

Reflexions on use of satellite images and maps

in Emergency Response
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INTRODUCTION

- Humanitarian Aid – Outside Europe
- Civil Protection – Inside and Outside Europe
- Today:
 - Japan
 - North-Africa

EMERGENCY MAPPING

- Specificities
 - SPEED, SPEED, SPEED....
 - Rapid onset like flash floods, earthquakes
 - Slow onset like river floods, marine pollution
 - Reference maps to compare before and after

USE OF SATELLITE PRODUCTS

- Challenges
 - Build bridges
 - Scientific world - terminology and knowledge
 - User world - terminology and knowledge
 - Human interface is needed – linkER project
- "You can not say what you need before you know what you can get" – consciousness raising

IDENTIFY

- User knowledge
 - Nice to have
 - Must have
- User needs – different levels
 - Operational
 - Tactical
 - Strategic
 - Same and different needs – tailor made products

CHALLENGES

- Users' capabilities to
 - Recieve products
 - Knowledge
 - Software
 - Hardware
- Product providers needs to
 - Know users relatively well
 - Make interpretation on products

Contd.

- Operational
 - On site commanders know what they need in
 - Floods, Forest Fires, Earthquakes, Tsunamis
- Tactical
 - Decision makers need more overview
 - Critical infrastructure
 - Available roads, ports etc.
- Strategic
 - Top level, like politicians need big picture

CHALLENGES

- For GMES Emergency Response Service
 - Speed in delivery
 - Interpretation of images / maps
 - Reliability 24/7/365 with Expertise in whole chain
 - Service desk
 - Service providers
 - Satellite owners
 - Free and open access
- Dialogue
- For Users
 - Expertise to understand and use
 - What is possible to get?
 - Lack of geographical coordinates – estimations - assumptions

LIMITATIONS

- Satellites' orbits
- Satellites' frequencies
- Satellite types: radar or optical
- Lack of dialogue product provider – user
 - Need to interpret user needs
 - Match to feasibility

FANTASTIC PRODUCTS

- For users at EU level
- For users at local, regional and national level
- For traditional cartographers
- Exciting future

CHALLENGES FOR MS

- Create good coordination at national level
- Involve important national institutions – create National User Group
 - Public administration
 - Research institutions
 - Businesses
 - Coastal administration
 - Energy institutions
 - First and second line responders

Contd.

- Active dialogue with European Commission
- Follow closely all "calls for tenders", "calls for proposals"
 - Opportunities for contracts
 - Opportunities to cooperate with other MS

THANK YOU!

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PULL TOGETHER

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