

International Institute for Geo-Information Science and Earth Observation ITC

"From Capacity Building to Building on Capacity"

Martien Molenaar Rector

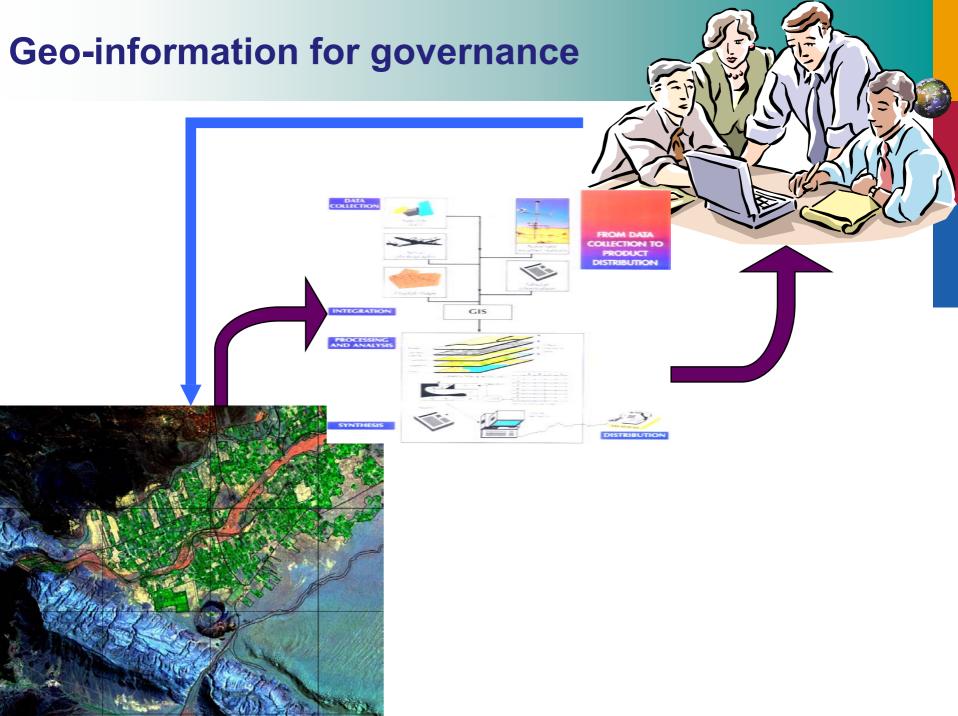






- An institute for international education since 1950
- The knowledge field of ITC is Geo-information Science and Earth Observation
- The activities of ITC aim primarily at <u>capacity building</u> and <u>institutional development</u>
- The focus is on LDC's
- Annual budget ~ 21 + 8 M€,
 Staff 250 FTE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





