dr. Crosby welcomed the meeting participants and formally opened the meeting. He noted that he had received word that Dr. Ajit Pattnaik was delayed due to a prior engagement and that Arnoud Passenier would be joining the call in the next 30 minutes. He expressed thanks to the GPNM Secretariat in building on the work and capacity of the GPNM. He briefly acknowledged the work of the NUE Task Team adding that the recent position paper produced by the group will provide the GPNM with leverage in advancing its mandate with the countries. He stressed however that the steering committee members need to endorse the paper not by 'silent default consensus' but rather by expressed proclamation. He urged that all steering committee members formally endorse the submission towards its publication by the GPNM. He noted that the meeting will consider the further discussions regarding the relationship of the GPNM within the INMS Project development process. He further noted that the meeting will need to consider an agreement for Dr Clement Lewsey to serve as the GPNM lead member in advancing the work of the Caribbean Platform for Nutrient Management.

### Review of the Minutes of the 3<sup>rd</sup> Steering Committee meeting

Dr Crosby noted that the minutes are accepted but requested that Dr Koo-Oshima make the needed amendments to the part of the minutes for which the Secretariat requested clarification; she will provide the inputs soonest to accurately reflect the record.

The Secretariat (C. Cox) provided an update on progress on the Summary Action List in the previous minutes:

	Decision for action	Lead responsibility	Status
	<b>UNEA Process</b>		
1	Resolution preparation for the next UNEA	S. Koo-Oshima; supported by A. Passenier	On-going discussions; to be further discussed in this meeting agenda
2	UNEA, May 2016, Nairobi; liaise with member states to identify a sponsor for a nutrient Resolution	V. Sweeney (to look into and advise on best avenue for participation)	23 <sup>rd</sup> to 27 <sup>th</sup> May 2016 are set for UNEA. There are 'soft' and hard deadlines regarding the submission of documentation through the process.
	<b>Technical matters</b>		
3	NUE Task team to prepare a 10-page brief on the derivation of indicators	T. Roberts	Completed; seeking formal endorsement by the steering committee (SC).
4	Formalize the Phosphorous management Task Team within the	A. Passenier to lead	To be further discussed/presented in this meeting agenda (see Task Team agenda item)

	Decision for action	Lead responsibility	Status
	GPNM		
	<b>Partnership building</b>		
5	GPNM Terms of Reference to be re-circulated to all members	GPNM Secretariat	A draft document has been prepared by the Secretariat. Needs to be cleared by Chair for wider circulation; Chair will follow up.
6	Invite the regional platform chairs to the next SC meeting	G. Crosby	No further consideration. Process to engage platforms is being re-initiated
7	Extend invitation to the World Bank to sit on the GPNM; also a representative from the Global Partnership for Oceans (GPO).	G. Crosby/GPNM Secretariat	Specific invitations have not been dispatched to the World Bank as there has been a change in status with the GPO; initiative appears to be either suspended or terminated. <u>Crosby</u> noted that the GPNM will approach the Partnership on Climate Smart Agriculture and Global Partnership on Soils. The GPNM Secretariat to prepare letters of invitation.
8	Consult with the FAO to determine areas of mutual cooperation that can be integrated within the work of the GPNM	GPNM Secretariat with G. Crosby	There have been discussions with Catarina Batello regarding an alternate FAO contact point in the person of Dr. Ronald Vargas who is involved in organizing events associated with the International Year of Soils. <u>Heffer</u> will be at the FAO in Rome next week and will meet potential collaborators on the Global Soils Partnership. He will advise on outcome of discussions.
9	Formal submission/tabling of the EU fertilizer subsidy study to be adopted as part of GPNM contributions	P. Heffer	<u>Heffer</u> stated that the study will be complete by the end of year 2015. This can be cited as a GPNM publication when it becomes available.
	<b>Projects</b>		
10	GNC Project Mid-Term Evaluation to be circulated to the SC for comments	I. Vanderbeck	Completed; SC members have provided inputs. <u>Crosby</u> noted that the report was a useful guide for continued implementation. <u>Vanderbeck</u> to circulate the final review report to SC members.
11	Options for the governance structure for the INMS Project presented to the GPNM SC	M. Sutton; C. Howard; I. Vanderbeck	For discussion within this meeting's agenda
12	Post all relevant information on the INMS Project on project website	C. Howard	Not raised (task in progress)
13	CEH develop a more non-technical audience-friendly version of the PowerPoint presentation	C. Howard	Not raised (task pending)
14	SC members to direct comments on the INMS Proposal to CEH	All GPNM SC members	For discussion within this meeting
	<b>Communications and outreach</b>		
15	Formation of a Task Team on communications (including development of TORs); Source needed expertise; Review and	GPNM Secretariat, A. Bleeker (who will chair) and N. Raghuram (who will assist)	Letters of invitation sent by the Secretariat to identified agencies and have received some commitments of participation. 4 members (not including the Secretariat) have confirmed

	Decision for action	Lead responsibility	Status
	strengthen the communications strategy		participation.
16	Steering committee members to provide feedback on the draft Communications Plan	A. Bleeker to lead	Not raised (task pending)
17	Articulation of guiding principles for communications and information dissemination between the GPNM and UNEP	Communications Task Team and GPNM Secretariat	Not raised (task pending)
18	Commence publication in different languages; (those to be determined)	GPNM Secretariat	Task pending
19	Develop a brochure to be used to field new partners to the GPNM	GPNM Secretariat	Draft flier and invitation letter template developed
20	Develop a set PowerPoint presentation that SC members can use in their outreach	GPNM Secretariat	PREZI presentation developed and undergoing final modifications
21	Review the new GPNM logo proposals	GPNM Secretariat & Communications Task Team	Task pending
<b>Resource mobilization</b>			
22	Submit a proposal for resource mobilization to the EC Director General for Environment; based on GPNM workplan	GPNM Secretariat submit to A. Passenier who will engage discussions on behalf of GPNM	Task pending. UNEP internal project to be used as basis for resource mobilization. The project proposal is still under review and finalization by UNEP

#### Further comments:

**UNEA Resolution development:** Sutton suggested that ahead of the last UNEA, a draft resolution was prepared but was not tabled eventually. Perhaps this document could be ‘dusted-off’ and updated for resubmission. It was advised that the original proposal is not necessarily ‘gathering dust’ but it should be crafted in a manner that it is very explicit in the outcome being sought from the UNEA, particularly in terms of country commitments.

Koo-Oshima stated that the last resolution was not ‘full-blown’ and that something more substantive is required. The GPNM need to get consensus from the country perspective as to what is being asked. It needs to be kept in mind the budget requirements needed to implement any resolution that may be adopted at the UNEA. Crosby stressed that countries already represented on the GPNM need to take lead. **ACTION:** Koo-Oshima will continue to lead efforts, working with the Policy Task Team to advance the effort. The contributions from Sutton for the initial work on a resolution will be incorporated.

**Partnerships and strengthening the regional platforms:** Sutton noted that he has not seen an operational framework for the regional platforms, asking whether one exists. He suggested that there should be congruence with the regional nodes of the INI. Crosby asked the meeting whether Zhang

Fusuo is chairing the Asian platform. This needs to be verified. Crosby tabled the proposal that Dr Clement Lewsey lead on behalf of the GPNM in advancing progress with the Caribbean nutrient platform. The meeting agreed with this proposal. **ACTION: Chair and GPNM Secretariat to liaise with UNEP Caribbean Regional Coordinating Unit regarding the decision and next steps to engage Dr Lewsey. GPNM Secretariat to assess status of Asian platform.** Sutton asked that the proposal for the Caribbean nutrient platform be shared. **ACTION: The Secretariat is to forward the document to him.**

## Overview of the GNC Project workplan (support to work of the GPNM)

**Christopher Cox, GPNM Secretariat/UNEP GPA**

*Presentation slides in Annex 3.*

The following are the key highlights of the presentation which focused on the GEF Global Nutrient Cycle Project that is generating the knowledge contributions of the GPNM (the revised workplan for the project is attached in Annex 4).

### Component A

**Holding of GPNM global meetings:** It is proposed that the next face-to-face meeting of the GPNM be possibly at the next GNC project Steering Committee meeting. **ACTION: This needs to be considered for agreement by the SC.**

**Development of the project/GPNM web platform:** Based on recommendations from the Project mid-term review, the website needs to be upgraded to be made more functional and effectively contain all the project knowledge inputs. Currently, the website was set up with a minimal data set and on review by the Project Management Unit, in consultation with project component leaders and the GPNM Chair, it was agreed that the website should be upgraded in consideration of availability of funds in the budget. An updated proposal for the web portal upgrading was submitted by A. Bleeker.

**Support to Regional nutrient platforms:** The Secretariat wishes to proceed with continued support to the work of the Caribbean Nutrient Platform. C. Lewsey has indicated interest in supporting this effort. The GPNM SC is to formally consider whether this is acceptable and endorse him in this role as a GPNM contact point. It is also proposed that meetings of the regional platforms should be scheduled for October to November 2015 and February 2016. The GPNM should consider whether these times are appropriate.

**Holding of training workshops with the participation of IW Learn and GEF projects:** The GEF International Waters Conference (IWC8) presents opportunities for training; under Component C of the project, GETF is to deliver a training activity during IWC8. The GPNM SC is asked to consider other events that could be utilized for training activities.

**Establishment of a Community of Practice (based on US eXtension agricultural services):** There has been limited progress although this is linked to Component C. GPNM SC guidance will be needed in shaping the activity.

**Replication and upscaling - Guidelines, tools and data for nutrient impact analysis:** The component leaders (Component B, C and D) and the PMU will provide further status updates on this and will seek guidance from the GPNM as products become available.

## **Component B**

**Extension of financial agreement for component leader:** The UNEP agreement with IOC-UNESCO is being extended to March 2016 to facilitate the work that remains outstanding. This will include allocation of USD 49,500 that was requested by IOC-UNESCO to cover a short-fall in co-financing from UNESCO. The requested amount was approved at the last GNC Project Steering Committee held in March 2014.

