

*Global workshop on transfer of environmentally sound technologies
and capacity building for sustainable forest management
24-27 February 2004, Congo, Brazzaville*

Information Acquisition and Treatment : new tools for sustainable forest management?

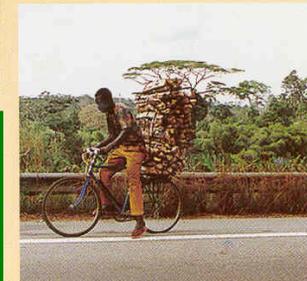
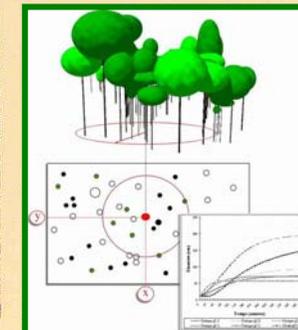
**Acquisition et Traitement de l'Information :
de nouveaux outils au service
de la gestion durable des forêts ?**



**Bernard Mallet
Département forestier du Cirad
France**

Forests are complex anthropo-ecosystems

Forest management :
a complex equation
taking in account
both
biological data
and
socio-economic
informations



The need for diversified and accurate information

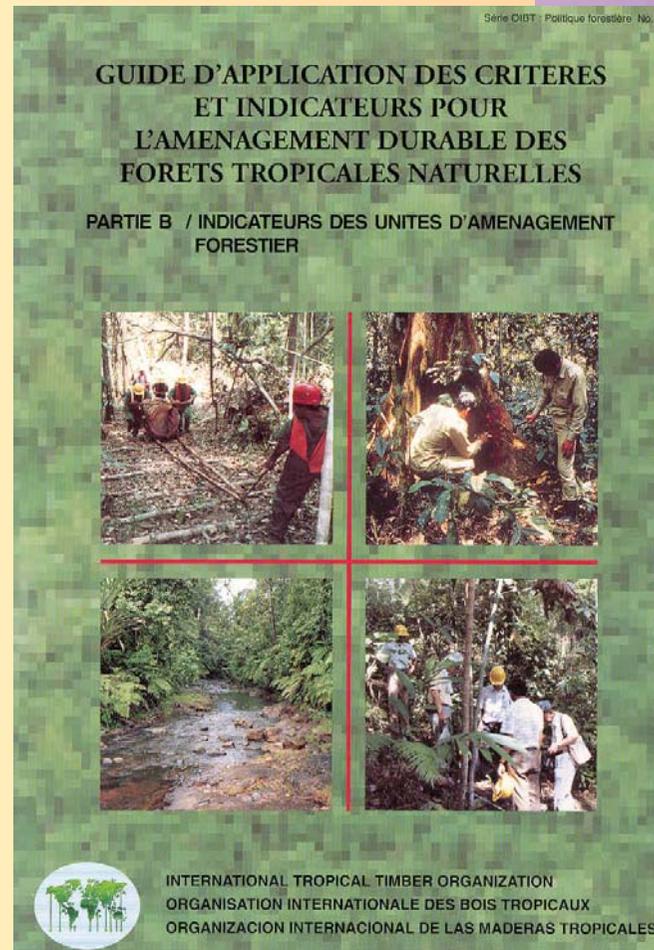
Criteria and Indicators for forest sustainable management:

Policies,

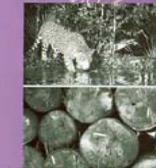
Society,

Ecology,

Forest products



Directives pour le développement, le test et la sélection de critères et indicateurs pour une gestion durable des forêts

