

International Institute for Geo-Information Science and Earth Observation ITC

"From Capacity Building to Building on Capacity"

Martien Molenaar Rector

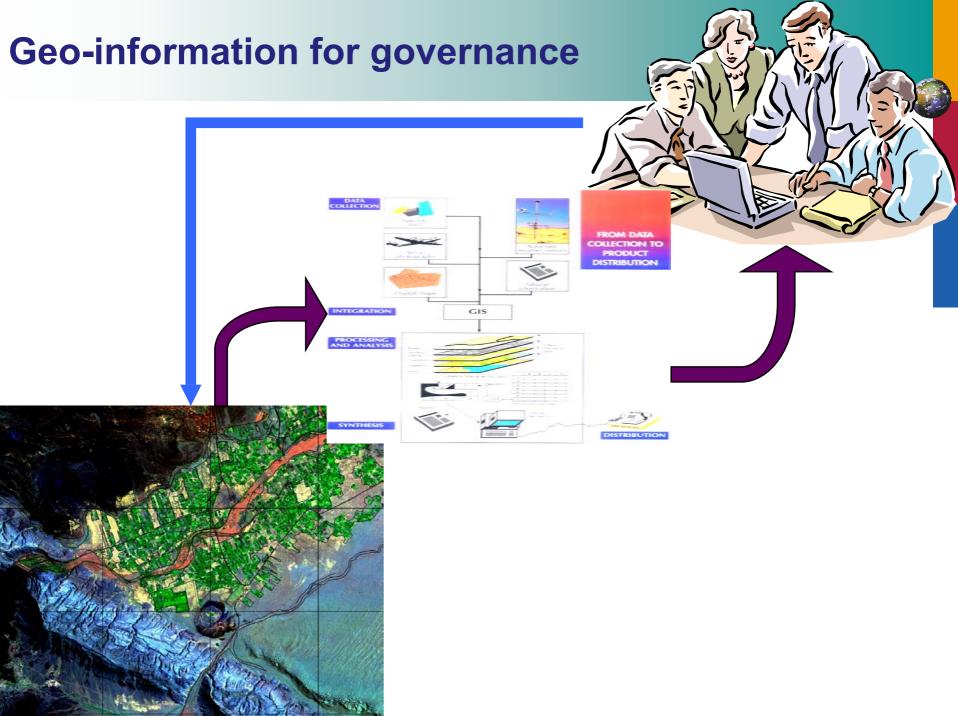






- An institute for international education since 1950
- The knowledge field of ITC is Geo-information Science and Earth Observation
- The activities of ITC aim primarily at <u>capacity building</u> and <u>institutional development</u>
- The focus is on LDC's
- Annual budget ~ 21 + 8 M€,
 Staff 250 FTE 280 persons (Ac staff:130 FTE)





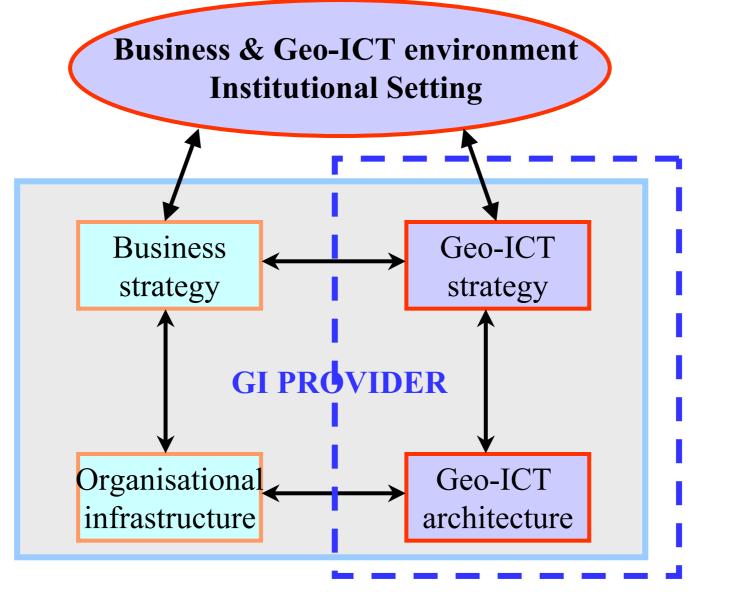
Elements of governance

- Multi level policy implementation
- Multi actor policy implementation
- Multi facetted character of problems and objectives
- Multi instrumental character of policy strategies
- Multi resource base for policy implementation



