

A decorative graphic on the left side of the slide, featuring overlapping blue, red, and yellow squares with a black crosshair.

National report of Slovenia

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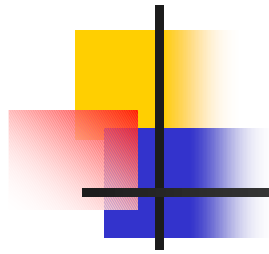
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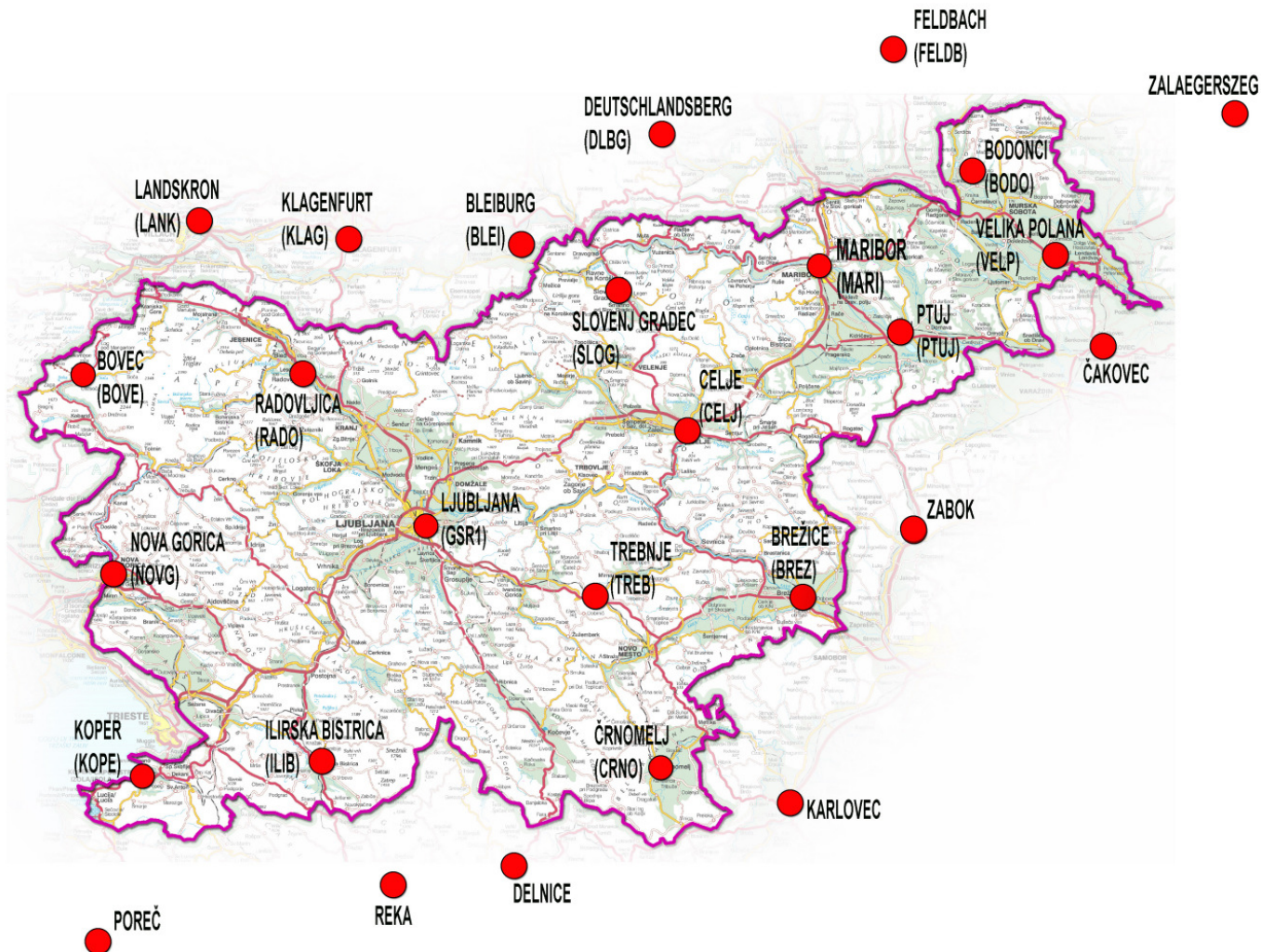
2nd–5th June, 2010



