## **Exploiting Slovenian Geodetic Data**

M.Sc. Roman Rener, Director Geodetic Institute of Slovenia

### SOME FACTS ABOUT SLOVENIA

Population 2.000.000
Area 20.300 sq km
5.200.000 land parcels
1.200.000 buildings

### **Slovenian Mapping Authority**

#### Austrian model - title system land register:

- 1 head office
- 12 region officies
- 46 info points

#### Legal part:

- Supreme court
- 44 county court officies

## Modernization of real estate registration

(28,9 milion \$, period 1999-2005):

- Land and Building Cadastre
- Land Register
- Apartment Registration
- Agriculture Land Use Monitoring
- Real Estate Tax and Valuation System Developmnet
- Housing Finance and Mortgage Reform
- Legal Framework for Property Ownership
- Project Coordination Support

#### The mission



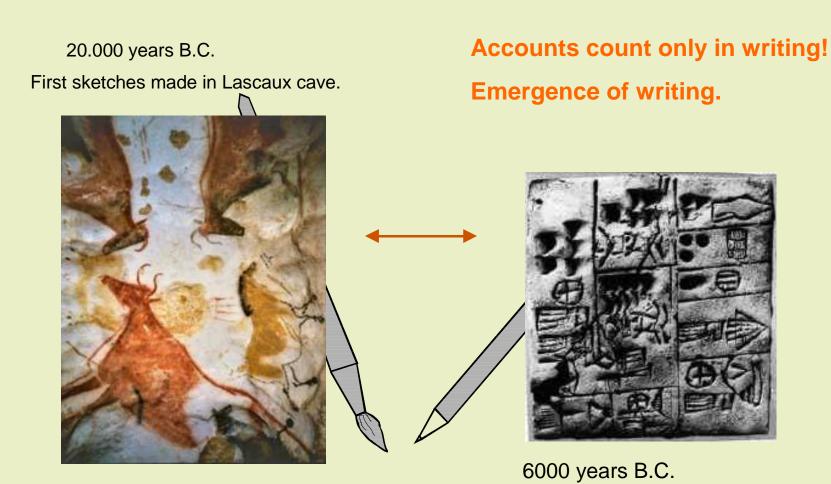
- Activities in research, development and operative projects
   (Land cadastre and real estate, Fundamental geodesy and national GPS network, Geographic information systems and information technology, Topography, Cartography and Photogrammetry, Education Training centre for geomatics, Desktop publishing and print)
- To bring inventive and applicable solutions in the field of geomatics to Slovenian users - government, regions, communities, private sector and individuals.
- To offer those users the access to knowledge and applications at competitive prices.
- To represent Slovenian geomatics and geodesy abroad.



# About future in spatial data management



### Sketching and writing



### Mapping



2000 years B.C. Map of Chinese dinasty showing ownership.

## The successor of sketch and writing is map...



1800 years Discovery of accurate dimensions and form of the Earth and continents.

## **Geographic Information System**

...when a map is brought into computer...



### Three dimensional visualization

One image tells more than hundred words,
3D image tells more than hundred images ...





3D GIS and navigation



3D image tells more than hundred images,

3D information system tells more than hundred models ...

## **Digital Nervous System**



... if we merge all spatial information?



