Global Partnership on Nutrient Management (GPNM)
Proceedings of the
4th Steering Committee meeting

April 1st 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\(^{st}\) 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 COX  
  Programme Officer, UNEP/GPA
- Dr. Greg CROSBY  
  National Program Leader National Institute of Food and Agriculture, USDA
- Mr. Patrick HEFFER  
  Senior Director, Agriculture Service IFA
- Dr. Sasha Koo-OSHIMA  
  Senior International Water Policy Advisor Office of Water, Environmental Protection Agency (EPA)
- Dr. Yuelai LU  
  Head of the Secretariat UK-China Sustainable Agricultural Innovation Network
- Dr. Terry ROBERTS  
  President IPNI
- Prof. Roland SCHOLZ  
  Project Leader Global Traps/University of Zürich
- Dr. Mark SUTTON  
  Environmental Physicist Centre for Ecology & Hydrology
- Mr. Vincent SWEENEY  
  Coordinator UNEP/GPA
- Ms. Isabelle VANDERBECK  
  GEF IW Task Manager UNEP (invited)
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 3rd 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:

<table>
<thead>
<tr>
<th>Decision for action</th>
<th>Lead responsibility</th>
<th>Status</th>
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<tbody>
<tr>
<td><strong>UNEA Process</strong></td>
<td></td>
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<tr>
<td>1 Resolution preparation for the next UNEA</td>
<td>S. Koo-Oshima; supported by A. Passenier</td>
<td>On-going discussions; to be further discussed in this meeting agenda</td>
</tr>
<tr>
<td>2 UNEA, May 2016, Nairobi; liaise with member states to identify a sponsor for a nutrient Resolution</td>
<td>V. Sweeney (to look into and advise on best avenue for participation)</td>
<td>23rd to 27th May 2016 are set for UNEA. There are ‘soft’ and hard deadlines regarding the submission of documentation through the process.</td>
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<tr>
<td><strong>Technical matters</strong></td>
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<tr>
<td>3 NUE Task team to prepare a 10-page brief on the derivation of indicators</td>
<td>T. Roberts</td>
<td>Completed; seeking formal endorsement by the steering committee (SC).</td>
</tr>
<tr>
<td>4 Formalize the Phosphorous management Task Team within the</td>
<td>A. Passenier to lead</td>
<td>To be further discussed/presented in this meeting agenda (see Task Team agenda item)</td>
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<tr>
<td>Decision for action</td>
<td>Lead responsibility</td>
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<tr>
<td><strong>Partnership building</strong></td>
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<tr>
<td>5 GPNM Terms of Reference to be re-circulated to all members</td>
<td>GPNM Secretariat</td>
<td>A draft document has been prepared by the Secretariat. Needs to be cleared by Chair for wider circulation; Chair will follow up.</td>
</tr>
<tr>
<td>6 Invite the regional platform chairs to the next SC meeting</td>
<td>G. Crosby</td>
<td>No further consideration. Process to engage platforms is being re-initiated</td>
</tr>
<tr>
<td>7 Extend invitation to the World Bank to sit on the GPNM; also a representative</td>
<td>G. Crosby/GPNM Secretariat</td>
<td>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. Crosby 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.</td>
</tr>
<tr>
<td>8 Consult with the FAO to determine areas of mutual cooperation that can be</td>
<td>GPNM Secretariat with G. Crosby</td>
<td>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. Heffer 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.</td>
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<tr>
<td>9 Formal submission/tabling of the EU fertilizer subsidy study to be adopted as part</td>
<td>P. Heffer</td>
<td>Heffer 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.</td>
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<tr>
<td><strong>Projects</strong></td>
