

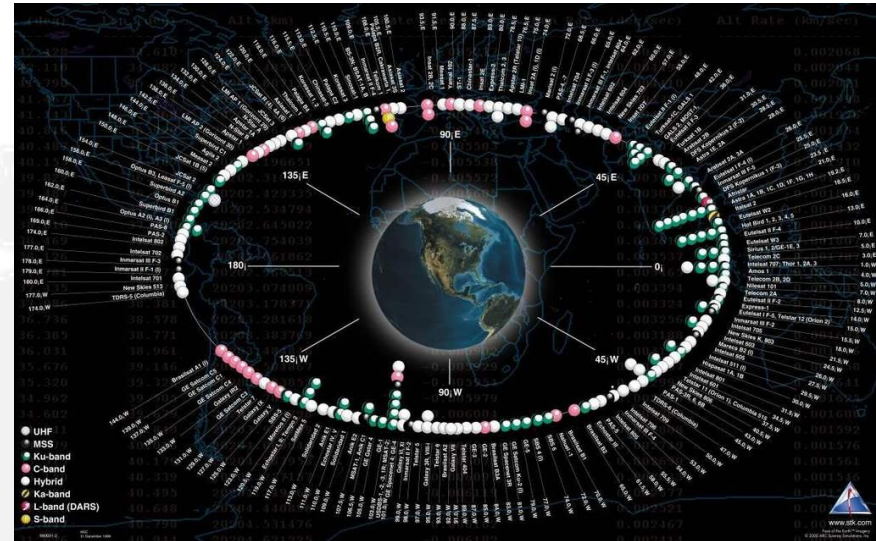


Space in the context of the Development Agenda - The Future We Want -

Cenan Al-Ekabi
European Space Policy Institute

Setting the Scene

- What would happen if space technology was 'turned off' for 15 minutes ...



... in the industrialized world?



© stocksonwallstreet.net/

... in the developing world?



© www.flickr.com/photos/simouns/2369133020/

How Space Can Contribute

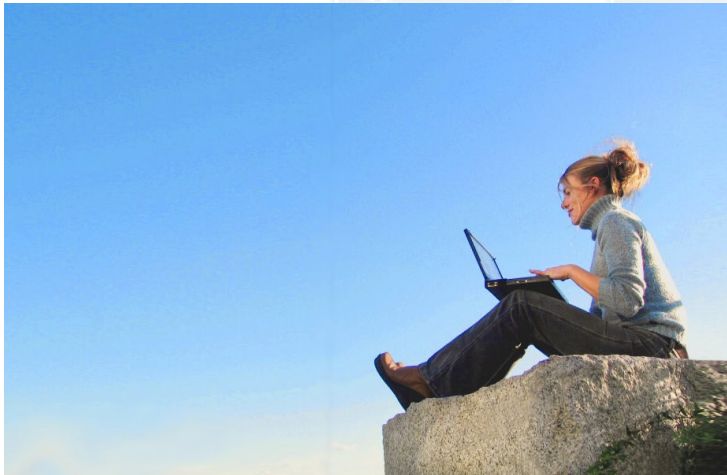
- Kofi Annan's challenge at UNISPACE III (1999)
 - Educational resources and medical expertise to reach remote communities in the world
 - Natural resource management
 - Improved weather forecasting to minimize the effects of natural disasters
 - Experimentation in space to develop innovative agricultural techniques to feed people many times over
 - Satellite monitoring to detect landmines, and even the cultivation of plants used to make illicit drugs

1/3rd of the world's population had never made a telephone call, and only 5% had access to computers.

How Space Contributes – 14 Years Later...

Educational resources and medical expertise to reach remote communities in the world

Entire schools online for free
e.g. www.elearning-africa.com/,
www.avlc-science.org/,
www.coursera.org, www.udacity.com



© www.gvfirms.in

Telehealth & Telemedicine



© vsee.com

How Space Contributes – 14 Years Later...

