

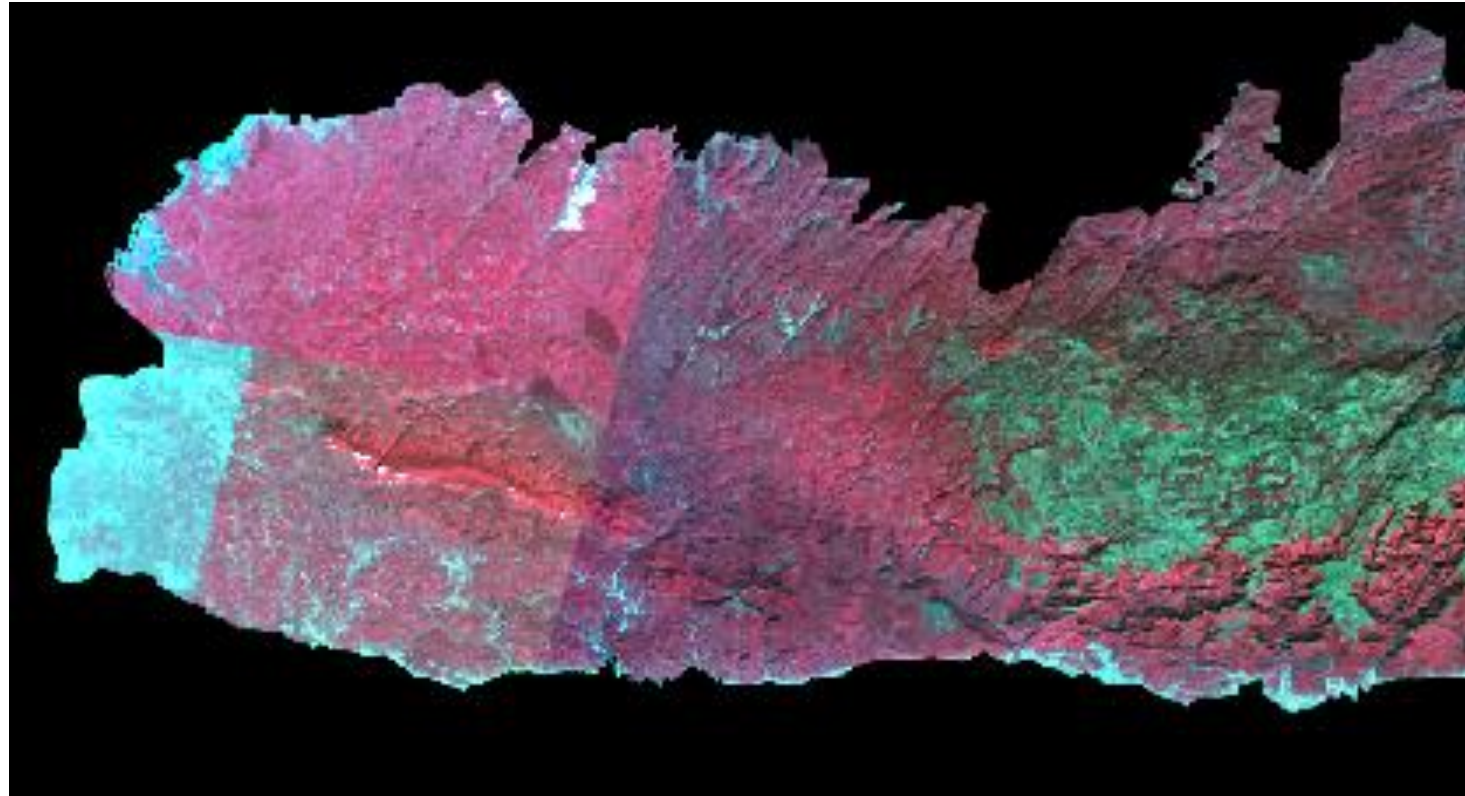
Finland's engagement and experience in establishing forest monitoring systems in tropical countries

