

Les Ressources

Exploration aux frontières des disciplines

LIBÉRATION SAMEDI 15 ET DIMANCHE 16 JANVIER 2011 S2

CARTE BLANCHE À MICHAL BATORY

Libération

S3

Dogmas and hidden issues 2012

« J'ai choisi deux symboles forts pour figurer la guerre économique : le pain pour l'économie et la revolver. La consommation peut constituer un danger, se révéler une arme cachée. Manger pour survivre ne devrait pas créer de conflits. Pourtant, une action sociale se termine parfois par un génocide. »
PHOTO: LA PAU, ANI ARTISTES
AFFICHE AMX 3M - PRODUCTION
SERGE MALIK POUR TVAS
THÉORIE OUTOCORP/ANUE

- 1. The 2050 horizon:
the real timing is 2022/23*
- 2. Save Nature & the environment
protect resources rush & over-consumption life-styles*
- 3. Lack of focus on primary resources and vital needs
soil / water, farmers' condition, future generations, ...*



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**Interdisciplinarity for the short- & the long-term:
targetting natural resources at regional scale**

Ioan Negrutiu

Institut
Michel Serres

for resources and public goods



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The founders:

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The ENS consortium
RDP / EVS / IXXI / IAO

The logo

The ENS team: 4

Institut
Michel Serres



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Founding partners, institute w/out walls

CEES, Oslo

ISS, PortlandU, Oregon

VIB, Ghent

ClcD, WisconsinU (WUP)

Borlaug Institute, Roth-ingham



ERC program Lascaux, Nantes

LAMETA, Montpellier

EPFL, Lausanne

USAMV, Transylvania

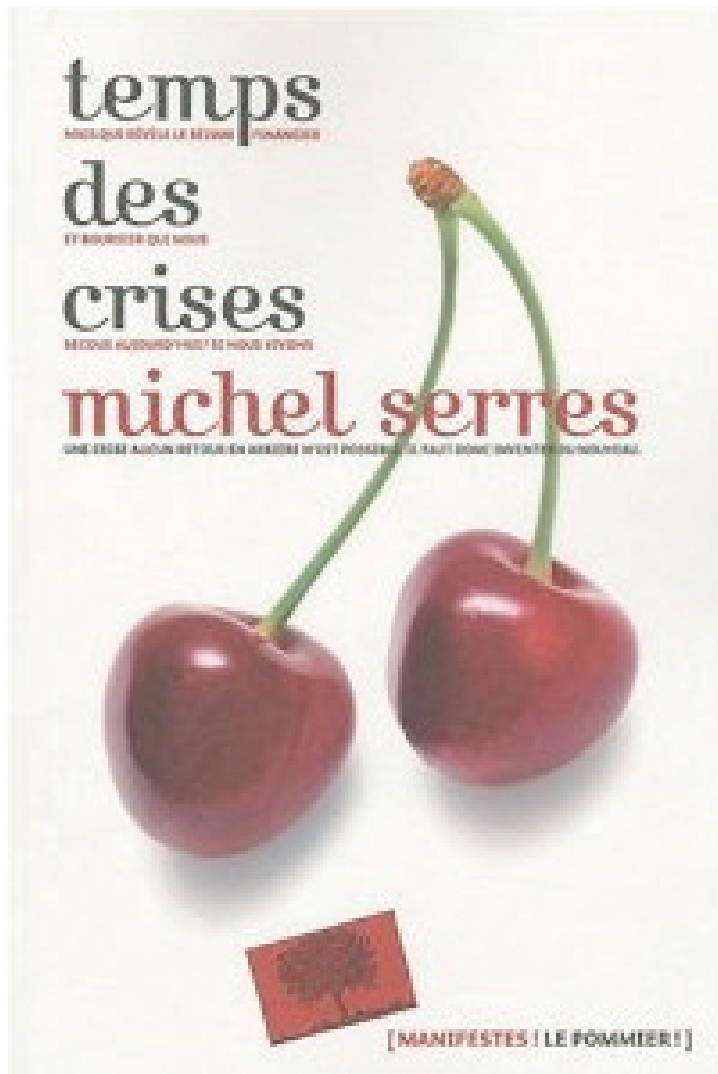
ENS de Lyon

⇒ **United state of resources: deep interdisciplinarity**

- all disciplines & education common denominator

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After the age of maths, physics, chemistry ...
The age of Natural Sciences inter-disciplinarity
Ecology & human / social sciences

Where philosophy meets science, society, politics

?? Societal & experimental translation:

The integrated resource-approach to development



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The M Serres Institute launching conference, Sept. 2012

Issue:

What if the real problem is our perception / relationship to resources?

