UNESCO

Current Earth Observation educational, capacity building and awareness raising activity

Small Islands Developing States (SIDS)

UNESCO contact point: Prof. Patrick J Mc Keever - Chief of Section, Global Earth Observation Secretary of the IGCP – UNESCO / Natural Sciences Sector: <u>pi.mckeever@unesco.org</u>

Mr. Yann Gavillot, UNESCO [y.gavillot@unesco.org]

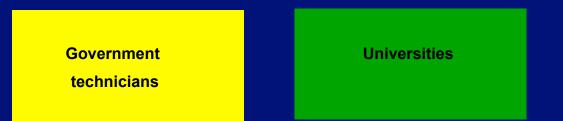
Mario Hernandez, consultant to UNESCO [mariohernandezvaldes@gmail.com]

Using previous expertise

Based on the lessons learnt out of the

UNESCO – ESA Open Initiative on the use of space technologies to support World Heritage sites

Increasing capacity among Government and Universitie

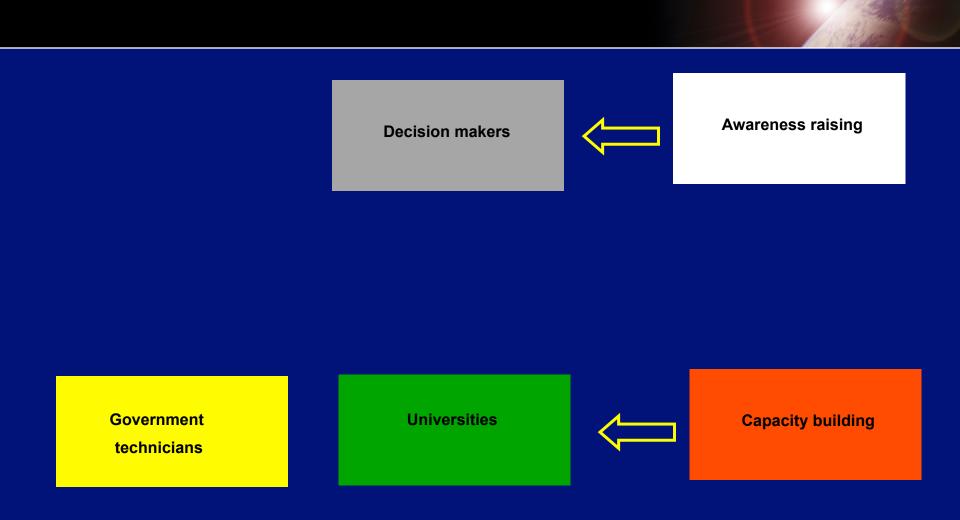




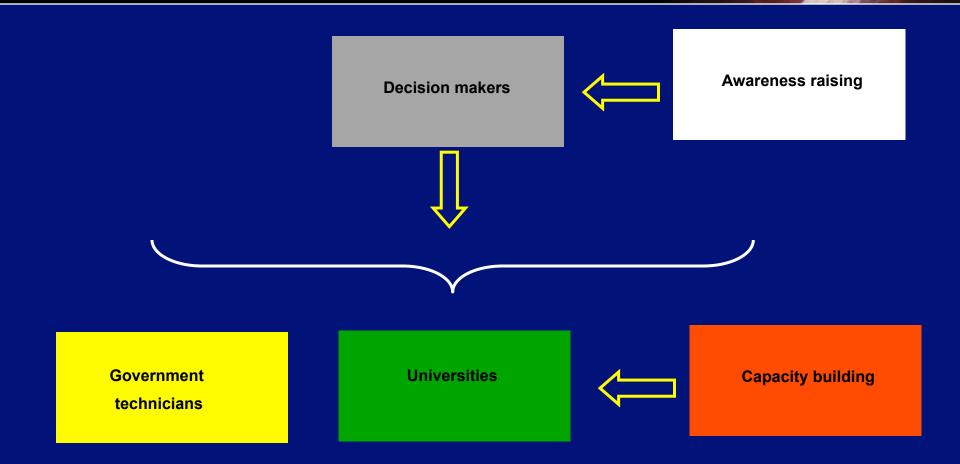
But also raising awareness among decision makers

