

The Lack of Hydrographic Data - Crowd-Sourced Bathymetry -

Survey and charting status 2013 (source: IHO C-55) Unsurveyed or requires better data (0-200m deep) -SW Pacific >95% Polar regions > 95% Caribbean >80% •W. Africa >80% Australia ~ 65% •Greece ~ 65% **USA** ~ 40% •UK ~ 30% •France ~ 19%

Global surveying capacity

 35% <u>reduction</u> in government fleet in 25 years









So, what can we do?

- Raise Awareness
 - States
 - Public
 - Mariners
- More hydrographic capacity building technical cooperation – IHO-IMO-IALA



- Encourage increased data collection
 - Holistic government survey and data gathering programmes
 - Infomar (Ireland)
 - Mareano (Norway)
 - EMODNET (EU)

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"Gathering data for the common good"

Crowd-sourcing programmes using mariners Satellite derived bathymetry

IHO Crowd-Sourced Bathymetry (CSB)

- Low cost high impact
- Commercial programmes exist
- Non commercialIHO led
 - community based
- IHO/PYA initiative

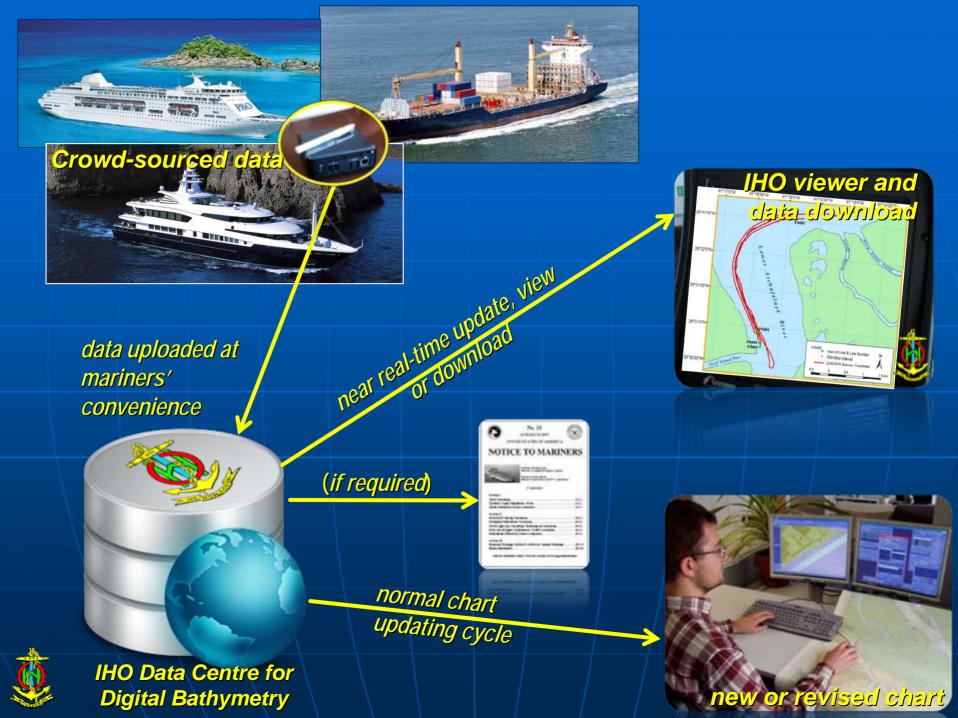
Concept trials starting 2014



Mariners' self-help programme

- Not new
- Not a replacement for surveys
- Issues:
 - Liability ?
 - Quality and reliability ?
- Is some data better than no data ?
- What is the alternative ?!





CSB: Issues to be addressed

- assessing CSB data quality for use in charts
- portraying CSB data in charts
- exposure to liability
 - observers
 - publishers





Higher resolution maps of the Moon and Mars

So, doing nothing is not an option