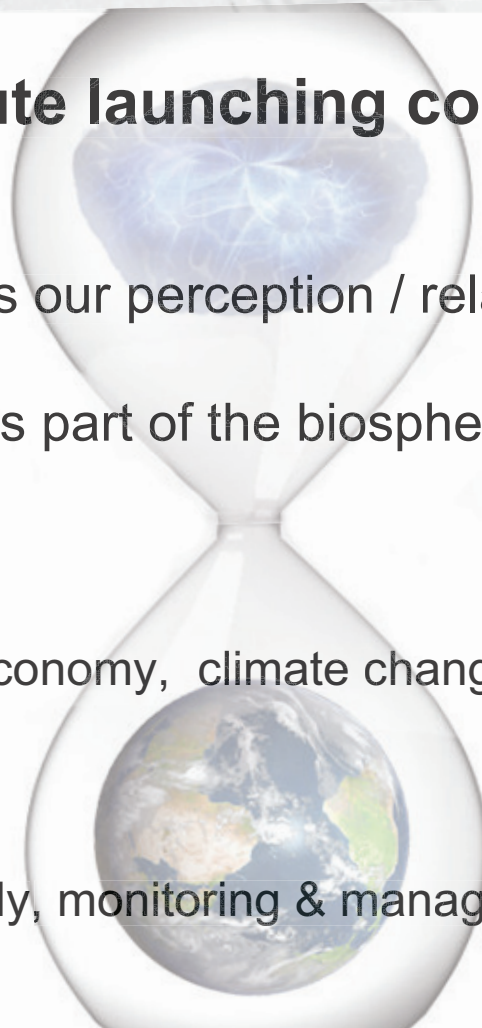
=> the economy is part of the biosphere (not vice-versa).

Hypothesis:

The pertinent approach to economy, climate change, biodiversity....

& ecological transition

is through an integrated study, monitoring & management of resources.



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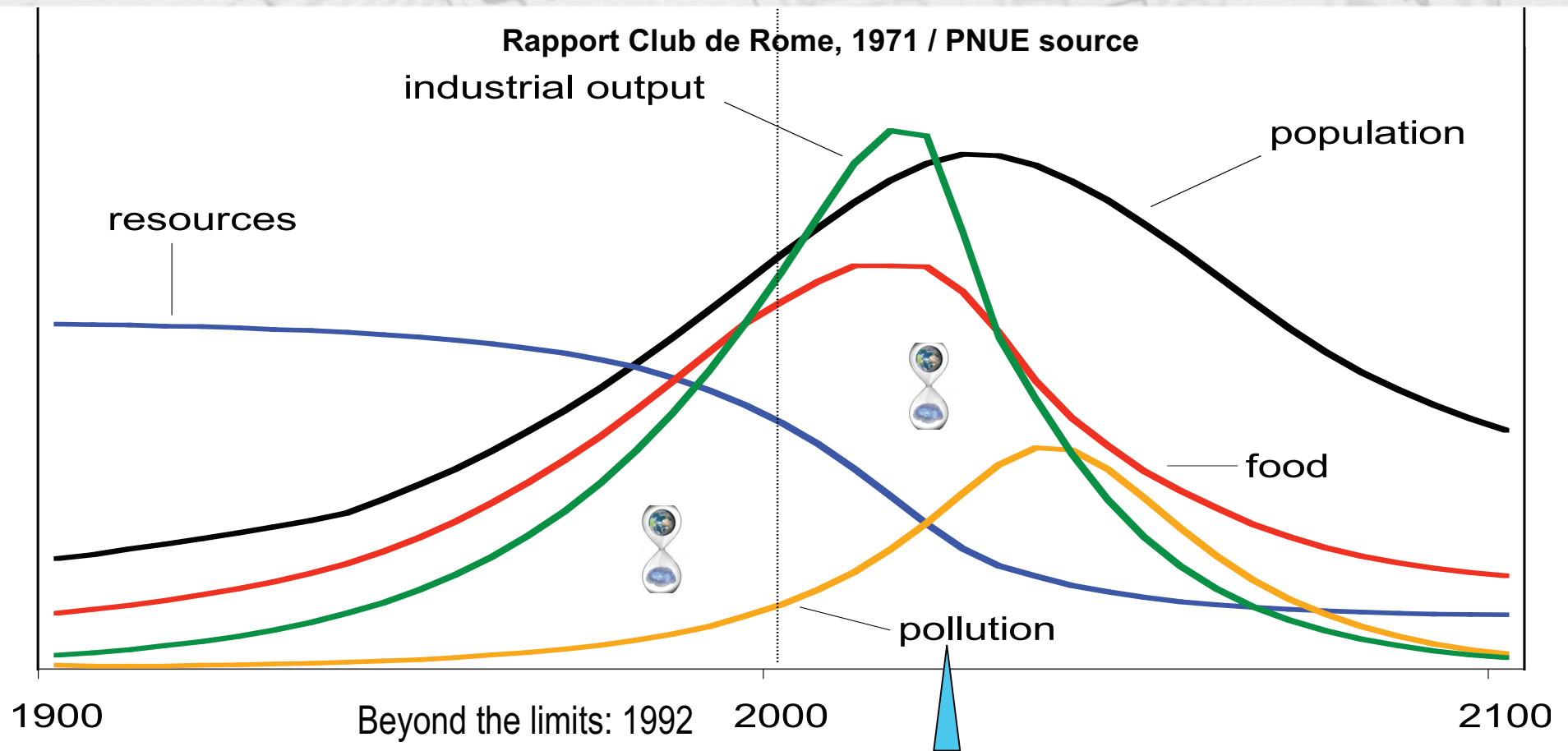
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Why resources & public goods?

