

## Federal Republic of Germany

16 States with 16 Surveying  
 Authorities with the  
 Responsibility for  
 Geodesy  
 Geoinformation  
 Landmanagement

### **3 special federal agencies involved in the tasks of surveying:**

- Federal agency for cartography and geodesy (BKG)
- Military Geographic Service of the Bundeswehr
- Inland waterway transport and waterway department

## Main tasks of the 16 stat Authorities

- Maintenance, further development of the geodetic fundamentals
- topographic survey
- official topographic – cartographic information system
- topographic map series (scale 1:10.000 – 1:100.000)
- real estate cadastre (scale 1:1.000 – 1:5.000)
- Valuation of real estate
- reallocation and land consolidation

## 16 state authorities

- 16 laws defining the responsibilities and legal tasks
- 16 books with bylaws and regulations
- 16 different forms of organisation

ca. 30.000 Employees with decreasing tendency

- ◆ hell
- ◆ chaos

## **Well organized , effective working**

### **aspects**

- human character
- AdV (Working Committee of the Surveying Authorities)
- technical pressure (IT)
- 100 year tradition in federal structures

## AdV – Organisation

Plenum with President, Advisory Group, Secretary General

Working Groups for

- ◆ Spatial Reference
- ◆ Information and Communication Technology
- ◆ Real Estate Cadastre
- ◆ Geo-Topography

## Main tasks

- Elaborations of recommendation and binding regulations
- in order to the tasks of the state authorities
- joint performance of projects involving more than one Land
- Cooperation in all fields of technical developments

## Examples 3 A - Model

Essential points of the ALKIS<sup>®</sup> – ATKIS<sup>®</sup> – AFIS<sup>®</sup> – concept:

- Integrated reference model and data model, Unified Modelling Language UML
- Integration of meta- and quality data
- History management:
  - AKTIS<sup>®</sup> : deadline-referred data storage
  - ALKIS<sup>®</sup> : version-based history
- based on ISO Standards
- new standard-orientated data exchange format: NAS
- Semantic harmonization of the object catalogue



## SAPOS®

Satellite Positionierung service

250 GPS reference stations

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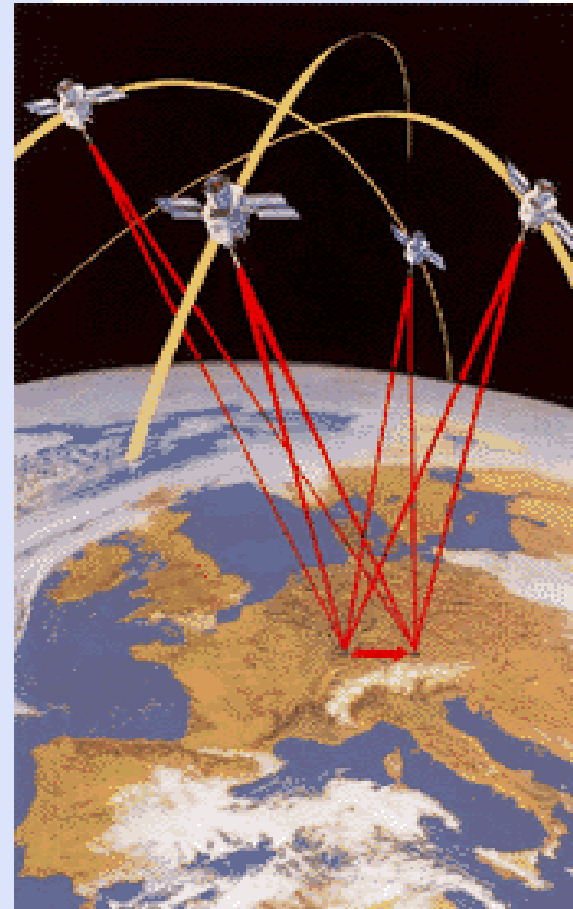
HEPS 1 – 2 cm

EPS 0,5 – 3 cm

GPPS

GHPS

SAPOS®-Center with  
one face to the customer



## 16 State´s authorities

one aim

Building the National Geodata Infrastructure involving our  
Basic – Informationsystem 1:1(000) – 1:1.000.000  
in Cooperation with all related agencies, with the private  
sector and the industry

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< Future needs tradition >

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