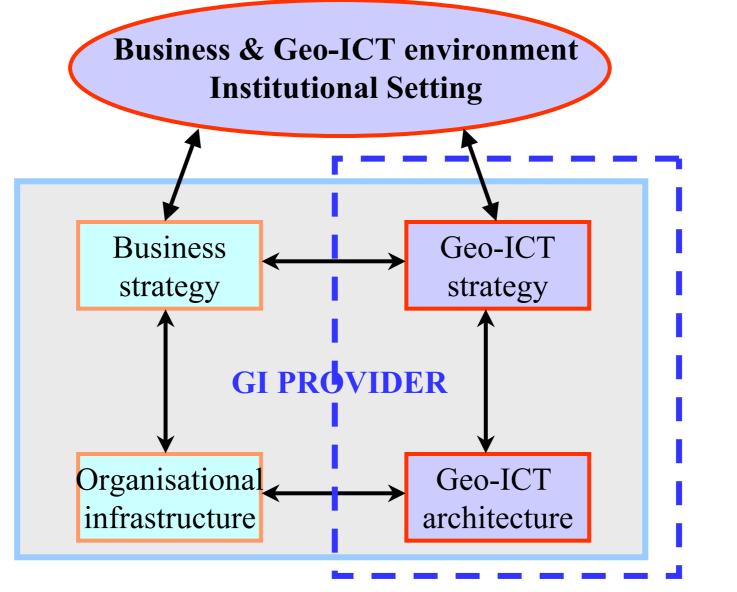
Elements of governance

- 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

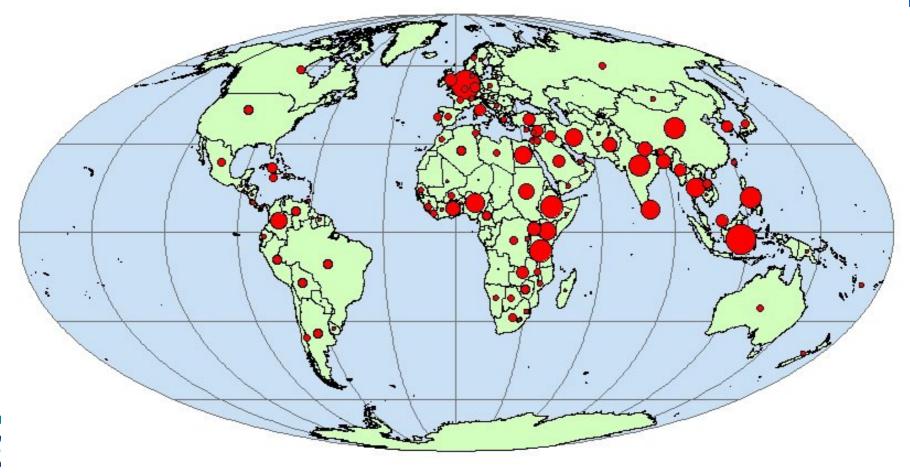
- Governance and Spatial Information Management
- (Professional) Master program
 - Geoinformatics GFM
 - Geo-information Management GIM
 - Natural Resources Management NRS



Total course participants 1950 – 2005: 17.000*



Total countries 1950 – 2005: 165



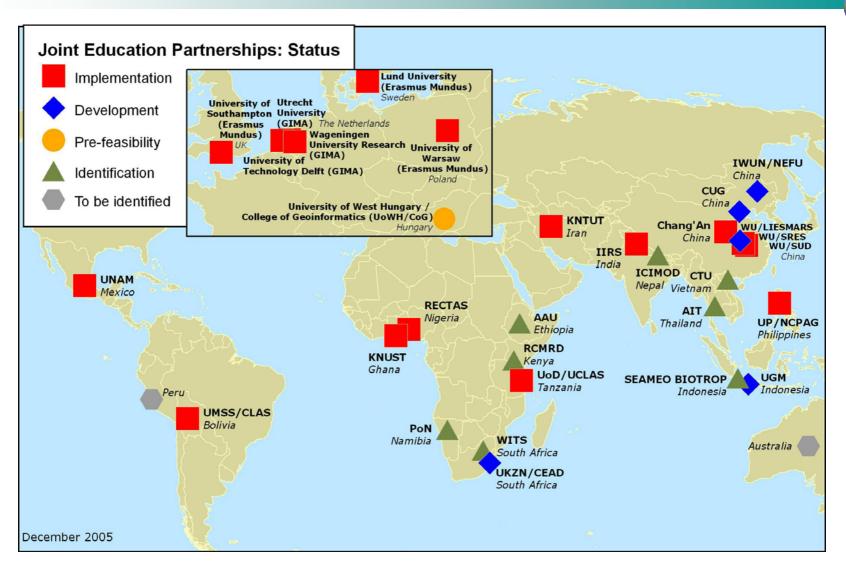
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PARTNERSHIPS FOR EDUCATION





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 |
|-------------------|------------------|
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Geoinformation management

| Process | Data acquisition | Storage & retrieval | Processing & presentation | Dissemination & use |
|------------------------|---------------------|---------------------------|---------------------------------|---------------------------|
| Application domain | | | | |
| Technology | | | | |
| Information management | | | | |
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