

DLR & GIZ – Building a Bridge between Space Applications and Development Cooperation

Sebastian Kleim, DLR

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DLR – German Aerospace Center

- National Research Center for Aeronautics and Space
- National Space Agency of the Federal Government
- Project Management Agency

Field of Research



(approx. 80% of activities, resources)



Transport

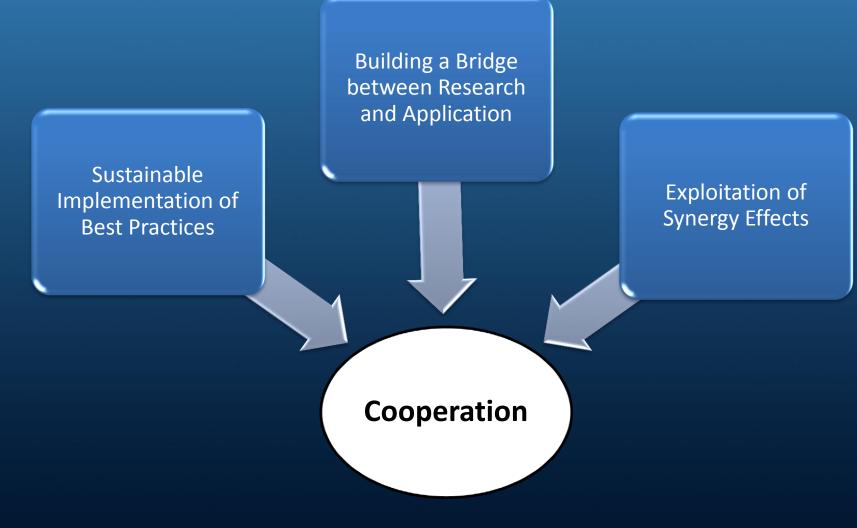
(approx. 20%)



Cross-function, inputs from all 4 programmes



Goals of our cooperation: Facing Global Challenges!





Measures for Progress

Working Groups

- Disaster Prevention & Management
- Climate Protection; Ressource Management & Protection
- Megacities
- Renewable Energy
- Transportation

Documents

- Letter of Intent
- Supplemental Agreement to the general conditions of contract
- Framework Agreement



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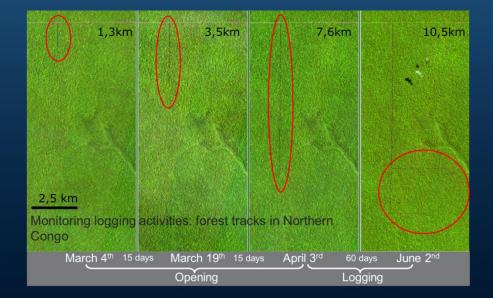
A Promising Area for Cooperation: Earth Observation





"Climate Protection; Ressource Management & Protection" Examples from a Working Group on Earth Observation

- DLR-GIZ: Increased Dialogue about the Use of EO and Copernicus
- Copernicus: Highly Relevant for Development Policies
- REDD+ MRV: Priority of Dialogue



Quelle: Dr. Helmut Staudenrausch



From Earth Observation to Crisis Information: The ZKI – Center for Satellite Based Crisis Information

- Analysis of Satellite imagery data
 - Natural- and Environment disasters
 - Humanitarian aid activities (humanitäre Hilfsaktivitäten)
 - Civil Security
- Leading role in the field of emergency cartography
- Certified quality management
- 24 hours / 7 days Standby
 - Training and expertise education (Training und Fachschulungen)
- Support of civil security exercises
 - **Research and methods development**

ZKI statistics since 2004:

- > 200 Activation/Mobilization
- > 1000 products
- > 200 requests from national ministries and authorities
- > 200 activations of the International Charter "Space and Major Disasters"
- > 20 trainings und training measures

Quelle: DLR, Monika Gähler, ZKI

ISO 9001



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International Charter Space & Major Disasters

DLR became a member of the International Charter Space Disasters in 2010.

DLR contributions:

- TerraSAR-X and TanDEM-X imagery
- RapidEye imagery provided on case-by-case





TerraSAR-X

TanDEM-X

RapidEye



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Kal Mochan Tempel vorher: Luftbild (10 cm) vom 26. Januar 2014



Kal Mochan Tempel nachher: WordView-3 Satellitenbild (50 cm) vom 27. April 2015

WorldView-2 © European Space Imaging / DigitalGlobe

Al Zaatari, Jordanien 13.01.2014



Future Outlook

Workshop 2016

"Review"

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• Identifying Flagship Projects

Framework Agreement

Foundation for Future Projects

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Thank you for your attention!

Sebastian Kleim Sebastian.Kleim@dlr.de

