



YSLME

UNDP/GEF Yellow Sea
Large Marine Ecosystem

3rd Interim Commission Council Meeting

12-14 MARCH 2019 • QINGDAO, PR CHINA

YSLME 2019 Workplan



Background

The budget of UNDP/GEF YSLME Phase II Project totals **US\$ 7,562,430**.

There is still a balance of **US\$ 4,750,239**.

In accordance to the approved extension plan, this amount is programed in Workplan for 2019.

To help understand the project workplan of 2019, the following tables are annexed:

- a. Annex I: YSLME Phase II Project Expenditure and Balance (US dollars);
- b. Annex II: Subcontracts, PCAs and Grants;
- c. Annex III: Events;
- d. Annex IV: Calendar of YSLME events;
- e. Annex V: list of Consultants onboard and to be hired;

The Secretariat has also prepared the event organizer, procurement plan and recruitment plan to illustrate the steps and the number of days needed for each step in accordance with the UNOPS procurement and recruitment manuals.

Recommendations

The Secretariat recommends that the 3rd Meeting of the MSTP/ICC:

1. **Review** and **assess** whether it is realistic to complete the workplan 2019;
2. **Approve** the workplan 2019 taking into consideration of the decisions made in other sessions of the present meeting;
3. **Request** the PMO to implement the workplan for 2019 and closely monitor the delivery of outputs by PCA partners, subcontractors, grantees and consultants in collaboration with the NWGs and RWGs;
4. **Request** the PMO to organize and schedule, in consultation with the Chairs of RWGs, a series of webinars, online meetings, desk review with deadlines and other means to apply quality control of submitted deliverables;
5. **Request** the PMO to update UNDP, National Coordinators, members of RWGs and NWGs, subcontractors and consultants, on a monthly basis, the progress in implementation of the events organization plan, procurement plan and recruitment plan;

6. **Request** the PMO to register and escalate implementation risks and issues within one week of their capture to UNOPS and UNDP for guidance and solutions, who will then notify MNR of PR China and MOFA of RO Korea if actions from their sides are needed to mitigate the risks and resolve the pending issues;
7. **Invite** YSLME partners to collaborate with the PMO in organizing, financing and conducting workshops, trainings and study visits planned in 2019; and
8. **Request** the Secretariat to prepare the status of implementation of the approved workplan for 2019 in the 4th Meeting of the Interim YSLME Commission Council.



UNDP/GEF YSLME Phase II Project Workplan 2019





COMPONENT 1. Ensuring Sustainable Regional and National Cooperation for Ecosystem based Management, Based on Strengthened Institutional Structures and Improved Knowledge for Decision Making

EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES
<p>Component 1: Ensuring sustainable regional and national cooperation for ecosystem based management, based on strengthened institutional structures and improved knowledge for decision making</p>	
<p>OUTCOME 1.1 Regional governance structure, the YSLME Commission established and functional, based on strengthened partnerships & regional co-ordination; wider stakeholder participation and enhanced public awareness.</p> <p>End of Project Target (2019):</p> <p>1) Functioning YSLME Commission, indicated by: (1) MOU or Joint Declaration signed on establishment of the YSLME Commission; (2) TDA and SAP revised and adopted as a subsidiary document of the MOU or joint Declaration;</p> <p>2) Rules of Procedure of YSLME Commission prepared and agreed among participating countries and partners.</p> <p>3) two ICCs and proceedings;</p> <p>4) 3rd YSLME Science Conference conducted back to back with SAP update workshop</p>	<p>Output 1.1.1 Regional agreement to establish the YSLME Commission, Management, Science and Technical Panel (MSTP) and Regional Working Group (RWGs); national and regional policies drafted and implemented</p> <p>Activity 1: Updating YSLME TDA and SAP (2020-2030) with participation of YS partnership members, and 3rd Science Conference</p> <p>Activity 2: Consultancy for review of existing bilateral and multilateral collaboration on YSLME and recommendation for an innovative regional ocean governance mechanism for YSLME;</p> <p>Activity 3: Conduct 3rd and 4th meetings of MSTP/ICC, and publish proceedings of meetings</p>

EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES
<p>Component 1: Ensuring sustainable regional and national cooperation for ecosystem based management, based on strengthened institutional structures and improved knowledge for decision making</p>	
<p>OUTCOME 1.2 improved inter-sectoral coordination and collaboration at the national level, based on more effective IMCCs</p> <p>End of project target: (2019)</p> <p>1) Participation of Ministries in the IMCC will include Ministry of Foreign Affairs, Ministry of Finance, ministry of ocean & fishery and relevant ministries</p> <p>2) At least two meetings of IMCC and functioning coordination</p> <p>3) NSAP implementation reports prepared and distributed in Interim Commission Council meetings</p>	<p>Output 1.2.1 National level agreements regarding ecosystem-based management actions, policies, regulations and standards promulgated, as appropriate</p> <p>Activity 1. Assemble data to review implementation progress of National SAP in line with YSLME SAP performance indicators and project indicators and publish report</p>

* ongoing PCA with NMEMC

EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES
<p>Component 1: Ensuring sustainable regional and national cooperation for ecosystem based management, based on strengthened institutional structures and improved knowledge for decision making</p>	
<p>OUTCOME 1.3 Wider participation in SAP implementation fostered through capacity building and public awareness, based on strengthened Yellow Sea Partnership and wider stakeholder participation; improved environmental awareness; enhanced capacity to implement ecosystem-based management</p> <p>End of project target:</p> <ol style="list-style-type: none"> 1) 40 MOUs and/or other collaborative arrangements with global, regional, national or local partners for capacity development, advocacy, knowledge management and programming for implementation of YSLME SAP in line with the goals of the YSLME Partnerships 2) at least 10 training activities with at least 200 professionals and officials 3) at least 15 public awareness initiatives organized <p>Targets for 2019</p> <ol style="list-style-type: none"> 1) information portal designed and project website operationalized; 2) Communication strategy refined and communication guidelines for grant programs distributed; 3) one regional training workshop on ocean governance; 4) legal clearing house set up and information portal established 	<p>Output 1.3.1 Agreements with partners on overall environment co-operation and management, relevant fishery management, marine habitat conservation and pollution reduction, at both national and regional levels; cross sector partnerships established and operational</p> <p>Activity 1. Design, establish, maintain and support an interactive YSLME Partnership portal with functionalities of helpdesk, search, partner website linkage, component integration, virtual EBM-LME academy in English, Chinese and Korean languages</p> <p>Output 1.3.2 National public awareness in support of YSLME SAP achieved; data and information collected; jointly managed databases developed, publicly accessible information for implementing management plans at the regional, national and local levels</p> <p>Activity 1: implementation of YSLME Communication and Awareness Raising Strategy of public awareness and participation and conduct activities that lead to raising awareness of YSLME status and actions/behavior change among target stakeholders and visibility of YSLME</p>

EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES
Component 1: Ensuring sustainable regional and national cooperation for ecosystem based management, based on strengthened institutional structures and improved knowledge for decision making	
	Output 1.3.3 Transfer lessons, experiences and best practices between the local demonstration sites
	Activity 1. Exchange national and local government officials/experts for cross- learning of experiences sharing
	Output 1.3.4 Training of at least 10 stakeholder groups on public participation on relevant management actions, in particular on fishery management, marine habitat conservation and economic assessment
	Activity 1: Conduct of one regional training workshops in collaboration with partners to strengthen capacity in compliance with UNCLOS and other ocean-related laws, public participation

EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES
<p>Component 1: Ensuring sustainable regional and national cooperation for ecosystem based management, based on strengthened institutional structures and improved knowledge for decision making</p>	
<p>OUTCOME 1.4 Improved compliance with regional and international treaties, agreements, and guidelines</p> <p>End of project targets: (2019)</p> <ol style="list-style-type: none"> 1) Code of Conduct for Responsible Fisheries adapted as regional guidelines agreed by China and RO Korea 2) national guidelines to implement regional guidelines 	<p>Outputs 1.4.1 Enhanced national and regional legal instruments to comply with regional & global treaties, agreements and guidelines</p> <p>Activity 1. Develop regional guidelines for incorporating Code of Conduct for Responsible Fisheries in YSLME context.</p> <p>Activity 2. Technical assistance to develop national standards and management measures to comply with regional guidelines of Code of Conduct for Responsible Fisheries, and trainings.</p>
<p>OUTCOME 1.5 Sustainable financing for regional collaboration on ecosystem-based management secured, based on cost-efficient and ecologically-effective actions</p> <p>End of project targets:</p> <ol style="list-style-type: none"> 1) financing agreement between and among countries agreed to fully support the YSLME for at least 5 years 2) terminal evaluation conducted by UNDP and audit conducted by UNOPS 	<p>Outputs 1.5.1 Periodic economic assessments of costs and ecological effectiveness</p> <p>Activity 1. terminal evaluation and project audit</p>

* ongoing PCA with YSFRI



COMPONENT 2. Improving Ecosystem Carrying Capacity with Respect to Provisioning Services

EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES
COMPONENT 2. IMPROVING ECOSYSTEM CARRYING CAPACITY WITH RESPECT TO PROVISIONING SERVICES	
<p>OUTCOME 2.1 Recovery of depleted fish stocks as shown by increasing mean trophic level</p> <p>End of project target:</p> <ol style="list-style-type: none"> 1) 10% reduction in fishing boats in YS; 2) livelihoods of affected fisher folks maintained at pre-buy-back scheme level or increased at 2 demonstration sites <p>Targets in 2019</p> <ol style="list-style-type: none"> 1) social safeguards review report of fishing boat buyback scheme and alternative livelihoods options recommendations made; 2) 250 fishermen trained of the reemployment skills and with 90 percent of reemployment 	<p>Output 2.1.1 Reduction of fishing by around 10% in demonstration sites through e.g. boat buy-back scheme over the duration of the project</p> <p>Activity 1. Assess socio-economic implications of buy-back schemes at two demonstration sites (one site each in China and RO Korea)</p> <p>Activity 2. Livelihood support and education to increase re-employment for displaced fishermen.</p> <p>Activity 3. Assess effectiveness of license system (legal and policy adequacy, institutional capacity, individual capacity, availability of capacity, fish landing over years) and recommendations for improvement of licensing system</p>

*PCA to be issued to Yantai University

* PCA to be issued to YSFRI

EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES
COMPONENT 2. IMPROVING ECOSYSTEM CARRYING CAPACITY WITH RESPECT TO PROVISIONING SERVICES	
<p>OUTCOME 2.2 Enhanced fish stocks through re- stocking and habitat improvement</p> <p>End of project target:</p> <p>1) 5% improvements in standing stock and CPUE in 3 demo sites;</p> <p>2) future management decisions on restocking based on effectiveness</p> <p>Targets in 2019</p> <p>1) assessment report prepared on fish restocking including replanting, gear selectivity and artificial reef and buy-back scheme and closure in time;</p> <p>2) marine ranching and gear management experiences shared across sites through two study visits;</p>	<p>Output 2.2.1 Science-based management of fisheries</p> <p>Activity 1: Technical assistance to improve techniques of replanting of sea grass/macroalgae</p> <p>Activity 2. study visit to improve techniques of artificial reefs construction and placement</p> <p>Activity 3. Monitoring of implementation results in three demo sites</p> <p>Activity 4: joint assessment of the effectiveness of closure and buy-back scheme</p>