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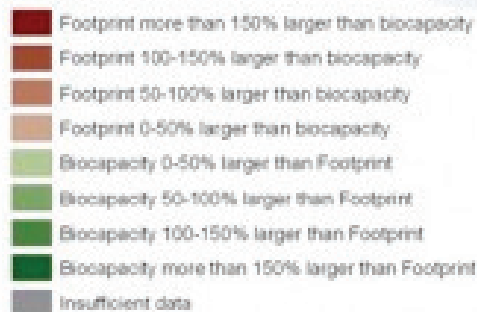
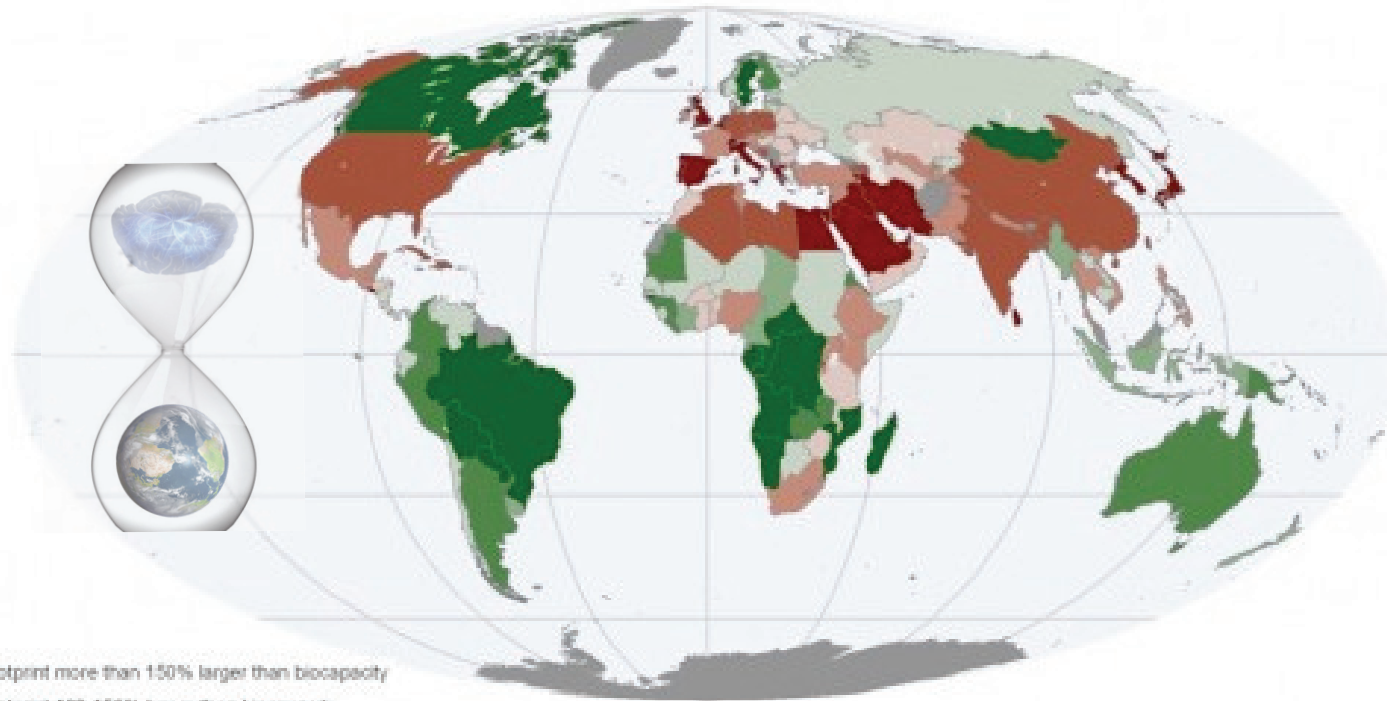
les forçages & the 8 billion challenge