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<tr>
<td>10 GNC Project Mid-Term Evaluation to be circulated to the SC for comments</td>
<td>I. Vanderbeck</td>
<td>Completed; SC members have provided inputs. Crosby noted that the report was a useful guide for continued implementation. Vanderbeck to circulate the final review report to SC members.</td>
</tr>
<tr>
<td>11 Options for the governance structure for the INMS Project presented to the GPNM</td>
<td>M. Sutton; C. Howard; I. Vanderbeck</td>
<td>For discussion within this meeting’s agenda</td>
</tr>
<tr>
<td>12 Post all relevant information on the INMS Project on project website</td>
<td>C. Howard</td>
<td>Not raised (task in progress)</td>
</tr>
<tr>
<td>13 CEH develop a more non-technical audience-friendly version of the PowerPoint</td>
<td>C. Howard</td>
<td>Not raised (task pending)</td>
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<tr>
<td>14 SC members to direct comments on the INMS Proposal to CEH</td>
<td>All GPNM SC members</td>
<td>For discussion within this meeting</td>
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<tr>
<td><strong>Communications and outreach</strong></td>
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<tr>
<td>15 Formation of a Task Team on communications (including development of TORs);</td>
<td>GPNM Secretariat, A. Bleeker (who will chair)</td>
<td>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</td>
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<tr>
<td>Source needed expertise; Review and</td>
<td>and N. Raghuram (who will assist)</td>
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<td>Decision for action</td>
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<tr>
<td>strengthen the communications strategy</td>
<td></td>
<td>participation.</td>
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<tr>
<td>16 Steering committee members to provide feedback on the draft Communications Plan</td>
<td>A. Bleeker to lead</td>
<td>Not raised (task pending)</td>
</tr>
<tr>
<td>17 Articulation of guiding principles for communications and information</td>
<td>Communications Task Team and GPNM Secretariat</td>
<td>Not raised (task pending)</td>
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<tr>
<td>dissemination between the GPNM and UNEP</td>
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<td>18 Commence publication in different languages; (those to be determined)</td>
<td>GPNM Secretariat</td>
<td>Task pending</td>
</tr>
<tr>
<td>19 Develop a brochure to be used to field new partners to the GPNM</td>
<td>GPNM Secretariat</td>
<td>Draft flier and invitation letter template developed</td>
</tr>
<tr>
<td>20 Develop a set PowerPoint presentation that SC members can use in their outreach</td>
<td>GPNM Secretariat</td>
<td>PREZI presentation developed and undergoing final modifications</td>
</tr>
<tr>
<td>21 Review the new GPNM logo proposals</td>
<td>GPNM Secretariat &amp; Communications Task Team</td>
<td>Task pending</td>
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<tr>
<td>Resource mobilization</td>
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<tr>
<td>22 Submit a proposal for resource mobilization to the EC Director General for</td>
<td>GPNM Secretariat submit to A. Passenier who will engage discussions on behalf of GPNM</td>
<td>Task pending. UNEP internal project to be used as basis for resource mobilization. The project proposal is still under review and finalization by UNEP</td>
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<tr>
<td>Environment; based on GPNM workplan</td>
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**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). 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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1 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 8th 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.

