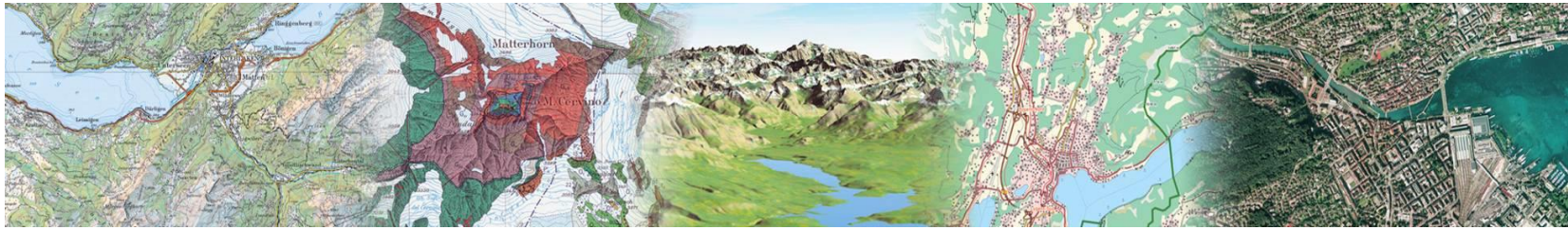
Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

armasuisse
Bundesamt für Landestopografie swisstopo
Grundlagen zum Raummonitoring



wissen wohin
savoir où
sapere dove
knowing where

swisstopo

EuroSDR – Historical data

Seminar – Overview

17. Oktober 2014

H. Gollin

Topics

- Introduction
- Access and new possibilities of usage and analysis
  - Digitalisation of historic maps
  - Digitalisation of aerial imagery
- Management and Planning of long-term availability and archiving
  - Project Ellipse
  - Global concept

Legal bases

- The Federal Act on Geoinformation (GeoIA), in force since 2008, commits all data producers to guarantee the lasting availability of the spatial data.

- According to its vision 2015, swisstopo functions as the Federal Geo-Information center and therefore guarantees to provide data and fundamental bases for monitoring spatial development in Switzerland

Organigram

Dy. of
Deputy Director
Deputy
Director
Management
Management process
Directorate
Fridolin Wicki *
Alain Buogo (deputy) *
Communication and Web
Ruedi Bösch
Base Data for Environmental Monitoring
Urs Gerber
Sector Acquisition of geodata
Geodesy
Topography
Cartography
Sector Geocoordination
Federal Directorate of Cadastral Surveying
Coordination, Geo-Information and Services COGIS
Swiss Geological Survey
Sector Support
Support
CC Mil Geo
CC Projects
CC Marketing, Communication and Sales
CC MS/Gever