**Training on nutrient source-impact modeling and analysis of nutrient reduction policies:** This is to take place during the IWC8. The GPNM is asked to consider the fact that there are a few other capacity building activities that are envisaged and that there is need to ensure that there is coherence among them, and agreement on a more clearly defined capacity building plan.

**Guidelines/user manuals for assessment:** This aspect is not well-defined. The component leaders will need to provide suggestions for GPNM consideration.

## **Component C**

**Integration of Component C Policy Tool Box (with Component B):** This is to be a training-demonstration-type activity and will be delivered at IWC8 (November 2015)<sup>1</sup>. As noted there will need to be rationalization between this activity and others across the components for coherence.

**Holding of 2-3 training sessions:** These were envisaged for the GEF IWC8 and other global, nutrient-relevant meetings. As noted previously, this will need to be set within the context of other training activities. The component leaders will need to guide and advise the GPNM. Training of extension professionals, farmers and other relevant stakeholders within the Lake Chilika basin in association with the Chilika Lake Development Authority is planned for July 2015. This training will focus on effectiveness of translating best management practices to users in a validation-type exercise using the toolbox.

## **Component D**

**Lessons drawn for replication and up-scaling:** This is anticipated to be in the form of a workshop to discuss the replication and upscaling strategy and lessons learned. The timing for the activity is February to March 2016. Again, the project component leaders need to advise and guide the GPNM

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<sup>1</sup> Based on word from UNDP, the IWC meeting will likely now be within the first quarter of 2016.

on detail and seek to harmonize within a capacity building plan. This will need to consider modalities for knowledge dissemination.

## Components E & F

**Exit Strategy development:** As per the recommendation from the project mid-term review an Exit Strategy for the project needs to be developed. The GPNM should start to consider elements for sustainability and continuance of the work from the project.

**Co-financing report:** **ACTION:** Project partners need to update levels of co-financing contributions from reporting at last Steering Committee meeting in March 2014.

## Budget matters

The overall project expenditure that includes reported expenditure and committed (status in UNEP's financial system) stands at USD 1,191,052. Based on the amount of the GEF grant this leaves a total of USD 527,130 in available uncommitted resources. This translated to some 31% of GEF resources remaining uncommitted.

The last SC meeting in March 2014 approved a further commitment of USD 49,500 to IOC-UNESCO to facilitate implementation due to non-availability of internal co-financing. Note previously, for consideration is the proposal to upgrade the GPNM Nutrient Challenge web portal through continued work by ECN (under Component A) for an estimated USD 66,500 (subject to final discussions between UNEP GPA and ECN).

Based on the report from the last PSC meeting (India, March 2014) there seems to have been a proposal for the hosting of 2 workshops associated with the demonstration initiative in Manila Bay on application of source impact modelling and BMPs for USD 30,000. It was not clear as to whether there was formal agreement on this proposal. For the project Terminal Evaluation USD 35,000 has been budgeted and must be set aside.

In consideration of the foregoing (excepting the \$30,000 for the Manila Bay activity), the available budget resources that need to be programmed over the remainder of the project to March 2016, mainly to support partnership work of GPNM under Component A is USD 376,130.

## Summary considerations for the GPNM:

- Regional Platforms; timing and hosting of regional meetings: Should consider representation and convening along sidelines of other meetings as practical
- Training and capacity building: Need to rationalize within a coherent programme
- Development of Communities of Practice (eXtension): this is not well-defined and ideas welcome. Component leaders to advise.
- Replication and upscaling strategies: Component leaders to advise. Ideas from GPNM welcome.
- Publications (Lessons learned series, Experience notes): There will be some keynote publications that need to be prepared. Inputs will be welcome. Component leaders to advise.

## Discussion points:

Roberts requested a copy of slides presented. **ACTION: Crosby and GPNM Sec to circulate the slides to the SC.**

Scholz noted that what was missing in the presentation was who are the peer groups, the customers for all this work; this link is weak. Need to think of a means to bridge the formal and informal processes associated with the project deliverables and outreach. **ACTION: Scholz offered to assist in designing this process.**

Vanderbeck advised that the remainder of resources should be used to build the sustainability aspects of the project outputs towards realizing the envisaged outcome. This has to be built around the practitioner needs. The GNC Project contributions were meant as foundational in laying the basis for moving the nutrient management agenda forward. She further noted that final decisions on project management proposals need to be referred to the GNC Project Steering Committee for approval.

## **Targeted research on the global N cycle: towards an International Nitrogen Management System (INMS); further discussion on governance arrangements**

**Dr Mark Sutton, Centre for Ecology & Hydrology, Edinburgh, UK**

*Narrative in Annex 5 and presentation slides in Annex 6.*

Dr Sutton opened the presentation by underscoring the partnerships under the INMS Project and noting the GPNM as a key partner. He advised that the partnership is expansive given the scope of the nitrogen management agenda. The International Nitrogen Initiative is one of the delivery partners for the CBD indicator related to nitrogen and the goal of the INMS is to attain a win-win situation in bridging the science to policy and decision-making objectives. He suggested that even the IPCC is not the best example of bridging the gap between science and policy needs. The Convention on Long-range Transboundary Air Pollution (LRTAP) seems to have forged a better nexus between science and policy. He however stressed that INMS is not a policy process in and of itself. The essence of INMS is to bring all elements into a seamless joined-up approach for nitrogen management, a framework within which many nutrient pollution issues may be addressed.

He added that the GEF Secretariat wanted to ensure that the project delivers on significant awareness and knowledge sharing. He provided an outline of the existing international frameworks of relevance to nitrogen management, noting that the INMS will support the implementation of activities under these various frameworks.

He provided an overview of the project development process but added that the process has been slow, and that to date, work has been supported by internal resources, as the contract (to develop the full-sized project 'FSP' document) between UNEP and CEH has been signed only recently. He summarized the status of the recent engagement activities with collaborators responsible for relevant

global/regional frameworks in shaping the project design/approach. Documentation from the BASF Fireside Chat held in March 2015 will feed into the INMS Project proposal; this will bring in a business perspective, something that the GEF has been advocating.

He outlined the upcoming process for engaging stakeholders in the mid-term with development of the full-sized project proposal and gave an overview of the next steps and timeline for completion of project development activities. It is proposed that the FSP will be submitted to the GEF Sec in the summer of 2015 and launched at the 8<sup>th</sup> International Waters Conference. He also noted a series of key meetings over 2016 within which the INMS Project will be promoted.

#### **Discussion points:**

Scholz asked how will other initiatives such as those on phosphorous be aligned to this project and what of the case of an integrated nutrient management agenda? What role should the GPNM take up in the project related to this view? Response - Sutton: noted that it is defined in the initial project concept (Project Identification Form; PIF) that it is a nitrogen initiative, however it takes on an ecosystems approach with respect to the scope of issues that are to be dealt with. Nitrogen management is a common theme that will allow for integration of nutrient management, which will provide useful lessons for other nutrient management networks. Sutton further added that we need to be reasonable in terms of what can be done and is feasible in terms of resource availability, although not forgetting the longer-term view as pertains to nutrients management.

Sweeney contributed Passenier's (in absentia) key comments on the relationship between the GPNM and INMS transmitted via email as follows:

- *Suggest the definition of a role of GPNM in the advisory board (instead of the Steering Committee)*
- *Recommend that the GPNM logo be on the list of supporters of INMS*
- *Advise that the open discussion to be organized in Lisbon promote commitment and ownership of the network which makes INMS a success*

Crosby expressed appreciation of the efforts to get the Lisbon meeting organized and thanked Arnoud for his comments and Mark's overview. He asked what will be the type of outcome from the project that will give lasting effects? Response – Sutton: The GEF-GNC Project will provide the demonstrated durability of the GPNM while the INMS will show how the evidence streams will come together. Long-term integration needs to happen concurrently with the execution of the project. This integration will have to be rooted in an appropriate policy environment that is supported by comprehensive high visibility – it is critical that the world press is engaged. He added that the GEF-Sec does not like emphasis placed only on 'assessments' but rather on the concept of mutual learning. It will have to be figured out how the GPNM communications strategy can make this link.

Koo-Oshima stated that what seems lacking is the local-level water and air modelling work (e.g. contributions to recreational water assessments). She felt that it is important that we go to the local level. She further added that there are many other partners that seems to be left out. The LRTAP is a

global air framework that misses many stakeholders. Response – Sutton agreed that there is need to go to the local level scale and that this is where regional demonstration initiatives come in. It is a multi-layered step-wise process and the project will try to get as many local level stakeholders involved.

Vanderbeck advised that the project is funded under the GEF-IW portfolio so by necessity will have a water-land focus; hence should not be worried that this process is going significantly to atmospheric dimensions. Response - Koo-Oshima reiterated that we need to keep in mind the water sector. It is also important to be mindful of clashing schedules for stakeholder groups in ensuring participation.

Vanderbeck noted that the meeting in Lisbon will be the most important in the design of the project and that the GPNM Chair will need to come with inputs from all the GPNM members. Out of the meeting there will be a series of inputs and recommendations. She encouraged all GPNM members to convey views/inputs to the GPNM Chair. Crosby advised that the meeting will need to offer the option for remote participation.

Scholz noted that he has not heard mention of considerations such as payment for environmental services, externalities, trade-offs, etc. in the project design; how might this incorporated? Response – Sutton: Some of this is under consideration in the project design; this is of interest to policy makers. Scholz suggested looking at linkages with the other nutrient initiatives.