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**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 15th. 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 may 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 3rd 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 3rd 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 Bindraban, 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 5th and 6th 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**

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

**Global Partnership on Nutrient Management (GPNM) 4th Steering Committee meeting**

**Date:** 1st April 2015  
**Venue:** via teleconference

<table>
<thead>
<tr>
<th>Time (EST)</th>
<th>Topic/Item</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>8:00 – 8:10</td>
<td>Opening and welcoming remarks</td>
<td>GPNM Chair</td>
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<tr>
<td>8:10 – 8:30</td>
<td>Review of the Minutes from the Dec 2014 SC Meeting</td>
<td>GPNM Chair</td>
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<tr>
<td>8:30 – 9:00</td>
<td>Summary of 2015 GPNM Workplan implementation (incl. GNC Project)</td>
<td>Secretariat</td>
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</table>
| 9:00 – 9:45 | Presentation of the work of Task Teams (5 minutes each) | Sasha Koo-Oshima  
- Policy  
- Nutrient Use Efficiency  
- Partnerships  
- Toolbox  
- Phosphorus  
- Communications | Terry Roberts  
- Secretariat / Greg Crosby  
- Ajit Pattnaik  
- Arnoud Passenier  
- Albert Bleeker |
| 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

<table>
<thead>
<tr>
<th>Title</th>
<th>Surname</th>
<th>Other names</th>
<th>Designation</th>
<th>Organization</th>
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<th>E-mail</th>
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<tbody>
<tr>
<td>Dr.</td>
<td>COX</td>
<td>Christopher</td>
<td>Programme Officer</td>
<td>UNEP/GPA</td>
<td>2547625276</td>
<td><a href="mailto:Christopher.cox@unep.org">Christopher.cox@unep.org</a></td>
</tr>
<tr>
<td>Dr.</td>
<td>CROSBY</td>
<td>Greg</td>
<td>National Program Leader</td>
<td>National Institute of Food and Agriculture, USDA</td>
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</tr>
<tr>
<td>Mr.</td>
<td>HEFFER</td>
<td>Patrick</td>
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<td>IFA</td>
<td>202 401-6050 (office)</td>
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</tr>
<tr>
<td>Dr.</td>
<td>Koo-Oshima</td>
<td>Sasha</td>
<td>Senior International Water Policy Advisor</td>
<td>Office of Water, Environmental Protection Agency (EPA)</td>
<td></td>
<td><a href="mailto:Koo-Oshima.Sasha@epa.gov">Koo-Oshima.Sasha@epa.gov</a></td>
</tr>
<tr>
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<tr>
<td>Dr.</td>
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<td>+1 770-447-0335</td>
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<tr>
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</tr>
<tr>
<td>Dr.</td>
<td>SUTTON</td>
<td>Mark</td>
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<td>Centre for Ecology &amp; Hydrology</td>
<td>+44 131 445 4343</td>
<td><a href="mailto:ms@ceh.ac.uk">ms@ceh.ac.uk</a></td>
</tr>
<tr>
<td>Mr.</td>
<td>SWEENEY</td>
<td>Vincent</td>
<td>Coordinator</td>
<td>UNEP/GPA</td>
<td>2547625722</td>
<td><a href="mailto:vincent.sweeney@unep.org">vincent.sweeney@unep.org</a></td>
</tr>
<tr>
<td>Ms.</td>
<td>VAN DER BECK</td>
<td>Isabelle</td>
<td>GEF IW Task Manager</td>
<td>UNEP</td>
<td></td>
<td><a href="mailto:isabelle.vanderbeck@unep.org">isabelle.vanderbeck@unep.org</a></td>
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</table>
Annex 3

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 GPMN/flock new members
    - On-going presence at least once a year, capacity enhancement presentation developed & pre-hoc pan-partnership activities being prepared
    - Key stakeholders to be 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: Outreach Strategy developed. Outreach Task Team to review in January
    - Special advocacy: presentation developed - to be added by GPMN SC
  - A1.3: Publishing and disseminating an advocacy manual on "Effective Nutrient Management"
    - COMPLETE
  - A1.4: Hosting of GPMN global meetings
    - For GPMN SC Consideration - proposed as next face to face meeting, possibly GHC project Steering Committee meeting (July and June 2014)
  - A1.5: Engaging with other GEF UNEP projects e.g., RODS, MRE
    - Under consideration, no significant progress. This will be via the regional platforms
  - A1.6: Developing and maintaining a separate partnership and project website and platform to present and project outcomes
    - Complete, ongoing: website to be developed by J. Forre, FSC GPMN SC Consideration - scope of work - expansion of the existing contract with LCN

Component B

- SP-B1: Nutrient impact modeling for global and local to regional nutrient source impact analysis
  - B1.1: Assessment of effects of nutrient loading in coastal marine ecosystems
  - B1.2: Ecological and economic assessment of different nutrient control measures and their costs

- 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
  - B2.1: Data base: Nutrient release from agriculture
  - B2.2: Global database development with data on coastal conditions, non-nutrient based sources, as well as coastal effects
  - B2.3: Synthesis report and maps on occurrences of hypoxia and harmful algal blooms
  - B2.4: Synthesis report "Impacts on fisheries" based on data and model output from regions - develops relationships between fishery production and potential controlling variables and hypoxia
  - B2.5: All activities are ongoing – to be completed September 2015
  - UNEP agreement being extended to March 2016. This will include the agreed USD 45,000 requested amount that was approved at the SC to account for co-financing shortfall

- SP-B3: Development of regional models for the Mascarene Basin watershed of coastal ecosystems
  - B3.1: Data assembly for the Mascarene Basin
  - B3.2: High resolution input export model for Mascarene waters

- SP-B4: Development of regional models for the Mascarene Basin watershed of coastal ecosystems
  - B4.1: Ecosystem model for Mascarene Island

- SP-B5: Development of regional models for the Mascarene Basin watershed of coastal ecosystems
  - B5.1: Validation of models and development of a summary model for Mascarene Island

- SP-B6: Regional, national annual, and/or government, policy experts, trained in using nutrient source-impact modeling, analyzing nutrient reduction policies.

