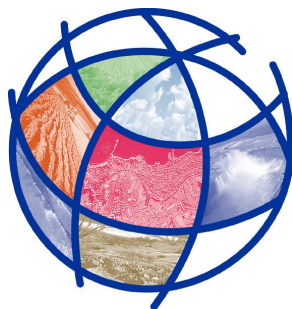


GMES Fast Track Service Land

NARMA user requirements For SATCHMO products and services

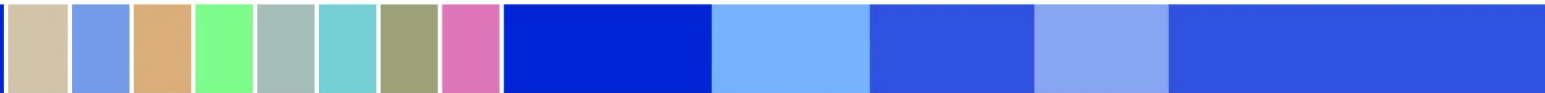
*Andreas Brink, Etienne Bartholomé
Joint Research Centre*



geoland



European Commission Fast Track Service Land within the GMES initiative in FP-7





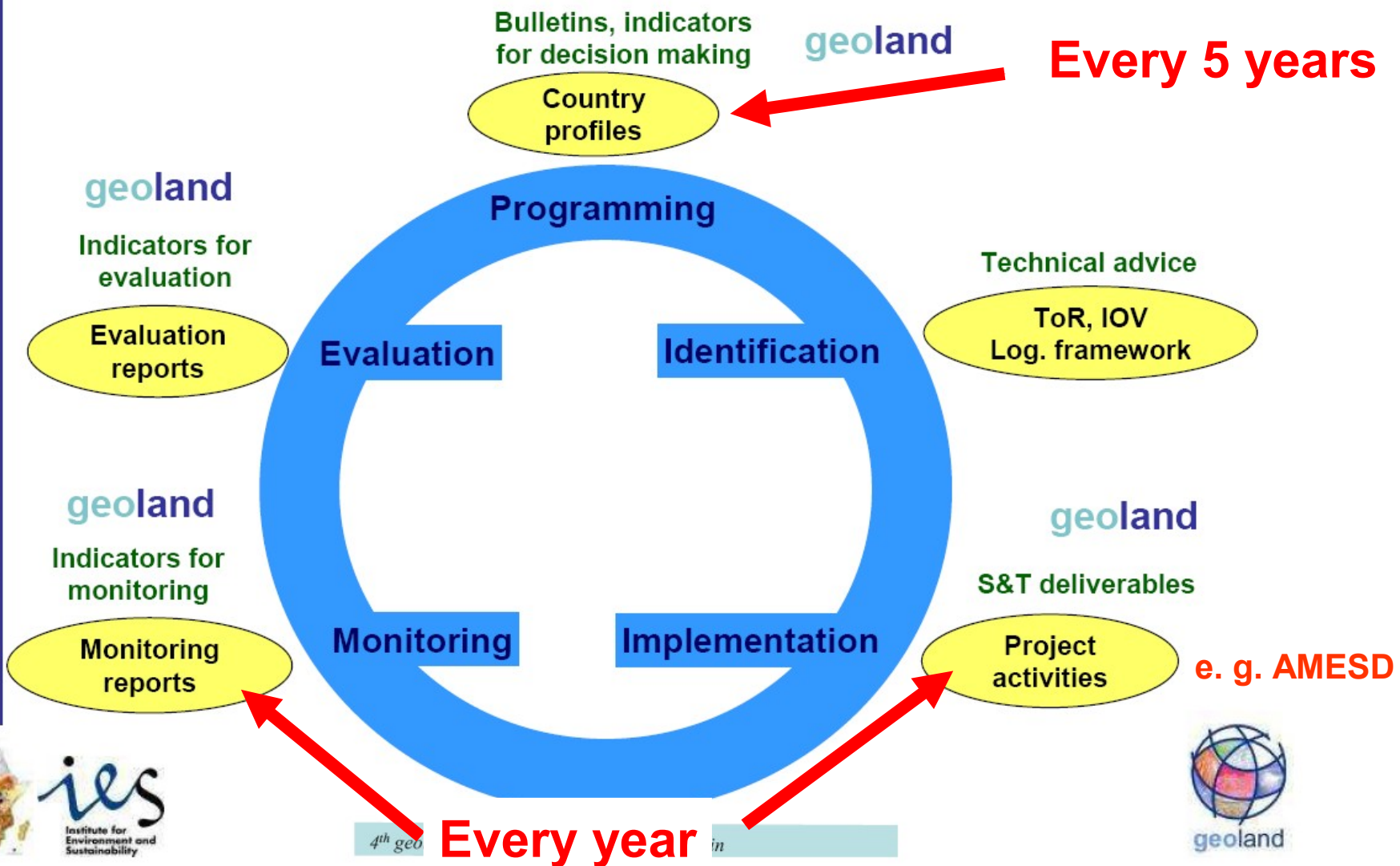
- **EC services (DG DEV, AIDCO & RELEX)**
 - project cycle management