Development of geospatial data

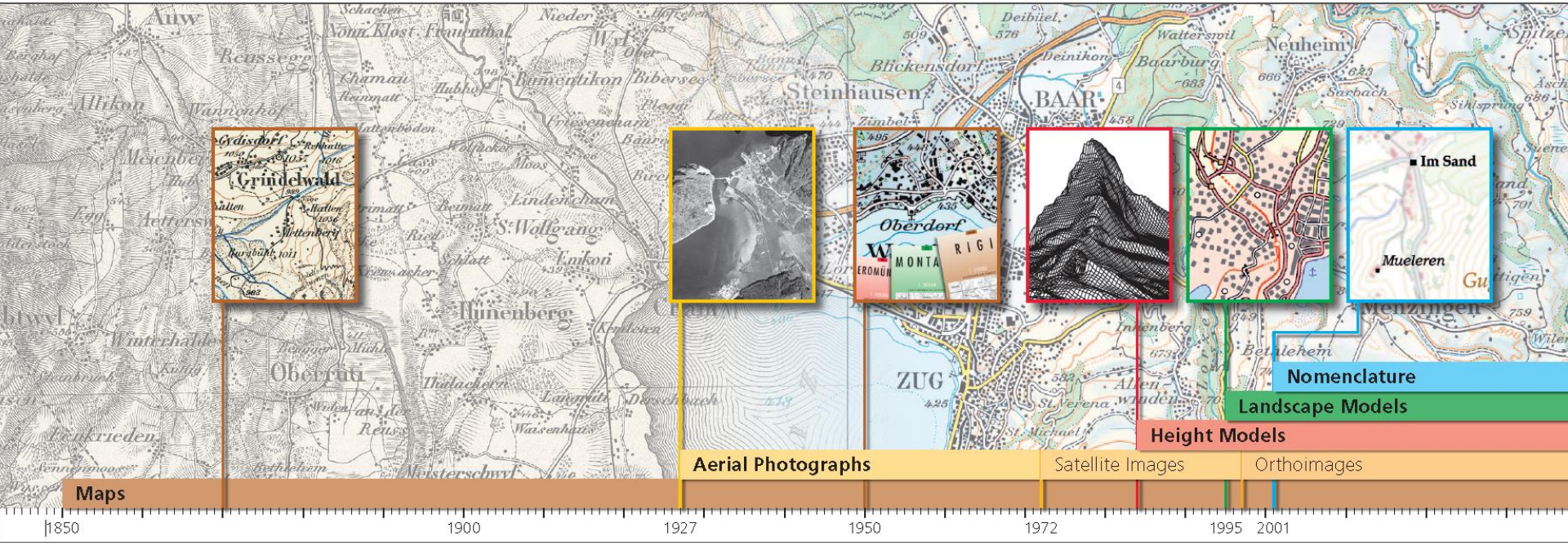
Pioneer phase of creating geospatial data

- first goal: to make geospatial data available at all
- and: to be able to provide updated geospatial data regularly

Today:

- greatly increasing awareness of the significance of older versions of geospatial data

Overview products of swisstopo
Time series



Historical maps
Main activities

- **Indexing / cataloguing**
  alexandria.ch, kartenportal.ch, geocat.ch, swissbib.ch

- **Digitalisation**
  The 3 national map series (Topographical Map of Switzerland 1:100’000, Topographical Atlas 1:25’000/1:50’000, National Maps 1:25’000, 1:50’000 and 1:100’000) are digitised

- **Protection and preservation measures**
  - map collection is protected in specially enclosed and air-conditioned premises
  - not accessible to the public
  - Originals are archived in acid-free containers, and damaged items are restored

Historical aerial & terrestrial images
Main activities

- swisstopo plans to digitise and catalogue the entire inventory of images and make them generally accessible till 2020 (320’000 of ca. 500’000 are done)
- to minimise the degree of use of the originals, which accelerates the natural deterioration process to which the analogue images are already susceptible due to ageing

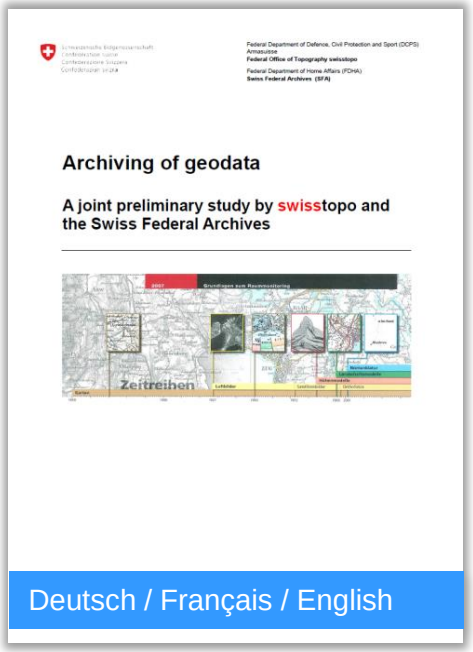
Historical Ortho Images

- **Ortho Images** are aerial images which have been freed of their distortions and therefore show a uniform scale over their entire surface
- **SWISSIMAGE HIST: Historical ortho-photo mosaic** aerial images from 1979-1985 und 1992-1997 are produced to an ortho-photo mosaic
- In cooperation with the **Swiss Federal Statistical Office**

