

G.A.S

= Gmes Atmospheric services

Let us use GMES for the time being...

GACS stands for GAS Core

About who is giving the talk

What is an IG ?

Many connections already between the GAS IG and GEOMON

I will make it simple...

GMES (evolving) structure overview

GMES **governance:**

EU

+ GAC → board of member states

GMES **bureau** (hosted by DG enterprises & space)

GMES **services** : Marine, Atmosphere, Land, Security..

Ideal service chain :

Core

Downstream

users.

Observation components :

space,

in situ.

Climate "layer" to come

Now focusing on GAS

Services already exist for physical/dynamical atmosphere

→ Field of the GAS: **chemosphere**, including aerosols

Two broad prevailing issues out of 4

Climate evolution

Air quality

"mixed" issue: stratospheric ozone.

more minor issue : solar radiation

Users & services

End users

Interested in international agreements & regulations:
EC, MS

Interested in operational use.

Core services

Deliver **Fields** rather than data: concentrations & fluxes

Forecasts, analyses, reanalyses.

Assets and Clusters

Assets

Paradigm

Natural coordinator ECMWF

(acknowledged by EC communication 2008/11)

Clusters

Input

Global

Regional / continental

Output to users

Important feature of a GMES service

Operational

Operational money

Operational operators

Operational data supply

→ Long term commitment of data providers

→ Quality control etc..

Difficult for ESA,

Difficult for in situ. E.g. what is needed ?

However strong and steady **research** component.

Status

Interim GMES governance being prepared

GAS:

Prepilot projects : GEMS and PROMOTE

Pilot project (preoperational) MACC: June 2009 to October 2011

2011 to 2013: bridging phase issues.

Who pays ?

Core: EC, marginal cost (until discussing computing power)

Space : EC+ESA+, the sentinel projects

In situ : MS; finances & commitment to be negotiated between EC and MS
EEA coordination.

IG: from drafting report to updating & **monitoring** implementation