Prof. Timo Tokola, University of Eastern Finland

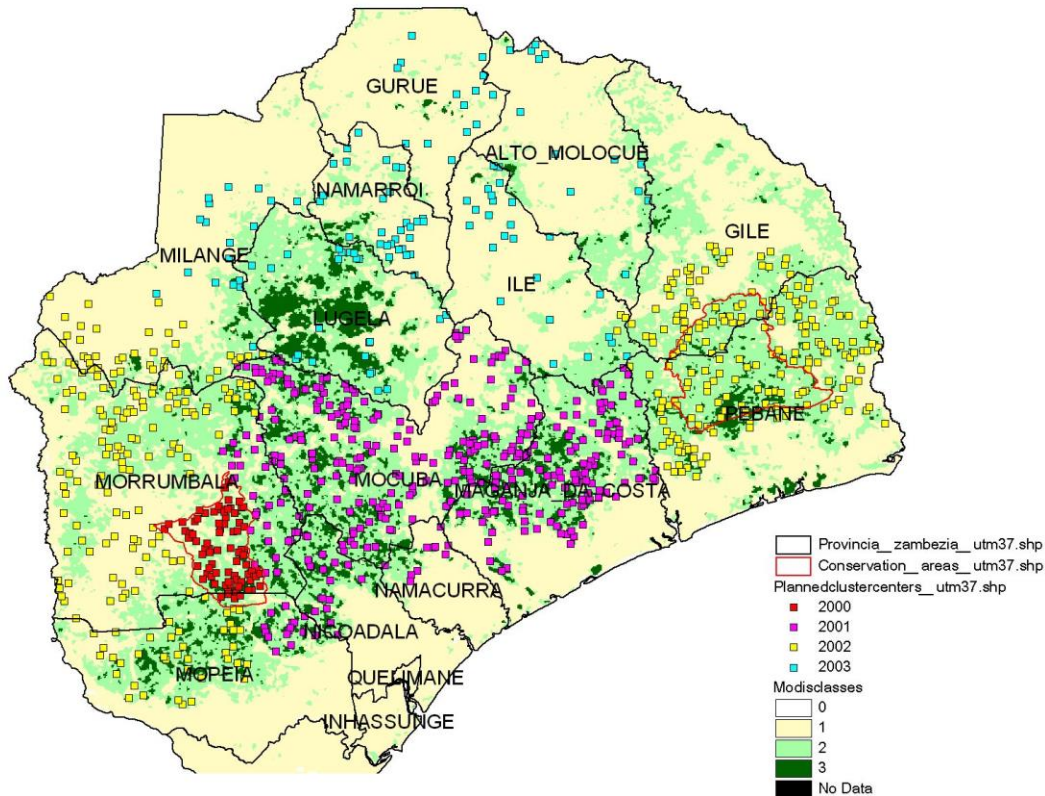
CV of recent projects: Content of presentation

- **Kenya:** Information Management Strategy for Kenya Forest Service. Client: Niras Ltd. (2014, 1,5 months)
- **Vietnam:**
 - Planning Mission for FORMIS II project, Preparation of Project Documents for Second Phase, Team Leader, Client: HCG Consulting Ltd. (2011, 1 month),
 - Planning Mission of technical assistance for the Ministry of Agriculture and Rural Development (MARD) as a part of further cooperation in Forest Sector Support Programme in Vietnam, Preparation of Project Documents, IT-Expert, Client: HCG Consulting Ltd. (2008, 1 month)
- **Nepal:** Project Planning Mission of technical assistance of Forest Resource Assessment of Nepal, Preparation of Project Documents, Team Leader, Client: Ramboll Ltd. (2008)
- **FAO:** FAO-Finland Forest Inventory Project Evaluation, Team Member, Client:FAO, (2012, 1 month)
- **Laos:** Forest Monitoring Advisor of SUFORD –project, Lao PDR, Client: Indufor Ltd. (2009-10, 7 months)
- **Mosambique:** Calculation of Forest Inventory Results of Zambesi & Inhambane. Client: Indufor Ltd.
- **India:** Technical Collaboration with Forest Survey of India (2002-2004), Client: Indufor Ltd/ Soil&Water Ltd. , EC programme coordinator.

