



Labex DRIHM

Dispositif Interdisciplinaire

Interactions Hommes-Milieux

Directeur : Robert CHENORKIAN

Centre National de la Recherche Scientifique / INS1650 - Institut écologie et environnement (INEE), FR3098 - Ecosystèmes continentaux et risques environnementaux - ECCOREV, USR 3456 - CNRS Guyane, UMR5602 - Géographie de l'environnement (GEODE), UMI3189 - Environnement, Santé, Sociétés (ESS), UPR2147 - Dynamique de l'évolution humaine : individus, populations, espèces, UMR5600 - Environnement, ville, société (EVS)

Man–Environment Observatories (OHM)

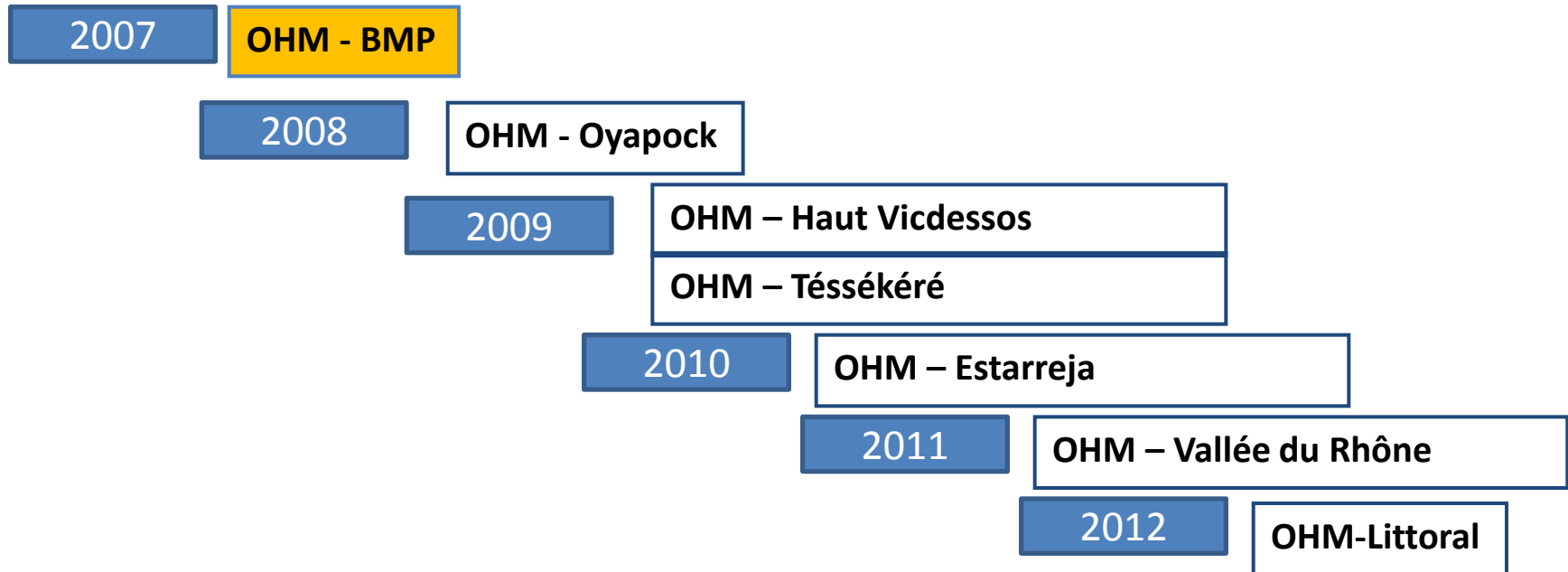
- **Analyse Man-Natural Environment Interactions in situations where change is fast, triggered by some major event, and especially distressing for the environment**
- **Accumulate data to service researchers**

DRIHM: linking the OHMs in a network

- **Sharing research concerns, data and reflections among the OHMs to design a common method**
- **Enhancing and promoting more transdisciplinary approaches**
- **Training young researchers in Man-Environment Interaction research (Theses, Post-docs)**
- **Providing helpful assistance to policy makers**