- **African users**
 - identification by AMESD preparatory mission

- **Geographical coverage**
 - Africa South of Sahara (Cotonou agreement partners/EDF)
 - Focus regions according to products
 - Need for information at national level (decision making level for strategic choices & EC funding)

Cycle of the project

Joint Research Centre





Examples of indicators for specific cooperation areas in the environment

Land use (proportion of urban/agricultural/forest land).

Efficiency in natural resources use.

Transboundary Protected Areas (total area, proportion of the border line, quality of the management).

Fragmentation of vulnerable habitats (forests, protected areas) (km crossed).

~~CO₂ emissions per capita~~

Land used by agriculture.

~~Percentage of land area at risk of soil erosion or desertification.~~

Deforestation rate; proportion of land area covered by forest

intensity of use of forest resources.

Intensity of use of land.

Ratio of area protected to maintain biological diversity to surface area (and qualitative indicators/criteria).



1	Land surface indicators of human impact
2	Land surface indicators of climate variability impact
3	Rangeland management <ul style="list-style-type: none">• Pastureland and non agricultural domain in arid to sub-humid regions (wall-to-wall coverage),• local monitoring of protected areas and neighbouring territories
4	Land surface monitoring for water management in large watersheds (i. a. Senegal, Niger, Congo)
5	Land-cover change assessment at national level with special reference to forest, agricultural and pastureland domains
6	Seasonal synthetic bulletin (sub-continental scale)
7	(Alarm for anomalous situation)
8	Multi-annual per-country synthesis (contribution to the “Country Environment Profiles”)



■ In place

- EC services (DG DEV/AIDCO): review/update of the National and Regional Indicative Programmes (A key step in the definition of priorities for co-operation project funding)
- AMESD project (regional priorities TBD)

■ In addition (via other JRC activities)

- FAO: Forest Resource Assessment and Global Land Cover Network
- UNEP: Global and African Environmental Outlooks
- Kyoto protocol
- CBD
- CCD



Seasonal / Annual Land Cover Changes	Continental	VHR/HR Area Framing	Permanent Samples representative for all European and African environmental / ecological conditions for annual statistics and calibration & validation of EUROLAND and BioPar	Europe (VHR) & Sub-Saharan Africa (HR) - continental coverage by local representative samples	SATChMo
		MR Seasonal Land Cover Dynamics	Complete continental coverage with medium resolution seasonal and annual vegetation parameters to support EUROLAND and agricultural monitoring	Europe – Sub-Saharan Africa	



■ High resolution:

- Sampling scheme statistically valid at national level
- Assessment of key LC categories (forest agriculture, irrigated agriculture, rangeland) every 5 years: information provided for each sample, incl. land cover change. With accuracy assessment for each sample

■ Medium resolution

- On an annual basis
- Measurement of LC change (if possible)
- Identification of “hot spots” (for targeted acquisition of HR imagery)



- **Input data for SATCHMO:**

- MR (MERIS) →
- HR (2010)

- **Impact: delay in result provision to NARMA: to be assessed**