

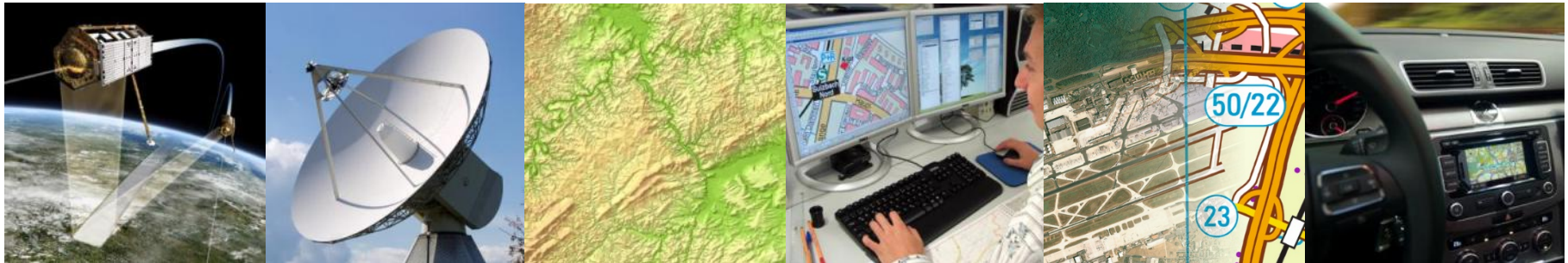


Federal Agency for  
Cartography and Geodesy

# Mapping in a Changing World: Challenges and Opportunities

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# Our Changing World

1997



2007



2004



2014



Skybox + Google  
Imaging

# Content

## A Perspective from a Federal Mapping Agency

- Who is BKG?
- What are we doing at present?
- What are our Challenges and Opportunities?

# Who is BKG?

- **Technical Agency** of the Federal Ministry of the Interior, with Departments in **Geodesy and Geoinformation**
- **Central Service Provider** of Spatial Reference Data and Services for the **German Federal Government**



# Who is BKG?



**Surveying** is in the responsibility of the **16 States (Länder)**

**As a result:**

**17 Mapping Agencies**

## **Main Roles of BKG today:**

- **Data Broker** for Reference Data
- **Service Center** for GI
- **Coordination** of National SDI
- **Precise Positioning**
- **International Network (GI)**

# What are we doing?

## Traditional

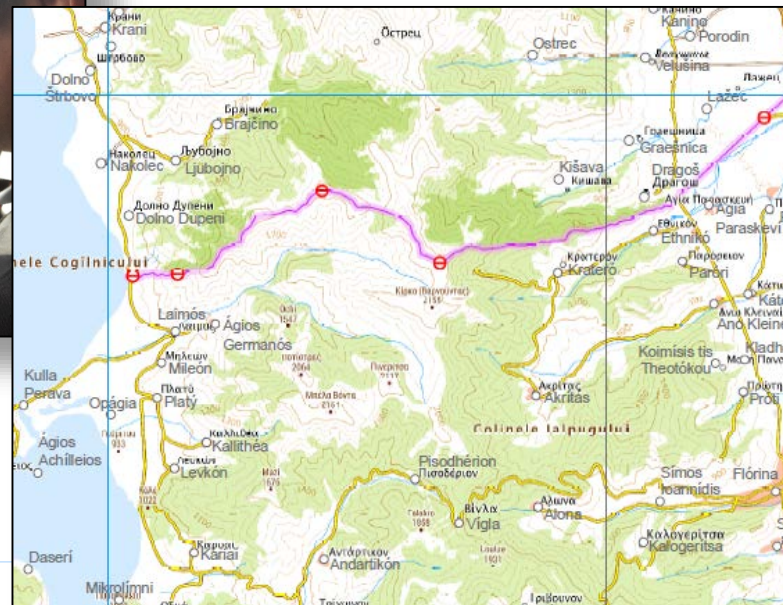
- **Positioning**
- **Production** and Provision of **Topographic Data Sets / Maps**
- **Coordination Reference Data** for Federal Government