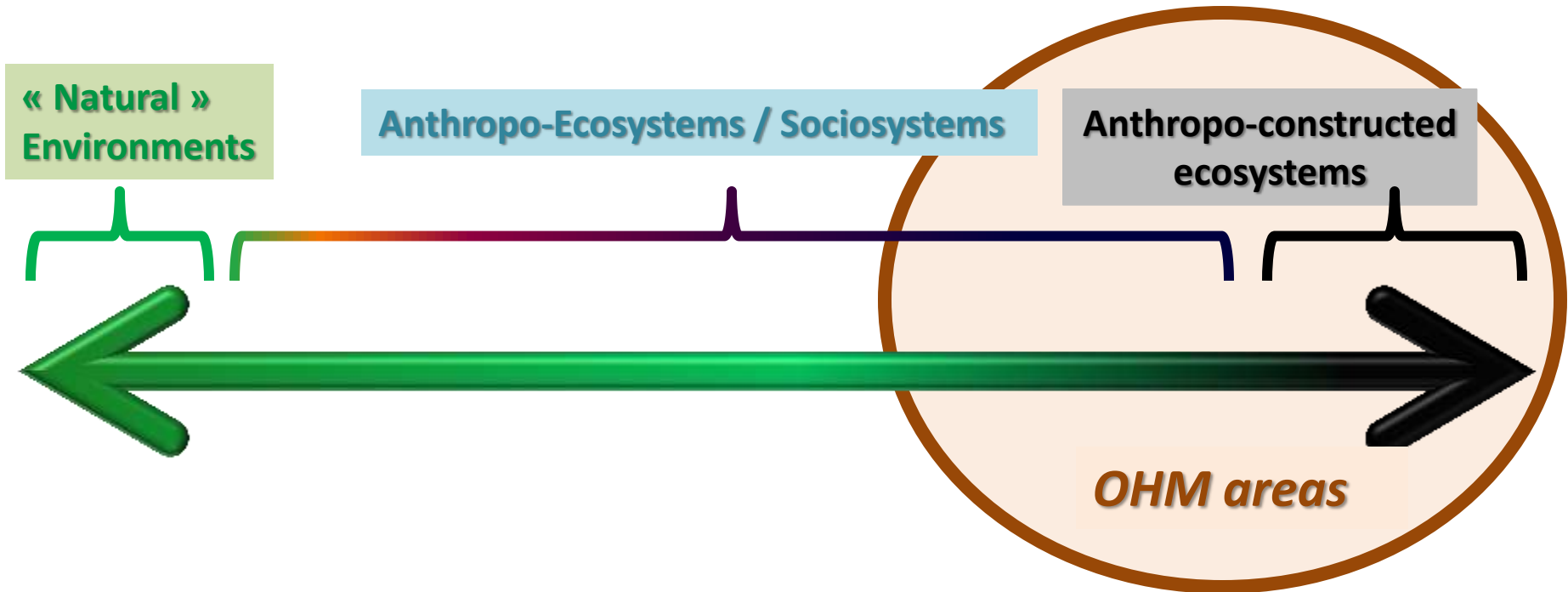
OHM network (ROHM)

Pioneering role of OHM-BMP



Feb 2012 : ROHM is declared LABEX receive a 6M€ endowment

The range of ecosystems



Epistemic Posture

Anthropos makes
decisions

- Constrained decision space
- Resources
- Technology and know how
- Knowledge base
- Informational space
- Intent, purpose
- Rationality

