



Potentials of **GEONETCast** for

Delivering Environmental Data to Users Worldwide

(Distance) Education in EO in Africa

Ben Maathuis - Chris Mannaerts, WRS, ITC



AFRICAGIS2009: ISPRS TCVI SPECIAL SESSION ON EDUCATION AND OUTREACH
28th October 2009, Munyonyo, Uganda



What is needed for effective CB ?

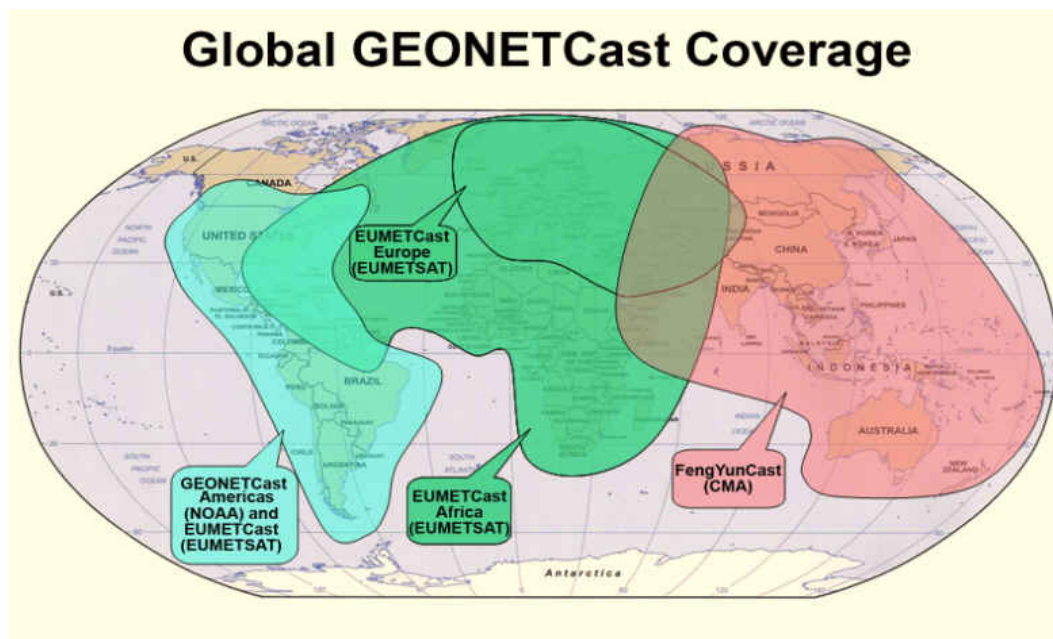
- Free access to ***data*** -> GEONETCast
- Free access to ***tools*** -> freeware and open source software
- ***Training*** provision -> availability and provision of relevant information and training materials
 - To reach large groups in a cost-effective manner:

self learning and E-learning based!

Free access to data: GEONETCast

GEONETCast is a system uniting regional data dissemination systems:

- **EUMETCast** (EUMETSAT): Europe, Africa, and parts of Americas
- **FengYunCast** (Chinese Meteorological Administration): Asia and parts of Pacific
- **GEONETCast Americas** (NOAA): North, Central and South America