## Recent

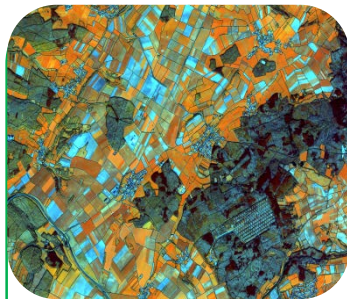
- Using **new Data Sources** (OSM, Private Providers)
- **Rapid Mapping** Services, including Printing
- **Satellite Technology**
- **Geocoding** all State Registers
- **Coordination** and technical **Maintenance National SDI**

# Rapid Mapping (TopPlus)

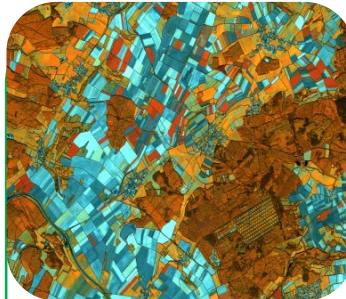
- Maps on Demand – as-a-Service for Federal Administration
- E.G. Maps to support Task Forces like Federal Police, Border Police, Disaster Control etc.



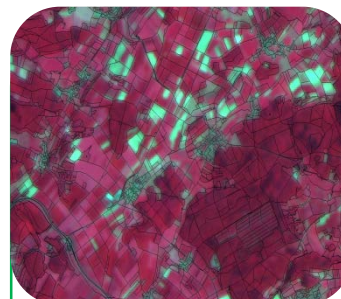
# Satellite Technology for New Products



RapidEye 2011  
spring  
(IMAGE2012)



