



End-to-End Marine and Coastal Data Management and Decision Support.



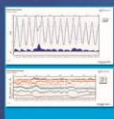
Intelligent Marine
and Coastal Mapping Data



Data Policy, Strategy
and Management Systems



Enterprise GIS
and Productivity Tools



Environmental Data
Sharing and Publishing



Capacity Building,
Training and Mentoring

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IHO Capacity Building Training **Database Design, Data Management & MSDI**

John Pepper

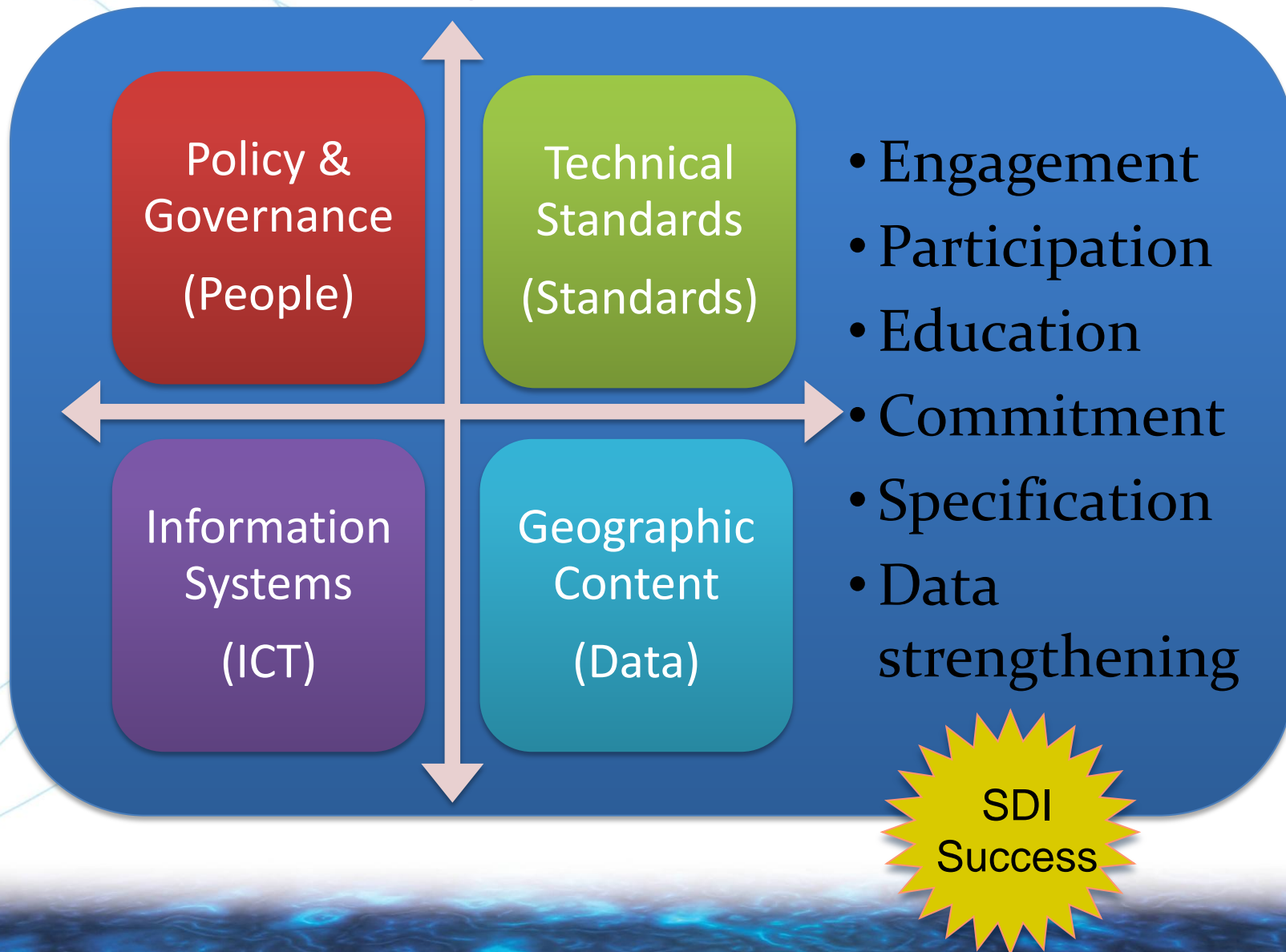
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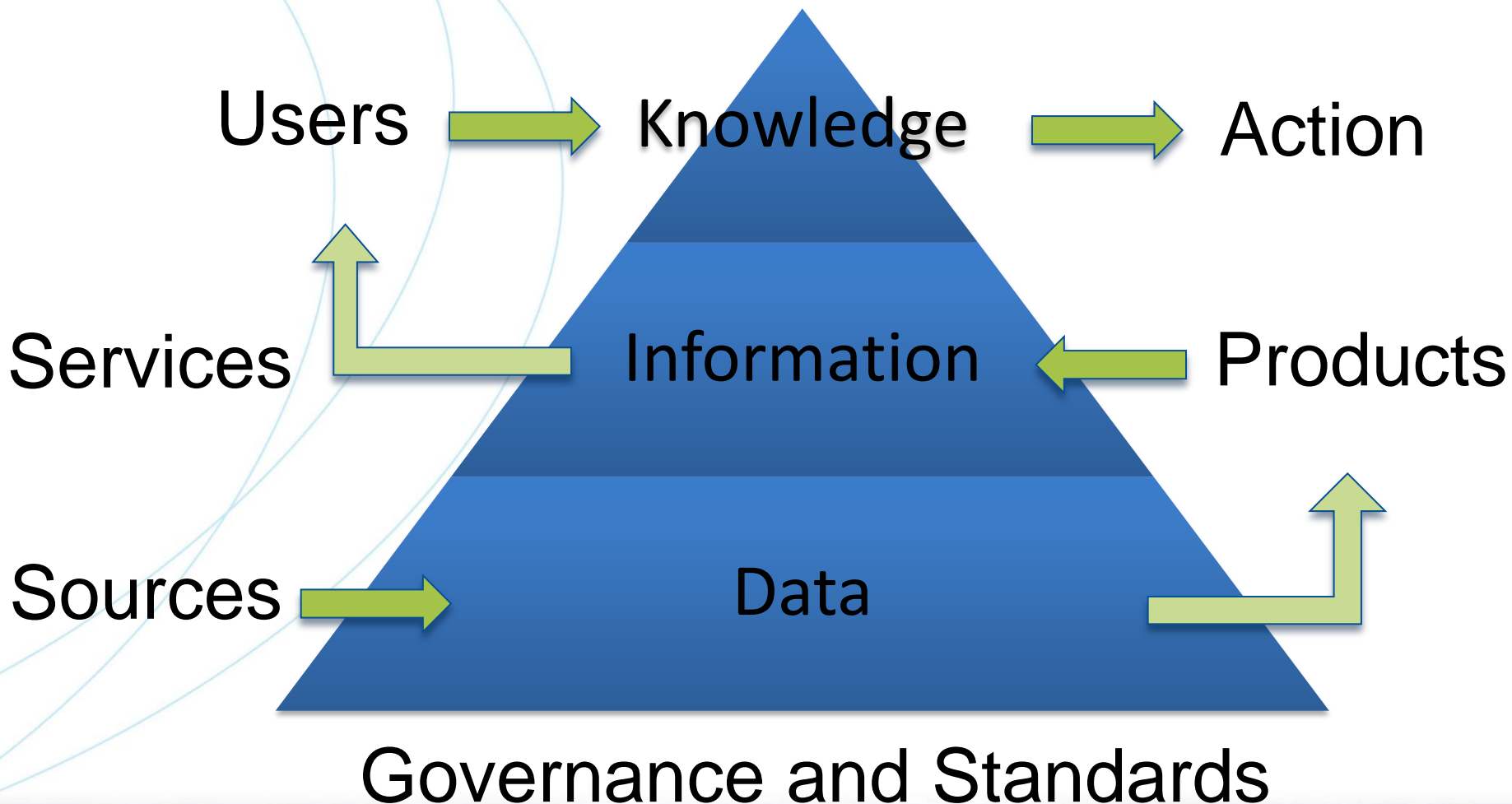
Background