GEONETCast African Service



Atlantic Bird 3 C-band dBW footprint



Satellite Dish
installed at
CGIS-NUR

Satellite Dish
installed at
RCMRD

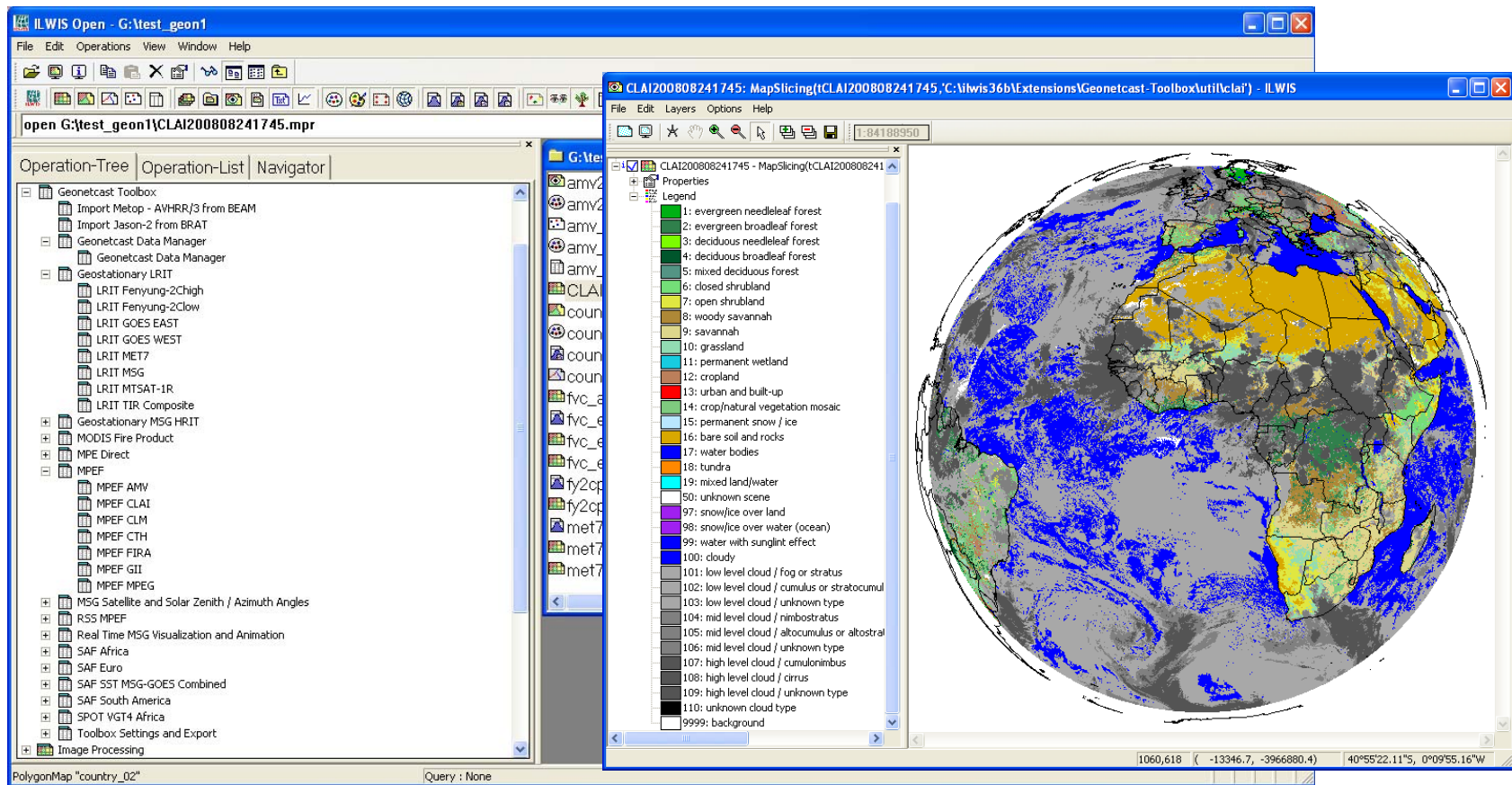


Satellite
Dish
installed at
Makarere
University

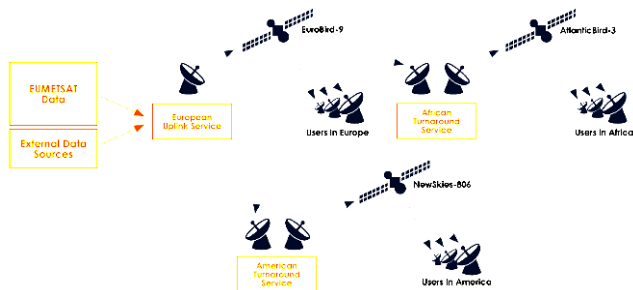


Free access to tools