**Information provided
& constraints affected**

Environment : siege of
Physico-biological processes

Biotopes +, Biocenose

- Physico-Bio Variables & parameters
- Static and dynamic relationships

Transfers of Energy

**Modelling
Man-Environment
Interactions**

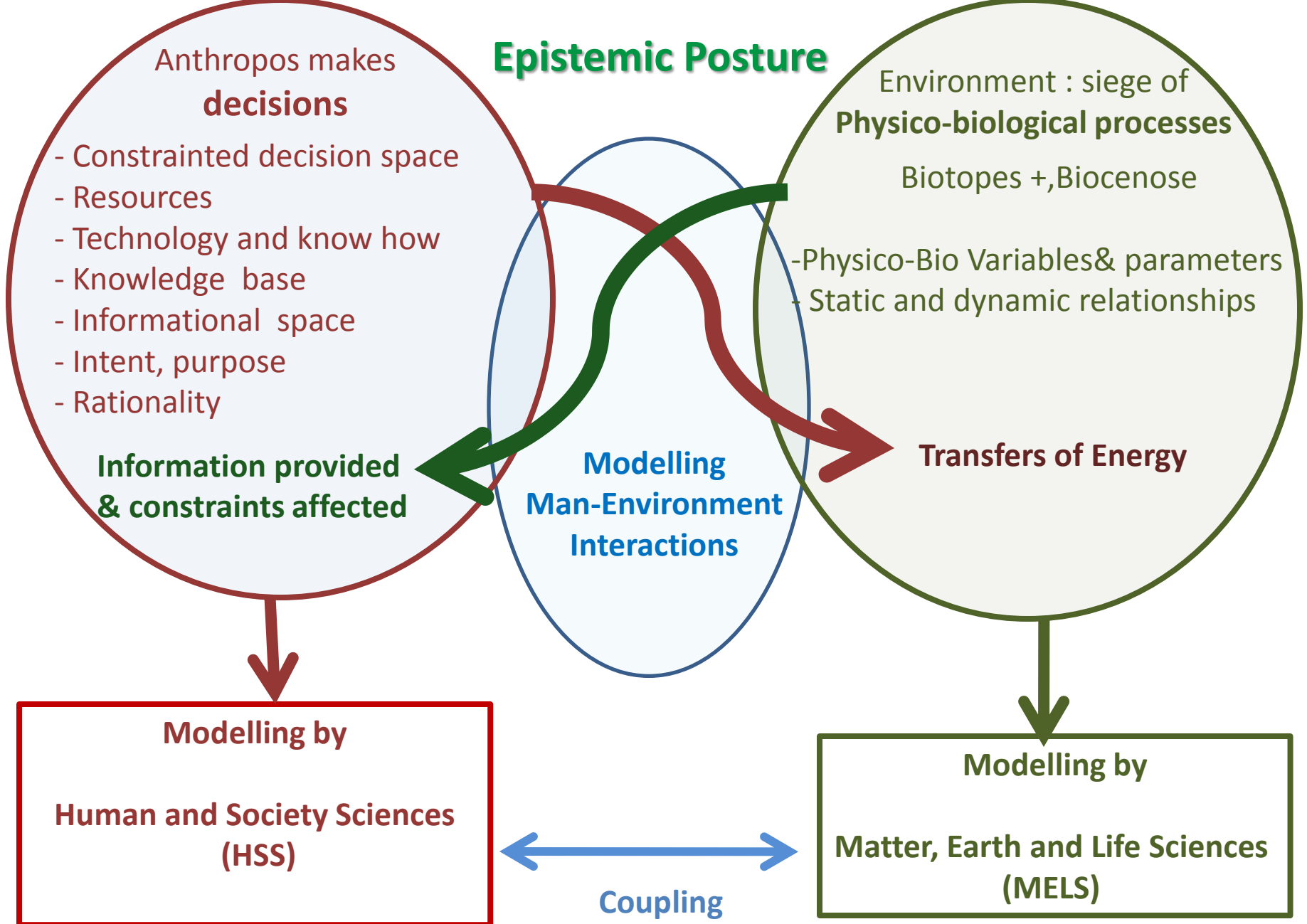
Modelling by

**Human and Society Sciences
(HSS)**

Modelling by

**Matter, Earth and Life Sciences
(MELS)**

Coupling



ROHM: Réseau Observatoires Hommes-Milieus

Network of OHMs

OHM Bassin minier de Provence

OHM Haut Vicdessos (Ariège)

OHM Estarreja (district d'Aveiro), Portugal

OHM Tessékéré (Senegal)

OHM Rhone Valley

OHM Mediterranean Littoral

OHM Oyapock (French Guyane)