- SP-B7: Nutrient source-impact guidelines and user manual for integrated ecosystem assessment and nutrient criteria development

- Not yet defined: For GPMN SC Consideration
Component C

- SP-C4: Production of a fully operational ‘policy toolbox’ and delivery of 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 WFD 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 WFD – November 2015. FOR GDNM 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 WFD – Nov/Oct 2015. FOR GDNM 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 Batan, Cavite and Pampanga – stakeholders consultation and validation, technical review, publication and dissemination. Completed by October 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
    - Multiple updated reports on total nutrient loading study – Laguna de Bay-mgt.
    - Manila Bay wastewater, determination of tributary nutrient discharges and history of model scenarios for other management interventions - Completed by August 2014.
  - Validation of the Manila Bay cleanup strategies, policy analysis and cost-benefit analysis by December 2015.
  - D2.2: Development and application of the final source impact models for Manila Bay in developing nutrient reduction strategies
    - Initial workshop on TMDL and ecosystem modeling in Manila Bay watershed.
    - Development of nutrient reduction strategy; stakeholder workshop on nutrient reduction strategy; Completed by February 2014.
  - 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 2014.

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
  - SP-D4 - Lessons drawn for replication and up-scaling
    - Workshop to discuss the replication and up-scaling strategy and lessons learned. February to March 2016. GEF 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
- meeting

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

<table>
<thead>
<tr>
<th>Lead responsibility (and co-support)</th>
<th>Component B: Quantitative analysis of relationship between nutrient sources and impacts to guide decision making on policy and technological options</th>
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</thead>
<tbody>
<tr>
<td><strong>A3.2:</strong> Establishment of a Community of Practice based on extension agricultural services</td>
<td><strong>SP-B1:</strong> Overview of existing tools for source-impact analysis of nutrients in LMEs and their target audiences</td>
</tr>
<tr>
<td><strong>Replication and upscaling - Guidelines, tools and data for nutrient impact analysis - FROM COMPS B, C</strong></td>
<td><strong>SP-B2:</strong> 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.</td>
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#### Status - March 2015

- **planned**
- **ON-GOING:** 80% complete. GPNM need to consider further opportunities
- **PENDING:** GPNM to consider this integration and upscaling and resource dissemination. Need to determine actions needed.
- **FROM COMPS B, C**

#### Implementation schedule to project closure

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#### Lead responsibility (and co-support)

- **UNEP/GPA - GPNM**
- **University of Utrecht**
- **Washington State University**

**Notes:**

- IWC 8
- ???

**Additional Information:**

- UNEP/GPA - GPNM Further consideration by GPNM
- IWC 8

**Further Details:**

- Replication and upscaling - Guidelines, tools and data for nutrient impact analysis - FROM COMPS B, C
- 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
- 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.

**Completed:**

- Review report- COMPLETE: Unpublished report - University of Utrecht
- B2.1: Data Base: Global-NEWS data for river nutrient export - COMPLETE
- B2.2: Data base: Nutrient release from aquaculture - ON-GOING: several publications available; publication on spatial allocation marine aquaculture to be completed - University of Utrecht

