Input #3 - Global and Regional Programmes							
	To what extent did your global programme /regional subsidiary body implement the IOC Capacity Development Strategy 2015-2021?	What is your global programme /regional subsidiary body experience so far with the current IOC CD strategy?	Have you, as global programme /regional subsidiary body, experienced any difficulty in implementing the current IOC CD strategy?		5. Are there any elements that you, as global programme /regional subsidiary body, want to propose as additional components in the revision of the IOC CD strategy? Please justify.	How should the IOC CD strategy contribute to the Decade and its implementation plan?	7. What are the most important global ocean science developmen in addition to the UN Decade of Ocean Science for Sustainable Development that the updated IOC CD strategy should recognize and respond to?
AMP	Some capacity-building activities were carried out on many topics, such as Tsunami, Harmful Algae, SPINCAM among others.	My experience is that there must be more commitments from countries and institutions as a state strategy/policy, which is not currently being carried out by 100%.		The gaps are support as a country, interest on the part of decision-making and institutions as such.	Hold meetings with decision makers and explain to them why countries shoul be more energetic and developers of COI guidelines	d The COII develops good guidelines for the development of ocean policies, only depends on the countries that must seriously follow these guidelines as compliance.	In my view all the guidelines of ocean policies are important, it depends on a country which is the one it needs most or better within its internal ocean priorities or policies.
CG/CARIBE EWS	We have implemented Activity 1.2 Continuos professional development, through training courses and workshops of Isunami warning procedures and sea level (Action 1.2.1)  Also, the connections established between professionals during those courses and workshops led sometimes to internship and visiting lecturers. (Action 1.2.2 and 1.2.3)  In the Caribbean, INVEMAR (Cartagena, Colombia) acts as training center (Action 1.2.4). However, so far it hasn't hosted any training organized by ICG/GARIBE-EWS.  Training materials have been widely shared inside and outside the region, through the Caribbean Tsunami Warning Program (CTWP) and the Puerto Rico Seismic Network (PRSN) and other actors in the region (Action 1.2.5)  Regarding the Activity 1.3, even when a travel grant doesn't exist as such, often the Tsunami Program of IOC designates funding for travel to workshops and training ocurses. (Action 1.3.1)  Also, there is a database on participants on Sea Level courses (Action 1.3.3)  ICG/CARIBE-EWS has always promoted the participation of women in ocean research (Action 1.4.1)  ICG/CARIBE-EWS works closely with IOCARIBE and ICG/PTWS (Action 3.2.1)	ICG/CARIBE-EWS has had a good experience with the IOC CD strategy, despite not being specific in its application.	Funding is always a difficulty regarding CD. Also in the Caribbean region there are only a bunch of ocean sciences professionals and in some cases there is a frequent staff rotation.  However, many professionals that have participated in training courses and workshop have been able to improve their work and get job stability.		Not for now.	It should give priority to SIDS (small island developing states) and LDCs (less developed countries). It should align with the priorities established in the programs in the framework of the Ocean Decade. For example on Tsunami Ready.	Global scientific developments like artificial intelligence and behavioral sciences (that can improve tsunami response)
IOC CARIBE ARUBA	On Aruba we are busy with reorganizing the secretariat of the UNESCO national committee, therefore not much progress can be reported.	See answer 1.	See answer 1.	At this time I don't see any GAPs that need urgent attention.	As part of the Human resources development, I would suggest to have online regional training/workshops for the IOCARIBE focal points, this in order to bring forward IOC programs and ideas better forward.	In my view is this addressed already in the 6 outputs in the framework.	I would recommend focusing more on Visibility and awareness especially through ocean literacy.