India – NFI & ForestCover



Mosambique – Provincial Forests



INVENTORY --- Results, District (region) file number: 7

Utilities Options

Stratum: Total

General data | Species information | Tree species groups

Species: Pterocarpus angolensis

Quality: Quality | All classes

Land use: Land use

Retrieve

Hide zero columns

Cumulative plot area (ha): 96.000

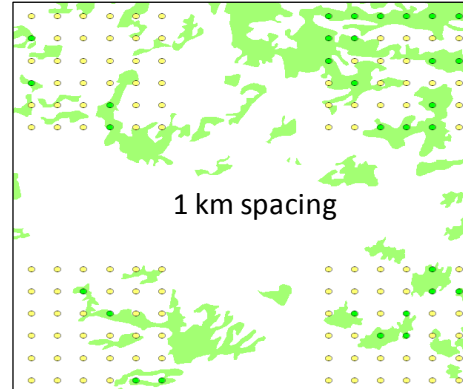
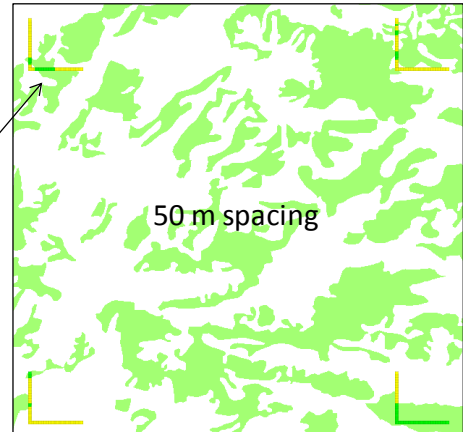
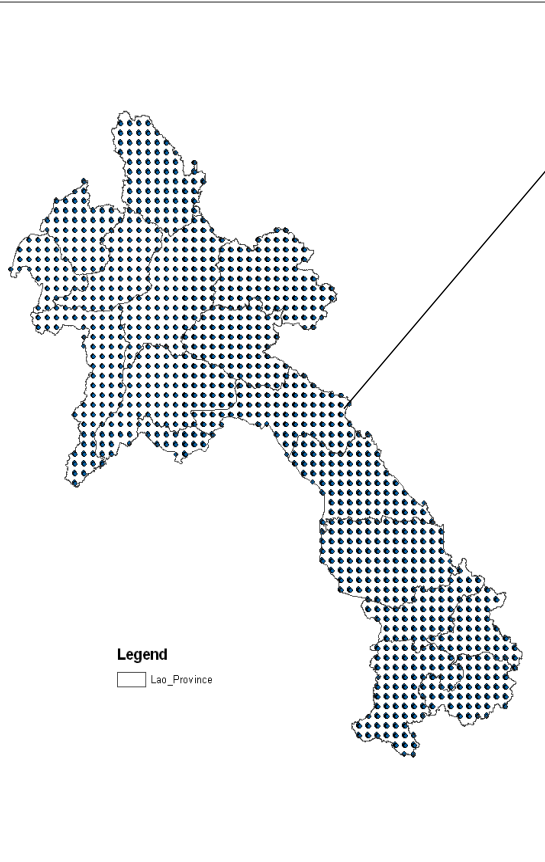
Stratum: Total