* PCA to be issued to YSFRI

EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES
COMPONENT 2. IMPROVING ECOSYSTEM CARRYING CAPACITY WITH RESPECT TO PROVISIONING SERVICES	
<p>OUTCOME 2.3: Enhanced and sustainable mariculture production, by increasing production per unit area as means to ease pressure on capture fisheries</p> <p>End of project target:</p> <p>1) 5% reduction of contaminants and nutrients from mariculture in demo sites;</p> <p>2) 10% increase in production per unit area;</p> <p>Targets in 2019</p> <p>1) IMTA training module in English and Chinese prepared and published;</p> <p>2) one regional training course on IMTA conducted and proceeding prepared;</p> <p>3) IMTA promotion plan in Shandong prepared;</p> <p>4) GAP of IMTA developed;</p> <p>5) IMTA system in three demonstration sites constructed and monitoring equipment generate first reports;</p>	<p>Output 2.3.1 Widespread practice of sustainable mariculture, where appropriate, increasing productivity and reducing pollution.</p>
	<p>Activity 1. Develop GAP for IMTA</p>
	<p>Activity 2: survey of coastal areas suitable for operation of IMTA, and economic analysis of benefits for replication of IMTA in Shandong.</p>
	<p>Activity 3. Develop plan to promote IMTA in Shandong</p>
	<p>Output 2.3.2 Adoption of integrated multi-trophic aquaculture (IMTA) where appropriate</p>
	<p>Activity 1: Conduct IMTA training workshop</p>
<p>Activity 2: support to demonstrate IMTA in three sites</p>	

* PCA to be issued to YSFRI



COMPONENT 3. Improving Ecosystem Carrying Regulating and Cultural Services

EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES
COMPONENT 3. IMPROVING ECOSYSTEM CARRYING REGULATING AND CULTURAL SERVICES	
<p>OUTCOME 3.1 Ecosystem health improved through a reduction in pollutant discharge (e.g. nutrients) from land-based sources</p> <p>End of Project Target: 1) 10 percent reduction in N discharge every 5 years;</p> <p>Targets of 2019 1) agreed pollution monitoring guideline and monitoring network and harmonized methodologies; 2) loading reports of Haizhou Bay; 3) reports on status and production of maps of selected pollutants from sea-based, atmospheric and land-based sources agreed between the two countries</p>	<p>Output 3.1.1 Reduced pollutant levels by enforcement and control in demonstration sites</p> <p>Activity 1. Establish regional pollution monitoring guideline, environmental quality standards and network based on any existing ones: harmonize regional methodology and update regional monitoring guideline including for emerging contaminants.</p> <p>Activity 2. Support to apply modelling & calculate nutrient loading in hot spots/ critical habitats: 1 pilot sites in China and 1 sites in RO Korea;</p>

*PCA with NMEMC

EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES
COMPONENT 3. IMPROVING ECOSYSTEM CARRYING REGULATING AND CULTURAL SERVICES	
	<p data-bbox="942 319 1812 429">Output 3.1.2 Enhanced data and information sharing regarding sources and sinks of contaminants</p> <p data-bbox="942 429 1812 625">Activity 1: Diagnostic analysis of ID sources & sinks of pollutants, review available data & info, report environmental status and trends of Yellow Sea, and identify gaps and explore mechanisms for data and information sharing between the two countries</p> <p data-bbox="942 625 1812 743">Activity 2. Support for monitoring and acquisition of data for sharing on pollutants from atm-based sources</p> <p data-bbox="942 743 1812 862">Activity 3. Support for monitoring and data acquisition for sharing on fertilizer use</p> <p data-bbox="942 862 1812 981">Activity 4. Support for monitoring and data acquisition for sharing from sea-based sources</p> <p data-bbox="942 981 1812 1093">Activity 5: support production of data products of yellow sea agreed by two countries</p>