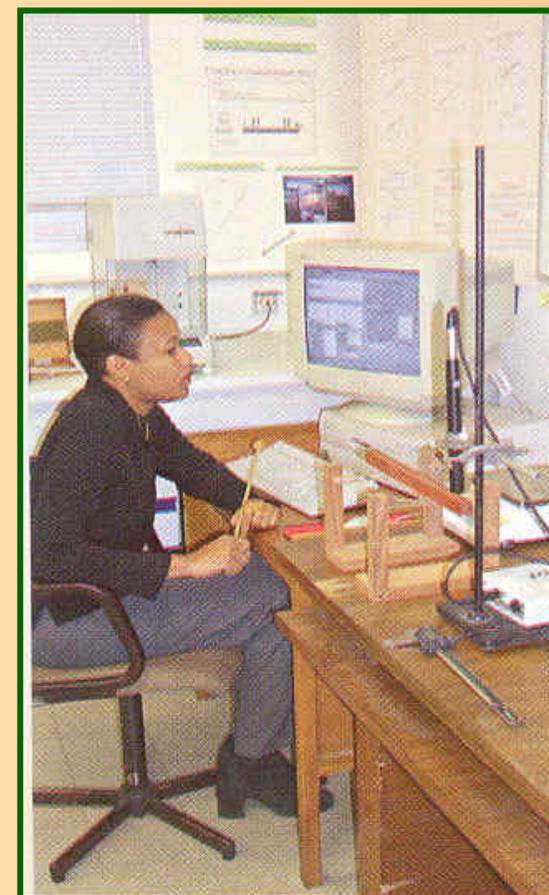
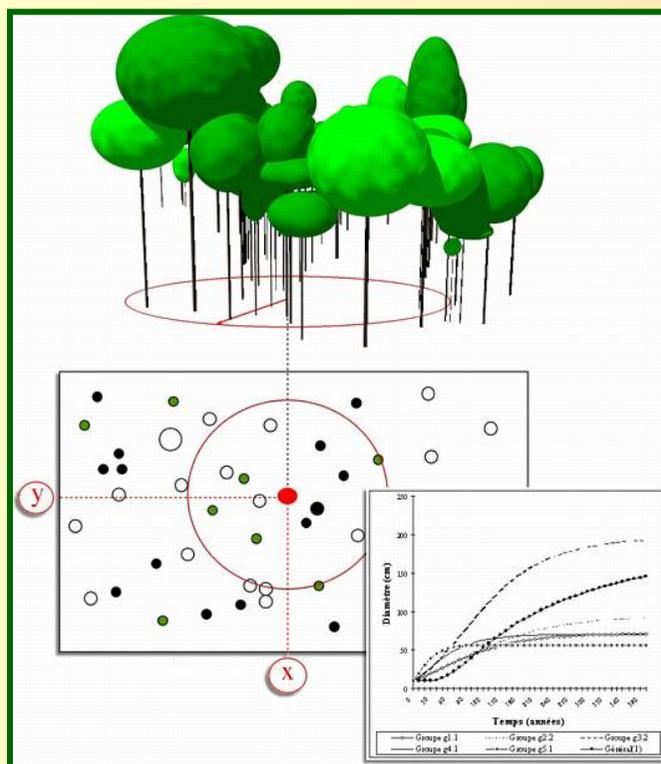


cifor

2 critères et indicateurs
gestion durable des forêts

1

The exponential development of computers : hardwares and softwares for forest managers

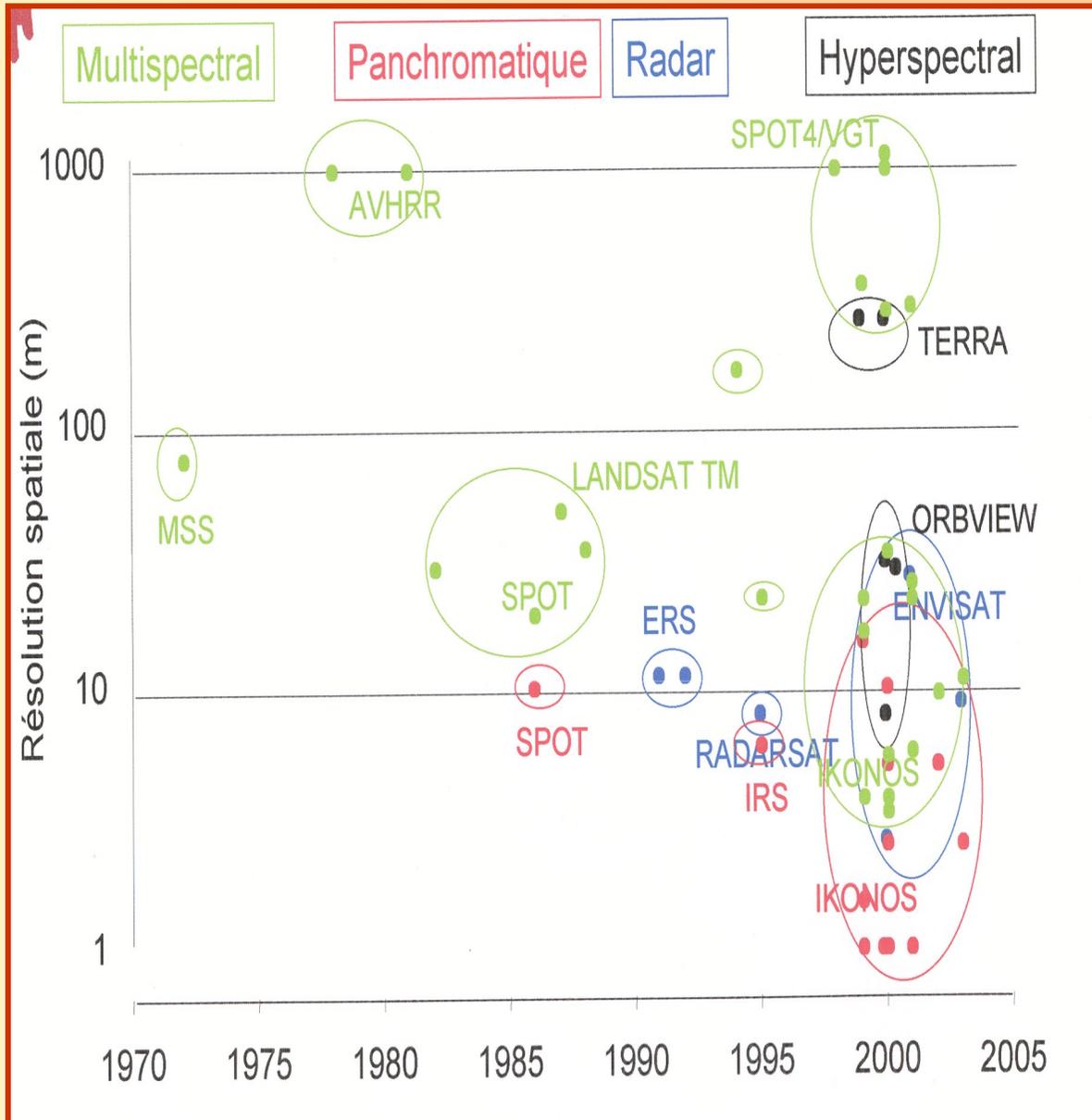


New tools for biophysical data

Remote sensing :