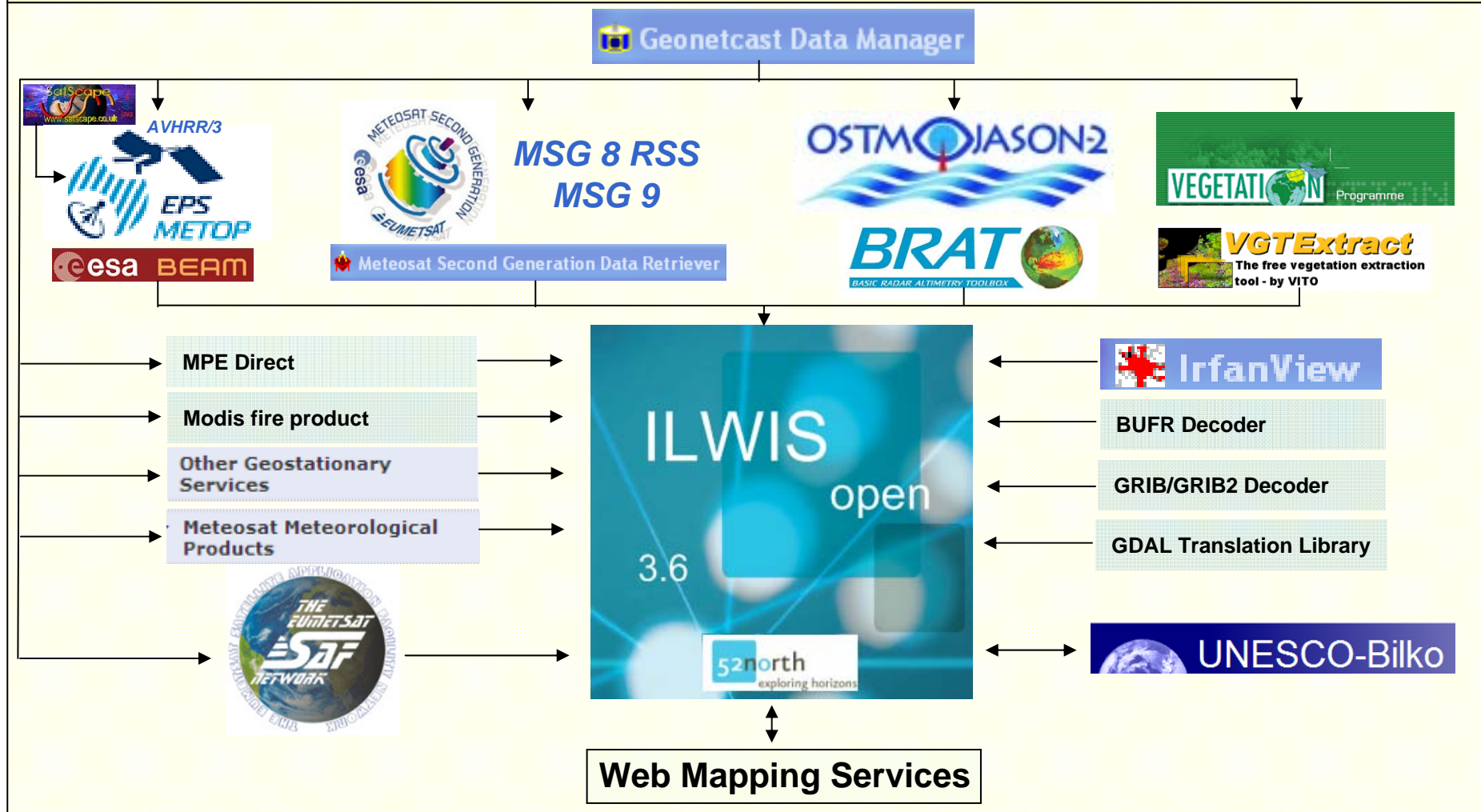
GEONETCast Toolbox Key features: Geonetcast data management system for storage and retrieval of data, 64 import routines for various satellites, MPEF-SAF and VGT products, export routines to BILKO (2), MSG-9 real time visualization and calculator of solar and MSG zenith and azimuth angles