*PCA with NMEMC

EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES
COMPONENT 3. IMPROVING ECOSYSTEM CARRYING REGULATING AND CULTURAL SERVICES	
<p>OUTCOME 3.2 Wider application of pollution- reduction techniques piloted at demonstration sites</p> <p>End of project target: 1) 1 nutrient reduction demonstration project invested by 1 local government using wetland regulating services;</p> <p>Targets in 2019 1) completion of regional strategy of using wetland as nutrient sinks and synthesis of good practices of using wetland regulating services to rehabilitate river basin and coastal environments 2) integrated survey report of wetland ecosystem of Jiaozhou Bay of Qingdao</p>	<p>Output 3.2.1. New and innovative techniques for pollution reduction (e.g. artificial wetlands and habitats) applied at demonstration sites</p> <p>Activity 1. Synthesize good practices and develop regional strategy for using wetlands as nutrient sink</p> <p>Activity 2: integrated environmental planning for Jiaozhou Bay of Qingdao</p>
<p>OUTCOME 3.3 Strengthened legal and regulatory processes to control pollution</p> <p>End of project target: 1) harmonized national and provincial legislation to improve coastal water quality in Shandong, Jiangsu and Liaoning Provinces</p> <p>Targets in 2019 1) number of new provincial regulations to improve water quality on microplastics at national and in coastal provinces 2) training module on microplastic assessment 3) training on microplastics organized;</p>	<p>Output 3.3.1 Strengthened legal instruments and better regulatory processes to control pollution</p> <p>Activity 1. review of policies and regulations in China and RO Korea dealing with pollution control and assess compliance with UNCLOS, the Future We Want, multi-lateral environmental agreements and programmes ratified by both countries, and prioritize legal and regulatory reforms in both countries</p> <p>Activity 2. preparation of training modules and conduct of training in application of SOP of microplastics monitoring and assessment</p> <p>Activity 3. support to develop regulatory measures for marine litter monitoring, disposal, handling, reuse, recycle in Weihai to enable investment on recycling economies.</p>

EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES
COMPONENT 3. IMPROVING ECOSYSTEM CARRYING REGULATING AND CULTURAL SERVICES	
<p>OUTCOME 3.4 Marine litter controlled at selected locations</p> <p>End of project target:</p> <p>1) established regional survey report of marine litter and significant reduction of quantity of marine litter at selected beach locations</p> <p>Targets in 2019</p> <p>1) report on marine litter status in coastal areas of YS published</p> <p>2) demonstration of marine litter reduction through grant programs in Shandong, Jiangsu and Lianing provinces</p>	<p>Output 3.4.1 Procedures in place to control and remove marine litter at demonstration sites</p> <p>Activity 1. Regional review of existing policies and regulations regarding solid waste disposal as well as technologies for reducing production including recycling opportunities</p> <p>Activity 2. Develop & test monitoring (early warning) system, and conduct a regional baseline survey of marine litter in collaboration with other relevant organizations</p> <p>Activity 3. support to establish YSLME Clean Beach City Alliance</p>

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COMPONENT 4. Improving Ecosystem Carrying Capacity with Respect to Supporting Services

EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES
COMPONENT 4. IMPROVING ECOSYSTEM CARRYING CAPACITY WITH RESPECT TO SUPPORTING SERVICES	
<p>OUTCOME 4.1 Maintenance of current habitats and the monitoring and mitigation of the impacts of reclamation</p> <p>End of project target:</p> <ol style="list-style-type: none"> 1) areas of critical habitats maintained at baseline level 2) impact of reclamation prepared in 2 demo sites; <p>Targets in 2019</p> <ol style="list-style-type: none"> 1) consensus reached on YSLME Biodiversity Conservation Plan: habitat, species, priorities and actions; 2) regional guidelines for assessment of effectiveness and impact of coastal habitat restoration projects developed and agreed; 3) proposals on integration of coastal management priority areas and targets into land and sea use plans of national and local levels 	<p>Output 4.1.1 Agreement at all levels to implement the relevant management actions to regulate new coastal zone reclamation projects</p> <p>Activity 1. Conduct rapid assessment of coastal and marine habitats and species of critical global and regional significance and prepare the YSLME Biodiversity Conservation Plan in implementation of CBD, Ramsar and other conventions</p> <p>Activity 2: Identify approved reclamation up to 2015 in each country, and any further reclamation from 2016</p> <p>Activity 3: Harmonize valuation methodologies, standards, and guidelines for evaluation of the effectiveness and impact of ecosystem-based restoration project</p> <p>Activity 4. Develop strategies and governance mechanisms to achieve regional habitat and species targets at 2 demonstration sites, including assessment of impacts of modifications of areas of critical habitats and monitoring the effectiveness of management plans.</p> <p>Activity 5. Regional evaluation of implementation of CBD and RAMSAR convention and country reports within the YSLME</p>