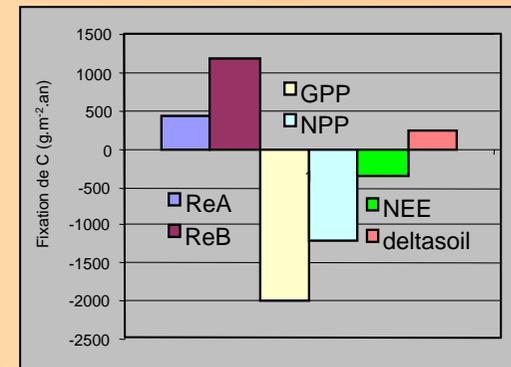
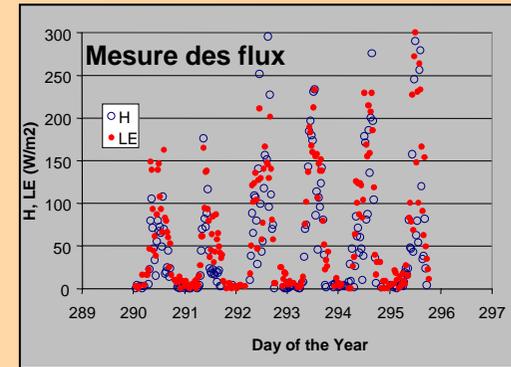
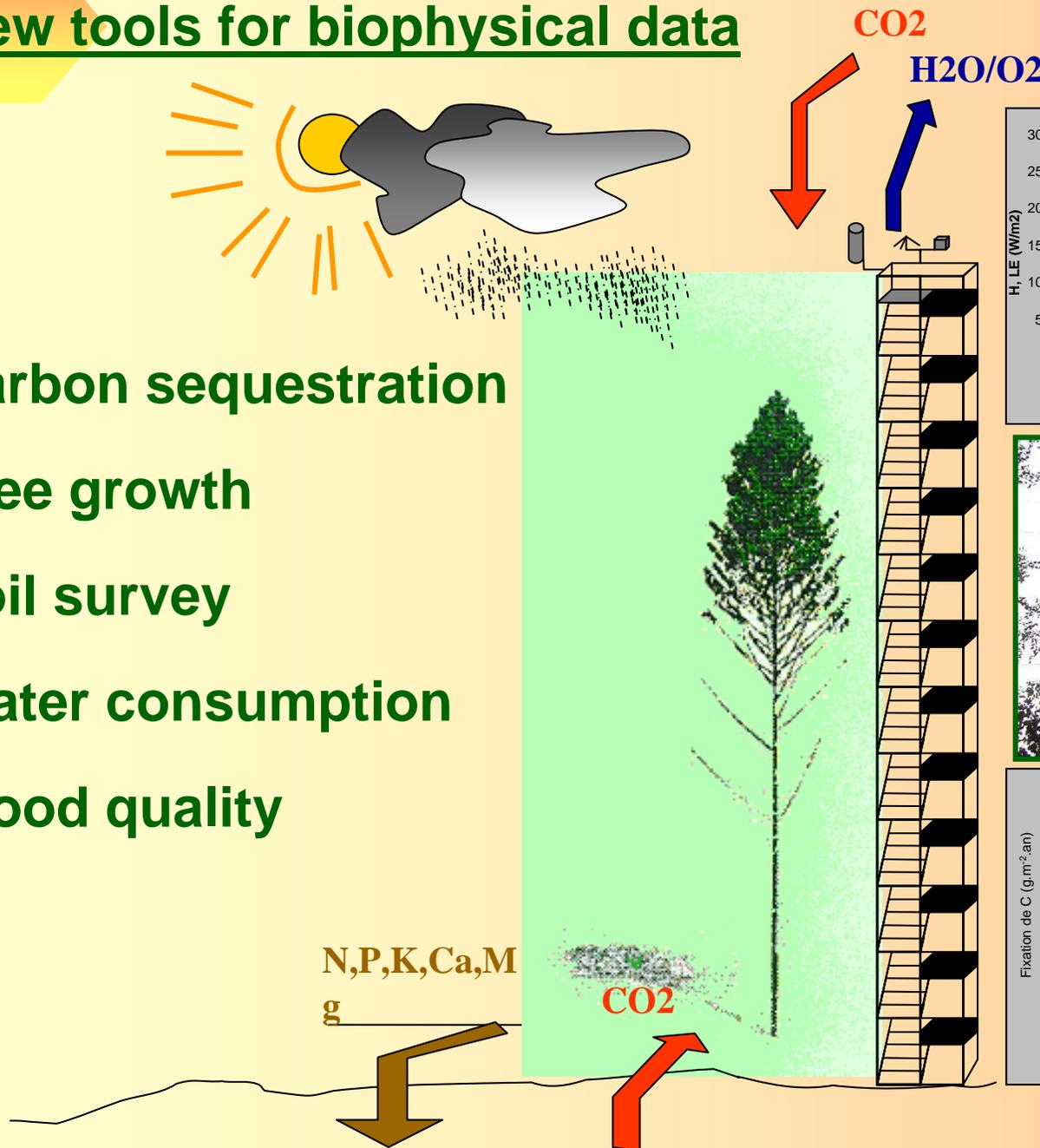
- a broad evolution during last 30 years

