

FIG

FIG WORKING WEEK 2017

Helsinki Finland

29 May - 2 June 2017

Presented at the FIG Working Week 2017,
May 29 - June 2, 2017 in Helsinki, Finland

Transformation pipelines for PROJ.4

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Danish Agency for Data Supply and Efficiency

Surveying the world of tomorrow -
From digitalisation to augmented reality

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PROJ.4?



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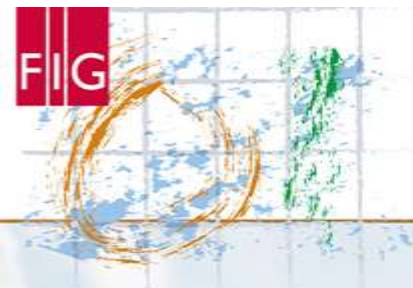


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PROJ.4?





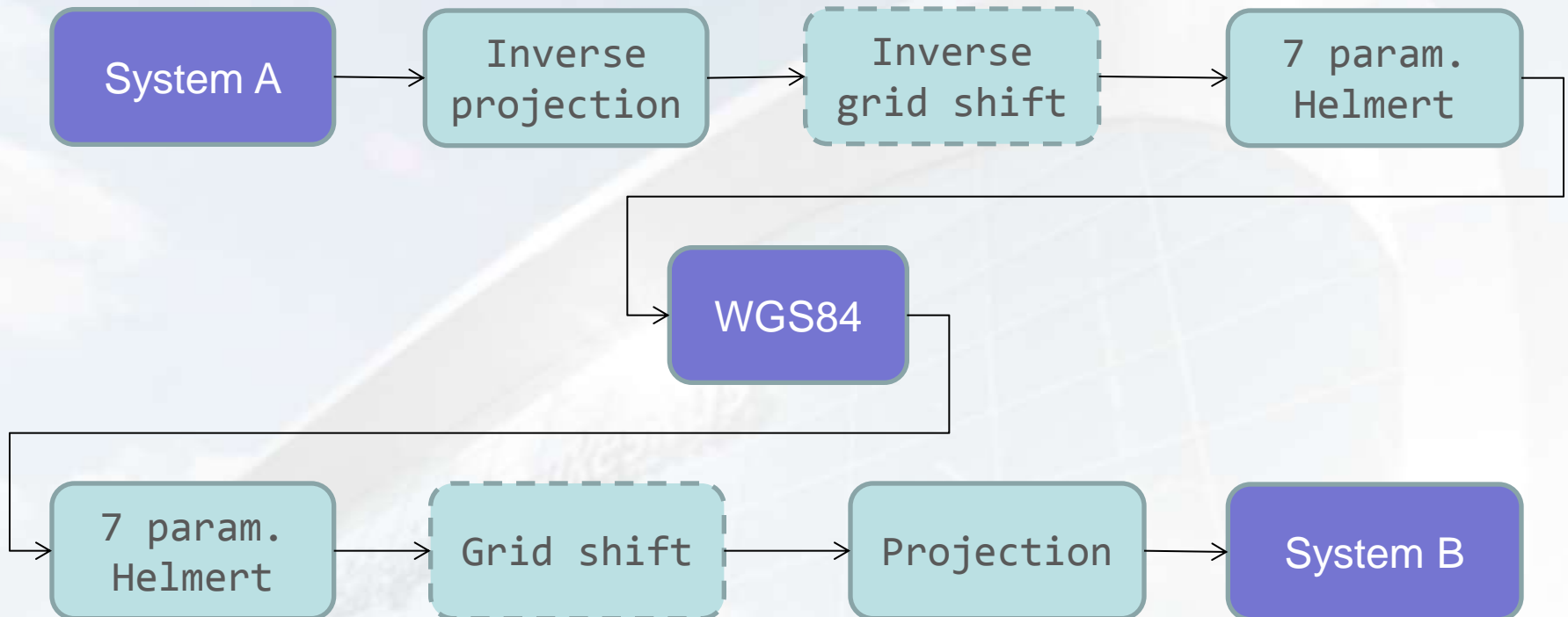
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Datum shifts in PROJ.4 (and GIS in general) today