Scarcity => understand what happened since 1992

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Percent of Earth's Biocapacity Used: 144%



Natural Resources erosion : « forçage » & eco-deficit

2006

Gap between eco-footprint and biocapacity

Eco-debt timing

1987: Dec 19

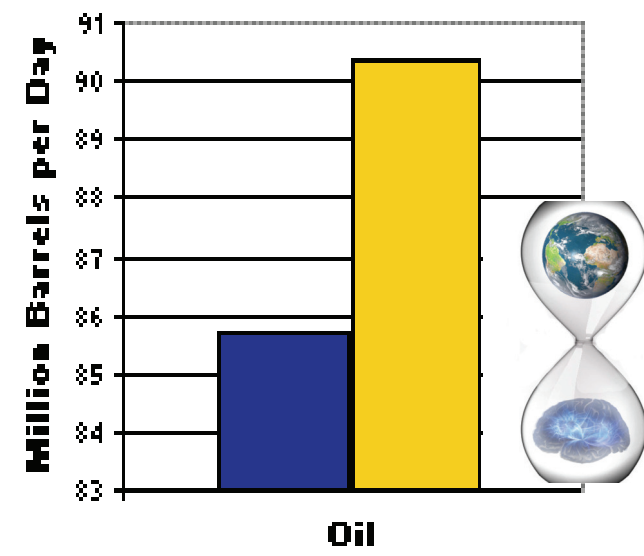
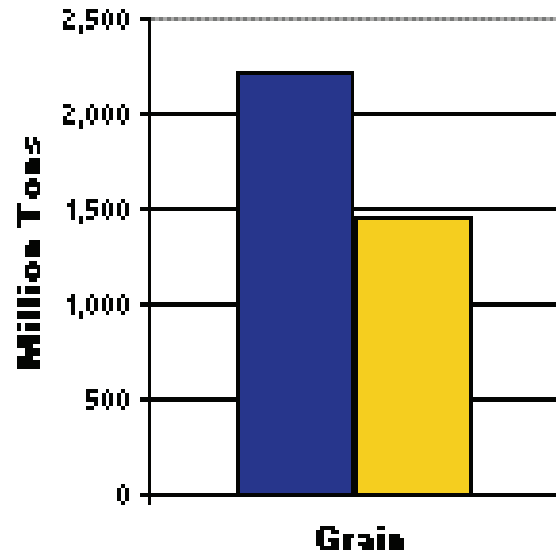
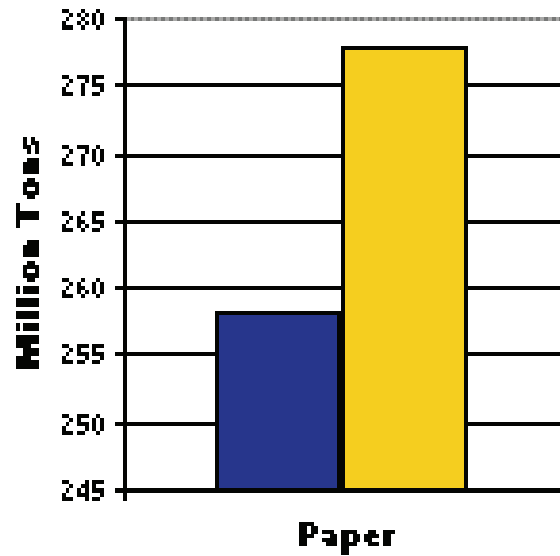
2000: Nov 1st

2011: Sept 27

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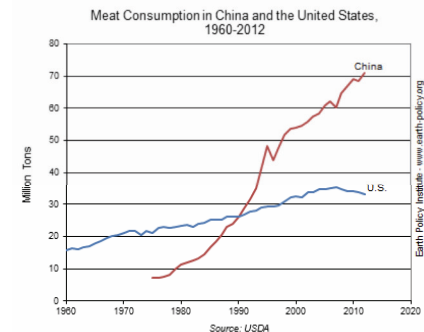
Current World Consumption of Key Resources Compared with 2024 Projections for China



■ World, latest year* ■ China, 2024

*Latest year: 2007 for paper; 2008 for grain and oil.