- from research to development

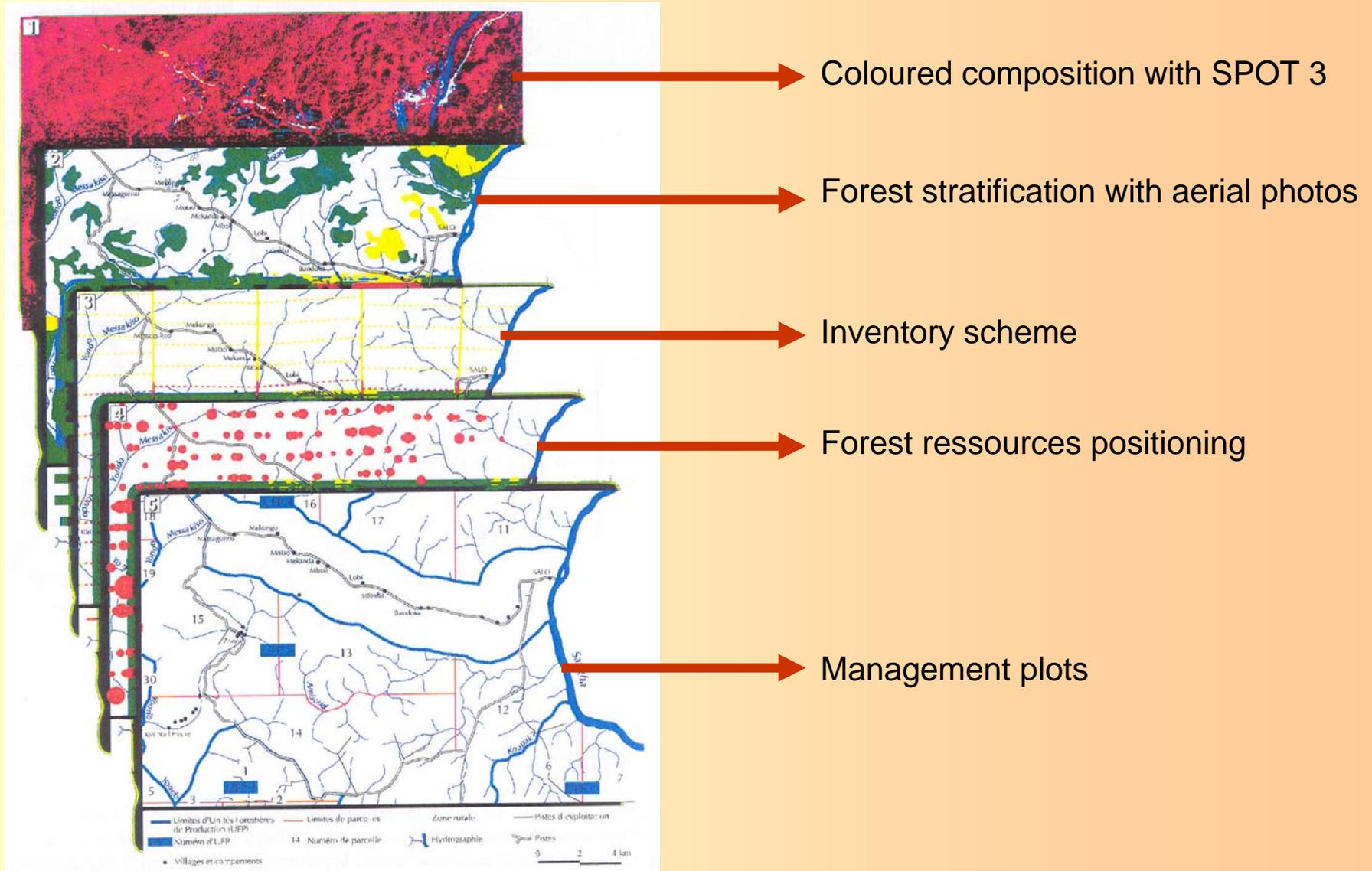


New tools for biophysical data

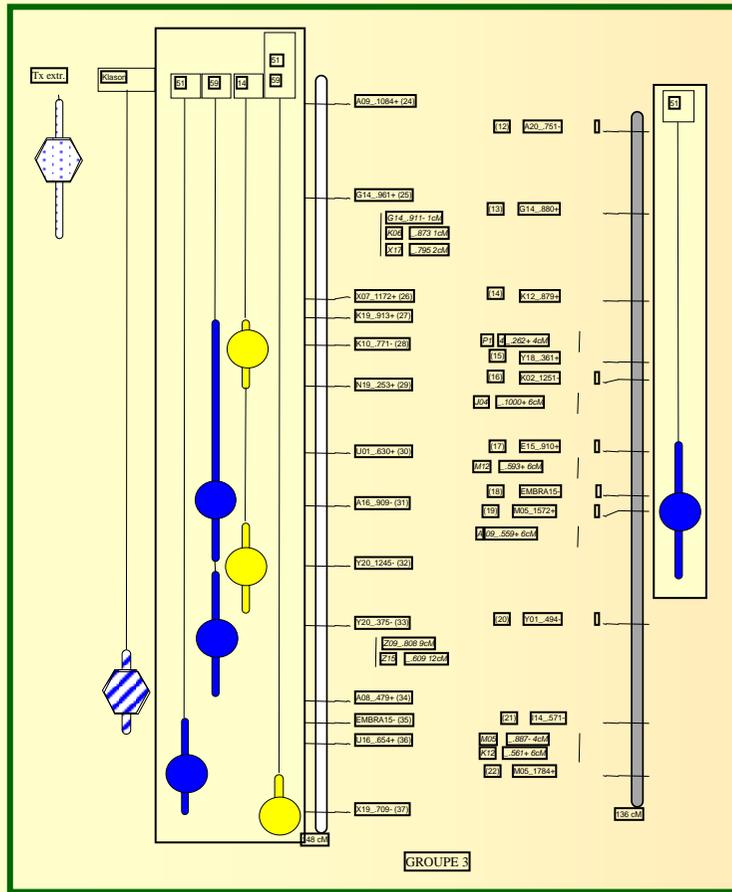
- Carbon sequestration
- Tree growth
- Soil survey