Project Ellipse – Archiving of geodata (of the federal administration)

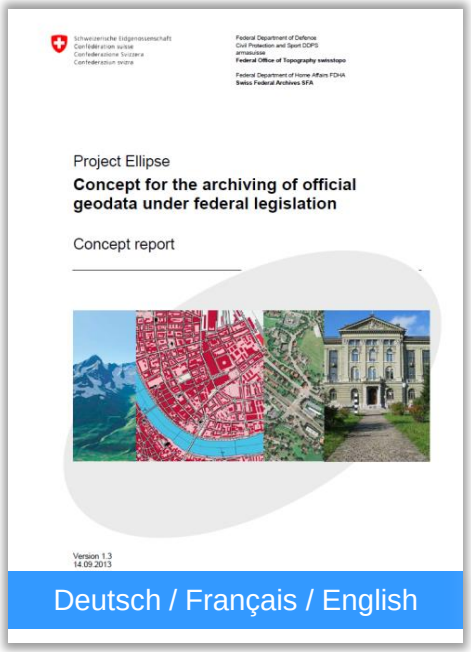
2009 – 2010

Preliminary Study



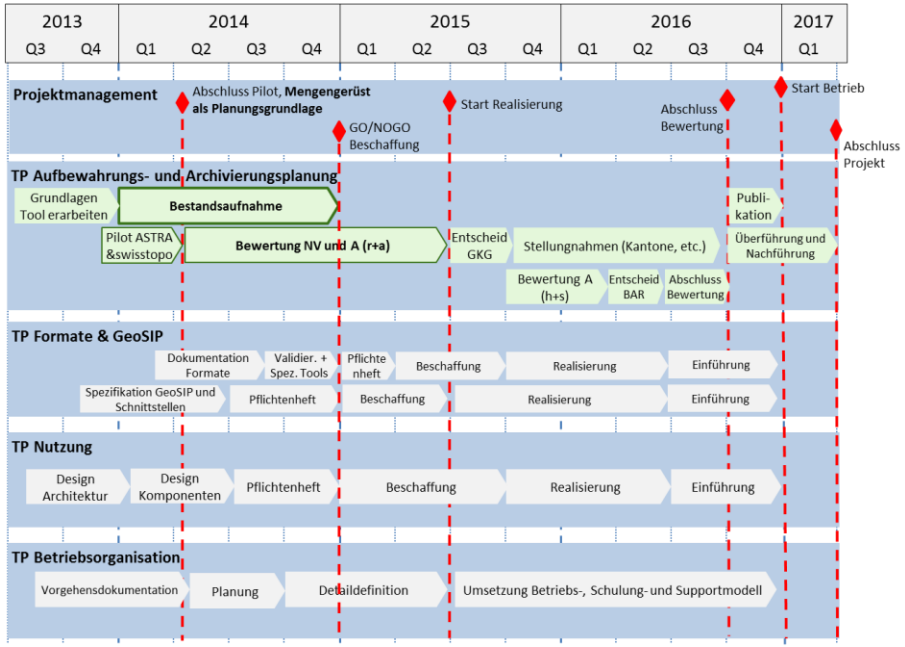
2011 – 2013

Concept



2013 – 2017

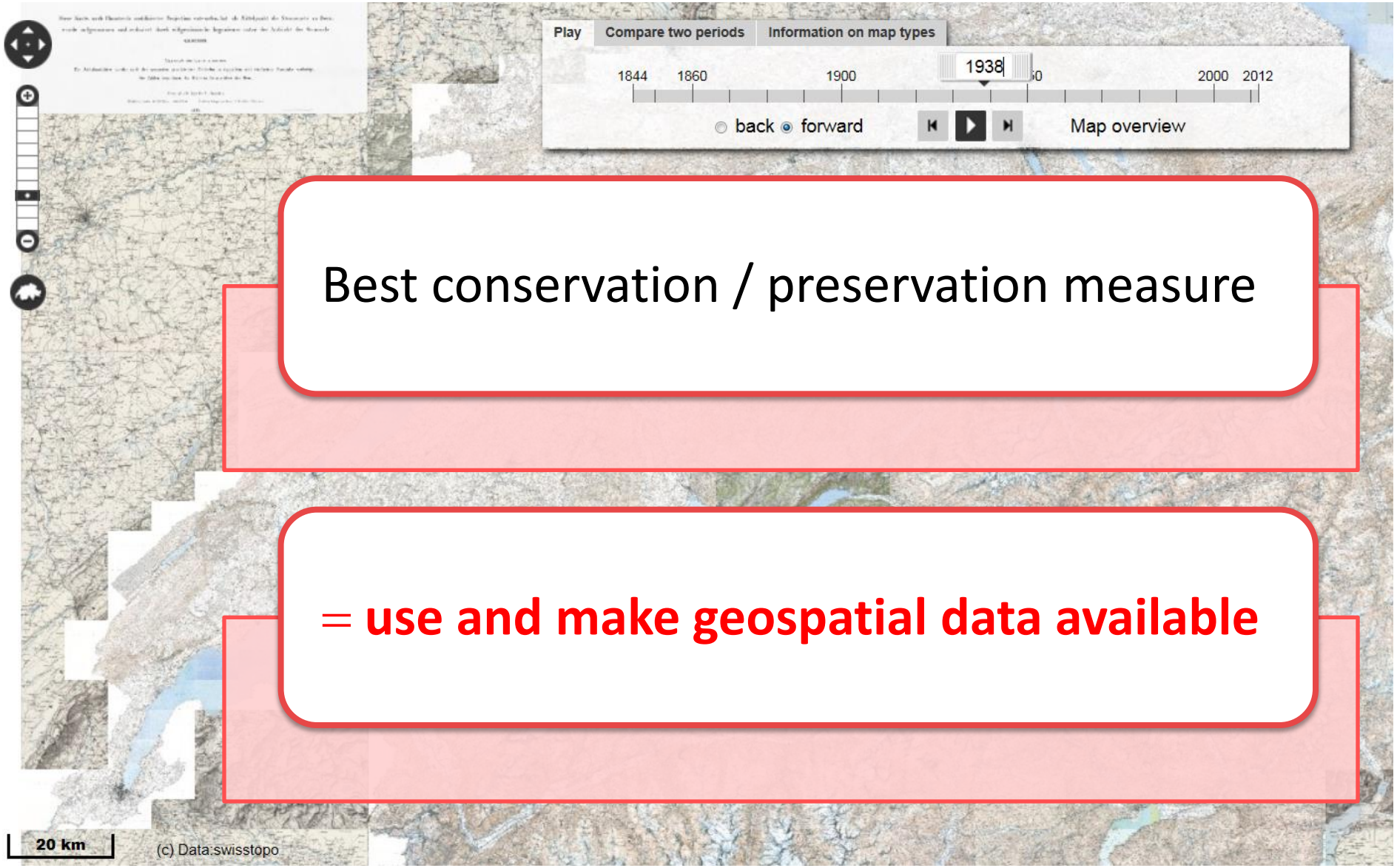
Realisation



Global concept – long-term availability and archiving of the geodata of swisstopo

- Organisation and realisation of the long-term availability and archiving of the geodata within swisstopo
- Regulation of the whole life cycle of geodata, including:
  - Planning
  - Production (of at least one snapshot)
  - long-term availability and use
  - Archiving and use

Our conviction is…



Best conservation / preservation measure

= **use and make geospatial data available**