.....more utilities under development



The ITC GEONETCast Toolbox Approach using Open Source and Freeware



Use of the tools, example ILWIS

52north
exploring horizons

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Ilwis

Category: Ilwis Page: 1 of 1
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Ilwis

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	52n-Ilwis-v3.06.01.zip <small>NEW</small> <small>HOT</small>	Version: 3.6.01	2009-05-11	Downloads: 1340 <input type="checkbox"/>
Fixes to the 3.6				
	52n-Ilwis-v3.06.00.zip <small>HOT</small>	Version: 3.06	2009-04-21	Downloads: 5490 <input type="checkbox"/>
Ilwis Open Version 3.06: includes full GDAL integration				
	52n-Ilwis-v3-05-02.zip <small>HOT</small>		2008-12-09	Downloads: 8610 <input type="checkbox"/>
52n-Ilwis-v3-05-02.zip				
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Use of the tools, example ILWIS

Next to ILWIS also 120+ registered downloads of the toolbox, online since July 2009

The screenshot shows the 52north website interface. The header features the text "exploring horizons". The left sidebar contains navigation links: Home, Downloads, Source Repository, About, Get Involved, Publications, References, 52N Communities, Sensor Web, Security & GeoRM, Geo-Processing, ILWIS, Semantics, and Students Corner. The main content area is titled "Downloads" and shows a search bar with "ilwis 3.06" entered. Below the search bar, a yellow box displays "Category: ilwis 3.06" and "Page: 1 of 1". A link "ILWIS 3.06.1- split volumes install" is highlighted with an arrow pointing to the text "More than 1.000 downloads". Below this, a table lists files for download, including "52n-ilwis-v3.06.01.zip" with a "HOT" label. The table also shows the version "3.6.01", the date "2009-05-11", and the download count "16012", which is circled with a dashed line. The bottom of the page shows the OGC Associate Member logo and a note about bug fixes.

52north

Home Downloads

Downloads

Overview Search Downloads

Category: ilwis 3.06 Page: 1 of 1

Number of Subcategories: 1

ilwis 3.06

ILWIS 3.06.1- split volumes install

This folder contains an alternative download option: ILWIS 3.06.1 download in multiple files. We suggest you use this download option if you have troubles downloading the entire ILWIS 3.06.01.zip.

Number of files: 10

52n-ilwis-v3.06.01.zip HOT

Version: 3.6.01 2009-05-11 Downloads: 16012

This release contains a number of bug fixes to the 3.6

OGC Associate Member

Calendar

Latest News

- 52North @ INTERGEO 2009!
- Stellenanzeige/Position open
- 52N Security API Release 2.0.4 available
- ** New Telephone Numbers!
- 52North Student Innovation Prize for Geoinformatics

Statistics of 17-09-2009

Provision of information and tools on the WEB

GEONETCast - Windows Internet Explorer

http://intranet.itc.nl/science/wrs/geonetcast/default.aspx

Copernic Agent

Google

powered by YAHOO! SEARCH

GEONETCast

Weather in Twente

ITC Intranet

- WRS department
 - Ongoing projects
 - NFP Eligible Countries
 - ITC-WRS colloquia
 - wrs bulletins
 - Research
 - Documents
 - Private pages
 - GEONETCast

GEONETCast, Meteosat 2nd generation - 19 May 2009



08:45

Latest animated gif of the weather in Europe (19 May 2009, 09:03).

For more information on GEONETCast, please contact [Ben Maathuis](#) or [Chris Mannaerts](#).
For data, please contact [Gerard Reinink](#).

For more information on ILWIS and the GEONETCast toolbox, please contact [Martin Schouwenburg](#) and [Bas Retsios](#).
To download ILWIS, refer to [52n.org](#).