- Water consumption
- Wood quality



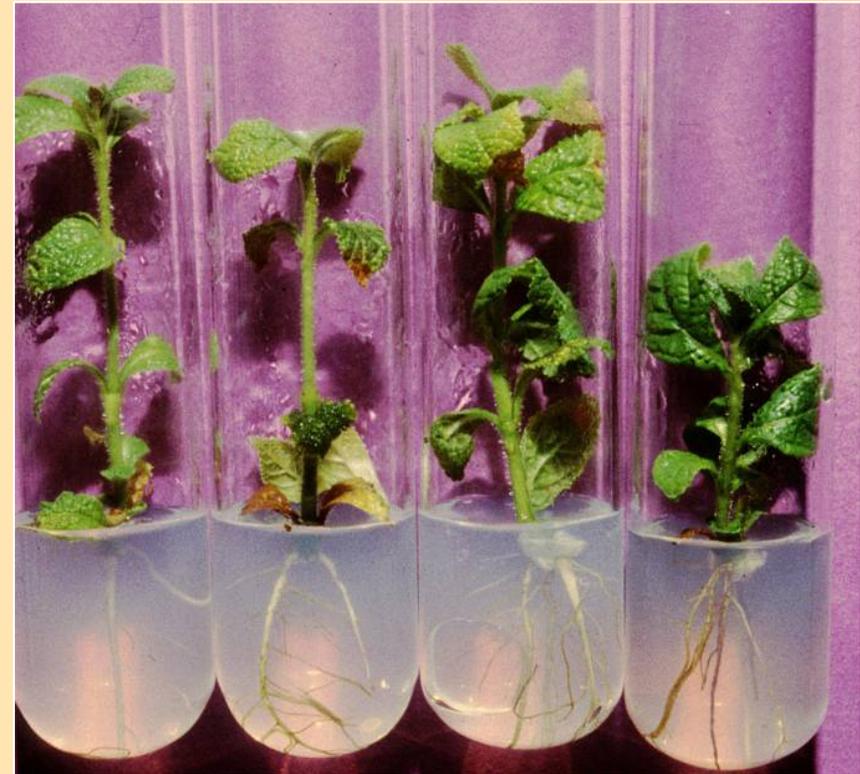
From global to local: the development of geographical information



Biotechnologies, tools for sustainable forest management?