Decision makers



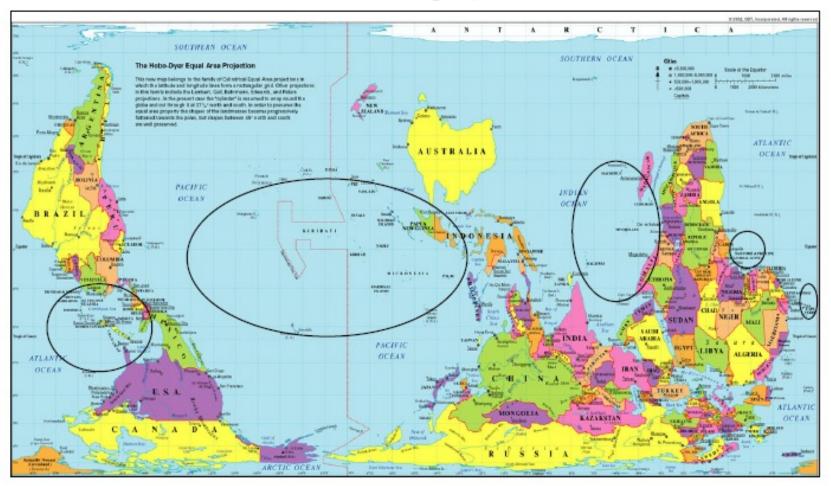


Purpose: to set up the whole national framework



SIDS are 'in the middle of the world'

Map 1: Upside down and Pacific centred world map including the SIDS (circles visualize the SIDS regions)¹



Phase 1: focusing in SIDS Caribbean



Main actors

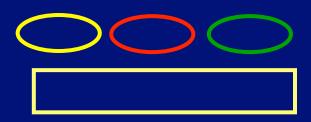


The main concept



Using satellite data to derive a series of 'showcases'

Addressing main threats to SIDS



The main concept



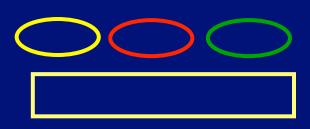
Using satellite data to derive a series of 'showcases'

Addressing main threats to SIDS

Targeting teachers, students

And

showing to decision makers how EO can assist them





Enable users to:

•Retrieve all data and information from the SIDS UNESCO-UniGe initiative

•Add their own data:

Local projects

•Local data

Documents

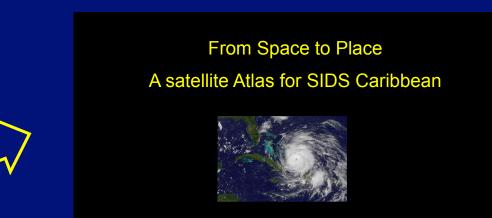
•Pictures

•Maps

A one-point entry for UNESCO + UN activities in SIDS



SIDS web (database) UNESCO - UniGe



Extracting showcases for an Atlas publication





Exhibitions for teachers and schools

(general public)

For each SIDS: a complete satellite mosaic

From Space to Place A satellite Atlas for SIDS Caribbean





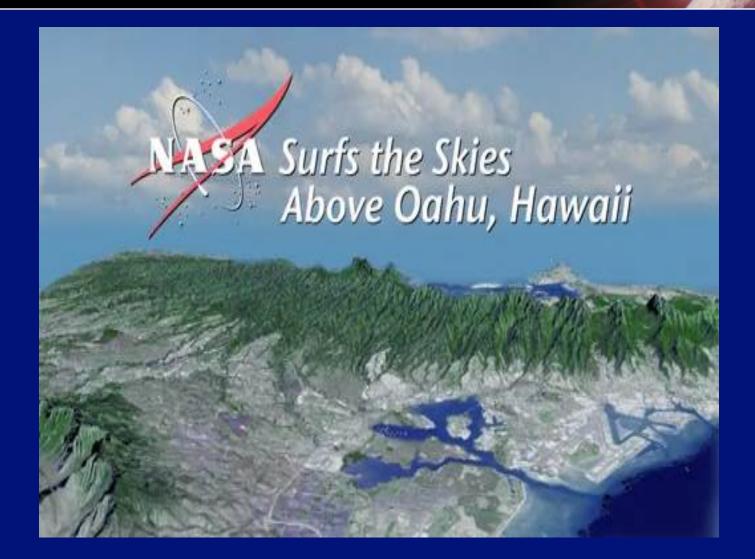
For each SIDS: a complete DEM derived from satellite da