## GPNM Task Team updates on work progress

### 1. Policy Task Team

**Dr. Sasha Koo-Oshima, Senior International Water Policy Advisor, Office of Water, Environmental Protection Agency (EPA)**

Dr. Koo-Oshima stated that she will provide representation for the GPNM at the upcoming World Water Forum (WWF) to be held in South Korea. The US-EPA will be chairing a couple technical sessions on BMPs related to watershed management in partnership with the GPA (under the wastewater management portfolio) and the Korea Environmental Institute. The GPNM Secretariat has prepared a Prezi presentation and has printed material available that will be disseminated at the exhibition pavilion and other events. She reported that the EPA has compiled data on the cost of nutrient pollution in the US which is estimated at US\$210 billion in damages per year; this fact can be used to steer actions which can then be used as the basis for the GPNM's workplan.

In terms of drafting of a UNEA resolution she stressed that if targets are to be integrated, it has to be implementable by countries. **ACTION:** GPNM members are requested to provide suggestions on foundations for the resolution.

Heffer stated that the International Fertilizer Industry Association, in its capacity as a GPNM member, has been engaged with the Sustainable Development Solutions Network (SDSN) in the articulation of goals and targets toward the promulgation of the post-2015 Sustainable Development Goals (SDGs). In

this regard a one-day meeting co-hosted by the IFA and SDSN was held in Paris, on January 15<sup>th</sup>. Of focus in the discussions was crop nutrient use efficiency and losses of N and P to the environment. Heffer contributed a 'Main Outcomes' document of the meeting, attached in Annex 7.

Crosby thanked Patrick for the intervention but suggested that a number of US government officials seemed to be of the opinion that the SDDN is yet another group of many contributing ideas and queried as to how it all might come to common consensus. Response - Heffer: The SDSN plays a central role to the SDG development process as he understands, although there is a notion that the SDSN many not have a great level of influence within the country negotiation processes. He added that there appears to be emerging consensus amongst all on advancing common positions.

[Refer to the summary table under 'Review of the minutes of the 3<sup>rd</sup> Steering Committee meeting' for additional information]

## **2. Nutrient Use Efficiency Task Team**

**Dr. Terry L. Roberts, International Plant Nutrition Institute (IPNI)**

Dr Roberts stated that the nutrient use efficiency position paper was not ready for the IFA-SDSN meeting and that it has been since revised. There were additional persons who gave feedback beyond the task team. There have been other comments coming in recently from other members. He noted that the GPNM needs to finalize this as far as publication, although not sure whether this should be a public document. There is need to consider where this goes next.

Crosby asked what form should this document take and whether the GPNM should adopt the document via 'consensus by default'. Roberts suggested that the paper is more of a science document and will need to be reformatted for use by other audiences. Heffer stated from his standpoint to consider the paper as endorsed. He agreed that there is need for a policy brief to be derived from the document.

The meeting agreed that the NUE paper should be translated to a policy piece along with suggestions on policy positions. **ACTION: the Chair and GPNM Secretariat will offer options for publication and reformulation to a policy brief.** Roberts urged that all GPNM members who have not done so, endorse the paper or provide responses noting their comments. **ACTION: the Chair will seek a final round of comments on the paper facilitated by the Secretariat.**

## **3. Partnership Task Team**

**Dr. Greg Crosby, National Program Leader, Sustainable Development, USDA National Institute of Food and Agriculture**

Dr Crosby noted that the process to engage additional partners is ongoing with the assistance of the Secretariat and has been engaged in discussions. Draft solicitation letters have been prepared and an expanded list of potential partners has been compiled by the Secretariat.

[Refer to the summary table under 'Review of the minutes of the 3<sup>rd</sup> Steering Committee meeting' for additional information]

#### 4. Toolbox Task Team

No inputs solicited from this task team for the meeting.

#### 5. Phosphorus Task Team

Sweeney contributed Passenier's input (in absentia), sent via email as follows:

*Passenier plans to host a telcon with persons who have shown interest in participating on the Task Team; they include Prem Bindran, William Brownlie, Sasha Koo-Oshima/Betsy Otto, Roland Scholz, Dana Cordell/Tina Schmidt Neset, Terry Roberts and Fusuo Zhang. He indicated that its convening has been delayed due to the fact that he had been busy with the hosting of the European Sustainable Phosphorus Conference that was held in Berlin between the 5<sup>th</sup> and 6<sup>th</sup> March. He advised that he will forward the Scope-European Sustainable Phosphorus Platform newsletter with the conference minutes.*

**ACTION:** Crosby advised that the GPNM Secretariat will prepare letters inviting these partners to serve on the task team. He however noted that one needs to be mindful of expectations of these stakeholders. Scholz advised with respect to stakeholder engagement it is necessary to understand the landscape and to determine what part of the supply chain for which we need representation. **ACTION:** Scholz requested to prepare a roadmap of actions along a strategic/system value chain approach.

#### 6. Communications Task Team

Cox gave a brief overview of progress made on support to the work of the task team with respect to the agencies that have been invited to participate, and some of the outreach products that have been developed. Refer to the summary table under 'Review of the minutes of the 3rd Steering Committee meeting' for additional information.

### Any other business

#### Hosting of the next GEF-GNC Project Steering Committee, combined with GPNM's next meeting

Cox advised that there have been prior 'informal' suggestions on possible locations for the next project steering committee meeting. Options included India or perhaps the Philippines in consideration of the possibility of visiting the project sites. Vanderbeck recommended the project should have a closing event which should be conceived as a broader stakeholder engagement event. It may be convened just after the completion of implementation of the project activities.

**ACTION:** Crosby to discuss the matter of venue further with the Secretariat and Isabelle Vanderbeck.

**ACTION:** The GPNM Secretariat to issue a Doodle poll to block out a likely time window for the convening of the next Steering Committee meeting.

Sweeney advised that this will have to be after July, as UNEP will be transitioning over to a new financial management system from mid-May into June and it will be difficult to organize before then.

## Closing remarks

Dr Crosby thanked the members for their time and declared the meeting closed.

## Summary action list

	Decision for action	Lead responsibility	Timeframe
	<b>GEF-GNC Project</b>		
1	Project partners to provide update on co-financing contributions to GNC Project since March 2014	GNC Project (GPNM) Partners	
2	Circulate meeting presentation slides to the steering committee	GPNM Secretariat	Immediately
3	Design a proposal for linking the formal and informal processes for delivering the project outputs to relevant audiences	R. Scholz	
4	Discuss venue for next Project steering committee meeting	G. Crosby, I. Vanderbeck, GPNM Secretariat	
5	Issue a Doodle poll to block out a likely time window for the convening of the next Steering Committee meeting	GPNM Secretariat	Immediately
	<b>Task Team support</b>		
6	<b>Policy:</b> Resolution preparation for the next UNEA. GPNM members are to provide suggestions on foundations for the resolution	S. Koo-Oshima; supported by A. Passenier	
7	<b>NUE:</b> Convert the NUE paper to a policy brief	G Crosby, T Roberts, GPNM Secretariat	
8	<b>NUE:</b> GPNM members to submit final round of endorsements of the NUE paper.	G Crosby, GPNM Secretariat to solicit	Immediately
9	<b>Partnership:</b> Liaise with UNEP Caribbean Regional Coordinating Unit regarding the decision and next steps to engage Dr. Lewsey within the Caribbean Nutrient Platform	G Crosby, GPNM Secretariat	Immediately
10	<b>Phosphorus:</b> Prepare letters inviting these partners to serve on the task team	GPNM Secretariat	Immediately
11	<b>Phosphorus:</b> Prepare a roadmap of actions along a strategic/system value chain approach	R. Scholz	

## Annex 1



### UNITED NATIONS ENVIRONMENT PROGRAMME

Programme des Nations Unies pour l'environnement    Programa de las Naciones Unidas para el Medio Ambiente  
Программа Организации Объединенных Наций по окружающей среде    برنامج الأمم المتحدة للبيئة

联合国环境规划署



## Provisional Agenda

### Global Partnership on Nutrient Management (GPNM) 4<sup>th</sup> Steering Committee meeting

Date: 1st April 2015

Venue: via teleconference

Time (EST)	Topic/Item	Presenter
8:00 – 8:10	Opening and welcoming remarks	GPNM Chair
8:10 – 8:30	Review of the Minutes from the Dec 2014 SC Meeting	GPNM Chair
8:30 – 9:00	Summary of 2015 GPNM Workplan implementation (incl. GNC Project)	Secretariat
9:00 – 9:45	Presentation of the work of Task Teams (5 minutes each)	
	• Policy	Sasha Koo-Oshima
	• Nutrient Use Efficiency	Terry Roberts
	• Partnerships	Secretariat / Greg Crosby
	• Toolbox	Ajit Pattnaik
	• Phosphorus	Arnoud Passenier
	• Communications	Albert Bleeker
	Discussion	
9:45 – 10:45	Brief presentation on status of INMS project development and GPNM interface/involvement; followed by discussion	Mark Sutton & Isabelle Vanderbeck
10:45-11:00	Next steps	GPNM Chair & Secretariat
	• Summary of actions/decisions	
	• Date / venue next face to face SC Meeting	
	• Date / venue next GNC PSC Meeting	
	• Establishment of Nominating Committee for GPNM Chair and process for succession	
	Any other business	GPNM Chair
	Closing remarks	GPNM Chair