Eucalyptus genetic maps for lignin synthesis



Vegetative propagation of Teak

New biological data to integrate



Forest inventories



Non wood forest products



Wildlife

Social and economic components

Les Peuples des Forêts Tropicales Aujourd'hui



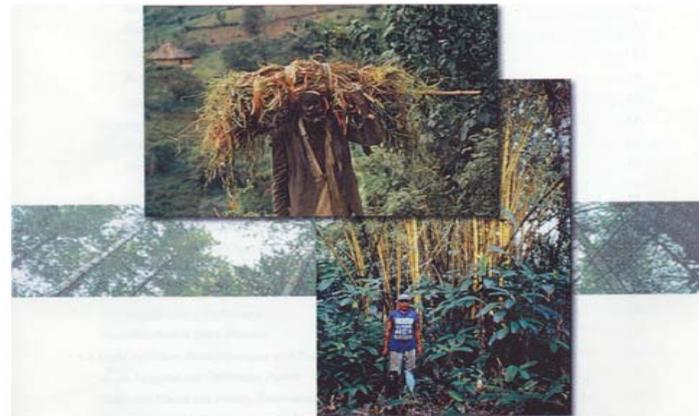
VOLUME I FORÊTS DES TROPIQUES, FORÊTS ANTHROPIQUES

SOCIODIVERSITÉ, BIODIVERSITÉ :
UN GUIDE PRATIQUE



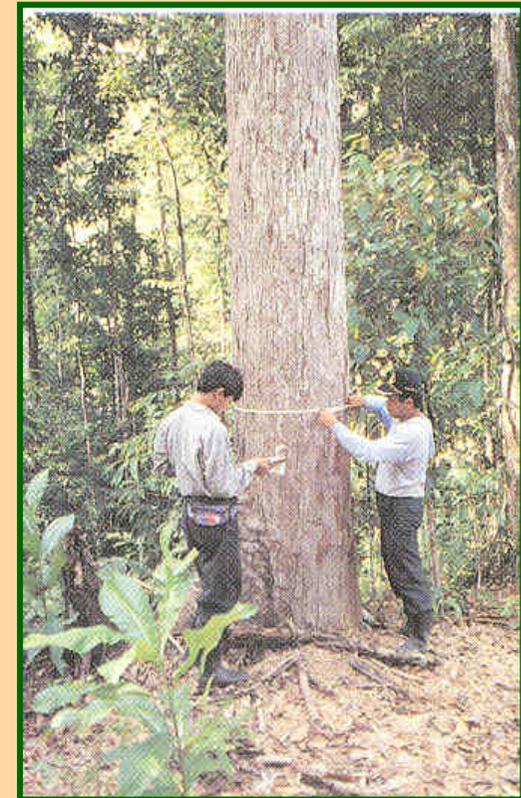
A REVISED FOREST STRATEGY FOR THE WORLD BANK GROUP