Source: compiled by EPI, full citations available upon request.



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Why bio / agro-resources?



Space, Time, demography, conflicts

- 1. Copenhagen declaration**, March 2012
BioEconomy strategy, 10 recommendations
(1,2) – **biomass**
(5,6,8) – resources: food, non-food, waste
(7) - LCA agro-resources
=> BioEconomy Panel, annual meetings
- 2. The public goods** challenge & taboo: WTO / WB
Resources: SCAR, UK foresight, JRC / IES, Big10, ...
- 3. Rush / scarcity / inequity & primary resources**
the poor and future generations

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Michel MOREAUX, Lerna Toulouse

The economy of resources at the cross-road of several paradimes

Bob COSTANZA, ISS Portland

...unlimited increase in resource and energy throughputs, of material production and consumption, do not seem to continue to increase well-being.

We are all, individually & collectively,

Resources – centered, - minded, - wrongly framed (vs climate, biodiv., ...)

no coherent agency system, no vision, codified & conflictual

Survey => our ambiguous perception / resources
issues, problems, solutions

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Missions: resources and public goods

1. Challenge the **conceptual frames** on which nowadays agendas are set
=> a coherent architecture and priority picture towards a
more **global / integrated resources security for basic needs**.
2. Generate **tools for the real-time metrics of regional resources (bundles** and dynamics), in tight connection with evolving legal, normative, and financial contexts and instruments.
3. Offer alternatives to the binary WTO – WEO **governance system** in discussion for the Rio+20 session, based on the absolute necessity to integrate the economy and other human activities within the cycles / functions of the biosphere.

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How it works?

M1. Conceptual - rethink the concept

Scarcity and competition (resources, environment, ...) - interconnected, phased optimization.

M2. Resources and scale: regional

Permanent, real-time; tools and good practices become the norm

M2. Resources, demography & institutions

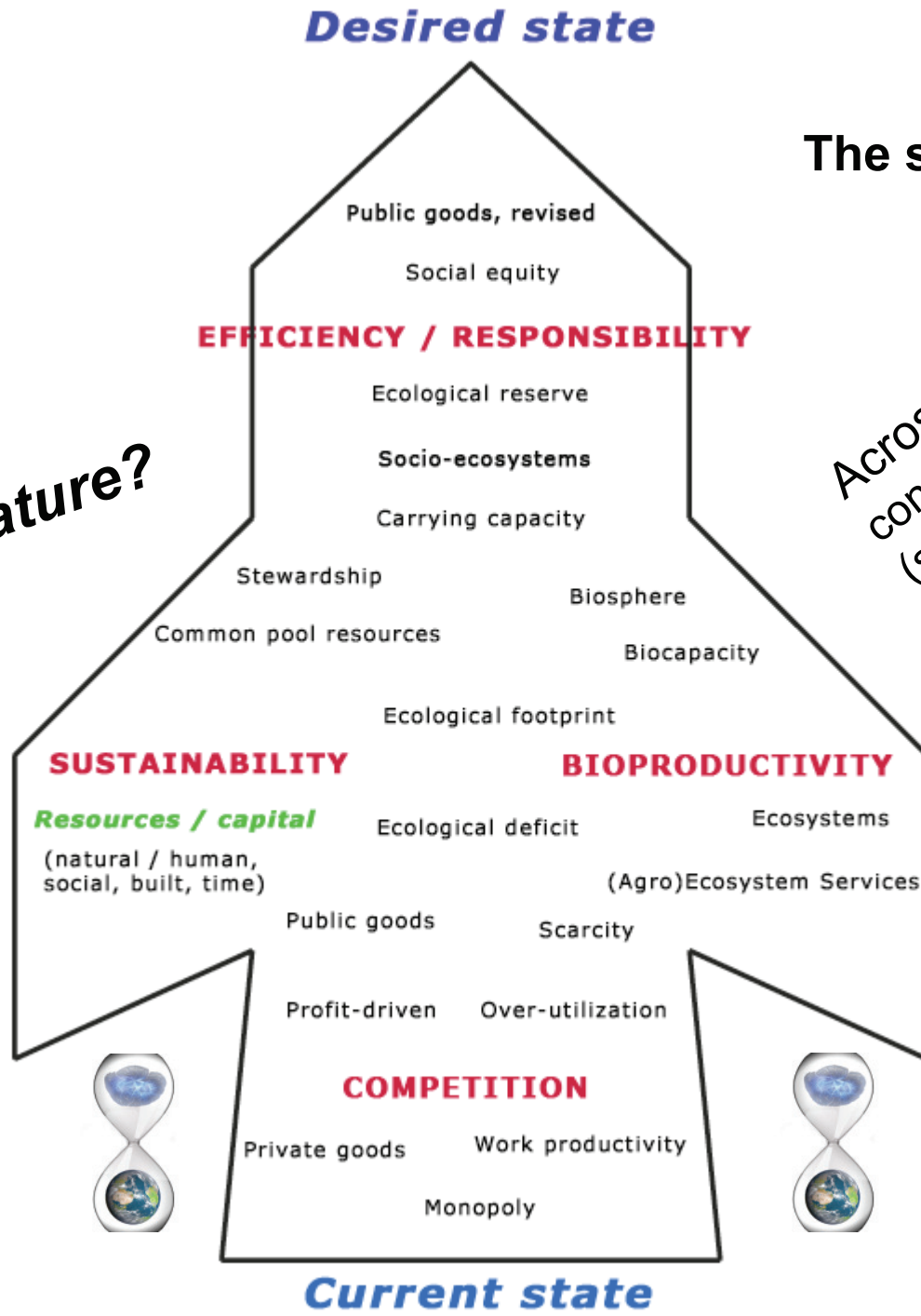
Regional capacity / specificities, Carrying capacity,... as a function of context and instruments (institutions, organizational skills, tech-knowlogy)



