

CBSC14 - Abu Dhabi (UAE) - May 2016

Background - Context

- Revision of the IHO CB strategy
- Offers new perspective for CB projects and funding opportunities
- MOWCA-IHO-EAtHC workshop on hydrography (Pointe-Noire, nov 2013)
 - Emphasing on the need of a specific approach for capacity building project
 - Regional approach (mutualisation)
 - Comprehensive (i.e training, practising equipment, organization)

Background - Context

- CBSC12 (France, May14)
 - ➤ proposal of a definition study for a comprehensive CB Project has been submitted by FR and approved by CBSC for CBWP 2015

To define how to conduct and implement a consistent set of actions to develop hydrography in West and Central Africa.



Overall approach

ANALYSIS

- → EAtHC
 Archives
- → SWOT
- → Visits, interviews

REGIONAL HYDRO CAPABILITY BUILD-UP

- → Education & training
- → Equipment & Maintenance
- Organization & Governance

IMPLEMENTATION

- → Roadmap/Action plan
- → Implementation Strategies
- Fundraising
- → Recommendations

REGIONAL CB PROGRAMME



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EAtHC archives, On site Visits

EAtHC archives review

- > Coastal States awareness status knowledge
- > Older regional initiatives:
- West African Action Team reports (2001-2002)
- Former CHARMER, CACAO regional projects (2000's)

On site visits

- Narrowed sample of EAtHC coastal States to visit
- 2 non-IHO MS: 1 francophone (CI), 1 anglophone (GH)
- 1 IHO EAtHC MS: Nigeria
- Visits to Cote d'ivoire (Sept 2015)

Visit to Ghana incl. Nigeria (March 2016)

ADB Group workshop (Paris, Ap



SWOT Analysis: Internal Factors

STRENGTHS (ORGANIZATION)

- → IHO standards and Publications and bodies.
- →IHO capacity building strategy and funds.

WEAKNESSES (ORGANIZATION)

- → IHO member-centric CB initiatives,
- → De facto transfer of African States' SOLAS obligations to European states,
- HO unawareness from African high level decision makers (Low proportion of African coastal States in IHO membership/political leverage from IHO African coastal states representatives),
- → Lack of Regional integration to address CB issues.



SWOT Analysis: External Factors

OPPORTUNITIES (ENVIRONMENT)

- bodies on maritime safety issues (MOWCA-IHO organizations' thematic, MoU on safety of maritime navigation),
- → African development assistance funding sources,
- → Perspectives of Africa's Blue Economy growth,
- → Global awareness on climate change and environmental resilience,
- → Rapid advances of ICTs (information and communication technologies),
- **→**Existence of recognized regional maritime educational centres and universities.
- → Development of the use of satellite data

THREATS (ENVIRONMENT)

- Awareness of the African Union and regional \(\rightarrow\)'Blue World' matters vs. International funding
 - Governance and integration of Regional bodies (Piracy & illegal trafficking growth Multiplicity of maritime geospatial data holders).





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Hydrographic Capacity Definition



Hydrographic Capacity Build-up

Education & Training

Equipment & Maintenance

Organization & Governance

Hydrographic Capacity



	Education & Training	Equipment & maintenance	Governance & organization
Surveying	Surveyors/OperatorsElectronic expertsIT experts	Deployable EquipmentSoftware/CPUTide/GPS stations	R/N FrameworkConsolidatedprocedures
Charting	 Cartographers (Land?) MSI experts SDB experts IT experts 	SoftwareDatabase, IT network.	Chart production plan (iaw PCA)Consolidated procedures
MSDI	GIS expertsIT experts	IT infrastructureGIS tools/web portal	Marine Geospatial Data Policy Portal hosting and management
Expertise	Maritime boundariesSurvey specificationsMSP	Software/CPUDatabase, IT network.	Connection with other admin/bodies
Structure	Local tutors (MOOC)Local trainers	Maintenance frameworkFacilities	R/N SurveyProgrammeMSI organization