Pterocarpus angolensis

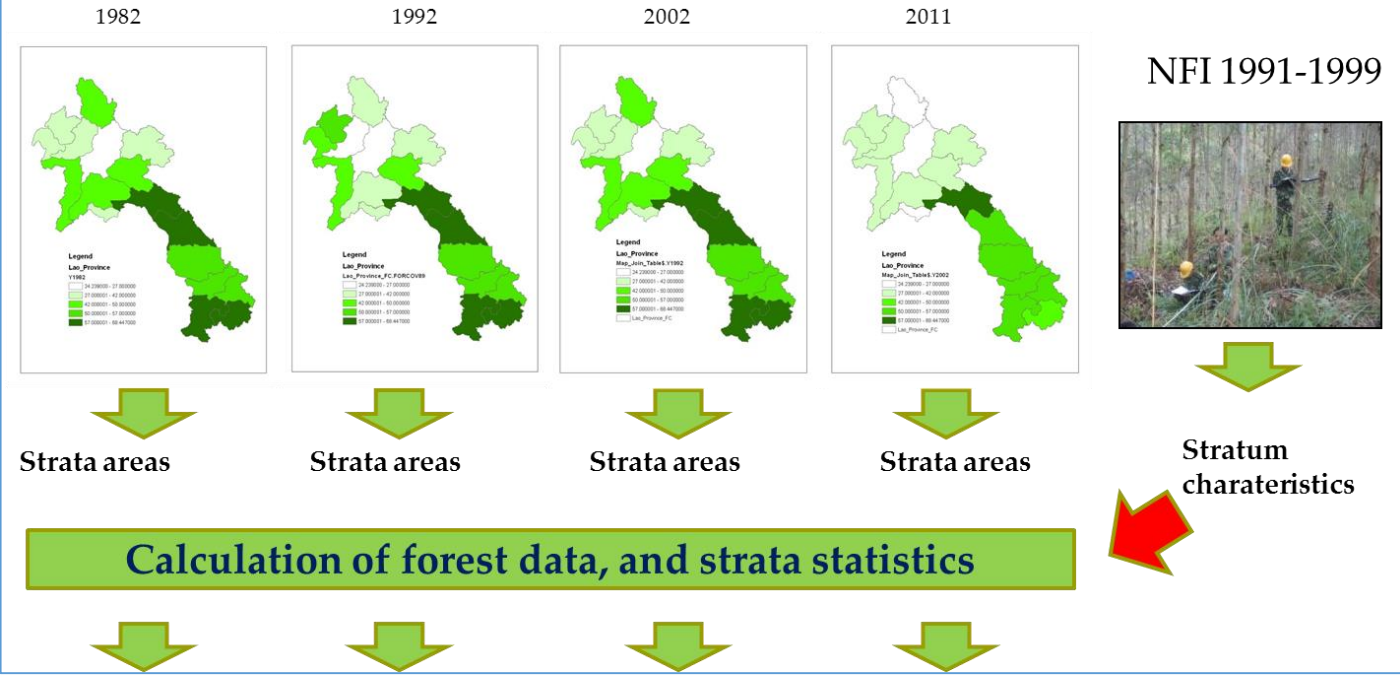
Land use

Total	/ ha	Diameter class, Total				Mean values		Quality, Total	Quality, /ha
		A	LF3	LF1	PF	WG	T	Other	Total
Area	(ha)	2 503.1	317 155.6	34 354.2	0	32 008.2	15 738.1	13 235.0	580 525.1
Volume	(m3)	0.0	5.7	4.6	0.0	5.2	3.8	2.7	5.4
Bole	(m3)	0.0	2.0	1.4	0.0	1.5	1.4	0.9	1.9
Pole	(m3)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	(m3)	0.0	3.6	3.1	0.0	3.8	2.4	1.8	3.5
Increment	(m3/1 a)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Value	(MT)	0	1 811 068	1 573 484	0	1 878 860	1 207 553	888 479	1 759 421
Bole	(MT)	0	0	0	0	0	0	0	0
Pole	(MT)	0	0	0	0	0	0	0	0
Other	(MT)	0	1 811 068	1 573 484	0	1 878 860	1 207 553	888 479	1 759 421
Value increment	(MT)	0	0	0	0	0	0	0	0
Density		0.0	19.8	22.1	0.0	19.0	11.1	2.3	18.6
Basal area	(m2)	0.0	0.7	0.5	0	0.7	0.5	0.3	0.6