- November 2006 -John Pepper (UKHO)and Mike Osborne (SeaZone Solutions) MSDI Discussion Paper to IHO President
- May 2007 - MSDI resolution presented and endorsed at XVIIth IHC
- October 2007 - MSDIWG formed (JP as Chair)
- April 2008 – MSDIWG undertakes extensive research of MS to canvass knowledge and understanding of MSDI
- March 2009 - Publication C-17 Ed 1: *“Spatial Infrastructures -The Marine Dimension - Guidance for Hydrographic Offices”* issued (updated Feb 2011)
- May 2010 - White Paper published by Paul Cooper (Caris), John Pepper and Mike Osborne
- 2009-2012 MSDIWG is moribund
- Feb 2014 –MSDIWG Meeting No 5 discusses MSDI Training future needs

Components of SDI



Data - Information - Knowledge



Delivering Capacity Building Training

- CB 5-day Training Syllabus – *“Database Design, Data Management and MSDI for Practitioners”* developed by OceanWise in 2010 -11
- Delivered 5-day Training Courses:
 - EAHC – Bangkok June 2011
 - NIOHC & SAIHC - Colombo Feb 2012
 - EAHC - Incheon Nov 2012
 - SWAtHC - Rio de Janeiro Dec 2012
 - EHC – Singapore Oct 2013

Delivering Capacity Building Training

- 2 day MSDI for Managers Course developed
- 1 day Director/Senior Management MSDI Briefing programme devised for EAHC in 2014
- 5-day course supported by GIS vendors Caris or Esri Inc.
- *5 day Practitioner and 2-day Management Training Courses delivered in GCS, Riyadh in Dec 2013 (but not part of CB programme)*

Who are our students?

- Hydrographic Surveyors
- Nautical Cartographers
- Oceanographers
- Data Managers
- Database Administrators
- IT Specialists
- Middle Managers

What the Students said

- MSDI and Data Management is very important to HO's
- The Training is stimulating
- Language can be a problem (need to translate into Spanish and Portugese)
- Practical sessions and group work exercises considered very important and beneficial
- Need to go back to their offices and spread the word
- Training at Elementary, Intermediate and Advanced level would be advantageous

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Lessons Learnt

Lessons Learnt from Training (1)

- Courses well received by ALL students and sponsor RHC's
- 80+ students successfully completed training so far
- Social interaction across student cohorts is good
- All students passed Written Assessment (80% achieved >80%)
- Course Evaluation from students has been very good (measured against 10 criteria – see next slide)

But students consistently state that...

- Effective Data Management is critical to operations of HO's
- Follow up training is rarely happening back at HO's
- There is a need for framework of CPD to support ALL training
- Line / Senior Management does not understand MSDI and so do not support investment in it!

Lessons Learnt from Training (2)

1. Subject matter is new to most students with levels of understanding generally low (with a few exceptions)
2. The level of instruction is appropriate to student needs
3. The pace of instruction is appropriate to student needs
4. Time allocated for instruction is adequate
5. The sequence of instruction is logical
6. Balance between theory and practical is about right
7. Students left feeling more confident in their understanding
8. Equipment and facilities provided are suitable for student needs
9. The hand-outs and supporting documents are useful
10. The quality of delivery of instruction is good

Lessons Learnt from Training (3)

- Need to “brief” senior staff/directors in HO’s/RHC’s about the value and benefit of MSDI (Best Practise Data Management)
- Lack of follow up training in HO’s to enable students to put new knowledge into action
- Post-training reporting to IHO is not consistent; sometimes relies on Trainers to provide the response
- Some HO’s are not acting quickly enough to meet Technological Change
- Organisational Culture of HO’s acts as a barrier to successful Change
- MSDI is a vital first principle in GI based industry
- Language can be a problem (translate into Spanish /Portuguese)

Thoughts for the Future

- We need to consider offering MSDI Training to ALL RHC's
- Emergent HO's will get data management "right first time" (as close to source rather than at the product level)
- MSDI supports the wider IHO remit as "Hydrography is far more than just charting"
- MSDI facilitates data sharing/ exchange
- We need to train the Decision makers!
- Hydrographic data must serve a wider user community
- We need to better engage with reluctant HO's to embrace MSDI
- OceanWise remains committed to providing fit-for-purpose training targeted at all levels of expertise and knowledge