## Annex 2 Meeting Participants

<b>Title</b>	<b>Surname</b>	<b>Other names</b>	<b>Designation</b>	<b>Organization</b>	<b>Telephone</b>	<b>E-mail</b>
Dr.	<b>COX</b>	Christopher	Programme Officer	UNEP/GPA	2547625276	Christopher.cox@unep.org
Dr.	<b>CROSBY</b>	Greg	National Program Leader	National Institute of Food and Agriculture, USDA	202 445-3459 (cell) 202 401-6050 (office)	GCROSBY@nifa.usda.gov
Mr.	<b>HEFFER</b>	Patrick	Senior Director, Agriculture Service	IFA		pheffer@fertilizer.org
Dr.	<b>Koo-OSHIMA</b>	Sasha	Senior International Water Policy Advisor	Office of Water, Environmental Protection Agency (EPA)		Koo-Oshima.Sasha@epa.gov
Dr.	<b>LU</b>	Yuelai	Head of the Secretariat	UK-China Sustainable Agricultural Innovation Network	+44 (0)1603 59 3264	y.lu@uea.ac.uk
Dr.	<b>ROBERTS</b>	Terry	President	IPNI	+1 770-447-0335	TRoberts@ipni.net
Prof.	<b>SCHOLZ</b>	Roland	Project Leader	Global Traps/University of Zürich	+41 79 422 44 01	roland.scholz@igb-extern.fraunhofer.de
Dr.	<b>SUTTON</b>	Mark	Environmental Physicist	Centre for Ecology & Hydrology	+44 131 445 4343	ms@ceh.ac.uk
Mr.	<b>SWEENEY</b>	Vincent	Coordinator	UNEP/GPA	2547625722	vincent.sweeney@unep.org
Ms.	<b>VAN DER BECK</b>	Isabelle	GEF IW Task Manager	UNEP		isabelle.vanderbeck@unep.org

## Annex 3

**Global foundations for reducing nutrient enrichment and oxygen depletion from land based pollution, in support of Global Nutrient Cycle (UNEP/GEF Global Nutrient Cycle Project)**

Project No.: ADDIS #00593 (GEF ID#4212)

**Status and Workplan**  
(focus on active and pending activities)

Prepared by the Project Management Unit, GPA Coordinating Office

March 2015

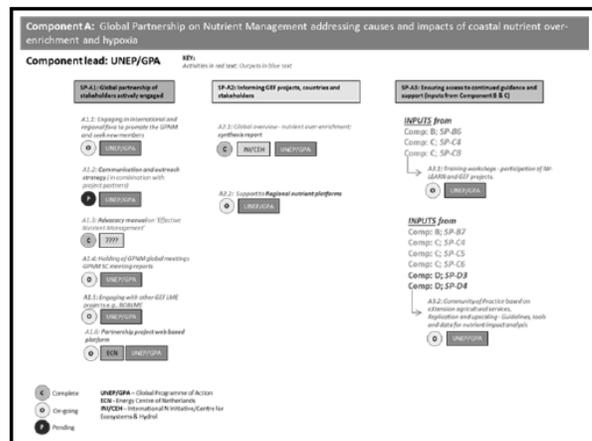


## Component A

- **SP-A1: Global partnership of stakeholders actively engaged in addressing nutrient over-enrichment in coastal waters**
  - **A1.1: Engaging in international and regional fora to promote the GPNM /seek new members**
    - On-going: presence at World Water Forum; special 'advocacy' presentation developed & promotional printed resources being prepared
    - Key countries to be re-engaged; a priority review underway
    - New members being brought on-board through the Communications Task Team
  - **A1.2: Developing a communication and outreach strategy**
    - Draft Comms Strategy developed. Comms Task Team to review to finalize
    - Special advocacy presentation developed - **TO BE AGREED BY GPNM SC**
  - **A1.3: Publishing and disseminating an advocacy manual on 'Effective Nutrient Management'**
    - **COMPLETE**
  - **A1.4: Holding of GPNM global meetings**
    - **FOR GPNM SC CONSIDERATION** – Proposed at next face-to-face meeting; possibly GNC project Steering Committee meeting. Date and venue TBD
  - **A1.5: Engaging with other GEF LME projects e.g., BOBLME**
    - Under consideration; no significant progress. This will be via the Regional Platforms
  - **A1.6: Developing and maintaining a separate partnership and project web based platform to present and project outcomes**
    - Updated proposal for the web portal submitted by A. Bleeker. **FOR GPNM SC CONSIDERATION: Scope of work – expansion of the existing contract with ECN**

## Component A

- **SP-A2: Informing GEF projects, countries and stakeholders about the importance of nutrient over-enrichment and hypoxia, including economic and environmental costs**
  - **A2.2: Support to Regional nutrient platforms (not an itemized task in project doc)**
    - Draft TOR developed to facilitate operationalization of the Caribbean Platform. In communication with UNEP Caribbean Regional Seas
    - **FOR GPNM SC CONSIDERATION (Caribbean Platform):** designation of NOAA (C. Lewsey as GPNM contact point)
    - **FOR GPNM SC CONSIDERATION:** Timing of Platform meetings; October to November 2015 and February 2016
- **SP-A3: Ensuring access to continued guidance and support for the development of nutrient reduction strategies (this will be implemented with inputs from Component B & C)**
  - **A3.1: Holding of training workshops with the participation of IW Learn and GEF projects.**
    - The IWCS presents opportunities; Planning for such training under Comp C at upcoming IWCS.
    - **FOR GPNM SC CONSIDERATION:** Other events that could be utilized
  - **A3.2: Establishment of a Community of Practice based on eXtension agricultural services**
    - Limited progress although this is linked to Comp C. **GPNM SC GUIDANCE NEEDED**
  - **Replication and upscaling - Guidelines, tools and data for nutrient impact analysis - FROM COMPS B, C**
    - Linked to Comps B, C and D. **GPNM SC GUIDANCE NEEDED** as products become available.

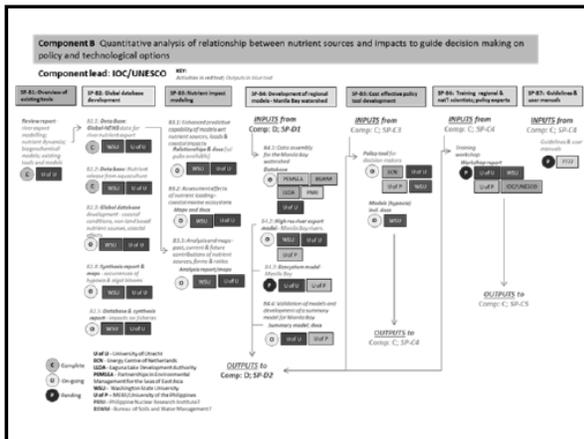


## Component B

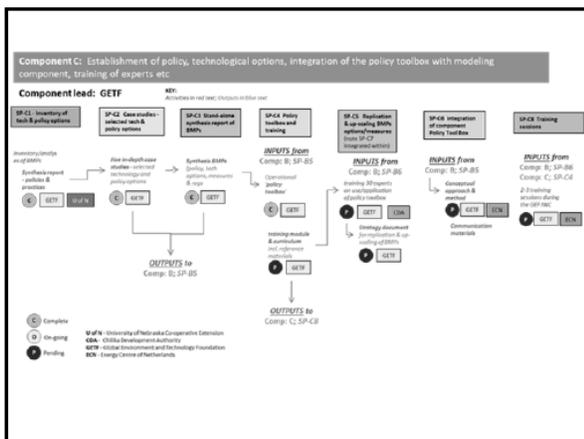
- **SP-B2: Global database development with documentation of data on nutrient loading and occurrence of harmful algal blooms, hypoxia, and effects on fish landings, fish abundance, and composition of fish populations.**
  - **B2.2: Data base: Nutrient release from aquaculture**
  - **B2.3: Global database development with data on coastal conditions, non-land based nutrient sources, as well as coastal effects**
  - **B2.4: Synthesis report and maps on occurrences of hypoxia and harmful algal blooms**
  - **B2.5: Synthesis report "impacts on fisheries" based on data and model output from regions - develop relationships between fishery production and potential controlling variables and hypoxia**
    - All activities are ongoing – to be completed by September 2015
    - UNEP agreement being extended to March 2016. This will include the agreed US\$49,500 requested amount that was approved at last SC to account for co-financing shortfall

## Component B

- **SP-B3: Nutrient impact modeling for global and local to regional nutrient source impact analysis**
  - **B3.2: Assessment of effects of nutrient loading in coastal marine ecosystems**
  - **B3.3: Analysis and maps of past, current and future contributions of different nutrient sources, forms and ratios in watersheds to coastal effects.**
    - All activities are ongoing – to be completed by September 2015
- **SP-B4: Development of regional models for the Manila Bay watershed of coastal effects**
  - **B4.1: Data assembly for the Manila Bay watershed**
    - Database available – April 2015
  - **B4.2: High resolution river export model for Manila Bay rivers.**
    - Completed by July 2015
  - **B4.3: Ecosystem model for Manila Bay**
    - Completed by September 2015
  - **B4.4: Validation of models and development of a summary model for Manila Bay**
    - Planned – August to October 2015
- **SP-B5: Contribution of component B modeling and analysis outcomes to policy tool development (component C)**
  - Completed by September 2015
- **SP-B6: Regional, national scientists, policy experts, trained in using nutrient source-impact modeling, analyzing nutrient reduction policies.**
  - Training - preliminary scheduled for IWCS VN late 2015; **NEED FURTHER CONSIDERATION BY GPNM ON FORMAT OF TRAINING; NOTE: THERE ARE OVERLAPPING CAPACITY BUILDING ACTIVITIES. NEED TO RATIONALIZE**
- **SP-B7: Nutrient source-impact guidelines and user manuals for integrated eutrophication assessment and nutrient criteria development**
  - Not well defined; **FOR GPNM CONSIDERATION**

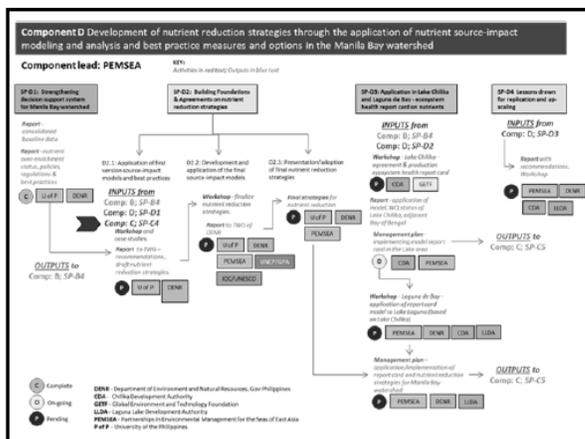


- ## Component C
- SP-C4 Production of a fully operational 'policy toolbox' and delivery of the training.
    - draft BMP toolbox, synthesis online, 25 cases available. Basis for training at Lake Chilika. Planned training activity for May or June 2015
  - SP-C5 Replication and up-scaling of BMPs, measures etc. through training workshops; up-scaling strategy
    - Based on WRI visit to Manila Bay and the Chilika training, this will be completed shortly thereafter.
  - SP-C6 integration of component Policy Tool Box with Component B (training-demonstration-type activity)
    - To be delivered at IWCB - November 2015. FOR GPNNM CONSIDERATION - Need to consider consolidation of training activities across components
  - SP-C8 Holding of 2-3 training session during the GEF International Waters Conference and other global meetings of nutrient relevance
    - To be completed at the IWC - Oct/Nov 2015. FOR GPNNM CONSIDERATION - Need to consider consolidation of training activities across components