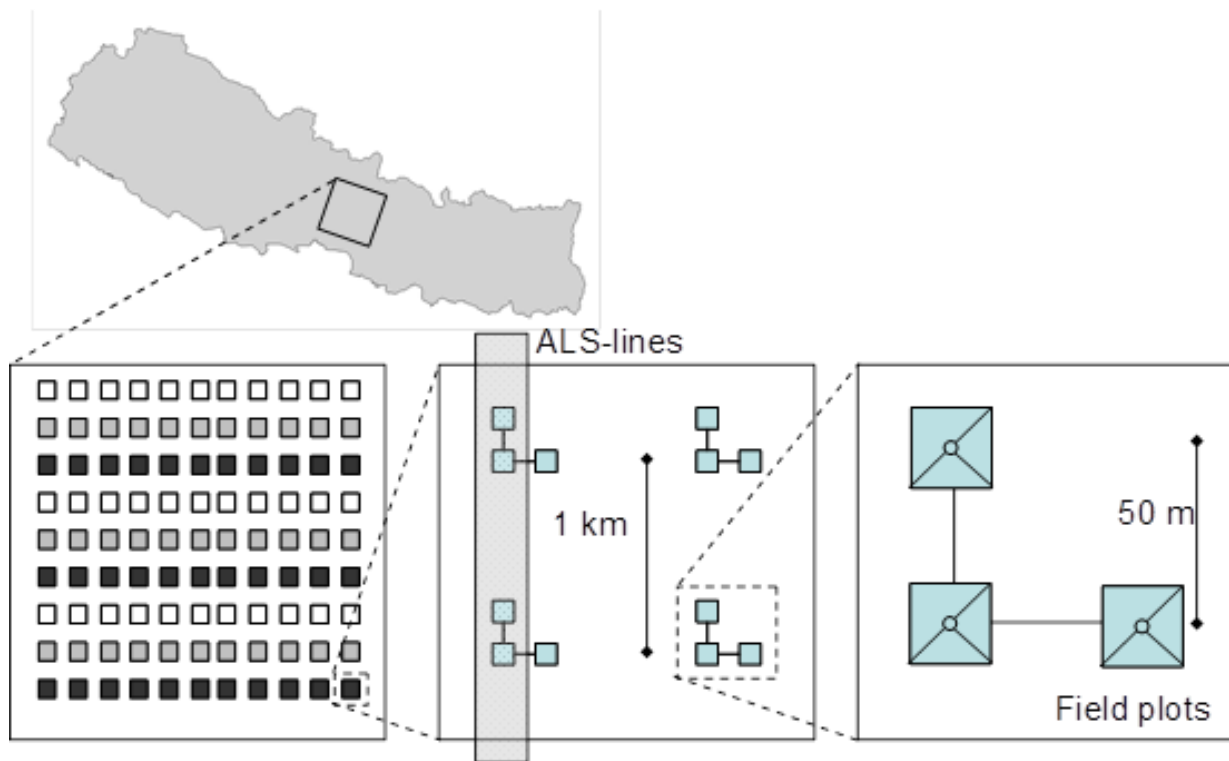
Laos



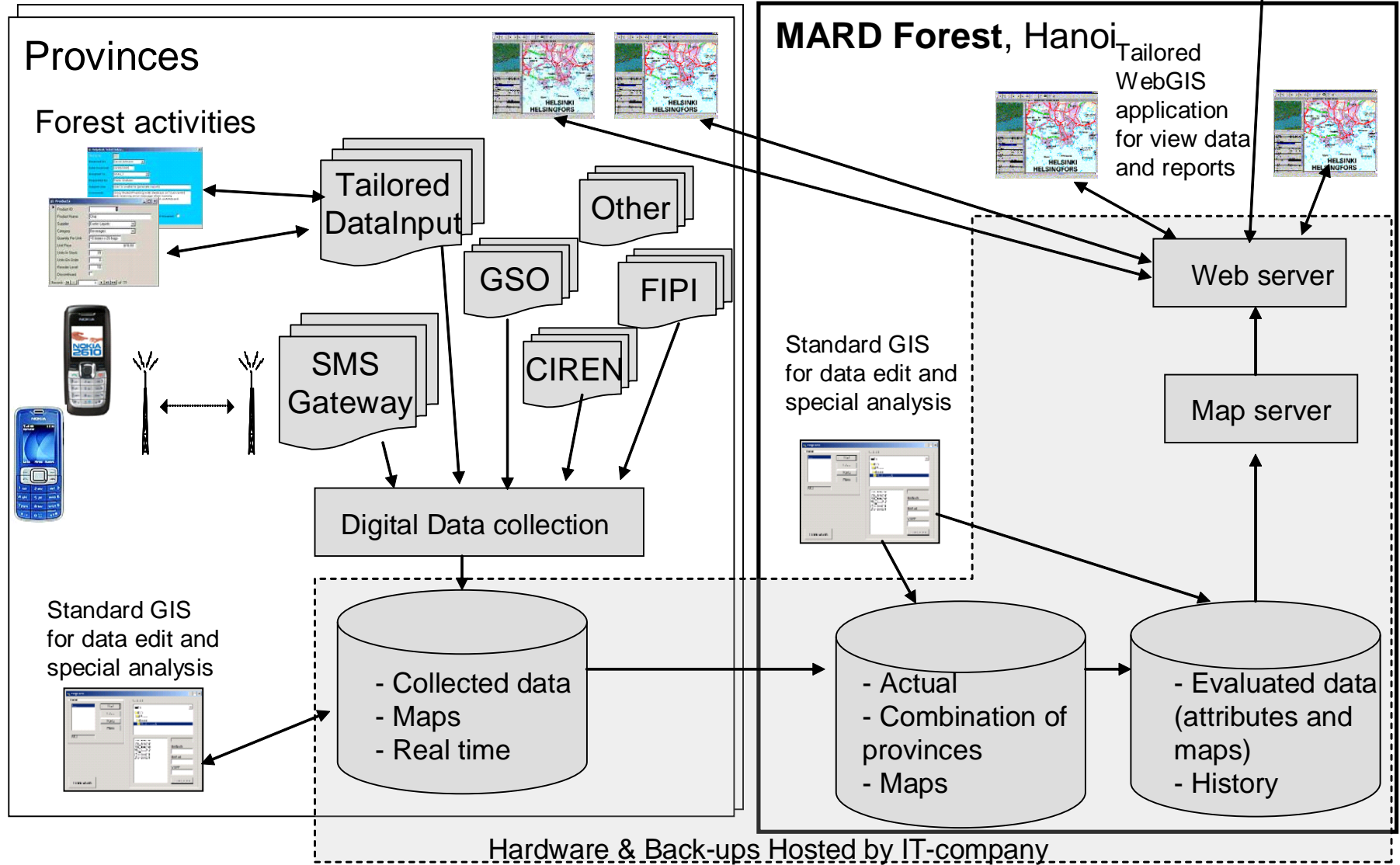
Remote sensing data of different years



Nepal - NFI



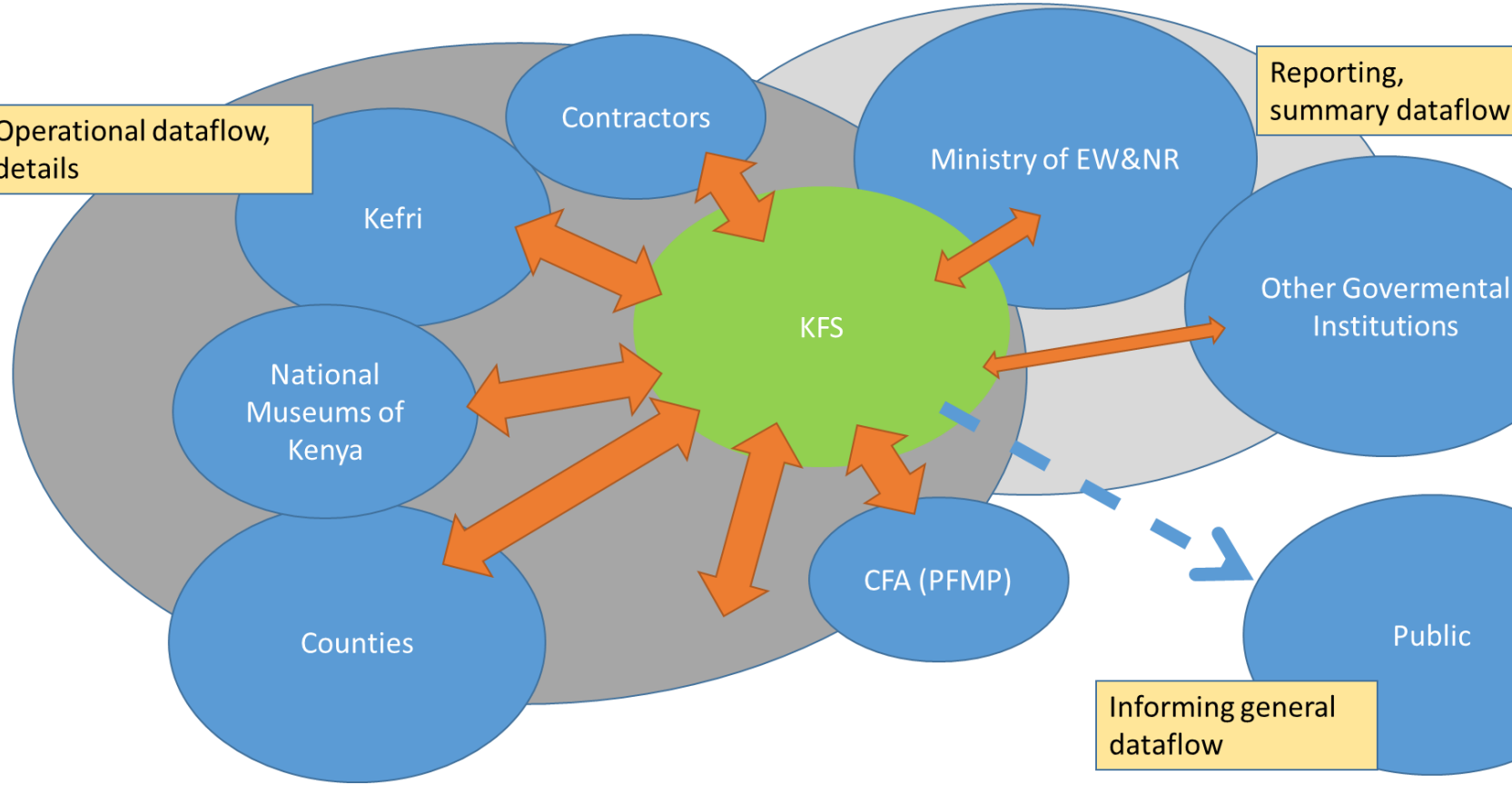
Vietnam – Forest activities



Kenya – KFS Strategy



Operational dataflow, details



Reporting, summary dataflow

Informing general dataflow

Conclusions

- Joint development of IT systems needed; ready made software systems not adapted
- FI Expertise often lacking and resulting expensive solutions without reliable results -> no useful results in the end
- Very often budgets are also underestimated.
- Often socio-economic expertise used in technical subjects....
- Project document adjusted always according to needs of implementing consultant -> sometimes terrible outcomes, quality control limited
- Reliability of results is not much appreciated (FAO)
- OpenSource solutions are taking over !
- Co-operation between agriculture, wildlife, census and forestry is neededof
- Lot of research could be done with data collected in projects -> open data policy !