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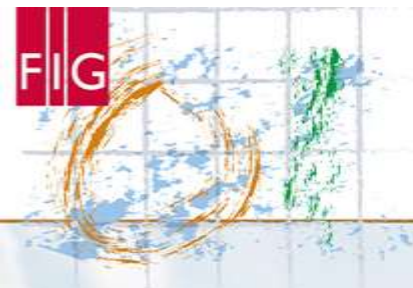


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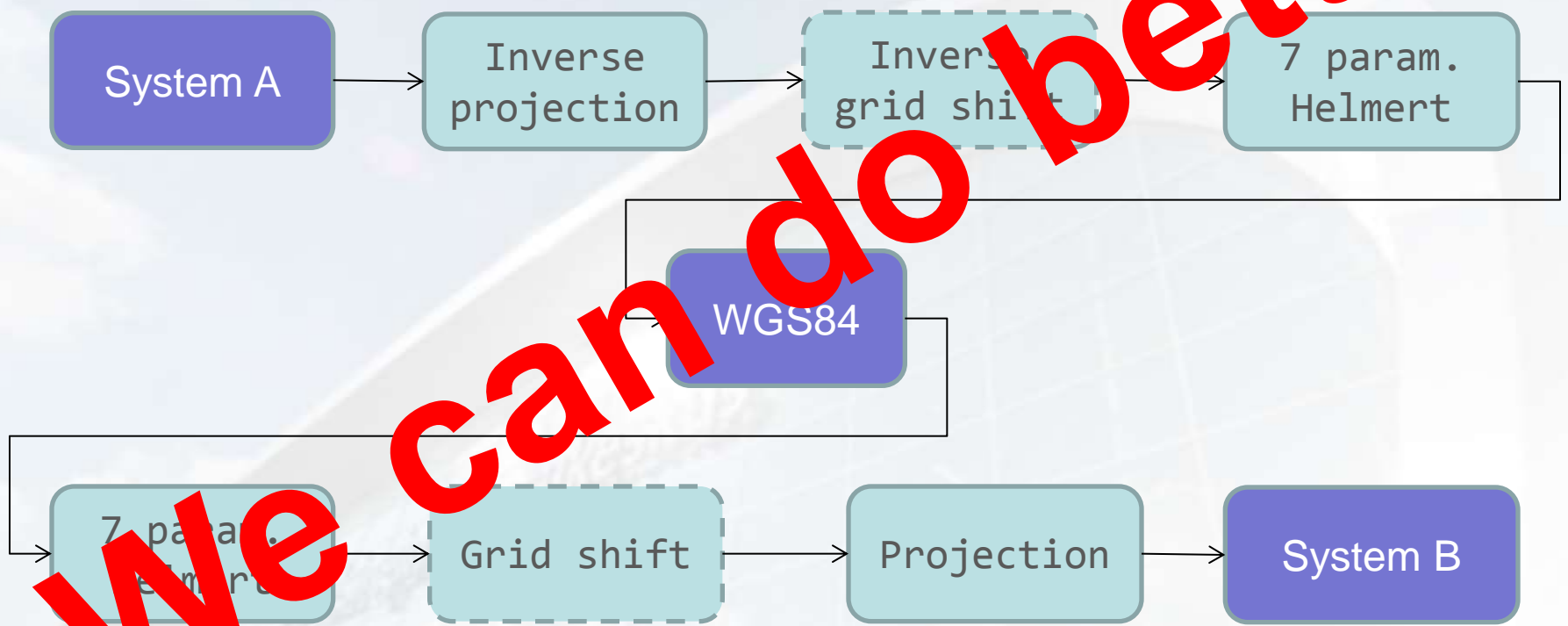




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Introducing Transformation Pipelines

- A flexible framework that allows for complex transformations
- Transformations are constructed as a set of daisy-chained basic building blocks
- Not limited to spatial transformations – pipelines are fully time-aware
- More than two geodetic techniques available
 - 14-parameter shift
 - Velocity and deformation models
 - Molodensky transform
 - Polynomial mappings
 - Affine transformation
 - ...