- ## Component D
- SP-D1: Strengthening decision support system for Manila Bay watershed
    - Completion - State of the Coasts reports of the Provinces of Bataan, Cavite and Pampanga - stakeholders consultation and validation; Technical review; Publication and dissemination. Completed by October 2015
    - Completion of updating of Manila Bay Environmental Atlas - Technical review; Interagency consultation; Publication and dissemination. Completed by December 2015
  - SP-D2: Building the Foundations and Agreement on nutrient reduction strategies for Manila Bay
    - D2.1: Building the foundations for the nutrient reduction strategies: application of first version source-impact models and best practices
      - Finalize updated report on Total Pollutant Loading Study - Laguna de Bay-Pasig River-Manila Bay Watershed; Determination of allowable pollutant discharge and testing of model scenarios for other management interventions - Completed by August 2015
      - Finalization of the Manila Bay clean-up strategies, policy analysis and case studies. Completed by December 2015
    - D2.2: Development and application of the final source-impact models for Manila Bay in developing nutrient reduction strategies
      - Modeler's workshop on TPL and ecosystem modeling in Manila Bay watershed; development of nutrient reduction strategy and investment plan; stakeholders workshop on nutrient reduction strategy. Completed by February 2016
    - D2.3 - presentation and adoption of final nutrient reduction strategies integrated with broader water quality objectives for region
      - Policy forum/stakeholders consultation on nutrient management strategy. February 2016

- ## Component D
- SP-D3 - Application of ecosystem health report card in Lake Chilika and Laguna de Bay
    - Workshop - Lake Chilika - agreement on/production of ecosystem health report card; application of model and overall water quality status of Lake Chilika and adjacent Bay of Bengal. Link to component C
    - Workshop - Laguna de Bay - consider and facilitate application of report card model. Process: April to August 2015
    - Management plan for application/implementation of report card; incorporation into nutrient reduction strategies for Manila Bay watershed. October 2015
  - SP-D4 Lessons drawn for replication and up-scaling
    - Workshop to discuss the replication and upscaling strategy and lessons learned. February to March 2016. GPNNM TO CONSIDER COORDINATED APPROACH FOR WORKSHOPS ON KNOWLEDGE DISSEMINATION AS WITH OTHER COMPONENTS



## Components E&F

- Exit strategy – **GPNM to start considering elements for sustainability**
- Co-financing report – **Partners will need to update from reporting at last Steering Committee meeting.**

## Budget

- Project expenditure (reported and committed): **US\$1,191,052**
- Available uncommitted resources: **US\$527,130**
  - 31% of GEF committed resources uncommitted
- Last **SC approved further commitment of US\$49,500 to IOC-UNESCO** to facilitate implementation due to non-availability of internal co-financing
- Proposal to extend the GPNM Nutrient Challenge web portal; continued work by ECN (Comp A). **To be considered by the GPNM**
  - Estimated - **US\$66,500** (subject to final discussions)
- **To verify decision** regarding 2 workshops in Manila Bay on application of source impact modelling and BMPs: **US\$30,000**
  - From last PSC meeting (India, March 2014)
- Final evaluation: **US\$35,000**

## Budget

- To be programmed to March 2016: work of the Partnership particularly under Component A: **US\$346,130**
- **FOR CONSIDERATION BY GPNM**
  - Regional Platforms: regional meetings
  - Training and capacity building
    - Communities of Practice; eXtension
    - Replication and upscaling strategies
  - Publications
    - Summary of knowledge products, achievements, work in progress; and eventual goals ('glossy' format)
    - Lessons learnt series; Experience notes
  - Other ideas?

# Global foundations for reducing nutrient enrichment and oxygen depletion from land based pollution, in support of Global Nutrient Cycle (GNC Project)

Project No.: ADDIS #00593 (GEF ID#4212)

## Revised Workplan

Prepared by the Project Management Unit

March 2015



## GNC Project revised work plan - (March 2015)

Key:

preparation and document delivery  
training prep and training event  
preparation and meeting


Component/Activities (all reporting in red text)	Status - March 2015	Lead responsibility (and co-support)	Implementation schedule to project closure														
			2015												2016		
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
<b>Component A – Global Partnership on Nutrient Management addressing causes and impacts of coastal nutrient over-enrichment and hypoxia</b>																	
<b>SP-A1:</b> Global partnership of stakeholders actively engaged in addressing nutrient over-enrichment in coastal waters																	
<b>A1.1:</b> Engaging in international and regional fora to promote the GPNM and seek new members	ON-GOING	UNEP/GPA - GPNM															
<b>A1.2:</b> Developing a <b>communication and outreach strategy</b> – in combination with project partners	ON-GOING	UNEP/GPA - GPNM															
<b>A1.3:</b> Publishing and disseminating an <b>advocacy manual</b> on 'Effective Nutrient Management'	COMPLETE	UNEP/GPA - GPNM															
<b>A1.4:</b> Holding of GPNM global meetings	ON-GOING	UNEP/GPA - GPNM						face to face; GNC									
<b>A1.5:</b> Engaging with other GEF LME projects e.g., BOBLME	ON-GOING	UNEP/GPA - GPNM															
<b>A1.6:</b> Developing and maintaining a separate partnership and <b>project web based platform</b> to present and project outcomes	ON-GOING - site up and running; to bring in the full user functionality, to include BMPs, toolkits, etc	UNEP/GPA - GPNM - ECN											???				
<b>SP-A2:</b> Informing GEF projects, countries and stakeholders about the importance of nutrient over-enrichment and hypoxia, including economic and environmental costs																	
<b>A2.1:</b> Global overview of nutrient over-enrichment; <b>synthesis report</b>	COMPLETE - Our Nutrient World	UNEP/GPA - GPNM															
<b>A2.2:</b> Support to Regional nutrient platforms ( <b>not an itemized task in project doc</b> )	ON-GOING; Active proposals and discussions underway. Seeking funding support for regional dialogues	UNEP/GPA - GPNM	need to discuss with partners timing for support meetings										???	???			???
<b>SP-A3:</b> Ensuring access to continued guidance and support for the development of nutrient reduction strategies (this will be implemented with inputs from Component B & C)																	
<b>A3.1:</b> Holding of <b>training workshops</b> with the participation of IW Learn and GEF	ON-GOING: have been participation at 2 past GEF-IW confs and other	UNEP/GPA - GPNM	Further consideration by GPNM										IWC 8				

Component/Activities (all reporting in red text)	Status - March 2015	Lead responsibility (and co-support)	Implementation schedule to project closure														
			2015												2016		
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
projects.	planned																
<b>A3.2:</b> Establishment of a <b>Community of Practice</b> based on eXtension agricultural services	<b>ON-GOING:</b> 80% complete. GPNM need to consider further opportunities	UNEP/GPA - GPNM												IWC 8			???
Replication and upscaling - <b>Guidelines, tools and data</b> for nutrient impact analysis - <b>FROM COMPS B, C</b>	<b>PENDING:</b> GPNM to consider this integration and upscaling and resource dissemination. Need to determine <b>actions needed.</b>	UNEP/GPA - GPNM												IWC 8			???

### Component B: Quantitative analysis of relationship between nutrient sources and impacts to guide decision making on policy and technological options

**SP-B1:** Overview of existing tools for source-impact analysis of nutrients in LMEs and their target audiences

<b>Review report</b>	<b>COMPLETE:</b> Unpublished report	University of Utrecht															
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**SP-B2:** Global database development with documentation of data on nutrient loading and occurrence of harmful algal blooms, hypoxia, and effects on fish landings, fish abundance, and composition of fish populations.

<b>B2.1:</b> <b>Data Base: Global-NEWS data</b> for river nutrient export	<b>COMPLETE</b>																
<b>B2.2:</b> <b>Data base:</b> Nutrient release from aquaculture	<b>ON-GOING:</b> several publications available; publication on spatial allocation marine aquaculture to be completed	University of Utrecht															
<b>B2.3:</b> <b>Global database development</b> with data on coastal conditions, non-land based nutrient sources, as well as coastal effects collected from existing sources.	<b>ON-GOING:</b> Coastal conditions and coastal effects, is in progress and will be completed 2015	Washington State University															
<b>B2.4:</b> <b>Synthesis report and maps</b> on occurrences of hypoxia and harmful algal blooms based on work of Diaz and Rosenberg's work on hypoxia, the SCOR-LOICZ work group for harmful algal blooms, and <b>additional IOC databases</b> , such as HAEDAT	<b>ON-GOING:</b> noted deliverables in 2015	University of Utrecht and Washington State University, with support of IOC/UNESCO															
<b>B2.5:</b> <b>Synthesis report</b> "impacts on fisheries" based on data and model output from regions where Ecopath and EcoSim models have been run to develop relationships between fishery production and potential controlling	<b>ON-GOING:</b> 30% complete; will require quite a bit of additional time, energy, and work before we can include a database and documentation that is of much use.	Washington State University															