09:00

Latest image processed (19 May 2009, 09:02).

GEONETCast

- Overview and toolbox
- Other useful software tools

Papers

- AARSE 2006
- ISPRS 2008
- ISPRS 7 May 2006

Awards

- ISPRS C@tcon 5

Getting started with ILWIS 3.6 and the GEONETCast toolbox plug-in

- Toolbox (.ZIP, 46 MB)
- Installation guide
- Configuration guide

New geonetcast ground receiving station

- station RCMRD Kenya

Posters

- GEONETCast toolbox
- ILWIS 3.5 toolbox
- MSG erosion
- MSG Rwanda
- MSG WRM
- NDVI Africa
- NDVI archive
- Forest fires Portugal

DevCoCast

EUMETSAT GEONETCast GEO EUROPEAN COMMISSION

Local intranet 100%

Available at: [HTTP://WWW.ITC.NL](http://www.itc.nl)

Website statistics

www.itc.nl

Content by Title

Sep 1, 2009 - Sep 22, 2009

Comparing to: Site



1 page titles were viewed a total of 936 times

Filtered for page titles containing "GEONETCast toolbox"

Content Performance

<div>Pageviews</div> <div>936</div> <div>% of Site Total: 0.64%</div>	<div>Unique Pageviews</div> <div>730</div> <div>% of Site Total: 0.72%</div>	<div>Avg. Time on Page</div> <div>00:01:45</div> <div>Site Avg: 00:01:34 (11.90%)</div>	<div>Bounce Rate</div> <div>56.90%</div> <div>Site Avg: 50.25% (13.22%)</div>	<div>% Exit</div> <div>20.30%</div> <div>Site Avg: 26.45% (-23.24%)</div>	<div>\$ Index</div> <div>\$0.00</div> <div>Site Avg: \$0.00 (0.00%)</div>	
Page Title	Pageviews	Unique Pageviews	Avg. Time on Page	Bounce Rate	% Exit	\$ Index
ITC - GEONETCast toolbox	936	730	00:01:45	56.90%	20.30%	\$0.00

1 - 1 of 1

http://52north.org/twiki/bin/view/GEONETCAST/GEONETCastWebsite

GEONETCastWebsite < GEONETCAST < TWiki - Windows Internet Explorer

http://52north.org/twiki/bin/view/GEONETCAST/GEONETCastWebsite

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Jump Search

GEONETCAST Edit Attach Printable

You are here: TWiki > GEONETCAST Web > GEONETCastWebsite r1 - 27 Aug 2009 - 07:58:28 - BastianSchaeffer ?

Contents

GEONETCast Overview

- Section should contain some short descriptions + further informative documents, similar to <http://www.earthobservations.org/geonetcast.shtml>
- Listing of GEONETCast stations / organizations using GEONETCast per continent, using some sort of interactive map that is regularly updated. Necessary info could be obtained via EUMETSAT, eventually grouped per country.

Upcomming training opportunities / calender

(e.g workshops, distance education, pre-conference events)

User Forum

User can open threads and post questions/answers/best practice

GEONETCast Blog

Professionals working with GEONETCast writing regularly about their experiences and endeavours

Internet



Provision of information and training

- Assisting in setting up ground receiving stations: e.g. Rwanda, Kenya, Uganda, South Africa, Tunisia
- Recently conducted Workshops in Africa:
 - Meteorological Department, Addis Ababa (31)
 - RCMRD, Nairobi (23)
 - IGARSS'09 pre conference event Cape Town (20+)
 - AfricaGIS2009, pre conference event Kampala (220+ appl, 25 selected)
 - Refresher course at CGIS-NUR Butare (165+ appl, 30 selected)
- Also at ITC:
 - Within regular education framework of ITC (in core module & as advanced module)
 - Used in MSc and PhD studies