OHM Coal Mine Bassin of Provence Aix-en-Provence

Event : Shut down of the last mine in 2003

Topics

Slag heaps

Air and soil pollution

Urbanism

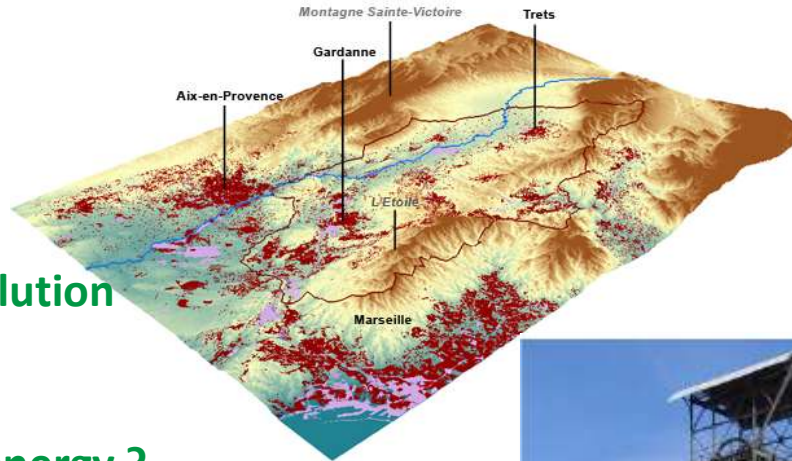
New industries

Energy or not energy ?

Effect Climate change

Underground structure

Water ecosystems



People

Pierre Batteau, Economie, AMU

Olivier Radakovitch (Biochim) CEREGE

Sylvie Daviet (Geo Humaine) MMSH

Joel Guiot Eccorev

Nathalie Boutin

OHM Oyapock Brazil-French Guyane



Triggering event



Key topics:

Socio-economical impacts

Health

Biodiversity

Anthropogenic Actions

People

Hervé THERY Geographer DR CNRS IHEAL.

Damien DAVY IR CNRS

Françoise GRENAND Anthro. (DR Emerite)



Google earth

OHM Haut Vicdessos (Ariège, FR)

6000 years of anthropogenic presence with « metallurgy cycles »

End of the aluminium cycle (1906-2006)

Global change and dynamics of biodiversity

Evolution agro-pastorale et patrimoines naturels

Dynamiques des occupations humaines

Nouvelles activités économiques et culturelles (tourisme)

Ressource en eau

Développement durable

People

Didier Galop, DR Palynologie CNRS Toulouse



OHM Tessékéré



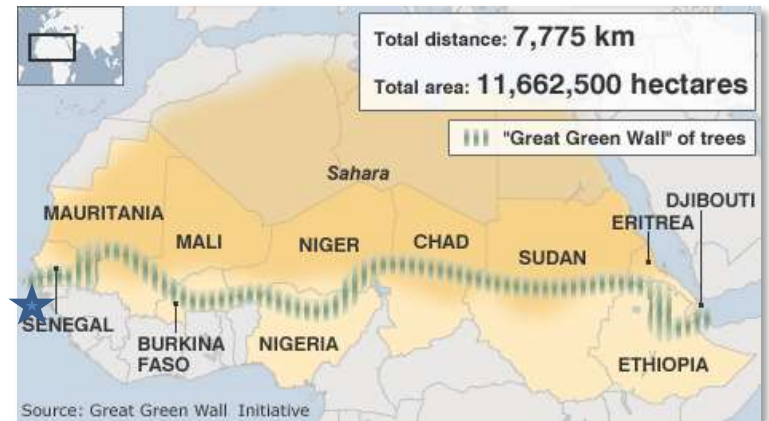
- Ferlo, North of Senegal, typical of African Sahel
- Rain scarcity, anthropogenic pressure, fast change of ecological equilibria
- « The Great Green Wall »

Topics

Direct and indirect effects of the GW
Socio-ecosystems dynamics
Biodiversity dynamics
Ecological engineering
Health & Society

People

Gille BOETSCH , DR Anthropology
Aliou GUISSSE PR Vegetal Biology Dakar Univ
Axel DUCOURNEAU CNRS



OHM Esterraja (Aveiro Lagoon Portugal)

Intensive chemical industries during 50 years.