DRAFT
17 MAY, 2001



THE WORLD BANK

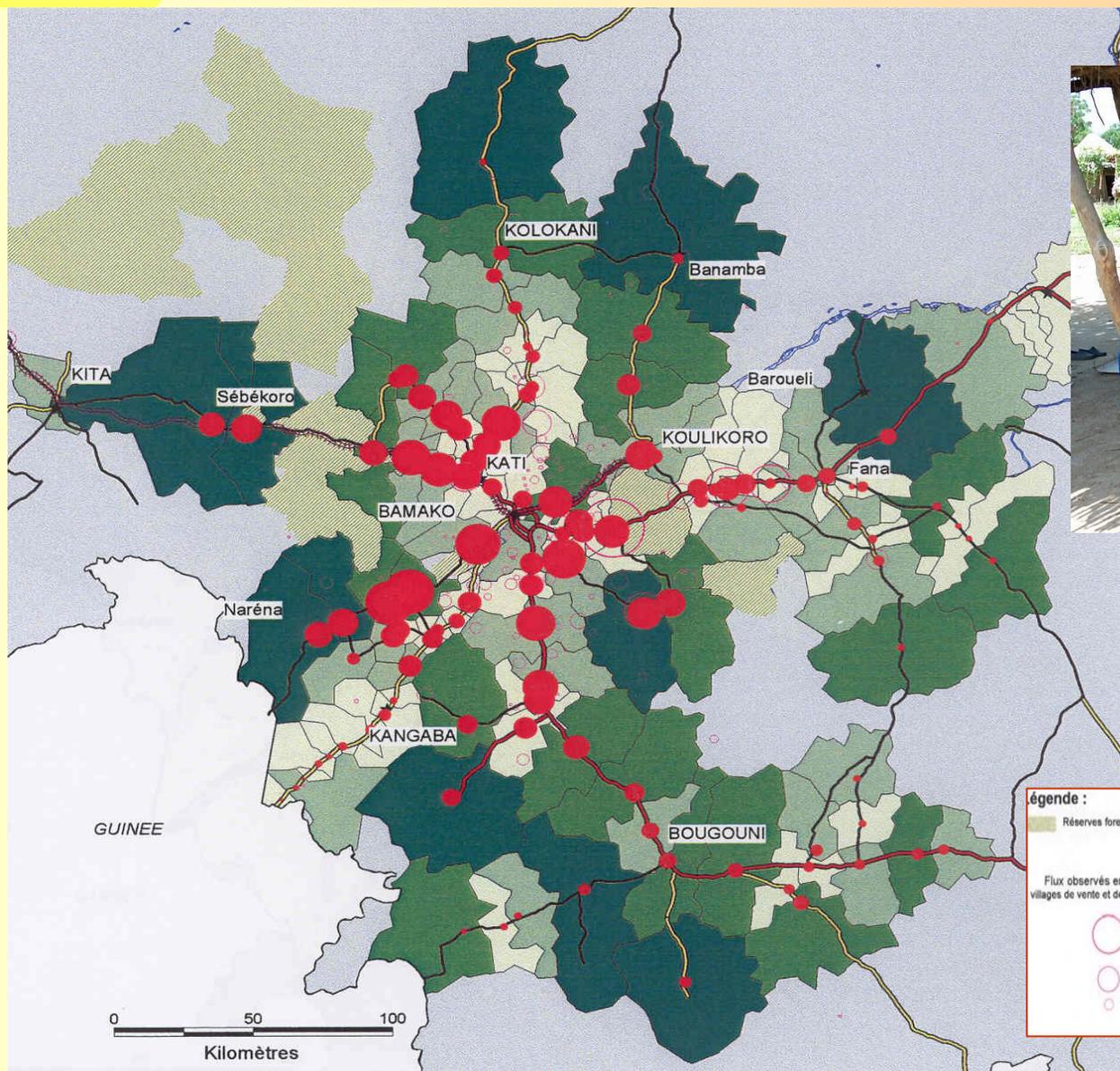
Technology transfer: the real challenge



**transfer tools and data analysis ,
transfer methods and know how,
transfer strategies and concepts,**

**Transfer from scientists → forest managers,
countries → another countries,
international agencies → national bodies,
decision makers → operational workers**

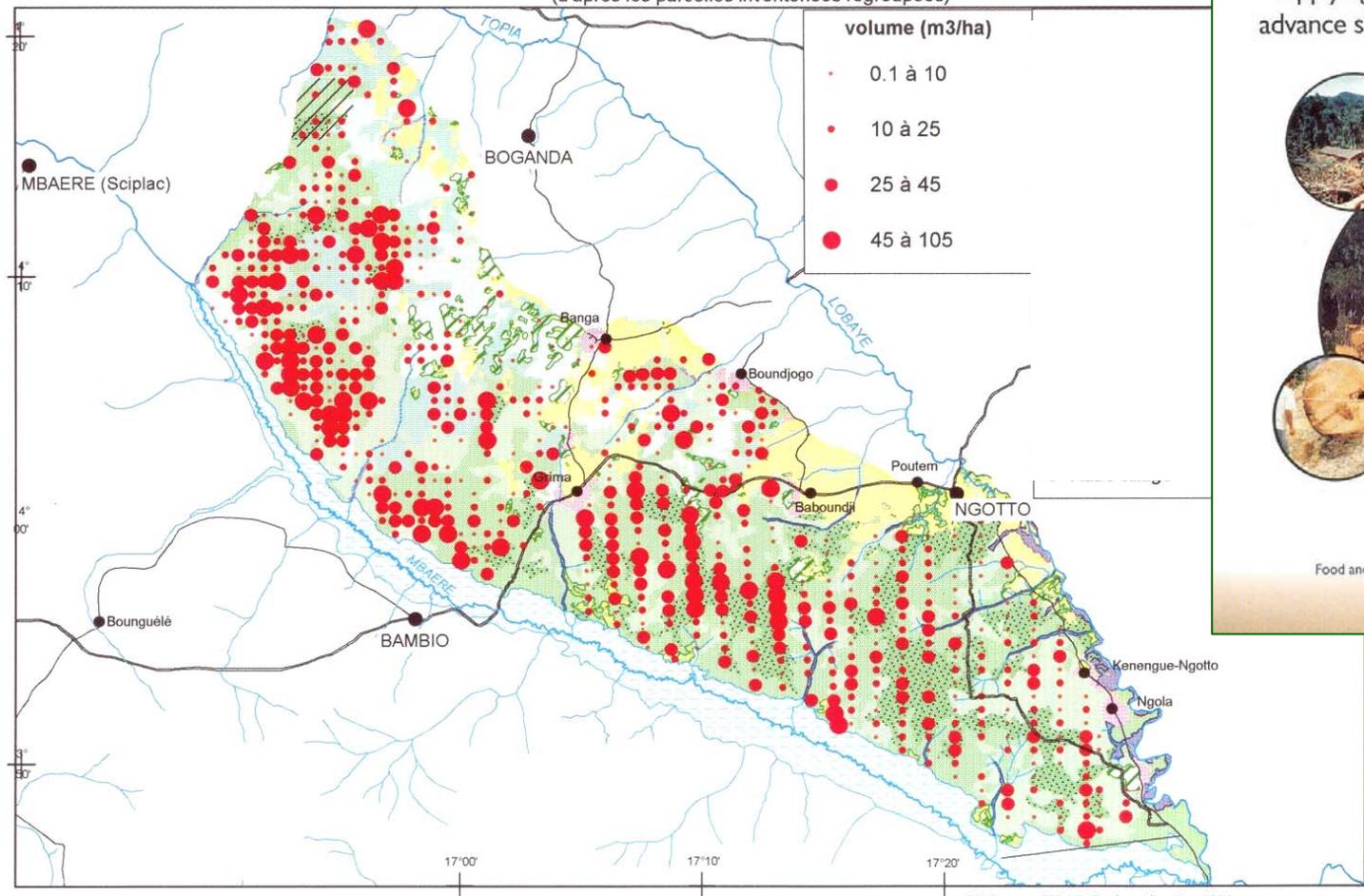
Providing fuel wood to urban populations from sustainably managed rural forests



