

EUREF related activities in Belgium

Report based on contributions of:



National Geographic Institute



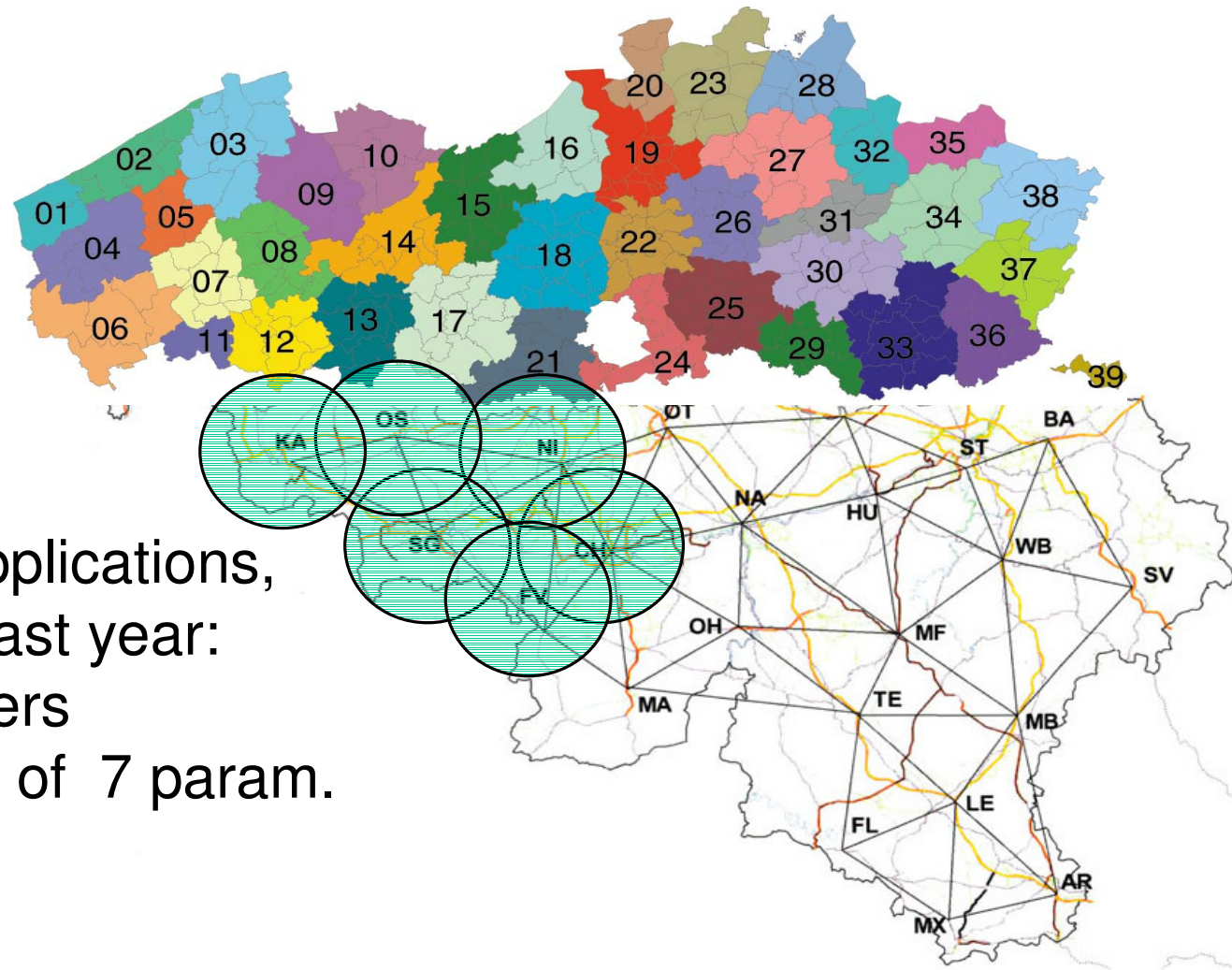
Royal Observatory of Belgium

Topics:

- New procedure for transformation between ETRS89 and Belgian grid coordinates
- Contribution to the EPN
- Ongoing research

Transformation between ETRS89 and LB72

1 set of 7 parameters lead to differences up to 23 cm due to distortions of the 'classical' network



For precise applications,
solution until last year:
local parameters

→ 62 sets of 7 param.

Transformation between ETRS89 and LB72

For 4200 geodetic markers both ETRS89 and LB72 are available

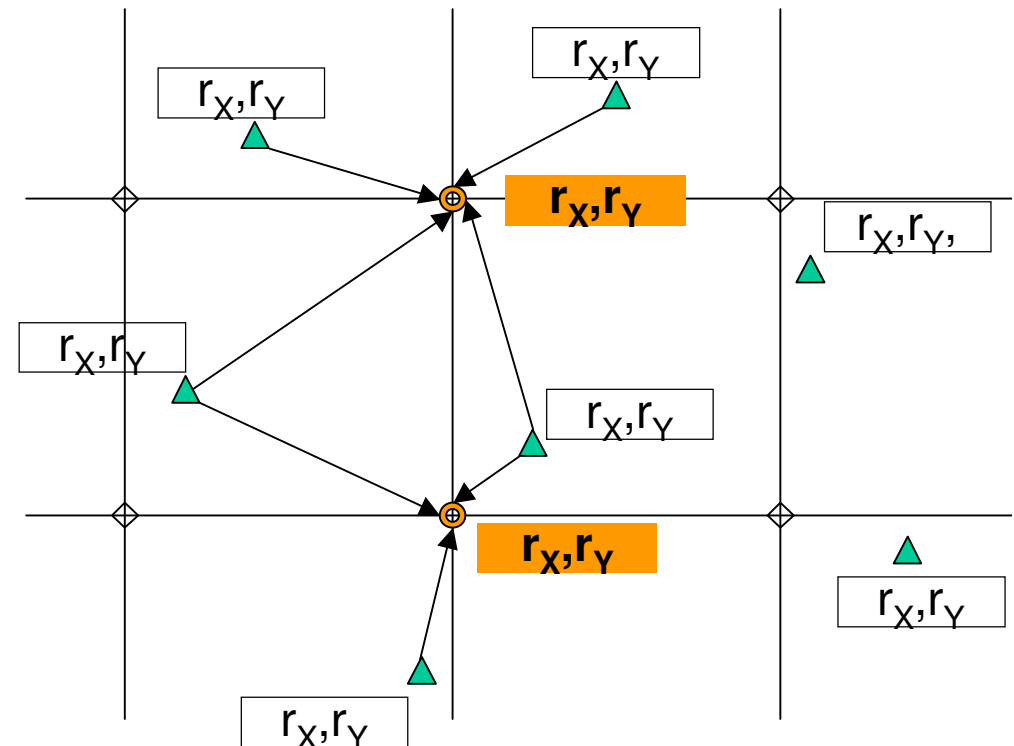
When 1 set of seven parameters is applied to these points we know the differences between “transformed” and “real” LB72

These differences are transferred to the nodes of a grid

New procedure:

1. 7 parameter transf.
2. Corrections for x and y from interpolation in the grid

Accuracy: 12 mm (stdev)



Transformation between ETRS89 and national reference systems

