Transition to ETRS89 as national standard for geo-information exchange
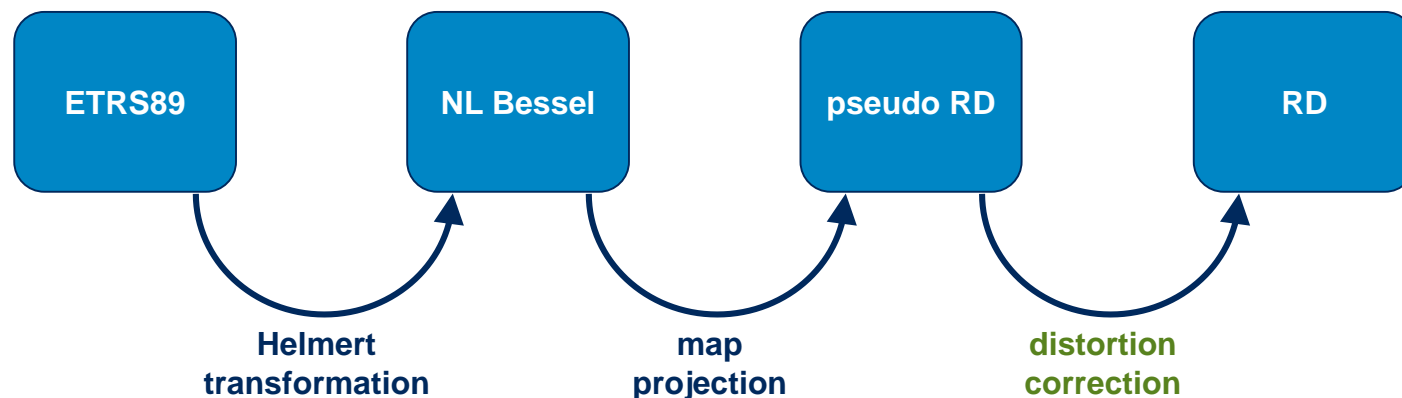
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Dutch horizontal CRS

Rijksdriehoeksstelsel (RD)

- In use since 1909
- Defined as transformation of ETRS89 since 2000
  by procedure RDNAPTRANS™

ETRS89	NL Bessel	pseudo RD	RD

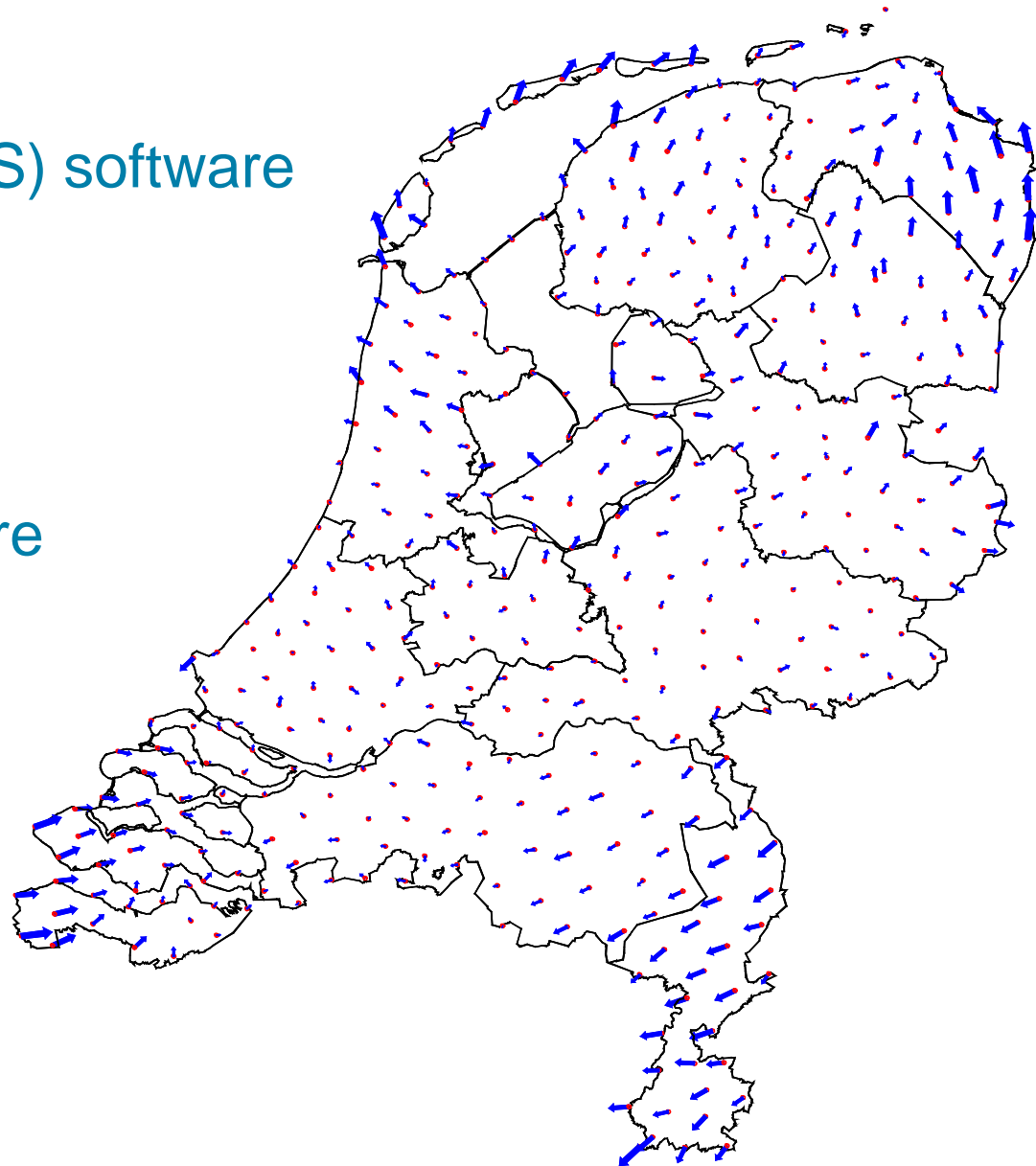Helmert transformation   map projection   distortion correction

Problem

Often incorrect in (GIS) software

- Errors up to 0.25 m
- Mostly unnoticed

More ETRS89 in future

- Offshore projects
- Internationalisation
  e.g. EU: INSPIRE

Switch to ETRS89 as national standard?