Natural resource management

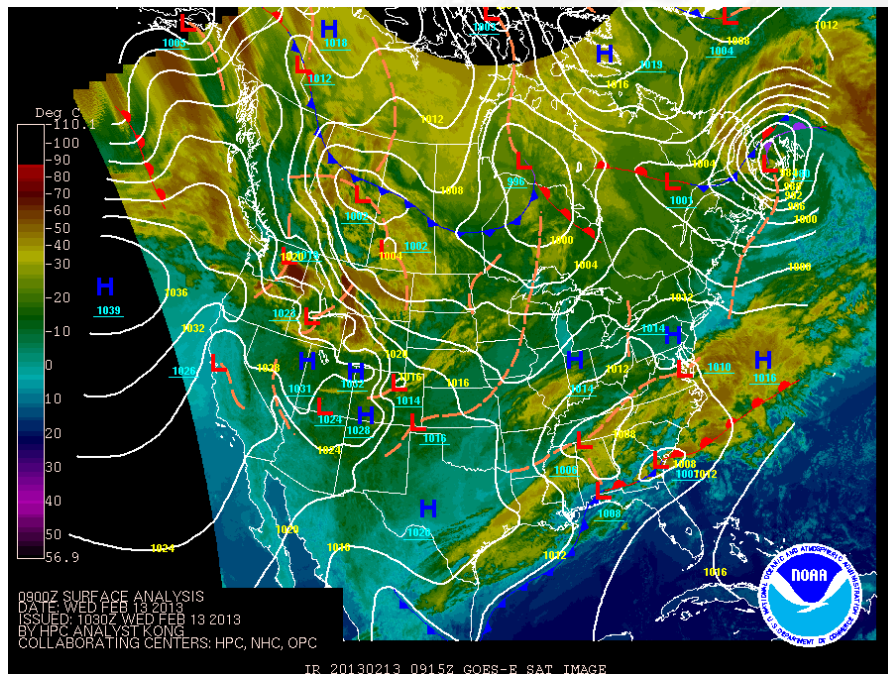


© www.globalharmony.info

How Space Contributes – 14 Years Later...

Improved weather forecasting to minimize the effects of natural disasters

Earth Observation and Telecommunication satellites function as disaster management tools



© www.hpc.ncep.noaa.gov



© www.itu.int/ITU-R

How Space Contributes – 14 Years Later...

Experimentation in space to develop innovative agricultural techniques to feed people many times over

Seeking ways to benefit from high-tech precision farming in small-hold agriculture



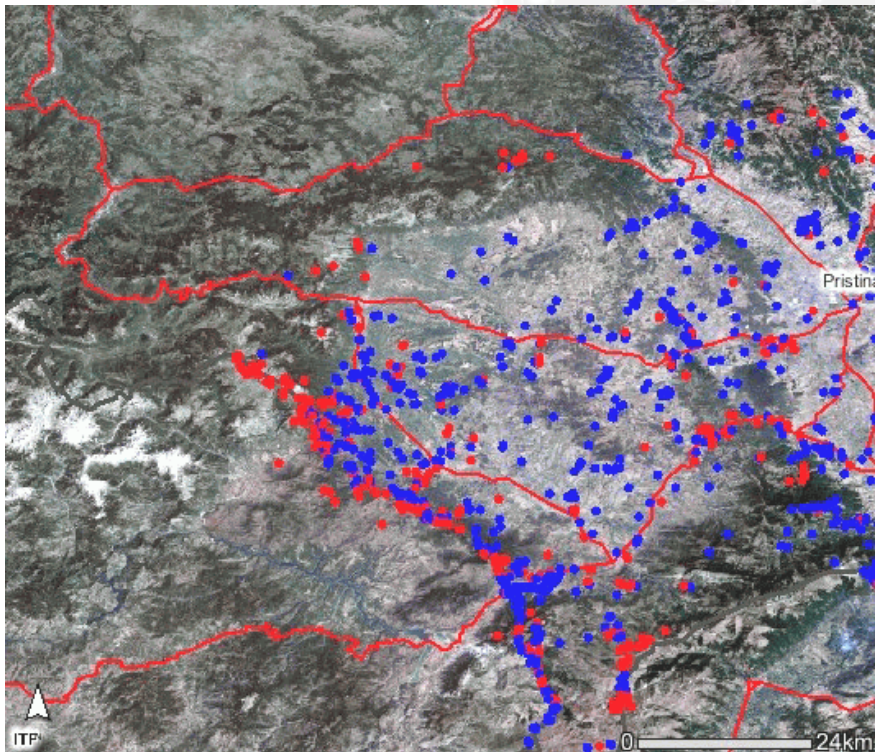
© <http://agriculturaecologica12.blogspot.co.at/2011/04/las-etapas-y-los-instrumentos.html>