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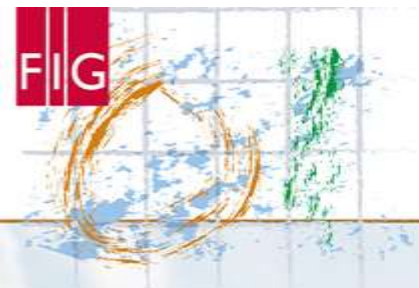
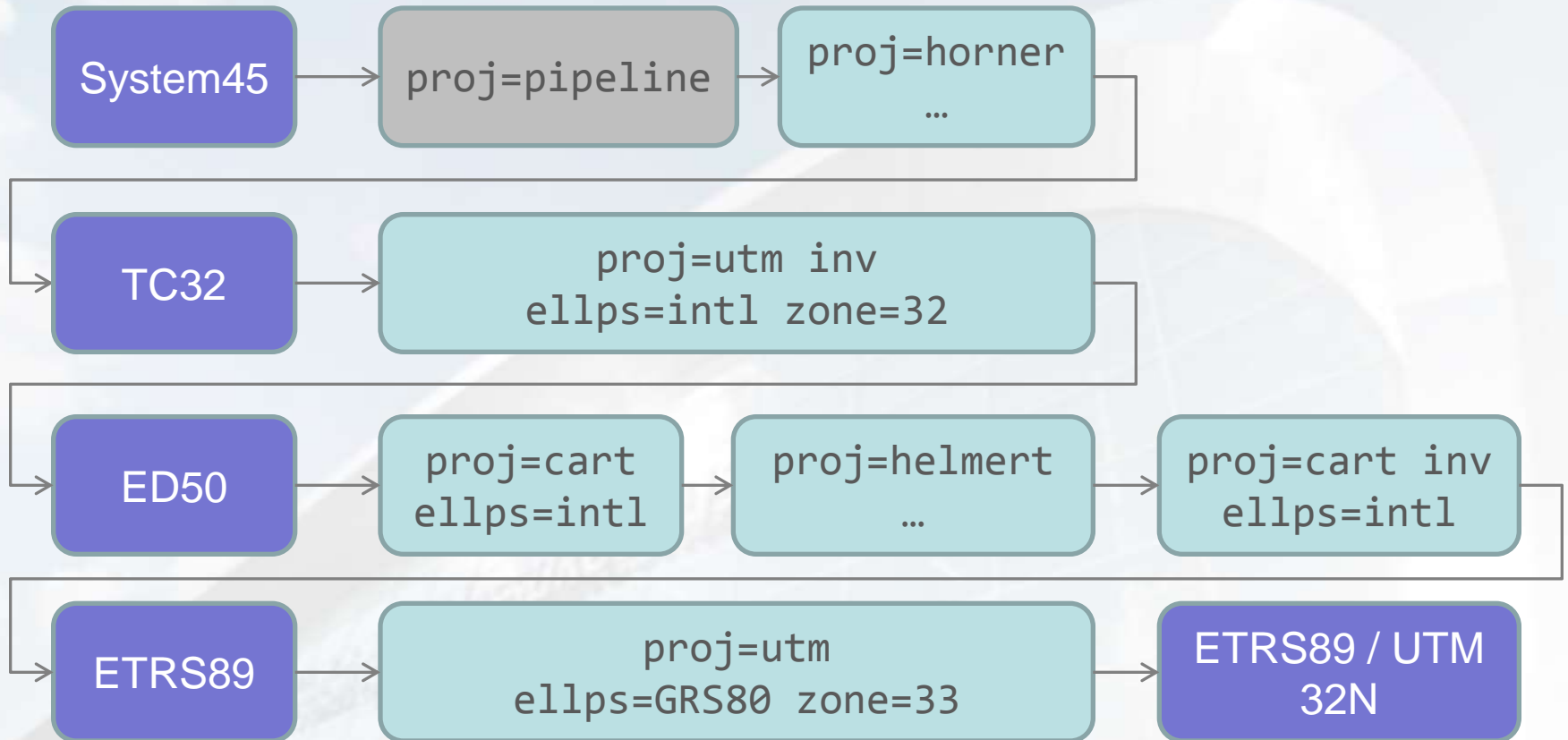


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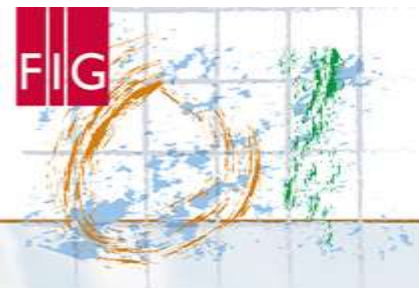


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” A lot of luck to whoever want to put together the computational part of the datum shift software.

- Gerald I. Evenden, 2000



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