Bressers and Kuks, 2003

Required business strategies





Courtesy Yola Georgiadou

PURPOSE	FOCUS
HUMAN RESOURCES DEVELOPMENT	Supply of technical and professional personnel
ORGANIZATIONAL STRENGTHENING	Strengthening the management capacity of organizations: embedding GITC (systems and processes) embedding strategic management principles
INSTITUTIONAL STRENGTHENING	Strengthening the capacity to develop and negotiate appropriate mandates and modus operandi as well as appropriate legal and regulatory frameworks



1.Experts in the field of spatial information handling (or specialists in certain aspects of this field),

2.Users of geo-information and

3.Professionals and policy makers, aware of the importance of geo-information for Civil Society.



Two types of focal problem areas:

- Problem areas should where geoinformation science and earth observation play an essential role to find solutions
- Problem areas that need solutions to guarantee relevant, economic, timely and reliable information provision



ITC Scientific departments:

Earth Observation Science	(EOS)
Geo-Information Processing	(GIP)
Urban Planning and Geo-Info Management	(PGM)
Natural Resources	(NRS)
Water Resources	(WRS)
Earth Systems Analysis	(ESA)





Geo-information provision for:

- **1** strengthening civil society
- **2** the multifunctional use of space
- **3 natural disasters and environment**
- 4 food and water security
- **5 global change monitoring.**



PhD program

42 months

MSc Program18 monthsMSc in Geo-information Science and Earth Observation

(Professional) Master Program 12 months Master in Geo-information Science and Earth Observation

Short tailor-made courses



MSc program

Geoinformatics	GFM
Geo-information Management	GIM
Urban Planning and Management	UPM
Natural Resources Management	NRS
Water Resources and Environmental Management	WREM
Applied Earth Sciences	AES
Environmental Modeling and Management	GEM

of Lund, Southampton, Warsaw

ITC leads *Erasmus Mundus* program with universities



MSc program (in preparation)

Land Administration

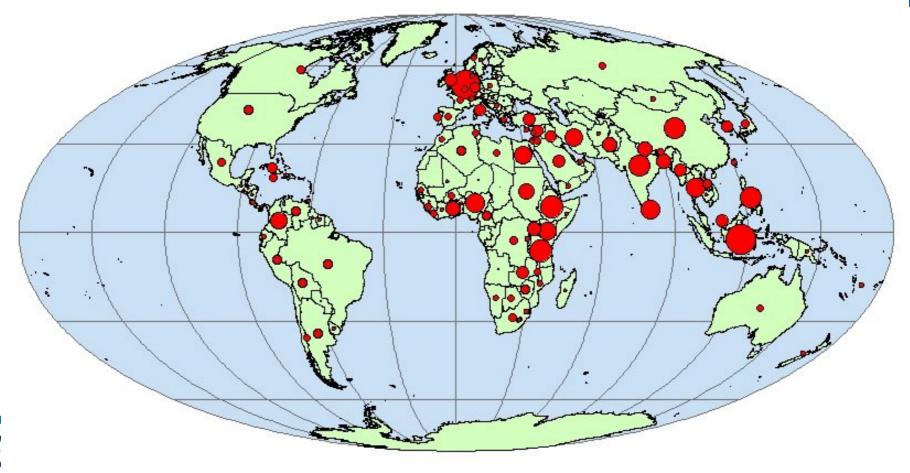
- Governance and Spatial Information Management
- (Professional) Master program
 - Geoinformatics GFM
 - Geo-information Management GIM
 - Natural Resources Management NRS