Mission 1

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Who owns Nature?



The survey

Across discipline **Glossary:**
concepts and grammar
(semantic and operational relationships)

Range of possible options

Current state

Desired state

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How it works?

M1. Conceptual - rethink the concept

Scarcity and competition (resources, environment, ...) - interconnected, phased optimization.

M2. Resources and scale: regional

Permanent, real-time; tools and good practices become the norm

=> Adaptive management, all resources & all regions

M2. Resources, demography & institutions: ecological truth

Regional capacity / specificities, Carrying capacity,... as a function of context and instruments (institutions, organizational skills, tech-knowledge)



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Mission 2 - why regional level is important?



⇒ The **regional scale**, resources specificities and CAP 2020 issues

⇒ Regional early, « real-time » monitoring, dynamics / evolution & viability

Bottom-up approach - build regional academic and public service capacities

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Facts

Mission 1: concepts & education

< <http://biologie.ens-lyon.fr/masterbiosciences/presentation-des-ue-1>

/presentation-des-ue/presentation-des-ue/les-ue-europe/biodiversity/ > (since 2008)

- www.ens-lyon.eu/etudes/systemes-territoriaux-aide-a-la-decision-environnement

=> send in students

- www.iuf20ans.org -2011 and proceedings: concept testing

=> get the book

Mission 2: real-time tools & good practices

ANR « agrobiosphère » Rhône-Alpes, 2012 – test region => [join the project](#)

deep quantitative understanding of the dynamics of natural systems / resources

Michel Serres Institute launching day – Sept 27, 2012: [join the conference](#)



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What next? to be discussed

1. The natural resources and public goods initiative / network

- join for education and research
- evaluate and adapt the RA project to your region / network project

2. The survey - help the operation

3. Regional monitoring and management is important and urgent

⇒ the regional agro-priority on resources is your power

⇒ interdisciplinarity as alternative to lobbying



4. *The challenge: who owns Nature, i.e. natural resources?*

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Confusion on resources terminology / framing

Centre d'analyse stratégique, rapport oct 2011:

- « de nombreuses aides publics accélèrent la dégradation des sols, des eaux, **des ressources**, des habitats naturels... »
⇒ Les ressources sont traitées par tranche, pas comme un ensemble
- Mesures fiscales incitatives: « loi de financement supprimant l'ensemble des subventions défavorables **à la biodiversité** »
 - (1) Biodiv remarquable vs biodiv ordinaire?
 - (2) Implique une bonne partie de l'agriculture conventionnelle!
 - (3) Biodiversité est une composante des ressources naturelles