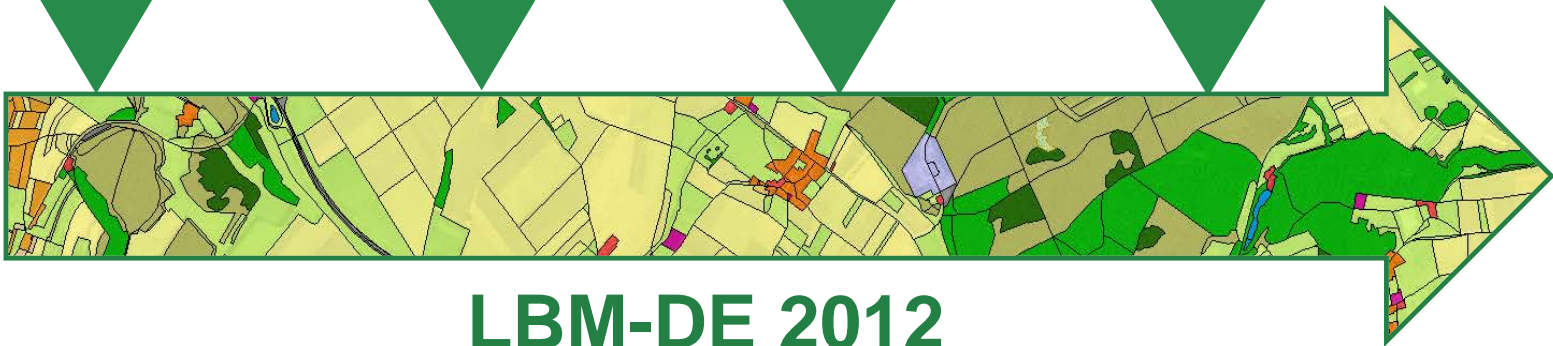
RapidEye 2012  
summer



DMC 2  
july 2012



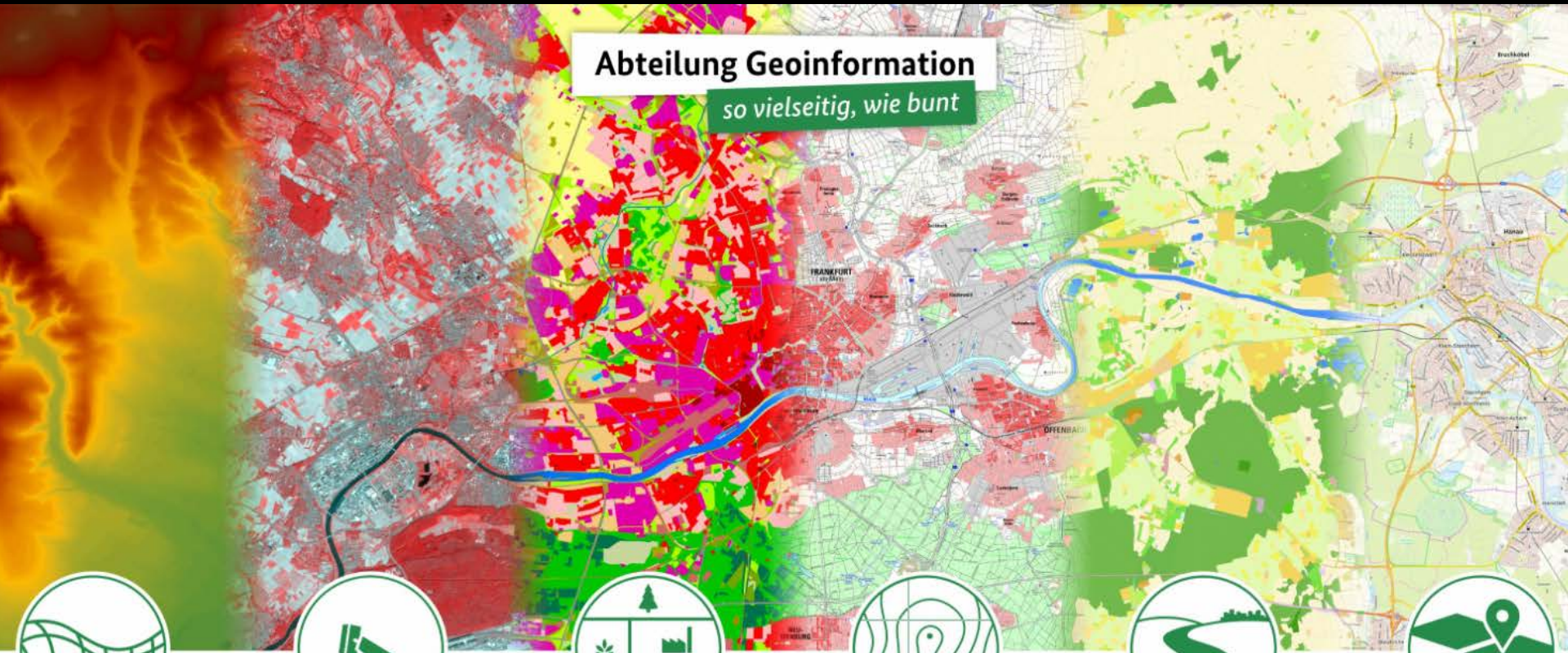
- IMAGE2012:SPOT, IRS  
- DOP, DTK,...



**LBM-DE 2012**

# Abteilung Geoinformation

so vielseitig, wie bunt



DGM



Satellit



LBM



DTK



DLM



TopPlus



**What do we have to consider when  
we prepare ourselves for the future?**

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# Challenges for BKG

## ■ Data

- **Multiple Sources**,  
including sensors & realtime
- **Satellite Remote Sensing**
- **Licencing**  
simple & universal
- **Growing Expectations & Requirements**  
accuracy, reliability and especially currentness

## ■ Technology

- **What to integrate**  
...the agony of choice
- **IT-Infrastructure**  
high quality, but still affordable



# Challenges for BKG

## ■ Organisation

- **Strategic Partnerships**  
intergovernmental, Industry & Sciences
- **Budget**  
investments: *more, better, faster, cheaper*
- **Staff**  
dempographic factor, junior staff
- **Service-oriented Culture**

## ■ User Engagement

- **Knowing what the user doesn't know yet**
- **New Relationships** - from consumer to a partner



# Opportunities

**The growing relevance of Geoinformation  
creates a need for Geo-Competence**  
*from NMAs*

**A connected world needs a distinct  
and precise Geo-Reference**

*from NMAs*

**Reliable and sustainable partners, especially for governmental institutions**  
(Forces, Police, Statistic,...)  
*with NMAs*

**Last not least „positive thinking“: New methodes and technologies are the  
main driver for new and better data, services & solutions**  
*for NMAs*



**We can not determine the wind,  
but we can set the sails  
(Vikings)**

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