



Climate & Land Spatial Planning Transport Satellite Images & Tools



Bringing Space down to Earth

Stimulating Operational Use of Satellites in the Netherlands

ESAWAT workshop, May 20 2009, Rotterdam





Content

- Dutch policy drivers
- Mandate within NIVR (NSO)



- Mission, vision, objectives, activities
- Use of space data:
 single measurement, multiple use

Dutch policy drivers relevant for operational use

- ESA/EC Space Policy (a.o. GMES, Galileo, GEO)
- Relevance to international policies
- Relevance to national policies, a.o. KRW
- Sustainable use of natural resources
- Innovation
- International cooperation
- High Tech Employment (and growth) within NL





Mandate within NIVR (NSO)

 Special focus on stimulating "operational use of satellite data and services"

- ▶ Dedicated program 'Operationeel Gebruik (OG)'
 - Development of strategy (2008-2009)
 - Development & execution of Innovation Programme (2009-2010 and onwards)
 - Need inventories & business case definition



Mission 'OG program'

 NIVR promotes and stimulates the societal and economical use of satellites and makes this visible







Vision 'OG program'

- Operational use of satellites contributes to a better quality of life
- The use of satellites is an international growth market and is of economical and societal relevance for the Netherlands
- Identification and development of market demand is essential for service development and sustainable operations





Activities 'OG program'

- Demonstrate utilization of satellite data for companies and governmental bodies
- Stimulate interaction between market and downstream (value adder, knowledge) organizations
- Business case initiation & development support
- Identification and resolution of bottle necks





Instruments (outreach)

- SpacePlaza.nl: web portal for liaison between public, market, government and service suppliers and knowledge institutes
- NIVR Link: match making sessions bringing together potential customers, service suppliers and research organizations



Instruments (service development support)

- Innovation Programme for new service development (on behalf of Min. of Economic Affairs), 2010 onwards?
- Execution/coordination of (feasibility) studies (for other ministries) → leading to new business cases
- Liaison towards ESA and EU programs
- Liaison towards non-space development funds



NIVR view on Water Management in NL

- Many stakeholders
- Overlapping and specific needs
- Several EO based services developed, demonstrated and operational (on project basis)
- National Instrumentation for Hydrology (NHI)
- No operational use of EO on national level yet





Space down to Earth?

Where and how could NL EO value added services contribute to Dutch water resource management (and other) needs?





NL Stakeholders

- MinVenW: water supply (for people, industry, transport)
- MinLNV: drougth (nature, agriculture), salination
- MinEZ: energy & economy
- Provinces: drougth (nature, agriculture), salination
- Water Boards: water resource management
- End users (many)





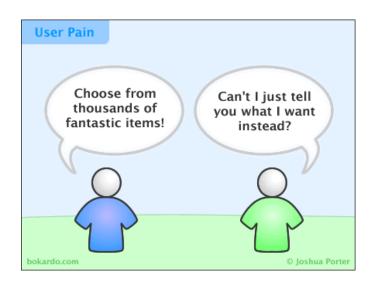
User needs

- Various, depending on specific demands
 - Functionality (from water management, nature conservation specific needs)
 - Scale: from local level (parcel) to continental (large river bassins)
 - Time (from several times per day, to several times per month....)



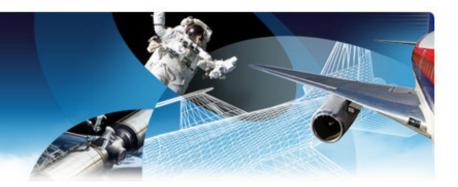
Invitation

To participate in a work group to investigate the potential role of EO based services in future NL water management and nature conservation









Topics to be discussed

- Which monitoring information is relevant for many stakeholders?
- Where can EO contribute to improve current monitoring systems & models?
- How can cooperation on the user side result in more efficient use of existing infrastructure (satellites, services): single measurement, multiple use? E.g. Water management & nature conservation.



Opportunities?

- Regeling Innovatieprogramma Kaderrichtlijn Water (KRW) – SenterNovem
 - De tweede tender (2009) is bestemd voor samenwerkingsverbanden tussen regionale overheden (waterschappen, gemeenten en provincies), onderzoeksinstellingen en bedrijven.
- FP7 Space Call-2 (GMES downstream services)
- Coming soon....