From Space to Place A satellite Atlas for SIDS Caribbean





DEM using ASTER + ASTER topographic data



For each SIDS: one high-res image showing the capital of

From Space to Place A satellite Atlas for SIDS Caribbean





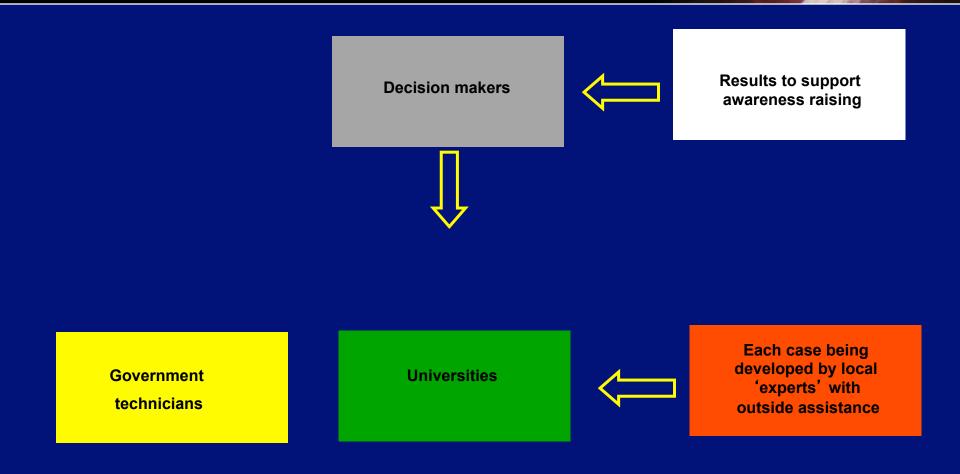
-Elaboration of accurate cartography -Digital Elevation Models -Deforestation -Climate change -Sea level raise -Coral bleaching -Etc -Natural disasters -Hurricanes -Volcanoes -Uncontrolled urban development -Uncontrolled tourism infrastructure development -Severe land use changes: -deforestation -Mangrove destruction (and consequences with hurricanes)

Illustrating the contribution of EO to UNESCO sites

-UNESCO inscribed sites:

- -Natural and Cultural heritage
- -Biosphere reserves
- -Geoparks

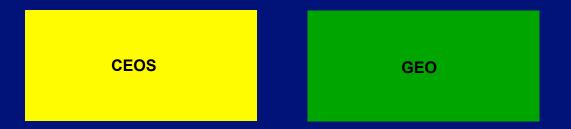
The expected 'loop' for SIDS



We are looking for your partnership to assist us with the development of Interesting EO based showcases for SIDS

How to strengthen the impact of CEOS and GEOS ?

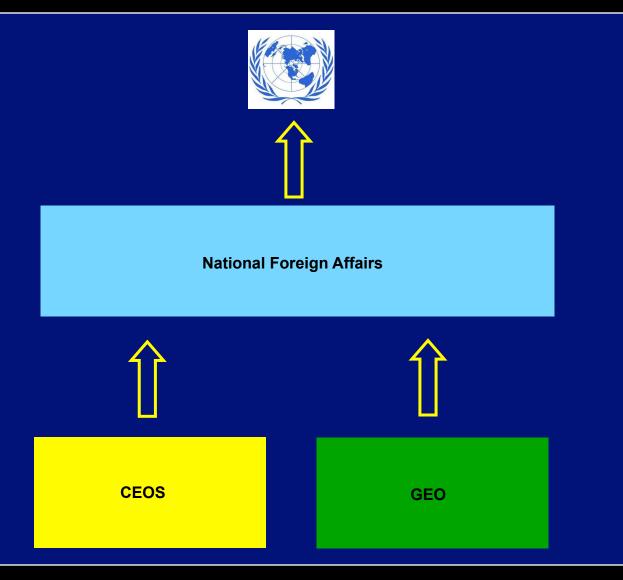
CEOS and GEO are producing excellent results



The message should be passed to your Foreign Affairs

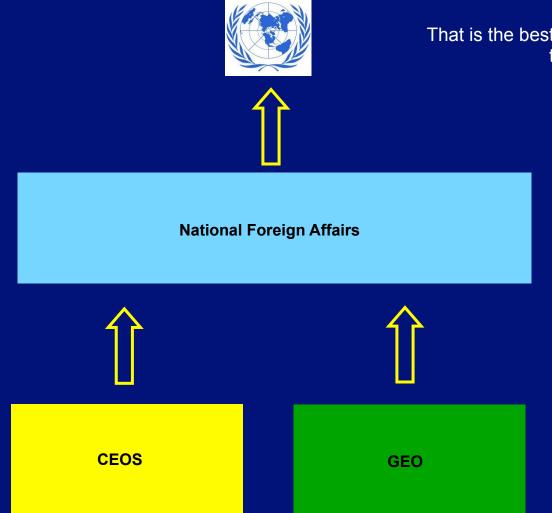


Foreign Affairs should make proposals to the UN different programmes (suggestion to use CEOS and GEO outputs and synergy)



Foreign Affairs should make proposals to the UN different programmes (suggestion to use CEOS and GEO outputs an

synergy)



That is the best way to include these issues in the UN agendas

Can we join forces to develop:

-A single site on Earth (e.g. Machu Picchu) as it is seen by all EO satellites?

[That would significantly assist all training events]