Extremely polluted area

(Ammonium sulfate, nitric acid, ammonium nitrate, synthetic resins)

Event: Sicne 1999: New practices for sustainable development

Topics:

Ecotoxicology

Contamination and animal health

Food contamination

Pollution, resilience et remediation

Population health

Population dynamics

Social perception of health risks in highly polluted contexts



People

Anne-Marie GUIHARD-COSTA (Bioanthropo) DR CNRS

Eduardo Anselmo FERREIRA DA SILVA

OHM Rhône Valley

Triggering factor : 2002 -2003 Flood, Climate change

Topics

- Observation of natural environments and societal actions
- Historical studies and description of present situations
- Modelling
- Efficiency of Policy and Public decisions and evaluation



People

Hervé PIEGAY (Geographer) DR Lyon-
Mireille PROVANSAL (Cerege)
Guillaume FANTINO - Lyon

OHM MEDITERRANEAN LITTORAL

1992 Rio Conference “Integrated Management of Coastal Zones”

Fast urbanisation and anthropogenic pressure on the Mediterranean

Key Topics:

- Resources use (soil, water, biodiversity)
- (Sea and land Biodiversity)
- Environmental quality, ecosystems sustainability
- Climate change follow up and impacts
- Land uses and sea uses and evolution
- Human and natural landscape
- human frequentation and consequences
- Emerging pathogenes (Human, animal, plants)
- Health ecology
- Public policies, actors games, territory governance
- Perception of changes

People and entities:

Samuel ROBERT, ESPACE (UMR 7300)

UMR 5119 - ECOSYM, Marc Trousselier

UMR 7300 - ESPACE, Christine Voiron

UMR 7263 - IMBE, Thierry Tatoni

UMR 6240 - LISA, Marie-Antoinette Maupertuis

UMS 3460 - STELLA MARE, Direction Antoine Aiello



DRIIHM Missions

Promoting observations via the OHM

**Field observations,
Experimental observations
Inquiries**

Data recording

- Cross sectional and times series data
(qualitative, quantitative)**
- Texts and archives**
- Photos, videos, sounds**
- Maps**

Communication with actors

DRIIHM Method and Actions

Call for Research Proposals (CRP)