Component/Activities (all reporting in red text)	Status - March 2015	Lead responsibility (and co-support)	Implementation schedule to project closure															
			2015												2016			
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
variables such as nutrient inputs and hypoxia <b>TO INCLUDE DATABASE AND DOCUMENTATION</b>																		
<b>SP-B3:</b> Nutrient impact modeling for global and local to regional nutrient source impact analysis																		
<b>B3.1:</b> Enhanced predictive capability of models with respect to nutrient sources, loads, and coastal impacts - <b>deliverables: Relationships and documentation</b>	<b>COMPLETE:</b> (Publications available; global, seasonal version of the NEWS-DIN model constitutes a significant enhancement of NEWS. There is additional ongoing work here, but complete for the purposes of this project)	University of Utrecht, and Washington State University																
<b>B3.2:</b> Assessment of effects of nutrient loading in coastal marine ecosystems; <b>deliverables: Maps and documentation</b>	<b>ON-GOING:</b> 30% complete; Dan Reed is making good progress with the hypoxia portion of this task.	University of Utrecht and Washington State University																
<b>B3.3:</b> Analysis and maps of past, current and future contributions of different nutrient sources, forms and ratios in watersheds to coastal effects. <b>Deliverable; analysis report</b>	<b>ON-GOING:</b> WSU: still on-going, can provide additional maps of nutrient sources, based on NEWS output.	University of Utrecht and Washington State University																
<b>SP-B4:</b> Development of regional models for the Manila Bay watershed of coastal effects																		
<b>B4.1:</b> Data assembly for the Manila Bay watershed; <b>deliverable - database</b>	<b>ON-GOING:</b> database covering the watersheds discharging to Manila Bay; will be updated to include results from concluded studies from partner agencies (BSWM, PNRI, PEMSEA) and nutrient data from earlier draft database will be updated (PEMSEA).	University of Philippines, working through the Information Management Information System of the Manila Bay Coastal Strategy					data base											
<b>B4.2:</b> High resolution <b>river export model</b> for Manila Bay rivers.	<b>ON-GOING:</b> preliminary nutrient load model completed; Currently an updating of data and maps needed for improvement of nutrient load model and processing of inputs in a finer resolution grid. Addition of agricultural and aquaculture component to model is in progress as is an update for export of other N forms as input to DELFT3D. Initial	University of Philippines, Washington State University, and University of Utrecht							Revision and checking of model	Results of run on finer grids								

Component/Activities (all reporting in red text)	Status - March 2015	Lead responsibility (and co-support)	Implementation schedule to project closure															
			2015												2016			
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
	results of model runs can be posted as well as updated results including agriculture and aquaculture nutrient loads.																	
<b>B4.3: Ecosystem model</b> for Manila Bay (showing dynamics of formation of hypoxia and eutrophication)	<b>ON-GOING:</b> 2D model has been set up, work on 3D model in progress. DELFT3D WAQ for B4.3 to complement the hydrodynamic and water quality models. Review of related literature for model parameters (local values, emission rates, etc) half completed as is the setup of grid system and boundary conditions	University of Philippines, University of Utrecht																
<b>B4.4: Validation of models</b> and development of a <b>summary model</b> for Manila Bay including documentation	<b>ON-GOING:</b> Testing and application (UP), the scenario building - half completed. Planned working visit of UP to UU for April or May 2015. Publications available.	University of Philippines, University of Utrecht																
<b>SP-B5:</b> Contribution of component B modeling and analysis outcomes to cost effective policy tool development under component C																		
<b>Models, summary models, including documentation</b>	<b>ON-GOING:</b> WSU-UU-UP have initiated conversation with Bleeker about the development of a tool and provided a draft version of the necessary input data to formulate an on-line tool. Albert has mocked this up. Hypoxia modeling is prceeding well and is primary focus of ongoing work at WSU.	Washington State University and Utrecht University																
<b>SP-B6:</b> Regional and national scientists and policy experts, particularly from developing countries, trained in using nutrient source-impact modeling, including in its use to analyze a range of nutrient reduction policies.																		
<b>Training workshop and report</b>	<b>PENDING:</b> Preliminary scheduled for IWC8 VN late 2015	Washington State University, University of Utrecht, and University of Philippines, with support of IOC/UNESCO																

Component/Activities (all reporting in red text)	Status - March 2015	Lead responsibility (and co-support)	Implementation schedule to project closure														
			2015												2016		
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
<b>SP-B7:</b> Nutrient source-impact guidelines and user manuals for integrated eutrophication assessment and nutrient criteria development																	
<b>Guidelines and manuals</b>	<b>PENDING:</b> No substantive updates on this activity; for consideration by the GPNM	Washington State University, University of Utrecht, University of Philippines, and with support of IOC/UNESCO and UNEP/GPA															

**Component C: Establishment of policy, technological options, integration of the policy toolbox with modeling component, training of experts etc**

<b>SP-C1</b> - Update and finalization of the <b>comprehensive inventory of technological and policy options</b> to reduce nutrient over-enrichment, with a synthesis of report of policies and practices including recommended priority actions based on the analyses of the best management inventory in final print layout.	<b>COMPLETE:</b> could possibly include additional policy options	GETF/University of Nebraska Co-operative Extension															
<b>SP-C2</b> <b>Five in-depth case studies</b> of selected technology and policy options for nutrient over-enrichment reduction from various regions of the world based on well-defined criteria ready for publication and dissemination	<b>COMPLETE:</b> hosted on <a href="http://www.nutrientchallenge.org/toolbox/">http://www.nutrientchallenge.org/toolbox/</a>	GETF															
<b>SP-C3</b> Production of a <b>stand-alone synthesis report of best management practices</b> ( i.e., policy, technological options, measures and regulations) covering the various regions of the world ready for publication and dissemination	<b>COMPLETE</b>	GETF/Water Stewardship Inc															
<b>SP-C4</b> Production of a fully operational ' <b>policy toolbox</b> ' outlining the main messages and fully developed training module and curriculum with relevant reference materials, and defined core steps on the use the inventory and the	<b>COMPLETE</b> - draft BMP toolbox online, a draft synthesis online, inclusion of 25 cases online, an integrative approach/calculation tool online; Chilika Lake training in planning	GETF			Chilika tech exch & train												

Component/Activities (all reporting in red text)	Status - March 2015	Lead responsibility (and co-support)	Implementation schedule to project closure																	
			2015												2016					
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar			
global toolbox and <b>delivery of the training.</b>					ing															
<b>SP-C5</b> Replication and up-scaling of best practice options, measures etc. through training workshops in project priority regions (to be selected in consultation with the PM) - deliverable: <b>Replication and up-scaling strategy</b>	<b>ON-GOING:</b> Based on WRI visit to Manila Bay and the Chilika training, this will be completed shortly thereafter.	GETF	<b>TIMELINE TO BE ESTIMATED</b>																	
<b>SP-C6</b> integration of component Policy Tool Box with Component B source-impact modeling; <b>deliverables: conceptual approach and method, along with communication materials</b>	<b>PENDING:</b> To be delivered at IWC8 - November 2015	Energy Centre of Netherlands											final training IWC 8							
<b>SP-C7</b> A strategy document for replication and up-scaling of the best management practices i.e., knowledge sharing and training of at least 30 experts from key countries on the use/application of the policy toolbox and how it can be applied, including in relation to the source-impact analysis	COMBINED WITH SP-C5																			
<b>SP-C8</b> Holding of 2-3 <b>training session</b> during the GEF International Waters Conference and other global meetings of nutrient relevance (to be decided in consultation with the PM) and production of <b>training/workshop reports</b>	<b>PENDING:</b> To be completed at the IWC - Oct/Nov 2015	GETF in conjunction with Energy Centre, Netherlands, and UNEP/GPA											final training IWC 8							
<b>Component D: Development of nutrient reduction strategies through the application of nutrient source-impact modeling and analysis and best practice measures and options in the Manila Bay watershed.</b>																				
<b>SP-D1:</b> Strengthening the decision support system for Manila Bay watershed through improved nutrient data and information																				

Component/Activities (all reporting in red text)	Status - March 2015	Lead responsibility (and co-support)	Implementation schedule to project closure																
			2015												2016				
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
(a) report with presentation of consolidated baseline data (using existing material) for nutrient reduction analysis along with indicators on nutrient sources and impacts; (b) report on nutrient over-enrichment status as well as nutrient policies, regulations and best practices	<b>ON-GOING - 50% COMPLETE:</b> Completion of State of the Coasts reports of the Provinces of Bataan, Cavite and Pampanga - Stakeholders consultation and validation - Technical review - Publication and dissemination	PEMSEA in coordination with the Department of Environment and Natural Resources and Provincial Governments of Bataan, Cavite and Pampanga																	
	<b>ON-GOING – 50% COMPLETE:</b> Completion of the updating of the Manila Bay Environmental Atlas - Technical review and consolidation of section drafts - Interagency consultation - Publication and dissemination	Department of Environment and Natural Resources Manila Bay Coordinating Office and National Mapping and Resource Information Authority																	
<b>SP-D2:</b> Building the Foundations and Agreement with government agencies and stakeholders on nutrient reduction strategies to be implemented in the Manila Bay watershed, including their integration into regional water quality aims																			
<b>D2.1:</b> Building the foundations for the nutrient reduction strategies: application of first version source-impact models and best practices. Workshop and case studies; discussions and agreements with experts and other stakeholders on process towards nutrient reduction strategies.	<b>ONGOING: 50 % COMPLETE</b> • Finalization of the updated report on the Total Pollutant Loading Study in the Laguna de Bay-Pasig River-Manila Bay Watershed • Determination of allowable pollutant discharge and testing of model scenarios for other management interventions	PEMSEA in collaboration with Laguna Lake Development Authority																	
	<b>ONGONG: 50% COMPLETE</b> • Finalization of the Manila Bay clean-up strategies, policy analysis and case studies	PEMSEA in collaboration with DENR and Manila Bay stakeholders and in consultation with project Components B and C.																	