Total course participants 1950 – 2005: 17.000*

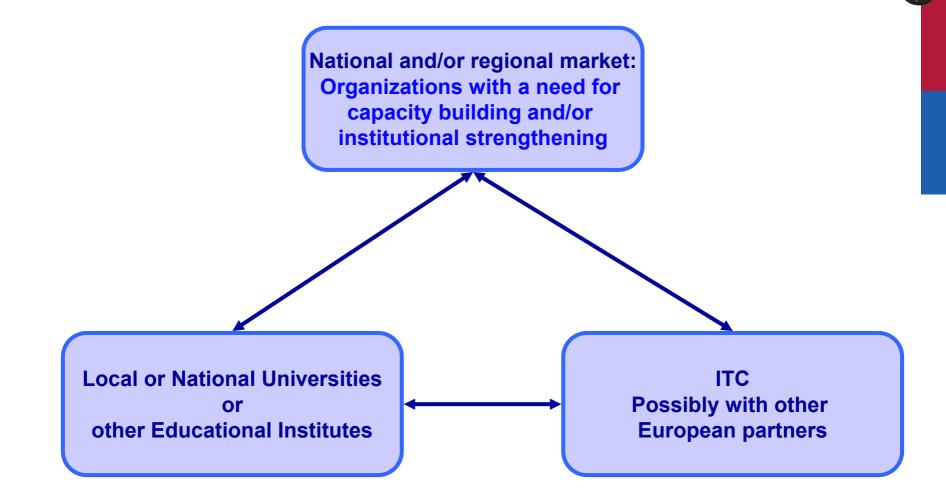


Total countries 1950 – 2005: 165



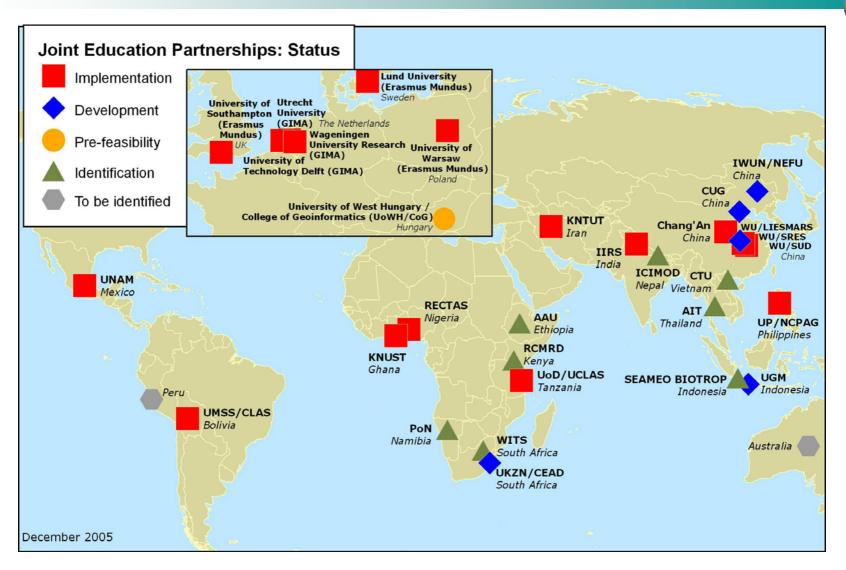
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PARTNERSHIPS FOR EDUCATION





PARTNERSHIPS FOR EDUCATION





United Nations University

- **ITC is associated organization of UNU**
 - Capacity building program for Land Administration
 - Capacity building program for Disaster Management
- UN-Habitat UN-OOSA UNESCO FAO

GEO Capacity Building Program



Every morning in Africa, a gazelle wakes up

It knows it must run faster than the fastest lion or will be killed.

Every morning a lion wakes up.

It knows that it must outrun the slowest gazelle or it will starve to death.

It doesn't matter whether you are a lion or a gazelle.

When the sun comes up, you better start running.





Thank you



Good Governance requires Good Geo-information



Cooperation with Dutch Universities

- University Twente (penvoerder)
- University Utrecht
- Technical University Delft
- Wageningen University and Research (WUR)



Urban Planning and Land Administration

Process	Data acquisition	Storage & retrieval	Processing & presentation	Dissemination & use
Application domain				
Technology				
Information management				
Inst. setting & policy				

Primary subject	Tertiary subject
Secundary subject	No subject



Natural Resource Management; Water Resources and Environmental Management Earth Resources and Environmental Geosciences

Process	Data acquisition	Storage & retrieval	Processing & presentation	Dissemination & use
Application domain				
Technology				
Information management				
Inst. setting & policy				

Primary subject	Tertiary subject
Secundary subject	No subject



Geoinformatics

Process	Data acquisition	Storage & retrieval	Processing & presentation	Dissemination & use
Application domain				
Technology				
Information management				
Inst. setting & policy				

Primary subject	Tertiary subject
Secundary subject	No subject



Geoinformation management

Process	Data acquisition	Storage & retrieval	Processing & presentation	Dissemination & use
Application domain				
Technology				
Information management				
Inst. setting & policy				

Primary subject	Tertiary subject
Secundary subject	No subject

