

University of Warmia and Mazury in Olsztyn
Faculty of Geodesy, Geospatial and Civil Engineering



Geodetic datums in Poland

Joanna Kuczynska-Siehlen



FIG COMMISSION 5 TECHNICAL SEMINAR
ON REFERENCE FRAMES IN PRACTICE

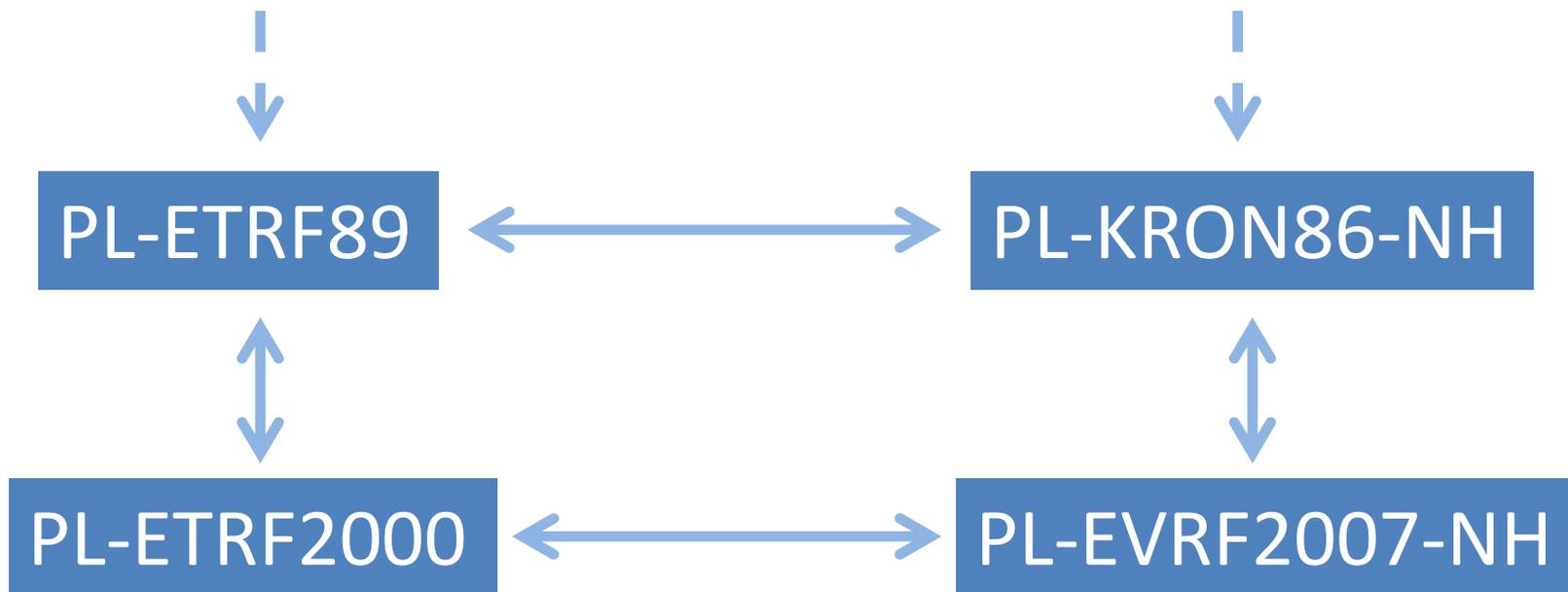
1-2 May 2016, Christchurch, New Zealand



Polish National Spatial Reference System

Geodetic reference frames

Vertical reference frames



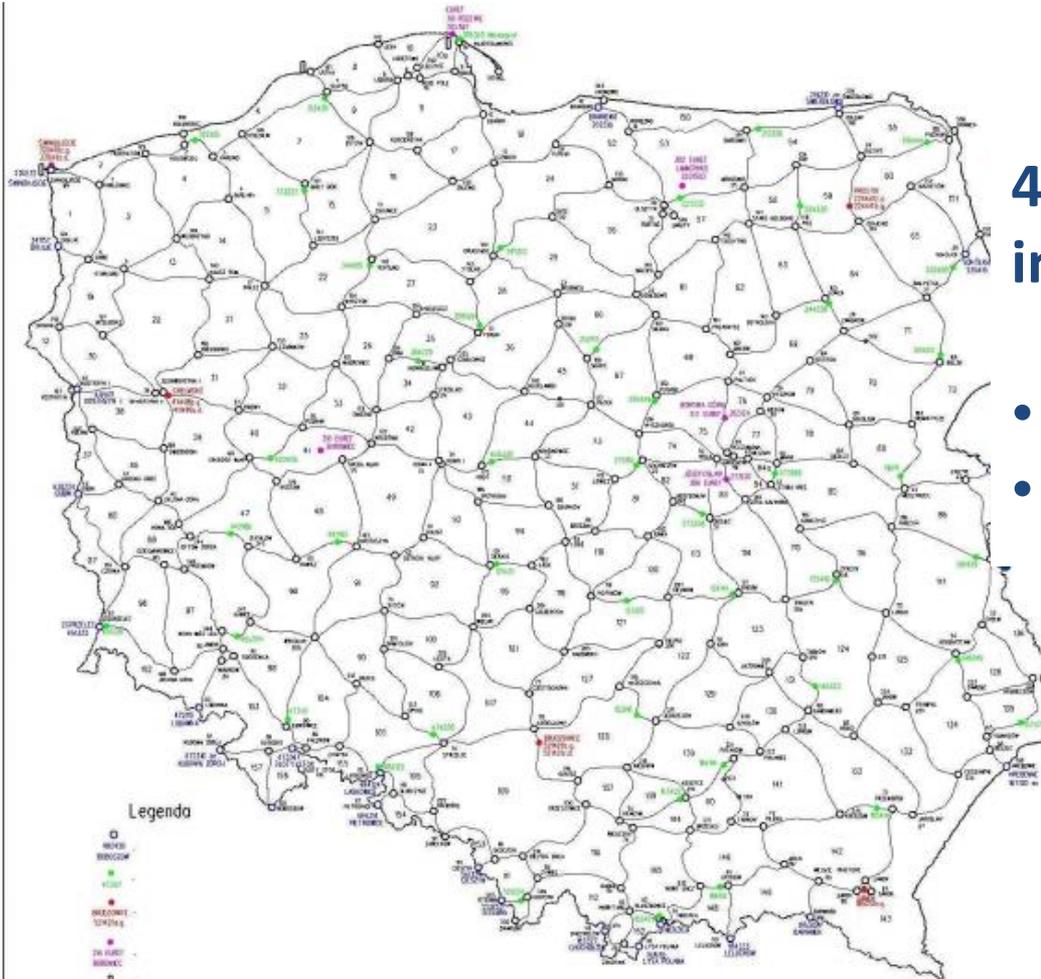
Realization of geodetic reference frames in Poland



Permanent GNSS
reference stations:

- 18 EPN stations
- 126 ASG-EUPOS stations

Realization of vertical reference frames in Poland



**4th levelling campaign
in Poland (1999-2002):**

- **382 lines of 17 516 km**
- **16 226 benchmarks**

Challenges

- **Implementation of PL-EVRF2007-NH**

PL-KRON86-NH can officially be used until 31 December 2019

- **GNSS levelling**

quasi-geoid model: PL-geoid-2011

- **Unification with global vertical datum**

gravity potential differences ΔW



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