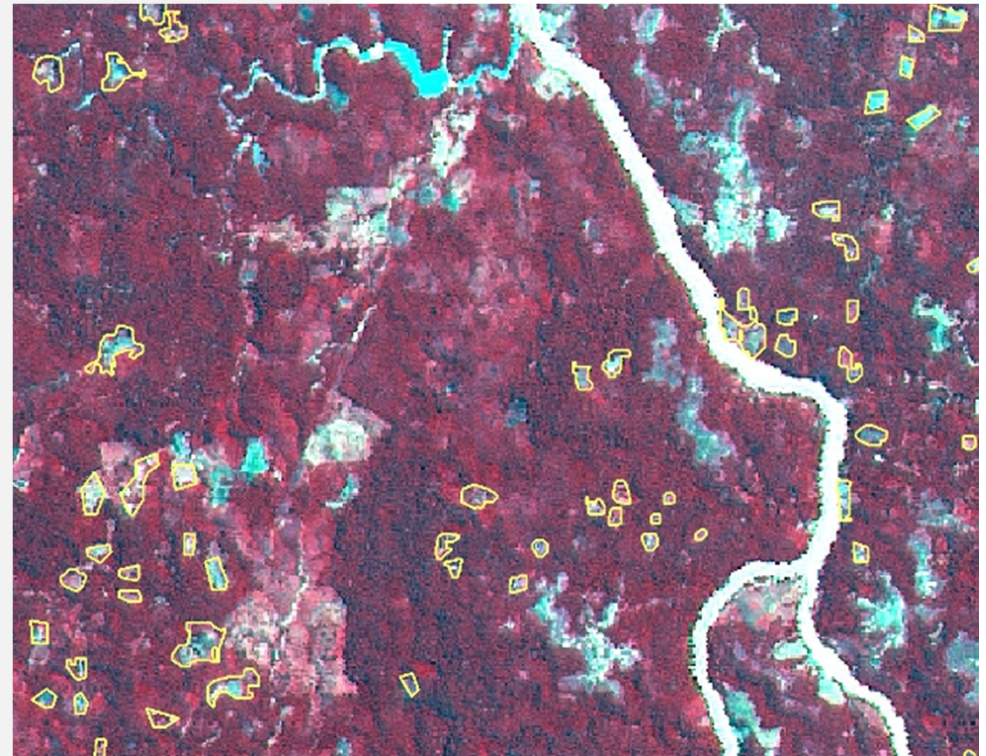
© <http://www.sierraexpressmedia.com>

How Space Contributes – 14 Years Later...

Satellite monitoring to detect landmines, and even the cultivation of plants used to make illicit drugs



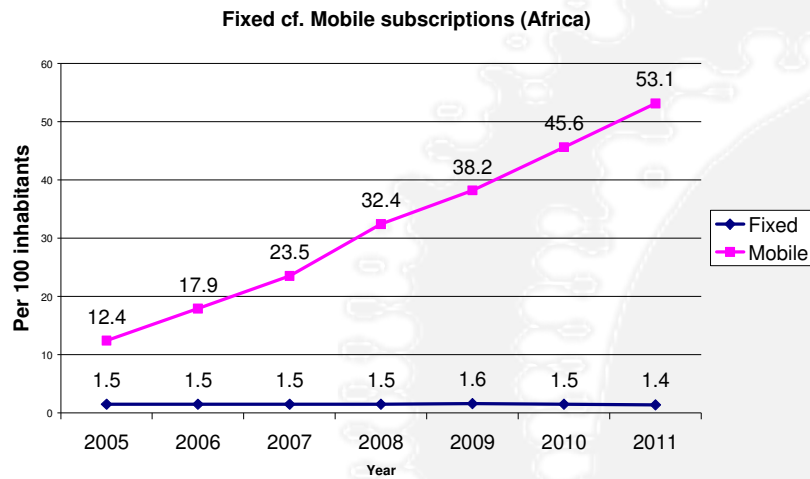
© http://www.directionsmag.com/images/articles/baumann/de-mining/Minska_polja_Kosovo.gif



© <http://www.gmes-gmosaic.eu/node/115>

How Space Contributes – 14 Years Later...

Population: 1.072 billion (2012), second largest next to Asia



© <http://www.experientia.com/blog/africa-banks-on-cell-phones/>



© <http://www.avlc-science.org/img/africa-technology-computer.jpg>



© <http://www.partnersintl.org/blog/news/micro-loans-help-women-overcome-poverty-in-one-of-worlds-poorest-countries>

The Millennium Development Goals (2000)

189 nations pledge to pursue eight goals for 2015

- 1. Eradicate extreme poverty and hunger**
- 2. Achieve universal primary education**
- 3. Promote gender equality and empower women**
 - 1. Reduce child mortality**
 - 1. Improve maternal health**
 - 1. Combat HIV/AIDS, malaria and other diseases**
 - 1. Ensure environmental sustainability**
 - 2. Develop a global partnership for development**

Looking to: The Rio+20 (2012) Conference Outcome – ‘The Future We Want’

- Over \$513 billion mobilized and over 700 commitments made to advance action on sustainable development.
- Some notable actions
 - launching a process to establish sustainable development goals;
 - strengthening the UN Environment Programme and establishing a new forum for sustainable development;
 - developing a strategy for sustainable development financing;
 - stressing the need to engage civil society and incorporate science into policy; and
 - recognizing the importance of voluntary commitments on sustainable development