Externally led project started in September 2013

Public information sessions

Work group and steering committee

- Government bodies and agencies
- Companies (e.g. civil engineering, geo-information software)
- Science

Findings (1/3): Projection

- ## Projection preferred
  and needed for some software

- ## No new projected CRS
  too much confusion, hassle

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Findings (2/3): Switch

- Switch is exchange standard

  free to store differently

- Disagreement on need to switch to ETRS89

  depending on vision and knowledge

Findings (3/3): Solutions

- Guidance needed

  lack of knowledge

  coordination needed

- Easier implementable relation with ETRS89

  e.g. NTv2 format

  needed anyway

Guidance

- Provide information, instructions, best practices

- Collective solutions for INSPIRE

- Validation service

- Demand software support

- Specify transformation in metadata

- ...

Differences NTv2 - RDNAPTRANS™

Max. 1 mm + 1 mm / 50 m height above/below ground

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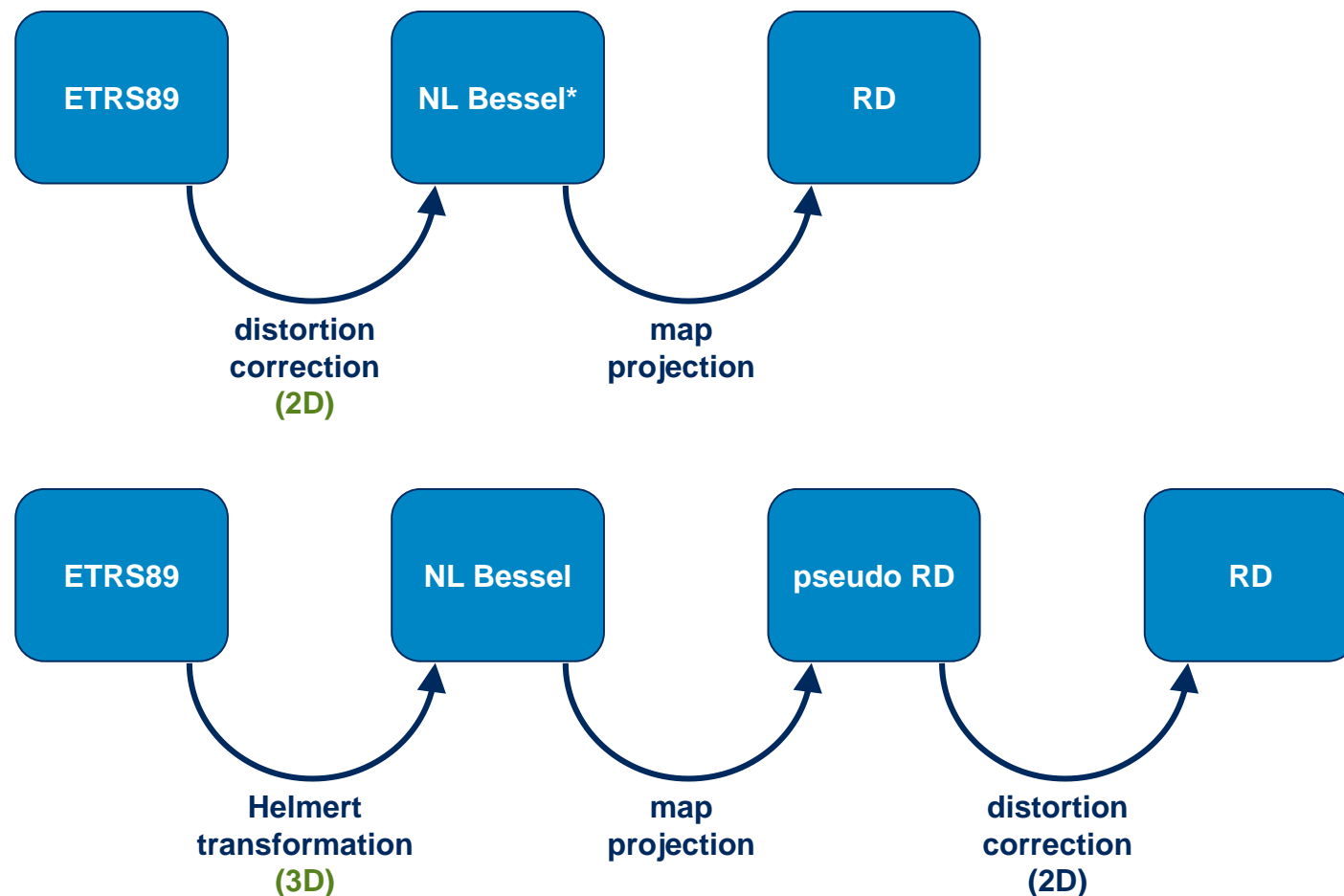
Conclusions

- Postpone decision to switch

Fix problems

- Use standards e.g. NTv2
- Fade out of correction grid

Remaining issues

- How to organise guidance?
- Redefine relation RD - ETRS89?

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Question to you all

How is the relation between ETRS89 and the National CRS in your country defined?

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