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EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES
COMPONENT 4. IMPROVING ECOSYSTEM CARRYING CAPACITY WITH RESPECT TO SUPPORTING SERVICES	
<p>OUTCOME 4.2: MPA Network strengthened in the Yellow Sea</p> <p>End of project target:</p> <p>1) the planned expansion of the MPA system currently does take into account ecological connectivity</p> <p>2) increase of total coastal and marine areas under MPAs to 3%.</p> <p>Targets in 2019</p> <p>1) overlays produced and YSLME MPA network proposed;</p> <p>2) one training workshop organized and conducted;</p> <p>3) new MPAs are proposed and boundaries defined, new boundaries of existing MPAs proposed, and area-based conservation measures proposed.</p>	<p>Output 4.2.1 MPA networks strengthened in the YSLME</p> <p>Activity 1. Analysis of country coastal management guidelines, identification of conservation areas according to planning zones</p> <p>Activity 2: Survey and produce overlays to analyze gaps and conservation needs of critical species and habitats (i.e. seal, migratory birds, fish spawning and nursery, cold water mass, etc.) and make recommendations on new MPAs</p> <p>Activity 3: Conduct 1 regional training seminar focusing on enhancing connectivity in MPA network</p> <p>Activity 5: Spotted seals connectivity satellite tracking monitoring/ endangered migratory birds and MPA network strengthening for increased connectivity and effectiveness in selected MPAs</p>

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EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES
COMPONENT 4. IMPROVING ECOSYSTEM CARRYING CAPACITY WITH RESPECT TO SUPPORTING SERVICES	
<p>OUTCOME 4.3: Adaptive Management mainstreamed to enhance the resilience of the YSLME and reduce the vulnerability of coastal communities to climate change impacts on ecosystem processes and other threats identified in the TDA and SAP</p> <p>End of project target:</p> <ol style="list-style-type: none"> 1) CC adaptation incorporated in regional strategies in response to changing characteristics of YSCWM and structured plankton communities 2) 1 coastal ICM model framework plans in coastal provinces and cities incorporate CC adaptation to improve climate resilience 3) study report on seasonality and inter-annual variability of the floating Sargassum horneri in western Yellow Sea and recommendations <p>Targets in 2019</p> <ol style="list-style-type: none"> 1) Assessment report of climate change impact on coastal communities and ecosystem services; 2) Synthesis report of climate change effect on ecosystems 3) One coastal city or province adopts or integrate climate adaptation into sectoral and/or development plans; 	<p>Output 4.3.1 Regional strategies adopted and goals agreed; site-based Integrated Coastal Management (ICM) plans enhancing climate resilience, in place for selected sites in YSLME; conservation areas and habitats for migratory species identified</p> <p>Activity 1: Stock-taking of vulnerabilities of coastal communities and ecosystem services in YSLME to impact of climate change</p> <p>Activity 2: monitoring and studies of relationships between the changes in sea surface temperature and characteristics of YSCWM and structure of plankton communities and development of regional strategy for adaptive management</p> <p>Activity 3: Develop CC adaptation ICM model framework plan or strategic framework plan for 1 coastal city or province</p> <p>Activity 4: Study on seasonality and inter-annual variability of the floating Sargassum horneri in western Yellow Sea</p>