Coordinated CRPs

- Common CRP for the HOM-network**
- Local CRPs for the OHM**

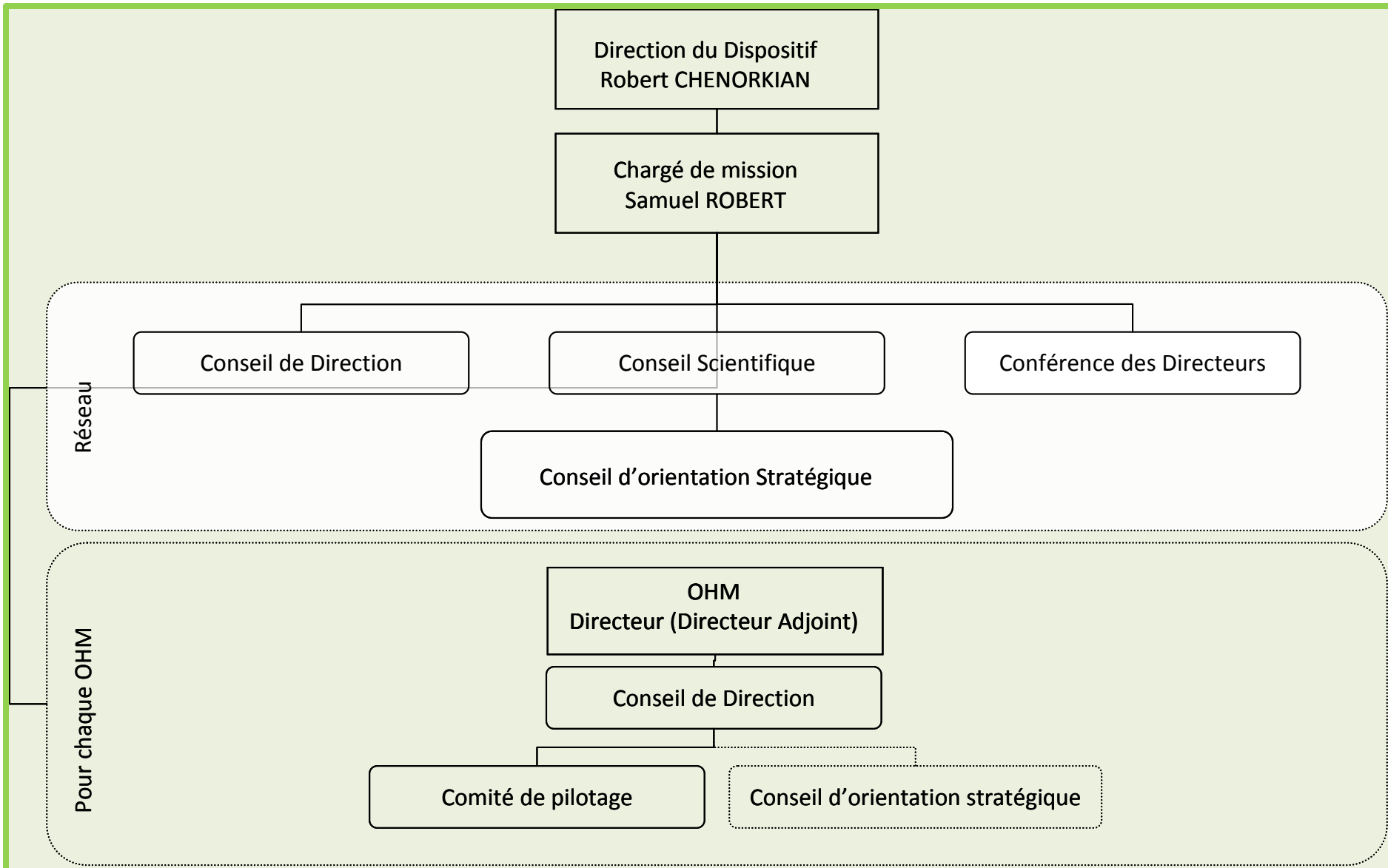
Open to accredited research teams

2 Thesis scholarships every year (12 over 8 years)

2 Post docts every year (12 over 8 years)

Every year : Invited visiting international scientist

Governance



Executive Committee

- Robert Chenorkian
- Bruno David
- Stéphanie Thiébault

People

Scientific Board (to be confirmed)

- Hélène Budzinski
- Josette Garnier
- Nathalie Hervé-Fournereau
- Pascal Marty
- Yves Perette
- Yildiz Thomas

Board of Directors

- BMP : Pierre Batteau
- Oyapock : Hervé Théry
- Haut Vicdessos : Didier Galop
- Tessékéré : Gilles Boëtsch, Alliou Guissé
- Estarreja : Anne-Marie Guihard-Costa, Eduardo Da Silva
- VdR : Hervé Piégay
- LittMed : Samuel Robert

People (continued)

- **1 Invited visiting « international » scientist**

Periods and modalities to be defined

- **National and International promotion of DRIIHM: 1 person**
- **Administrative support : 1 person**
- **Databases : 1 person**

Steering Committee for Strategic Orientations

Legitimacy and Accountability

- RHOM Governance members
- Representatives:
 - Government departments and services
 - Universities and research institutions
 - Agencies
 - Socio-economic partners

Some sites

OHM and DRIIHM

www.ohm-inee.cnrs.fr/

On Oyapck Bridge and OHM

www.guyane.cnrs.fr/projoyapock.html

videos.tf1.fr/jt-we/guyane-les-deboires-du-pont-sur-l-oyapock-6945808.html

Tessekéré

www.cnrs.fr/inee/outils/docs/DP_VoyagePresse_Tessekere_mai2011.pdf

Presentation of Costal Areas Integrated Managemeznt 1992

http://www.observatoriodellitoral.es/subido/_documentos/ordenacion_del_litoral/doctrina/integrated_management_of_coastal_zones.pdf

Convention on Bioiversity report

www.cbd.int/doc/publications/cbd-ts-14.pdf

Cato the Elder used to put an end to any of his speeches with the famous: *Carthago delenda est!*

The French just say plainly:

VOILA !