ICG/PTWS	Increased regional communication by sharing and using information, enhanced knowledge in/use of ocean sciences (of relevance), and collaborating on developing sustainable ocean mornitoring systems.	Mainly in the sharing science, expertise and knowledge, technology and infrastructure, effective communication, data/information sharing.	No, however please see response to question 4 below.	Risks to strategy implementation outside of our control i.e. Covid-19. Our success is in regional collaboration and Member State sharing. Some outputs of the strategy may not have been fully explored or hindered due to the global pandemic.	N/A	Promoting development & implementation of integrated monitoring & warning systems (weather, sea level, seismic, tsunami) - regionally and globally. Understanding the needs of the end user (public) and use this information to build an effective, efficient and reliable monitoring and warning system.	Next-generation monitoring and forecasting (e.g. cables, satellite, etc) for all ocean hazards and risks.
ICG/NEAMTW S	Human resource development including higher education and continuous professional development are mainly carried at country level through respective Universities, organizations, Tsunami Sarche Providers, and National Tsunami Warning Centre, as well as at Cell Proceedings Agencies However, there is no centrally recognized established centre to support ICG/NEAMTWS on human resource development in Isunamis, Isunami scence and suramie and mitigation systems. The NEAMTIC needs to be resourced and appropriately staffed to develop and incina as a Training and Capacity Building Centre similar to other ICGs. NEAMTIC or similar mechanisms would then support for example the Tsunami Ready Communities programme in NEAM region.  One of the greatest achievements of ICG/NEAMTWS in regards to High, Level Objective -III "Effective early warning systems and preparedness for sunamis and other occan related hazards" and physical infrastructure established in provinced is the establishment and accretion of the sunamis service providers in France, Greece, Italy, Turkey and Portugal. Along with these centres a number of NTWCs (National Tsunami Warning Centres) east namely in providers in France, Greece, Italy, Turkey and Portugal. Along with these centres a number of NTWCs (National Tsunami Warning Centres) east namely in improve early warning and early acid not not need the Stunamis. Following the established mind a sustain a denser and faster ocean observation network, dissemination and communication system capacity to improve early varning and early acid not not need felt stunamis.  Following the establishment of the five accredited TSPs and NTWC, the ICG/NEAMTWS is now starting to explore how to further strengthen global, regional and sub-regional mechanisms e.g. UNDRR program in the region, the European Plate Observing System (EPOS), and the Joint Research Center of the European Commission, UNESCO Field Offices, etc.  To this end, the focus of research ICG/NEAMTWS has focused mainly on the science of Issuami and Tsunami Early War	CD strategylframework among IGGINEAMTWS Member States. The framework is not necessarily a tool experts use to guide and implement CD.	Olffculty in implementing the strategy arises from the lack of Sustained (Inoq-term) recourse mobilization for achilities related in the member states and resources to participate in the IOC achildres; moreover, there is no continuous funding for tsunami research in EU.  There is a clear need to improve interoperability among the Tsunami Service providers to reduce inconsistencies between tsunami warning messages.  Progress should be made to understand the interaction of tsunami hazards with climate change and sea level change.  Progress still needed to integrate non-seismic events, such as tsunami induced by volcanoes, landsilides and meteo-tsunamis in the operational TWS.  What are the possible gaps that you, as global programme /regional subsidiarly body, have identified in the current IOC CD Strategy, particularly taking into account the Decade objectives and expected outcomes?  N/A (not discussed in the framework of the ICG-NEAMTWS)	N/A (not discussed in the framework of the ICG-NEAMTWS)	NO (to answer this question in a different way I think we need to consult the ICG-NEAM members)	In terms of TEWS but not only, IOC should continuously foster basin wide cooperation namely between NEAM and Carbibbean and Indian and Pacific keeping in mind global cooperation.  IOC should promote the interoperable crowd data to be used in different fields of ocean science IOC should promote citizen science (scientific work undertaken by members of the general public, often in collaboration with or under the direction of professional scientists and scientific institutions). IOC should reference of professional scientists and scientific institutions). IOC should	observatories to be used in Tsunami Early Warning (to attach seismometers and bottom pressure recorders and other sensors to the submarine telecommunication repeaters/cables) The use of constellations of altimetry satellites for tsunami detection. The use of Machine Learning and data mining tools for quality control of