Education & training

- E-learning courses
- → Awareness thematic >> Expertise thematic
- → Supported by tutor network >> local tutoring
- Roving courses
- → 'Blended' F2F/MOOC sessions
- → Training of local trainers
- → Synchronized with the provision of deployable equipment pool
- Locally based courses:
- → Role of regional maritime academies (ARSTM)
- → Integration in existing courses
 - >> Creation of dedicated cour
- → Basic training >> Skill I



Equipment & maintenance

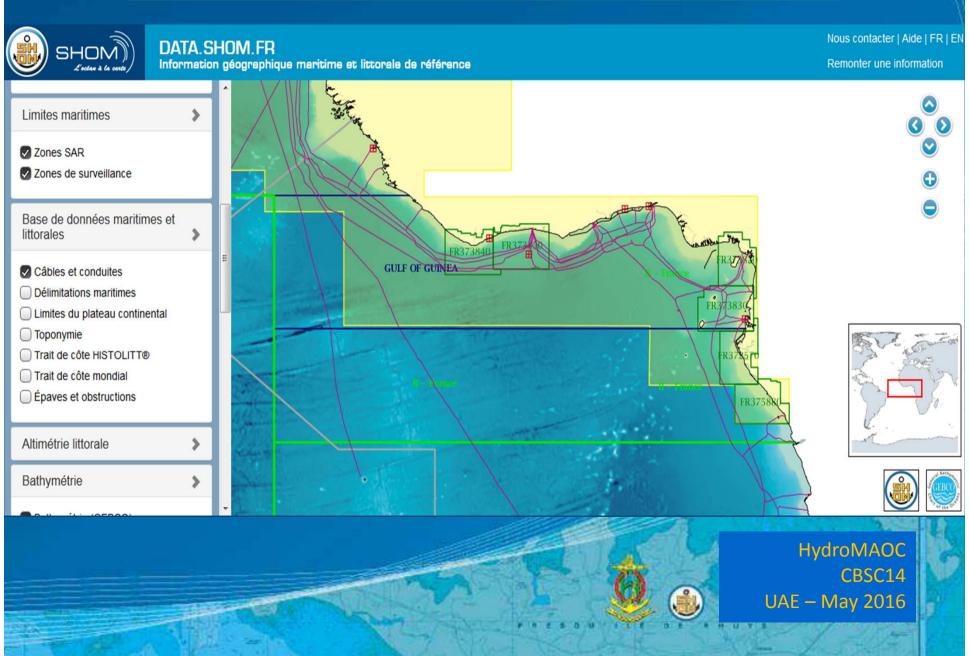
- E-learning material (MOOC)
- → Based on IHO certified courses >> unique reference
- → Large spectra: Awareness >> Technical
- → MOOC platform management + maintenance
- Regional Maritime Geospatial GIS tool
- → Based on existing maritime geospatial data
- → Collaborative web services, Regional MSI portal role
- → Management/Maintenance: remote >> local

Potential local host: MOWCA's CINFOCOM (Abidjan)

- Survey/Charting equipment
- Synchronized with training phase
- Assistance Maintenance framew



Access to Maritime Geospatial Data



Governance & Organization

- Regional hydrographic assessment study
- → Past survey effort inventory
- → SDB regional assessment
- Region survey programme (RSP)
- → Development of a regional multi-criteria algorithm
- → Issue of a regional survey programme based on algorithm results
- → Provision of initial guidance for implementation
- Provision of consolidated procedures
- → Synchronized with training and equipment provision
- Covering MSI, survey acquisition and moduction HydroMAOC CBSC14