Presentation topics

- Positioning service (SIGNAL)
- Horizontal system
- Height and gravimetric systems
- Height system and geoid

SIGNAL positioning service



- 15 stations
- + 5 Austrian
- + 1 Hungarian
- + 5 Croatian

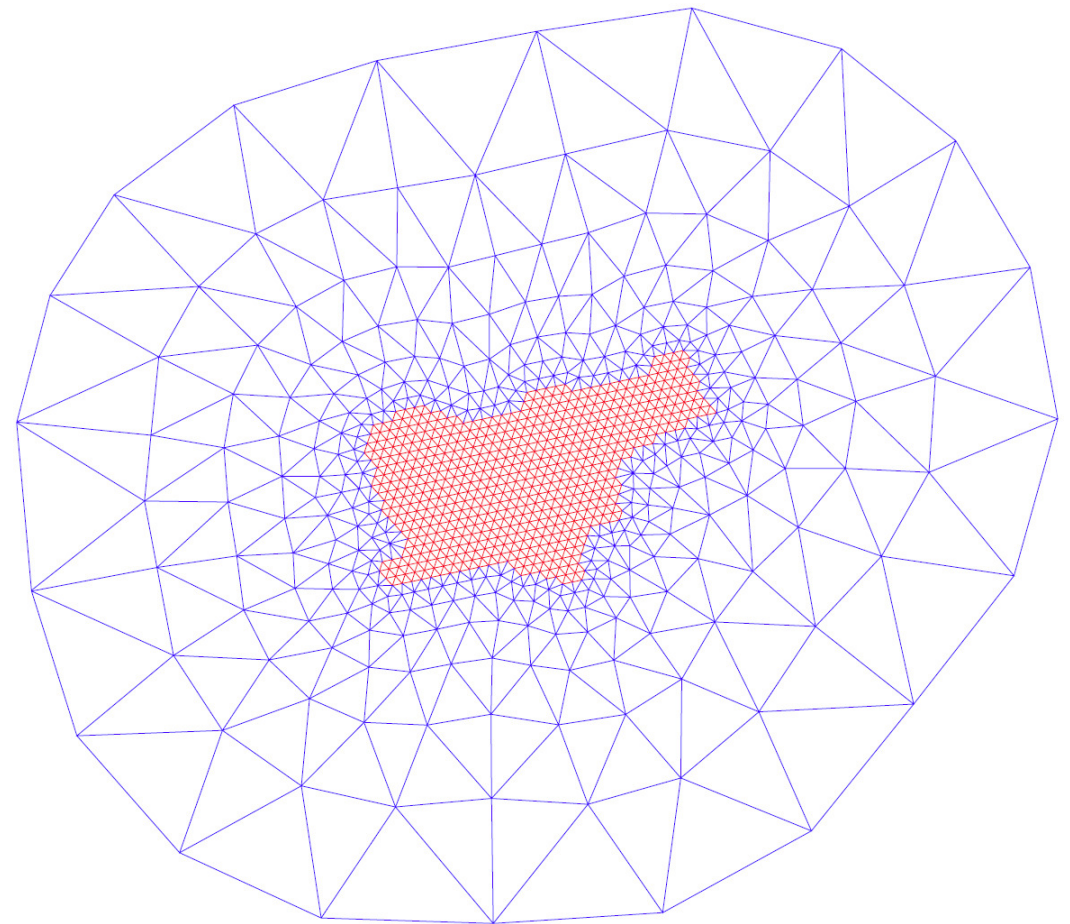


SIGNAL positioning service

- Build-up in December 2006
- 5 Croatian stations included in 2010
- Payable from 2010
(100 €/month for unlimited RTK/VRS)