Component/Activities (all reporting in red text)	Status - March 2015	Lead responsibility (and co-support)	Implementation schedule to project closure																	
			2015												2016					
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar			
	<ul style="list-style-type: none"> <li>Conduct of stakeholders consultation</li> <li>Finalization of report card and launching</li> </ul>	Fisheries and Aquatic Resources, University of Maryland Center for Environmental Science																		
Management plan for application and implementation of report card and associated indicators, including incorporation into nutrient reduction strategies for Manila Bay watershed	<ul style="list-style-type: none"> <li>Workshop to develop management plan for implementation and sustaining the reporting mechanism</li> </ul>																			
<b>SP-D4</b> Lessons drawn for replication and up-scaling																				
Report with recommendations. Workshop	<b>PENDING:</b> Workshop to discuss the replication and upscaling strategy and lessons learned	UNEP/GPA in conjunction with IOC/UNESCO and other project partners																		
<b>Components E &amp; F: Effective project co-ordination, management and oversight</b>																				
Project Steering Committee Meeting	Initiate planning; confirm venue	UNEP/GPA	GPNM to decide																	
Exit strategy	<b>PENDING</b>	UNEP/GPA																		
Quarterly progress reports	<b>ON-GOING</b>	UNEP/GPA																		
Financial audit reports	<b>ON-GOING</b>	UNEP/GPA																		
Annual Progress Report	Look for the last APR	UNEP/GPA																		
Annual Operating Plan	<b>ON-GOING</b> - Under prep as revised workplan	UNEP/GPA																		
Mid-term review	<b>COMPLETE</b>	UNEP GEF																		
Co-financing report	was one ever generated?	UNEP/GPA																		
Project Completion Report	<b>PENDING</b>	UNEP/GPA																		
Terminal evaluation	<b>PENDING</b>	UNEP GEF																		

Component/Activities (all reporting in red text)	Status - March 2015	Lead responsibility (and co-support)	Implementation schedule to project closure																
			2015												2016				
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		

## Annex 5

### Briefing note on the GEF/UNEP Project 'Towards INMS' for the GPNM Steering Committee Meeting

Mark Sutton, 1 April 2015

#### 1. What is INMS?

**The big idea** a science support process for international policy development on nitrogen. Everyone should ask themselves: what are the science evidence streams that we want to see to support policy.

**Examples of science support:**

IPCC – but not the best example.

CBD- is another INI deliver the N indicator for CBD.

LRTAP – better example. We can all think of examples and should learn from them.

**What INMS is not** “some kind of European style directive”. It is not a policy process.

However, the mere fact of discussing science support for policy obviously has interaction with policy processes and may stimulate thinking of governments of what they want or don't want.

#### 2. What kind of things go into INMS

The following is a short-list of the kinds of key elements making up INMS:

- Evidence streams on nature and location of major nitrogen sources and flows
- Evidence on nature of nitrogen benefits and nitrogen threats – taking a cross cutting approach.
- Developing capability to deliver this information and relate it: using integrated models, cost benefit analysis, development of performance indicators
- A combination of global analysis – e.g. towards global integrated assessment modelling for nitrogen, and regional demonstration: how does this approach map out in practice in different regions
- Regional demonstrations that contribute to developing global critical mass, in each case with supporting policy engagement.
- Successes, barriers to change, and how to overcome those barriers.

### **3. Relevant policy processes**

- CBD, LRTAP, UNFCCC, Montreal Protocol, GPA and others. This is discussion where GPNM is highly relevant, but also one that is much wider than GPNM interests. It is not just about agriculture and water.
- Specific question of how INMS can support GPA since UNEP is the Implementing Agency. In particular, UNEP and countries planning well in advance what they would like to agree in GPA 2016. That can then feedback to provide clear guidance on the science evidence needs.

### **4. The difference between INMS and ‘Towards INMS’**

INMS is conceived as an eventual science support process for nitrogen policy development. By contrast ‘Towards INMS’ is the GEF/UNEP project under development which works towards this goal.

‘Towards INMS’ is being developed as a “Targeted Research Project” funded by GEF, with UNEP as the Implementing Agency (IA) and NERC-CEH (on behalf of the International Nitrogen Initiative) as the Executing Agency (EA).

### **5. Process towards establishing ‘Towards INMS’**

The process has been a slow one, and as a result there is a danger to get impatient. However the Project Preparation Grant (PPG) phase has now started, with preparatory meeting underway. The process is open, that applies just as much to GPNM as to other key stakeholder organizations.

- General concepts agreed and PIF drafted 2012-2013.
- Extensive feedback and engagement from GEF Sec and STAP.
- Final PIF approved April 2014.
- Contract for Project Preparation Grant signed by CEH 24 December 2014
- Fine tuning amendments of Contract by UNEP.
- Signed contract received by CEH 26 March 2015 (5 days ago).
- CEH Finance Team now setting up the project in the system to allow resources to be spent on the project. The last 3 years of effort in getting this far have been free!

### **6. Engagement Activities in support of ‘Towards INMS’ preparation**

#### ***a. Recent Engagements supporting INMS development***

- **Presentation to the Executive Body** (=Conference of Parties) of the Convention on Long-range Transboundary Air Pollution (Dec 2014) – Ammonia Framework Code adopted and INMS preparation. Governments of 41 countries represented + WHO and WMO.
- **Presentations to European Commission and European Parliament** (Nov 2014- Feb 2015)
- **Presentation to the OECD Environmental Policy Committee.** Presentation to 34 countries, and (within time available), statements in support of the N work from 22 countries. (Feb 2015)
- **Joint Hosting of Nitrogen Fireside Chat Workshop with BASF** (27-28 March 2015): developing options for better nitrogen management especially in agriculture. Meeting with INMS candidate regional partners to build understanding on regional demonstration aspects (will be reported in advance of the Lisbon meeting).

#### ***Forthcoming engagements in support of INMS PPG process***

- **INMS plenary workshop: Lisbon** (27-28 April). All project prospective partners invited to discuss priority needs for the project and develop engagement and governance approach. (Background documents to be provided). Open process – discussion together. While we have a clear vision, we realise that there are many views and we need to capture those. (CEH/INI has offered to pay for the attendance of the GPNM chair from its own funds as the GEF/UNEP funds will not cover this cost).
- **10<sup>th</sup> annual meeting of the Task Force on Reactive Nitrogen (TFRN)** (29-30 April, Lisbon). Developing partnership networks, including with Eastern Europe Caucasus and Central Asia (EECCA) in response to the mandated priority from the Executive Body of the LRTAP Convention.
- **INMS pump priming workshop on Integrated Assessment Modelling for the global nitrogen cycle:** (5-6 May, Edinburgh) immediately preceding the LRTAP Task Force on Integrated Assessment Modelling (6-8 May) to foster synergies.
- **Preparation of ‘Towards INMS’ documentation** (10 May to 30 June) Avoiding meetings in order to prepare documentation including ProDoc and other information, including 1 to 1 engagement with prospective partners.
- **Finalization of documentation and submission by UNEP to GEF Sec.** (Summer)
- **Projected launch of ‘Towards INMS’ at the 8<sup>th</sup> International Waters Conference (IW8)** (Nov 2015)
- **Projected running of ‘Towards INMS’ as a project:** The project is anticipated to run 2016-2019, with the project ‘inception phase’ during the first months of 2016.

## **7. Forward-look on key stakeholder engagements relevant for ‘Towards INMS’**

**2015 Dec 14-18:** United Nations, Geneva. Workshop on nitrogen and ammonia air quality challenges. Working Group on Strategies and Review, LRTAP Convention.

**2016 April 4-8:** OECD Environment Ministers Conference. Final dates and theme still under discussion.

**2016 June:** Environment for Europe (EfE) ministerial conference of the UN-ECE (North America, Europe, Caucasus and Central Asia).

**2016 Autumn?:** 4<sup>th</sup> Inter-governmental review of the Global Programme of Action for the protection of the marine environment from land-based activities. (details yet to be set).

**2016 Dec 4-8:** 7th International Nitrogen Initiative Conference (INI 2016), Melbourne, Australia.

## **8. Questions for discussion**

The following requests have been put by the GPNM chair to the EA which can inform discussion during the GPNM call. The GPNM chair requests that the EA does the following:

1. Embrace the GPNM as a full and major partner in the implementation and execution of the INMS project.
2. Display GPNM logo along with INI, UNEP, GEF and CEH on the web site and all publications.
3. Build extensively on the expertise and networks developed through the GNC project accomplishments such as the formation of the Regional Nutrient Management Platforms, Use of the Policy and Practice Toolbox, All aspects of the Pilot Sites, and Assessment Modeling Research.
4. Involve GPNM and partners in the different aspects of the governance of the INMS projects including the overall governance and relevant technical groups.
5. Involve GPNM and partners in the specific design of the project and activities to be executed and

The writing of a zero-draft of the proposal prior to Lisbon would be useful to partners to determine how partners might be involved.