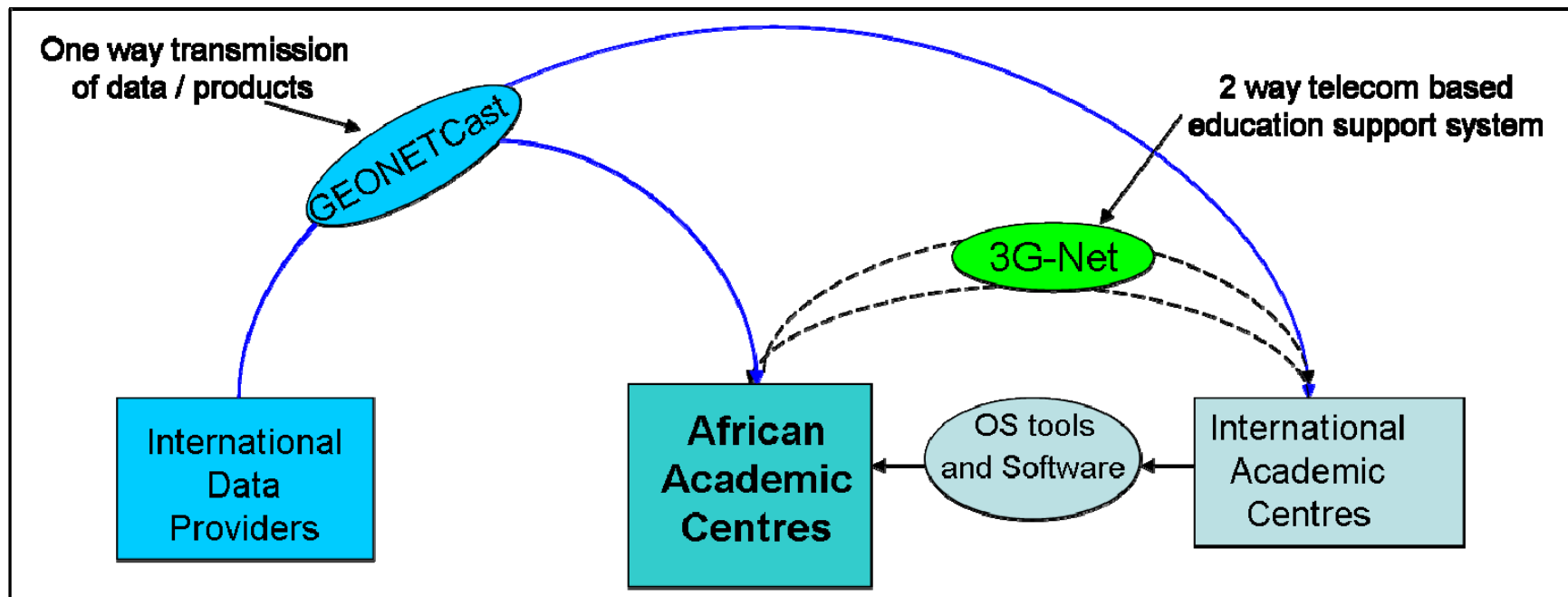


The way ahead....@ ITC

- There is a lot of interest in GEONETCast and use of Open Source GIS from various organizations in Africa;
- To meet their demands Capacity Building needs to be strengthened:
 - Ongoing at ITC:
 - Development of educational materials
 - Further development of distance based education into a DE-GEONETCast course
 - “GEOSS & *GEONETCast approved as Strategic Initiative*” for the next years

Development “*Distance Education course on exploration of GEONETCast through E-Learning*”

For provision of training material also GEONETCast: “**Training Channel**”



High speed USB modem Stick for laptops and desktops

The way ahead....in Africa

Proposal:

- Formation of an “African GEONETCast-community”
 - Start with a workshop hosted by RCMRD;
 - Setup own infrastructure, if not already available;
 - Once up and running, Distance Education based support from ITC or via partners in the community;
 - Development of own applications;
 - Merging of the various applications into a GEONETCast based application guide that can be used by the “community” for their respective capacity building initiatives;
 - Presentation of the results at AARSE-2010.

WHO wants to join?