Horizontal reference system

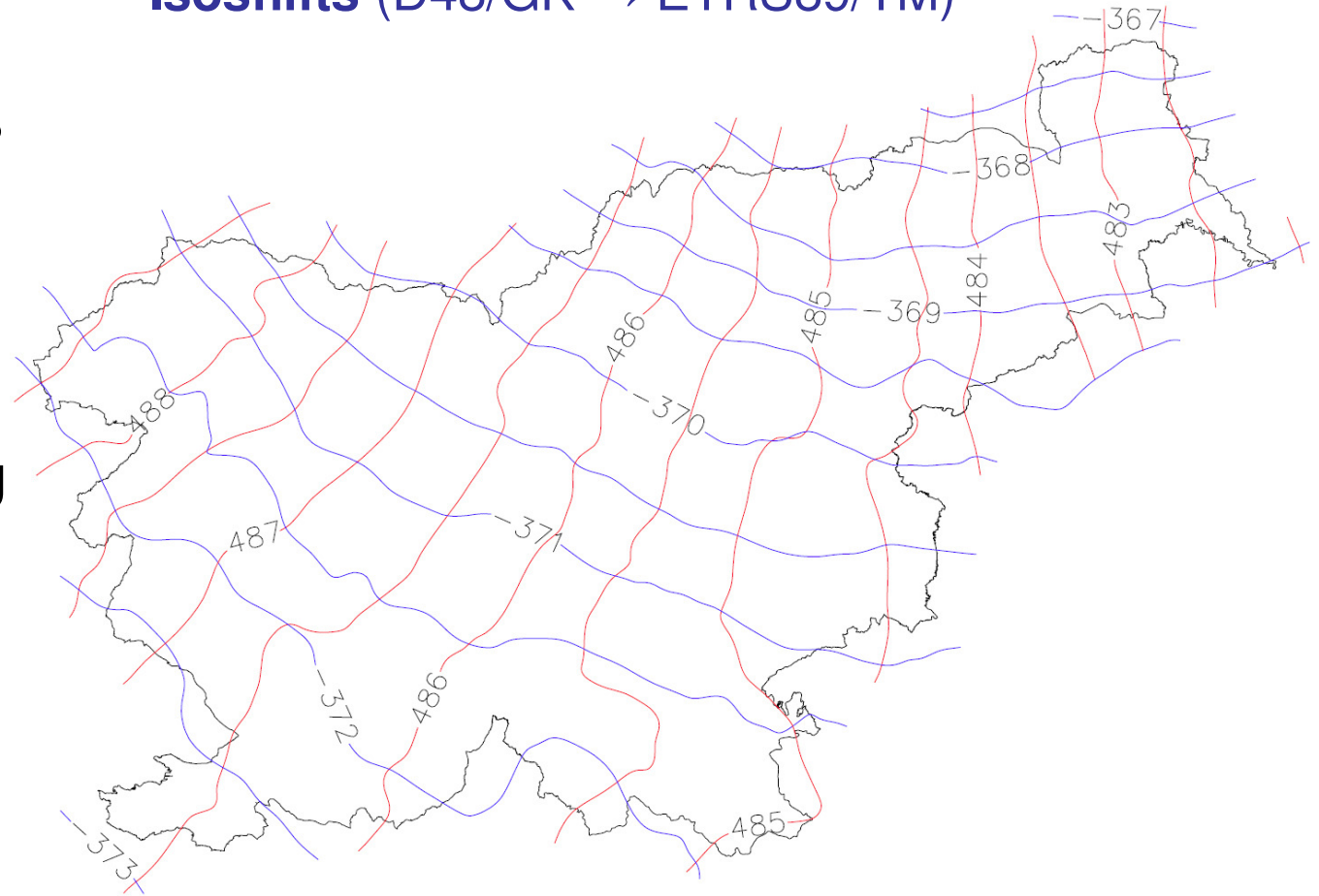
- **Definitive transformation**
between D48/GK and
ETRS89/TM
- Piecewise affine transformation
(rubber sheeting)
- Regular triangle-network
extended outwards with
reduced density
- 899 virtual tie points
- 1776 Delaunay triangles