Forest management plans for tropical moist forests

REPUBLIQUE CENTRAFRICAINE
 PROJET ECOFAC
 FORET DE NGOTTO

MELIACEES (SAPELLI+TIAMA+DIBETOU+SIPO+KOSIPO)
 Volume à l'hectare des tiges de diamètre exploitable (>=80cm)
 (d'après les parcelles inventoriées regroupées)



N. Fauvet CIRAD-Forêt décembre 1996

FAO
 ASIA-PACIFIC FORESTRY COMMISSION

Applying reduced impact logging to advance sustainable forest management

Food and Agriculture Organization of the United Nations
 Regional Office for Asia and the Pacific
 Bangkok, Thailand
 2002

Forest plantations, an opportunity for effective technology transfert

Tree breeding

Sylviculture tools

E I A

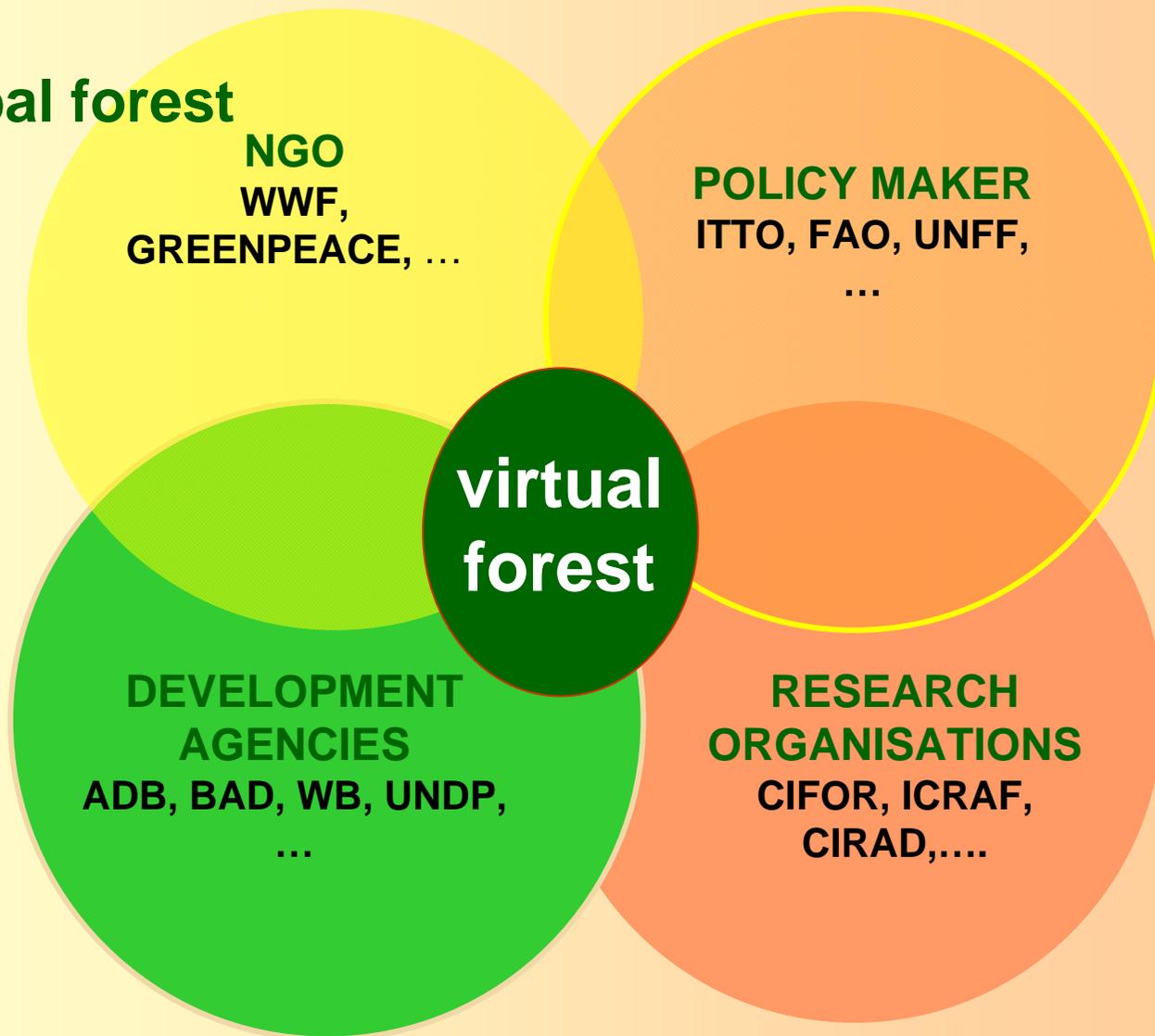
Land use management

Stakeholders involvment



Technology transfert for forest sustainable management

From global forest



Technology transfert for forest sustainable mangement

To local forest





Cirad

**Thank you
for your attention**