## Annex 6

**Towards INMS**

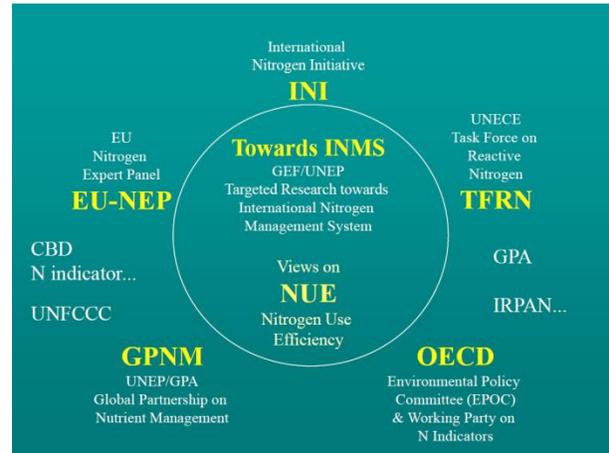
**Update on 'Towards INMS' development to the GPNM SC**

Mark Sutton, Clare Howard, Will Brownlie

Centre for Ecology & Hydrology, Edinburgh

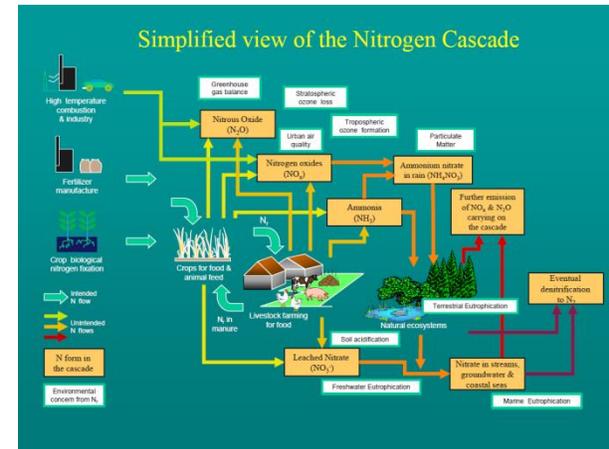
gef UNEP GPNM Virtual Steering Group Meeting 1 April 2015

OECD futurerth eclaire



### The Nitrogen Snowball

- Joined up management of the nitrogen cycle to strengthen the common cause between environmental, food & energy security challenges
  - What would a global science policy support process for nitrogen look like?
  - What are the issues to connect?
  - What are the main, research, demonstration and communication challenges?
- Why should the world be talking nitrogen?



### The Big Idea

- A science support process for international policy development on nitrogen.
- Examples of science support**
- IPCC – but not the best example.
- CBD- is another INI deliver the N indicator for CBD.
- LRTAP – better example. We can all think of examples and should learn from them.

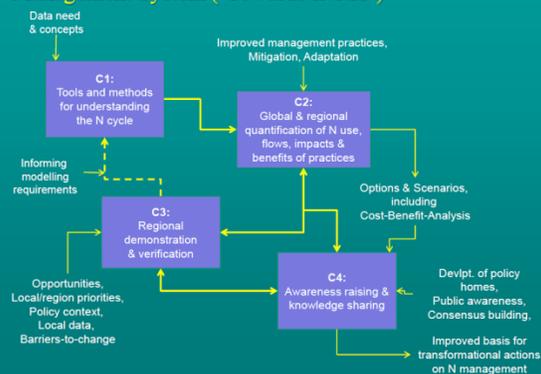
### What INMS is not...

- It is not a policy process.**
- However, discussing science support for policy has interaction with policy processes
- It may stimulate thinking by governments of what they want or don't want.

## Elements of INMS

- Nature and location of major nitrogen sources and flows
- Nitrogen benefits and nitrogen threats
- Capability to deliver this information, with integrated models, cost benefit analysis, development of performance indicators
- A combination of global analysis and regional demonstration
- Successes, barriers to change, and how to overcome those barriers.

## GEF/UNEP project towards the International Nitrogen Management System ('Towards INMS')



## Linking International Nitrogen Policy Frameworks



## Process towards 'Towards INMS'

- Slow but PPG phase now started
- Open process just as much to GPNM as to other key stakeholder organizations.
  - General concepts agreed and PIF drafted 2012-2013.
  - Extensive feedback and engagement from GEF Sec and STAP.
  - Final PIF approved April 2014.
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  - CEH Finance Team now setting up the project in the system to allow resources to be spent on the project.
  - *The last 3 years of effort in getting this far have been free!*

## Recent Engagement Activities

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## Forthcoming Engagement

- **INMS plenary workshop: Lisbon** (27-28 April). All project prospective partners invited to discuss priority needs for the project and develop engagement and governance approach. (Background documents to be provided). CEH/INI to cover GPNM chair costs from own budget.
- **10<sup>th</sup> annual meeting of the Task Force on Reactive Nitrogen (TFRN)** (29-30 April, Lisbon). Developing partnership networks, including with Eastern Europe Caucasus and Central Asia (EECCA) in response to the mandated priority from the Executive Body of the LRTAP Convention.
- **INMS pump priming workshop on Integrated Assessment Modelling for the global nitrogen cycle:** (5-6 May, Edinburgh) immediately preceding the LRTAP Task Force on Integrated Assessment Modelling (6-8 May) to foster synergies.

## Next Steps

- **Preparation of 'Towards INMS' documentation** (10 May to 30 June) Avoiding meetings in order to prepare documentation including ProDoc and other information, including 1 to 1 engagement with prospective partners.
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- **Projected running of 'Towards INMS' as a project:** The project is anticipated to run 2016-2019, with the project 'inception phase' during the first months of 2016.

## Forward look to 2016 key meetings

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- **2016 Dec 4-8:** 7th International Nitrogen Initiative Conference (INI 2016), Melbourne, Australia

## For discussion

The following requests have been put by the GPNM chair:

1. Embrace the GPNM as a full and major partner in the implementation and execution of the INMS project.
2. Display GPNM logo along with INI, UNEP, GEF and CEH on the web site and all publications.
3. Build extensively on the expertise and networks developed through the GNC project accomplishments such as the formation of the Regional Nutrient Management Platforms, Use of the Policy and Practice Toolbox, All aspects of the Pilot Sites, and Assessment Modeling Research.

## For discussion

The following requests have been put by the GPNM chair:

4. Involve GPNM and partners in the different aspects of the governance of the INMS projects including the overall governance and relevant technical groups.
5. Involve GPNM and partners in the specific design of the project and activities to be executed and
6. The writing of a zero-draft of the proposal prior to Lisbon would be useful to partners to determine how partners might be involved.

Logo collection  
Under development!



## Annex 7

### SDSN-IFA Workshop on SDG Indicators 15 January 2015, Paris, France

#### Main Outcomes

As the Sustainable Development Goals (SDGs) are intended to include a rigorous program of monitoring, it was timely to examine possible agriculture- and nutrient-related targets and indicators with a view towards having a practical and measurable set of targets and indicators, as well as means of monitoring. Towards this end, the Sustainable Development Solutions Network (SDSN) and the International Fertilizer Industry Association (IFA) co-hosted an exploratory workshop involving experts from industry, international agencies and academia. During the workshop, participants were invited to consider the draft SDSN report on indicators and relevant approaches developed by other organizations in order to try reach consensus on key related issues.

The focus of the workshop was primarily on nutrient indicators. However, participants also discussed indicators indirectly related to nutrients, e.g. indicators of crop productivity, of outreach to farmers, etc.

The program of the workshop and the list of participants are given in Annexes 1 and 2.

At the time of the workshop, the SDSN report on 'Indicators and a Monitoring Framework for the Sustainable Development Goals' used to contain two indicators directly related to nutrients: (i) Indicator 12 of crop N use efficiency and (ii) Indicator 13 of excessive loss of reactive N [and P] to the environment. The report was also containing other relevant indicators such as (i) Indicator 80 of net GHG emissions in the agriculture, forest and other land use sector and (ii) the Ocean Health Index (Indicator 82). A number of useful complementary indicators were also listed in the report: (i) Indicator 10 of crop yield gap; (ii) Indicator 11 of number of agricultural extension workers per 1000 farmers; (iii) Indicator 15 of annual change in degraded or desertified arable land and (iv) Indicator 16 of crop water productivity.

Discussions focused mostly on indicators 12 and 13, while taking the other indicators into account.

Presentations of the work on N use efficiency definition, measurement and monitoring by OECD, GPNM and the European N Expert Panel greatly helped the discussion. Participants confirmed the interest of a composite indicator such as the one proposed by both GPNM and the European N Expert Panel, which reflects the N input, the N output, the output/input ratio, and the N surplus/deficit. This indicator is endorsed in Indicator 15 of the revised version of the SDSN report (draft of 20 March 2015 – See Annex 3)<sup>2</sup>.

Some participants suggested adding a similar indicator for P, but it was acknowledged that its implementation would be more challenging and that it would not add much information to the

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<sup>2</sup> Indicator 15 refers to the proposed visual representation suggested by the European N Expert Panel instead of the recommendation by GPNM because the GPNM paper on the topic was still a draft at the time of the workshop.

proposed indicator of N use efficiency. It was therefore added to the list of proposed supplementary national indicators.

The indicator of excessive loss of reactive N [and P] to the environment was also removed from the latest SDSN report as it would be partly addressed by calculating the N surplus/deficit in the new Indicator 15.



## SDSN-IFA Workshop on SDG Indicators

15 January 2015

Crowne Plaza Paris-République Hotel  
10 Place de la République, Paris, France

### Program

- 09:00 am **Introductory Remarks**  
*Guido Schmidt-Traub & Achim Dobermann, SDSN*  
*Charlotte Hebebrand, IFA*
- 09:30 am **Indicators – How do we define and measure nutrient management performance**  
*Session Chair: Patrick Heffer*  
Introduction of the topic - *Guido Schmidt-Traub*  
Crop NUE indicator - *Oene Oenema, Terry Roberts*  
Excessive N and P losses to the environment – *James Lomax*  
Ocean Health Index - *Henrik Enevoldsen*  
Full chain NUE indicator - *Myriam Linster*
- 11:00 am **Break**
- 11:30 am **Monitoring – Data availability & gaps, needed changes in data collection, novel tools and big data, lead agencies, complementary indicators, etc.**  
*Session Chair: Achim Dobermann*  
Introduction of the topic - *Patrick Heffer*
- 12:30 pm **Lunch**
- 14:00 pm **Monitoring (cont'd) – Pros/cons of options, implementation, etc.**  
*Session Chair: Achim Dobermann*  
Introduction of the topic - *Achim Dobermann*
- 15:30 pm **Coffee**
- 16:00 pm **Aspirational Outcomes – What do we want in a global agenda?**  
*Session Chair: Terry Roberts*  
Our Nutrient World - *Mark Sutton*  
SDSN - *Achim Dobermann*
- 17:00 pm **Wrap Up**  
*Guido Schmidt-Traub & Charlotte Hebebrand*
- 17:15 pm **Adjourn**