Horizontal reference system

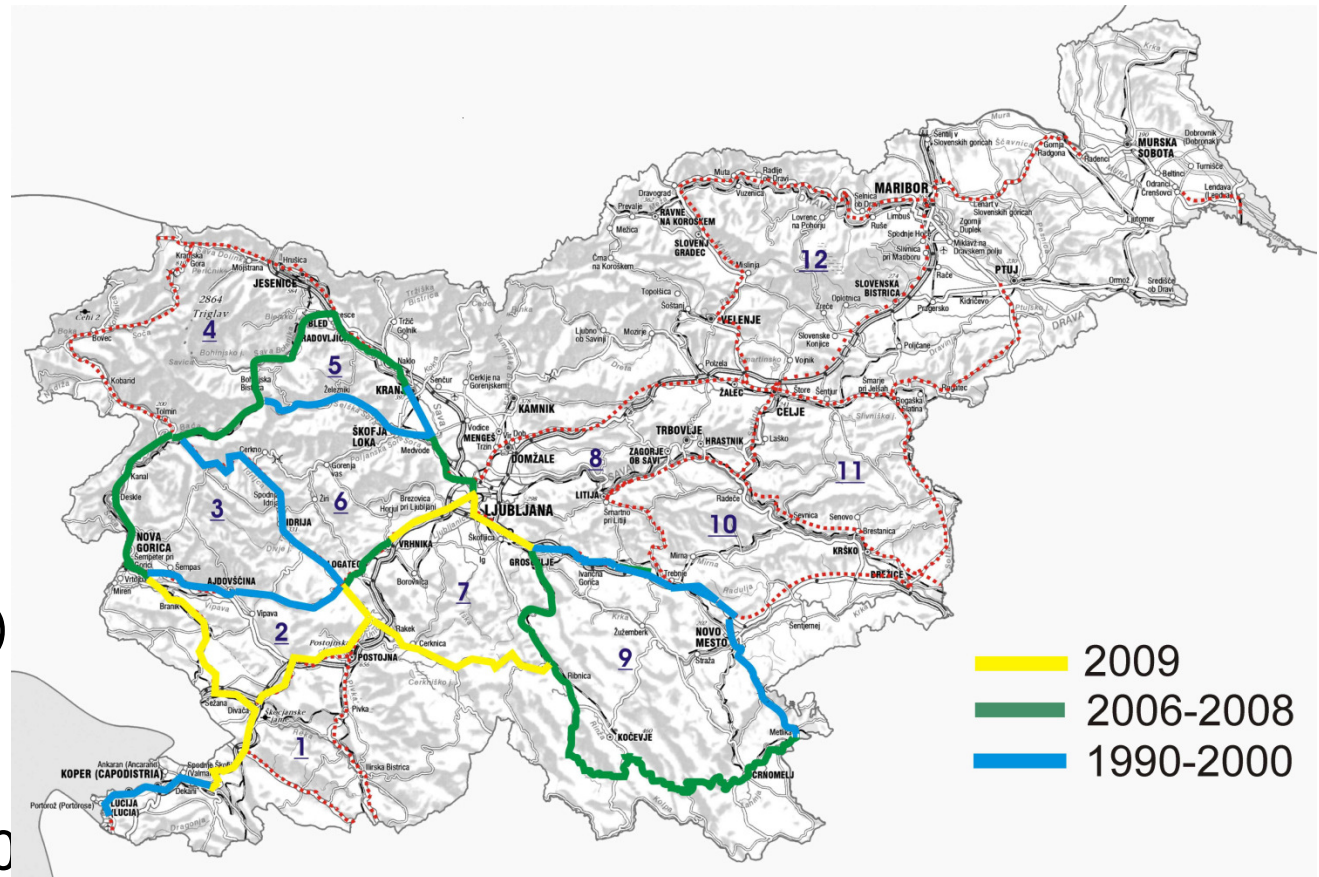
Isoshifts (D48/GK → ETRS89/TM)