 UAE May 2016

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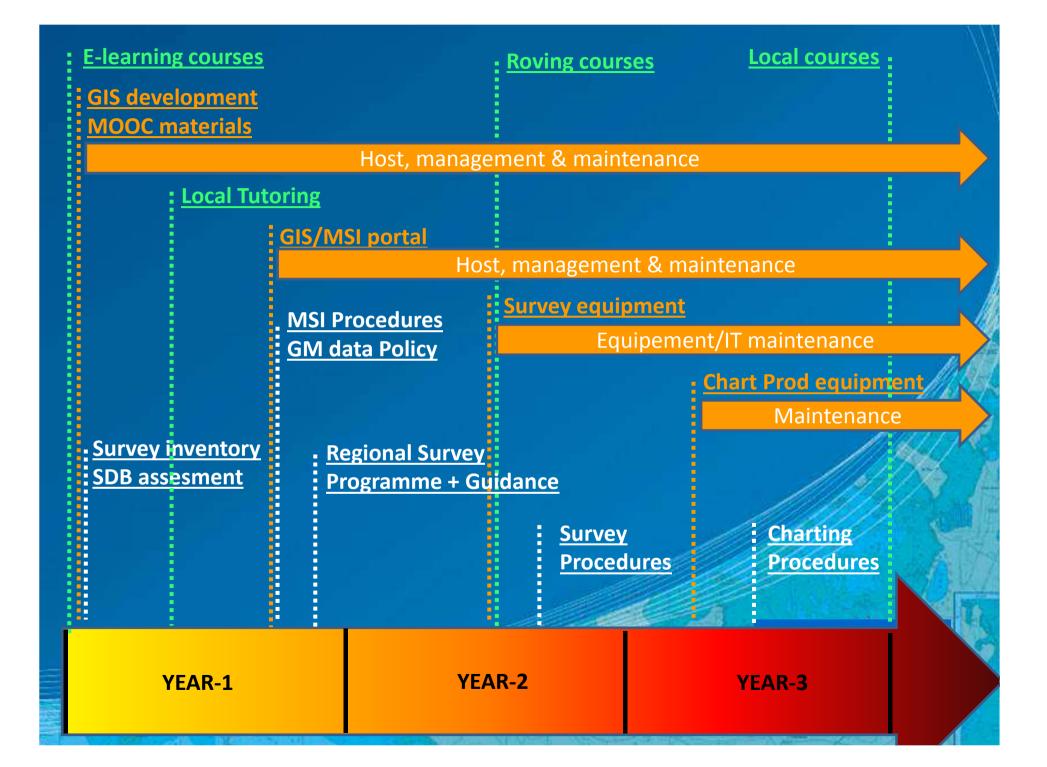
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Potential risks

The estimated cost of that regional hydrographic capacity:

10-15 Millions Euros (€)

- The inconsistency of the learning approach;
- Thematic choice, MOOC pedagogic approach, apprenticeship
- → E-learning economic model
- The sustainability of the equipment pool;
- → Wise choice of equipment and tools
- → Synchronization between provision and training
- → IT/electronics expert training considered
- → Maintenance framework (lease? loan?).
- Implementation of a regional survey programme
- → Survey specifications >> contra



Fundraising

International & regional funders

World Bank, African Development Bank Group, Western African Development Bank, Islamic Development Bank, European Union (EDF), IHO, IMO, UN.

National funders

AFD (FR), UK Trade & Investment (UK), AICEP (PT), Chinese Development Bank (CN), EAtHC coastal State

Corporate and private funders

Oil and Gaz, Maritime transport & infrastructures Hydrographic Industry, Marine renewable energy



Implementation strategies (1/2)

- Regional implementation
- → Funding: International/regional
- → Implementation in regional/national integration policy & strategy documents
- → Requires support from coastal States
- → Long term strategy (ADB's RIPoS = 10 years!)
- National implementation
- → Funding: International/regional/national
- → Target high potential coastal States
- 'Snowball effect' leverage



Implementation strategies (2/2)

- Thematic implementation
- → <u>Funding</u>: International/regional/national
- → Identify 'maritime' areas of concern

 Blue Economy, Maritime Safety, State action at sea,

 Environment
- Connect them with hydrographic related projects Blue Economy: Marine Renewable energy site study

Maritime Safety: Maritime highways

Environment: Sea level observation network

State action at sea: MSP, maritime beautiones



What's next?

- <u>Promote</u> the concept of a comprehensive CB project to high level political deciders/international regional bodies/potential funders
- Improve the consideration of maritime issues in International funders policies & strategies
- <u>Support</u> E-learning resources development to improve access to awareness and practical topics
- Build-up a E-learning economic model to generate some revenues and reduce costs.
- Harmonize African RHC's CB programmes