*PCA with FIO

EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES
COMPONENT 4. IMPROVING ECOSYSTEM CARRYING CAPACITY WITH RESPECT TO SUPPORTING SERVICES	
<p>OUTCOME 4.4 Application of ecosystem-based community management (EBCM) preparing risk management plans to address climate variability and coastal disasters</p> <p>End of project targets:</p> <p>1) agreed number of cruises and parameters for the regional monitoring network established and data shared regionally via the project website</p> <p>2) regular LME-wide assessments; enhanced information exchange; periodic scenarios of ecosystem change</p> <p>Targets in 2019</p> <p>1) SGP launched and first and second group of projects awarded and completed within the year;</p> <p>2) regional strategies for ecosystem forecast, modelling and scenario analysis agreed;</p> <p>3) data products generated from regional monitoring shared via project website;</p>	<p>Output 4.4.1 Public awareness of Yellow Sea environmental problems enhanced; strong local support for and awareness of demonstration activities</p>
	<p>Activity 1. Implement the SGP and conduct M&E, communication and other management activities.</p>
	<p>Output 4.4.2 Established monitoring network; regular basin-wide assessments; enhanced information exchange; periodic scenarios of ecosystem change; allocation of 1% of project budget for IWLEARN activities</p>
	<p>Activity 1. Make regional assessment (including trend of introduced species in the region) and make policy-relevant recommendations</p>
	<p>Activity 2. Create regional jellyfish monitoring program: Create regional committee to coordinate monitoring, assessment and data sharing,</p>
<p>Activity 3. Create regional HAB (including macro- algae) monitoring program: Create regional committee to coordinate monitoring, assessment and data sharing. Combine with jellyfish committee develop national and regional monitoring methodologies of HAB;</p>	

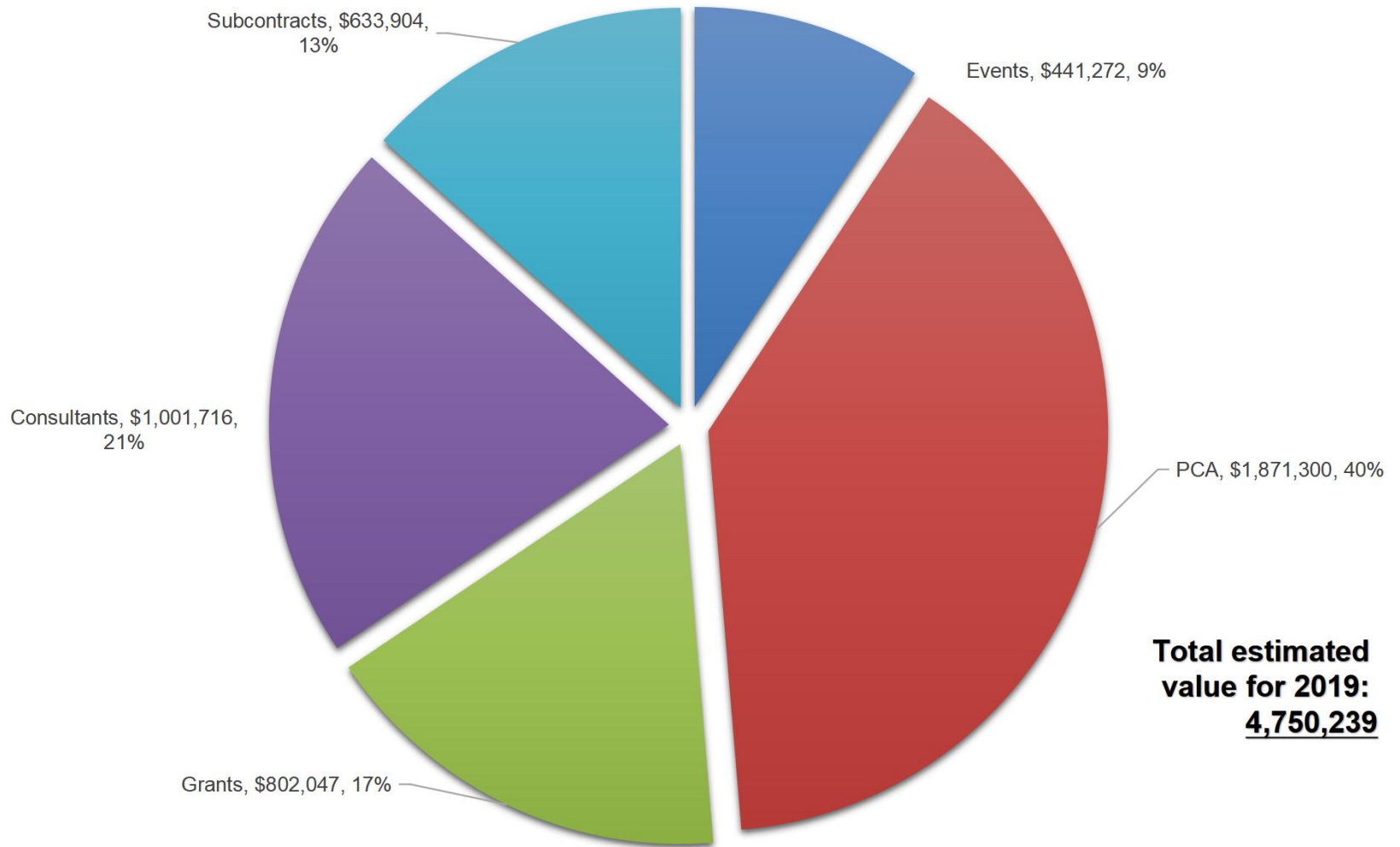
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EXPECTED OUTPUTS/OUTCOMES INDICATORS	PLANNED ACTIVITIES
COMPONENT 4. IMPROVING ECOSYSTEM CARRYING CAPACITY WITH RESPECT TO SUPPORTING SERVICES	
	<p data-bbox="952 564 1760 672">Activity 4. Establish a comprehensive regional monitoring system: Develop regional monitoring strategies for N/P/Si changes, climate change, jellyfish blooms, and HAB</p> <p data-bbox="952 722 1804 831">Activity 5. Publish training modules IMTA, MPA networking and synergizing implementation of environmental treaties and agreements using EBM approach in LME</p>