- Based on 2000 points measured in D48/GK and ETRS89/TM
- Shift vectors on virtual tie point based on surrounding measured points
- Positional accuracy:
Std. = 4,2 cm
Max. = 18,6 cm



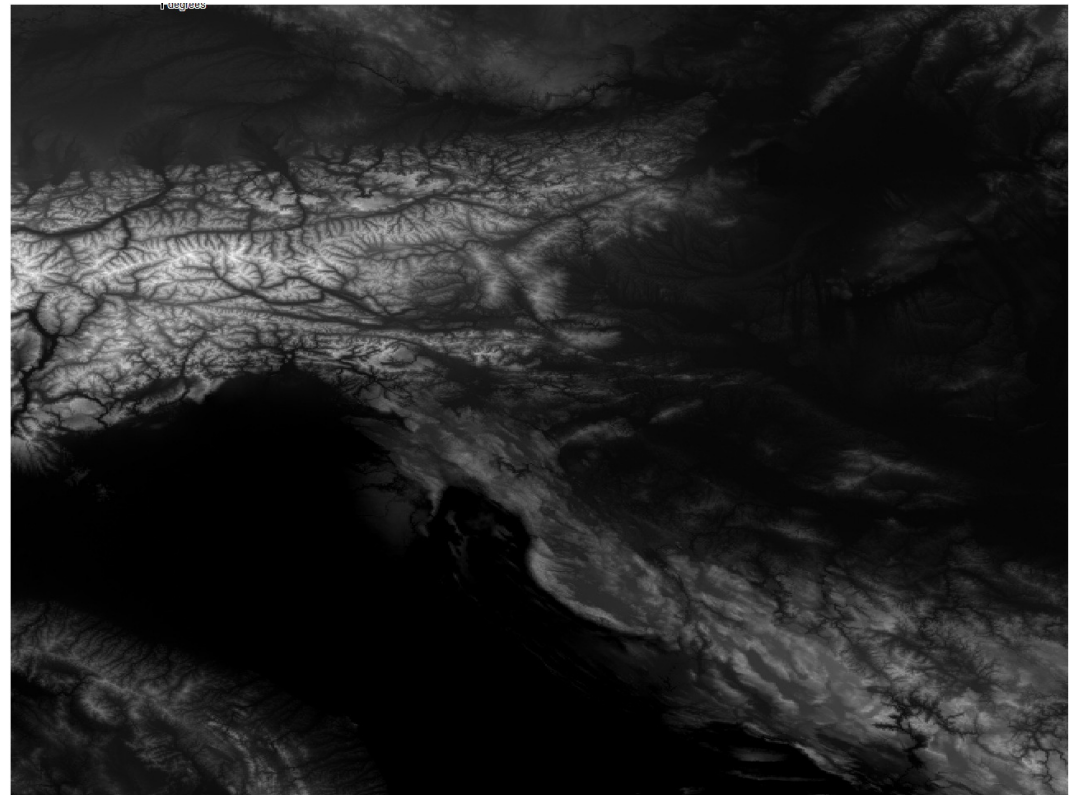
Height and gravimetric system

- Levelling
 - 130 km in 2007
 - 100 km in 2008
 - 230 km in 2009
- GNSS
 - 10 points in 2009
(36 hour-measurement)
- Gravimetry
 - 190 levelled points in 2009

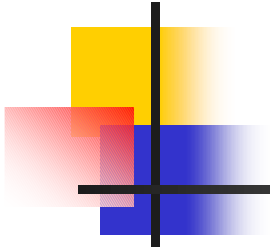


Height system and geoid

- Collecting and analyzing data for new geoid:
 - Transformation of national DEM into ETRS89
 - Merging national DEM and SRTM data
 - Density model
 - Deflections of vertical



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Thank you

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