**On-going:**

- B2.3: Global database development with data on coastal conditions, non-land based nutrient sources, as well as coastal effects collected from existing sources - ON-GOING: Coastal conditions and coastal effects, is in progress and will be completed 2015 - Washington State University
- B2.4: Synthesis report and maps 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 additional IOC databases, such as HAEDAT - ON-GOING: noted deliverables in 2015 - University of Utrecht and Washington State University, with support of IOC/UNESCO
- B2.5: Synthesis report "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 - ON-GOING: 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
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<th>Component/Activities (all reporting in red text)</th>
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<th>Lead responsibility (and co-support)</th>
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<tr>
<td><strong>TO INCLUDE DATABASE AND DOCUMENTATION</strong></td>
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<tr>
<td><strong>SP-B3:</strong> Nutrient impact modeling for global and local to regional nutrient source impact analysis</td>
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<tr>
<td><strong>B3.1:</strong> Enhanced predictive capability of models with respect to nutrient sources, loads, and coastal impacts - deliverables: Relationships and documentation</td>
<td><strong>COMPLETE:</strong> (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)</td>
<td>University of Utrecht, and Washington State University</td>
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<tr>
<td><strong>B3.2:</strong> Assessment of effects of nutrient loading in coastal marine ecosystems; deliverables: Maps and documentation</td>
<td><strong>ON-GOING:</strong> 30% complete; Dan Reed is making good progress with the hypoxia portion of this task.</td>
<td>University of Utrecht and Washington State University</td>
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<tr>
<td><strong>B3.3:</strong> Analysis and maps of past, current and future contributions of different nutrient sources, forms and ratios in watersheds to coastal effects. Deliverable; analysis report</td>
<td><strong>ON-GOING:</strong> WSU: still on-going, can provide additional maps of nutrient sources, based on NEWS output.</td>
<td>University of Utrecht and Washington State University</td>
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<td><strong>SP-B4:</strong> Development of regional models for the Manila Bay watershed of coastal effects</td>
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<tr>
<td><strong>B4.1:</strong> Data assembly for the Manila Bay watershed; deliverable - database</td>
<td><strong>ON-GOING:</strong> 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).</td>
<td>University of Philippines, working through the Information Management Information System of the Manila Bay Coastal Strategy</td>
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<tr>
<td><strong>B4.2:</strong> High resolution river export model for Manila Bay rivers.</td>
<td><strong>ON-GOING:</strong> 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</td>
<td>University of Philippines, Washington State University, and University of Utrecht</td>
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<tr>
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<tr>
<td>B4.3: Ecosystem model for Manila Bay (showing dynamics of formation of hypoxia and eutrophication)</td>
<td>ON-GOING: 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.</td>
<td>University of Philippines, University of Utrecht</td>
<td>2015</td>
</tr>
<tr>
<td>B4.4: Validation of models and development of a summary model for Manila Bay including documentation</td>
<td>ON-GOING: Testing and application (UP), the scenario building - half completed. Planned working visit of UP to UU for April or May 2015. Publications available.</td>
<td>University of Philippines, University of Utrecht</td>
<td>2016</td>
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<tr>
<td>SP-B5: Contribution of component B modeling and analysis outcomes to cost effective policy tool development under component C</td>
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<tr>
<td>Models, summary models, including documentation</td>
<td>ON-GOING: 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 proceeding well and is primary focus of ongoing work at WSU.</td>
<td>Washington State University and Utrecht University</td>
<td>2015</td>
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<tr>
<td>SP-B6: 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.</td>
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<tr>
<td>Training workshop and report</td>
<td>PENDING: Preliminary scheduled for IWC8 VN late 2015</td>
<td>Washington State University, University of Utrecht, and University of Philippines, with support of IOC/UNESCO</td>
<td>IWC 8</td>
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<tr>
<td>Component/Activities (all reporting in red text)</td>
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<td>Guidelines and manuals</td>
<td>PENDING: No substantive updates on this activity; for consideration by the GPNM</td>
<td>Washington State University, University of Utrecht, University of Philippines, and with support of IOC/UNESCO and UNEP/GPA</td>
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</table>

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

- **SP-C1**: Update and finalization of the comprehensive inventory of technological and policy options 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.  
  **COMPLETE**: could possibly include additional policy options  
  GETF/University of Nebraska Cooperative Extension

- **SP-C2**: Five in-depth case studies 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  
  **COMPLETE**: hosted on http://www.nutrientchallenge.org/toolbox/  
  GETF

- **SP-C3**: Production of a stand-alone synthesis report of best management practices (i.e., policy, technological options, measures and regulations) covering the various regions of the world ready for publication and dissemination  
  **COMPLETE**  
  GETF/Water Stewardship Inc