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Annex I: YSLME Phase II Project Expenditure and Balance for 2019 (US dollars)

Component/ Atlas Activity	2014 exp	2015 exp	2016 exp	2017 exp	2018 exp	2019 budget	Total Revised Budget	ProDoc budget	Variance of budget revision	Change in percentage
Component 1	-	220,128	75,441	31,983	377,664	1,013,763	1,718,978	1,970,043	-251,065	-12.74
Component 2	-	1,590	4	381,135	857,271	707,168	1,947,167	1,437,606	509,561	35.45
Component 3	-	1,469	10,382	550	-	806,019	818,420	1,155,411	-336,991	-29.17
Component 4	-	5,072	4	100,387	139,805	2,187,682	2,432,950	2,621,370	-188,420	-7.19
Project Management	33,392	8,620	83,605	89,854	393,836	35,607	644,914	378,000	266,914	70.61
Total	33,392	236,878	169,436	603,909	1,768,576	4,750,239	7,562,430	7,562,430	0	0.00



Calendar of YSLME events in 2019



Groups involved	YSLME EVENTS in 2019										
	Q1			Q2			Q3			Q4	
	January	February	March	April	May	June	July	August	September	October	November
MSTP/ICC			3rd MSTP-ICC Qingdao, PRC 12-14 March						4th MSTP-ICC Incheon, ROK 9 – 11 September		
RWG-A											
RWG-F				Marine ranching exchange visits PRC 17-19 April		Marine ranching exchange visits ROK 11-13 June					
RWG-G							3rd Science Conference/ Workshop on YSLME TDA-SAP update with DPRK participation Harbin, PRC 23-25 July			Regional training workshops to strengthen capacity in compliance with UNCLOS Jeju, ROK 4-6 November	
RWG-H											
RWG-M					IMTA training Rongcheng, PRC 27-29 May (Confirmed)						
RWG-P						Training workshop in application of SOP of microplastics monitoring and assessment Dalian, PRC 17-19 June					