- **SP-C4**: Production of a fully operational ‘policy toolbox’ 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  
  **COMPLETE** - 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
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<tr>
<td>global toolbox and delivery of the training.</td>
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<tr>
<td><strong>SP-C5. 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: Replication and up-scaling strategy</strong></td>
<td>ON-GOING: Based on WRI visit to Manila Bay and the Chilika training, this will be completed shortly thereafter.</td>
<td>GETF</td>
<td><strong>TIMELINE TO BE ESTIMATED</strong></td>
</tr>
<tr>
<td><strong>SP-C6. Integration of component Policy Tool Box with Component B source-impact modeling; deliverables: conceptual approach and method, along with communication materials</strong></td>
<td>PENDING: To be delivered at IWC8 - November 2015</td>
<td>Energy Centre of Netherlands</td>
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<tr>
<td><strong>SP-C7. 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</strong></td>
<td>COMBINED WITH SP-C5</td>
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<td><strong>SP-C8. Holding of 2-3 training session during the GEF International Waters Conference and other global meetings of nutrient relevance (to be decided in consultation with the PM) and production of training/workshop reports</strong></td>
<td>PENDING: To be completed at the IWC - Oct/Nov 2015</td>
<td>GETF in conjunction with Energy Centre, Netherlands, and UNEP/GPA</td>
<td>final training IWC 8</td>
</tr>
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</table>

**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.**

**SP-D1:** Strengthening the decision support system for Manila Bay watershed through improved nutrient data and information
<table>
<thead>
<tr>
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<tr>
<td>(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</td>
<td><strong>ON-GOING - 50% COMPLETE:</strong> Completion of State of the Coasts reports of the Provinces of Bataan, Cavite and Pampanga - Stakeholders consultation and validation - Technical review - Publication and dissemination</td>
<td>PEMSEA in coordination with the Department of Environment and Natural Resources and Provincial Governments of Bataan, Cavite and Pampanga</td>
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<td></td>
<td><strong>ON-GOING – 50% COMPLETE:</strong> Completion of the updating of the Manila Bay Environmental Atlas - Technical review and consolidation of section drafts - Interagency consultation - Publication and dissemination</td>
<td>Department of Environment and Natural Resources Manila Bay Coordinating Office and National Mapping and Resource Information Authority</td>
<td></td>
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<tr>
<td></td>
<td><strong>SP-D2:</strong> 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</td>
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<td></td>
<td><strong>D2.1:</strong> 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.</td>
<td><strong>ONGOING: 50 % COMPLETE</strong> • 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</td>
<td>PEMSEA in collaboration with Laguna Lake Development Authority</td>
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<td><strong>ONGOING: 50% COMPLETE</strong> • Finalization of the Manila Bay clean-up strategies, policy analysis and case studies</td>
<td>PEMSEA in collaboration with DENR and Manila Bay stakeholders and in consultation with project Components B and C.</td>
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<tr>
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<tr>
<td><strong>Report to Technical Working Group (TWG)</strong> after workshop with recommendations on next steps and containing draft of possible nutrient reduction strategies. Agreement of TWG.</td>
<td>ON-GOING - TWG consultation meetings on the nutrient reduction strategy and investment plan</td>
<td>PEMSEA in coordination with DENR and other relevant agencies</td>
<td>2015</td>
</tr>
<tr>
<td><strong>D2.2</strong>: Development and application of the final source-impact models for Manila Bay in developing nutrient reduction strategies. Report to and agreement of Technical Working Group of Department for Environment and Natural Resources.</td>
<td>PENDING Nutrient loading and ecosystem modeling in Manila Bay watershed - Modeler’s workshop on TPL and ecosystem modeling in Manila Bay watershed (cross-reference to D.2.1) in conjunction with other project components (requires inputs from SP-B4 and SP-C4) - Development of nutrient reduction strategy and investment plan - Stakeholders workshop on nutrient reduction strategy</td>
<td>PEMSEA in collaboration with DENR and Manila Bay stakeholders and in consultation with project Components B and C.</td>
<td>2015</td>
</tr>
<tr>
<td><strong>D2.3</strong> – presentation and adoption of final nutrient reduction strategies integrated with broader water quality objectives for region agreed with DENR</td>
<td>PENDING: Policy forum/stakeholders consultation on nutrient management strategy as recommended during the MBAC meeting of the Supreme Court on the rehabilitation and management of Manila Bay (cross-reference to D.2.1)</td>
<td>PEMSEA in collaboration with DENR</td>
<td>2015</td>
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<tr>
<td><strong>SP-D3</strong> – application in Lake Chilika and Laguna de Bay of an ecosystem health report card on nutrients</td>
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<tr>
<td><strong>Workshop in Lake Chilika</strong> leading to agreement on and production of ecosystem health report card</td>
<td>ON-GOING: 25% complete (Lake Chilika report card)</td>
<td>PEMSEA; Chilika Development Authority, Laguna Lake Development Authority, UPMSI, University of the Philippines in Los Banos, University of Santo Tomas, Bureau of</td>
<td>2015</td>
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<tr>
<td><strong>Report on application of model and overall water quality status of Lake Chilika and adjacent Bay of Bengal</strong></td>
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<tr>
<td><strong>Workshop in Laguna de Bay</strong> to consider and facilitate application of report card model to Lake Laguna in the light of project outcomes from Lake Chilika</td>
<td>• Meeting to determine thresholds • Workshop on scoring and grading • Preparation of draft report</td>
<td></td>
<td>2015</td>
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<tr>
<td>• Conduct of stakeholders consultation</td>
<td>Fisheries and Aquatic Resources, University of Maryland Center for Environmental Science</td>
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<tr>
<td>• Finalization of report card and launching</td>
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<tr>
<td>Management plan for application and implementation of report card and associated indicators, including incorporation into nutrient reduction strategies for Manila Bay watershed</td>
<td>• Workshop to develop management plan for implementation and sustaining the reporting mechanism</td>
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<tr>
<td>SP-D4: Lessons drawn for replication and up-scaling</td>
<td>Report with recommendations. Workshop</td>
<td>PENDING: Workshop to discuss the replication and upscaling strategy and lessons learned</td>
<td>UNEP/GPA in conjunction with IOC/UNESCO and other project partners</td>
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### Components E & F: Effective project co-ordination, management and oversight

<table>
<thead>
<tr>
<th>Activity</th>
<th>Status</th>
<th>Responsible Party</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Project Steering Committee Meeting</td>
<td>Initiate planning; confirm venue</td>
<td>UNEP/GPA</td>
<td>GPNM to decide</td>
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<tr>
<td>Exit strategy</td>
<td>PENDING</td>
<td>UNEP/GPA</td>
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<td>Quarterly progress reports</td>
<td>ON- GOING</td>
<td>UNEP/GPA</td>
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<td>Financial audit reports</td>
<td>ON- GOING</td>
<td>UNEP/GPA</td>
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<tr>
<td>Annual Progress Report</td>
<td>Look for the last APR</td>
<td>UNEP/GPA</td>
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<tr>
<td>Annual Operating Plan</td>
<td>ON- GOING - Under prep as revised workplan</td>
<td>UNEP/GPA</td>
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<td>Mid-term review</td>
<td>COMPLETE</td>
<td>UNEP GEF</td>
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<td>Co-financing report</td>
<td>was one ever generated?</td>
<td>UNEP/GPA</td>
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<tr>
<td>Project Completion Report</td>
<td>PENDING</td>
<td>UNEP/GPA</td>
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<tr>
<td>Terminal evaluation</td>
<td>PENDING</td>
<td>UNEP GEF</td>
<td>proc ure cons ulta nt</td>
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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).

• **10th 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 8th 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’**

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?: 4th Inter-governmental review of the Global Programme of Action for the projection 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

Update on ‘Towards INMS’ development to the GPNM SC

Mark Sutton, Clare Howard, Will Brownlie
Centre for Ecology & Hydrology, Edinburgh

GPNNM Virtual Steering Group Meeting 1 April 2015

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

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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  - ‘The last 3 years of effort in getting this far have been free!’

Recent Engagement Activities

- 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
- Presentations to European Commission and European Parliament (Nov 2014- Feb 2015)
- Presentation to the OECD Environmental Policy Committee
- 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 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). CEU/UN to cover GPNM chair costs from own budget.
- 10th Annual Meeting of the Task Force on Reactive Nitrogen (TFRN) (28-29 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.
- Finalization of documentation and submission by UNEP to GEF Sec. (Summer)
- Projected launch of "Towards INMS" at the 8th International Waters Conference (IWC) (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.

Forward look to 2016 key meetings

- 2016 April 4-8: OECD Environment Ministers Conference. Final status and theme still under discussion.
- 2016 June: Environment for Europe (E&F) ministerial conference of the UN-ECE (North America, Europe, Caucasus and Central Asia).
- 2016 Autumn: 4th 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

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 website 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 London would be useful to partners to determine how partners might be involved.
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).

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

2 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