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SMART SURVEYORS FOR LAND AND WATER MANAGEMENT CHALLENGES IN A NEW REALITY



e WORKING WEEK 2021

20-25 JUNE

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Development of the Project Adapted Network-RTK in Sweden — A review and the future plan

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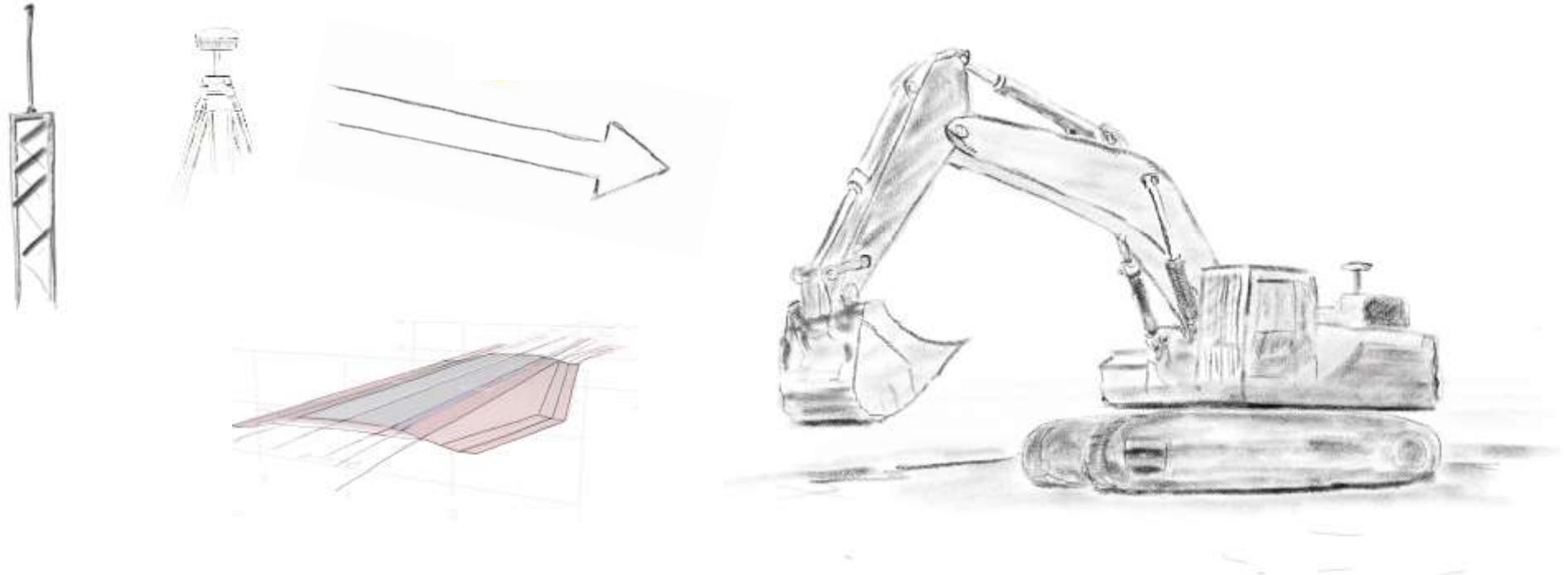


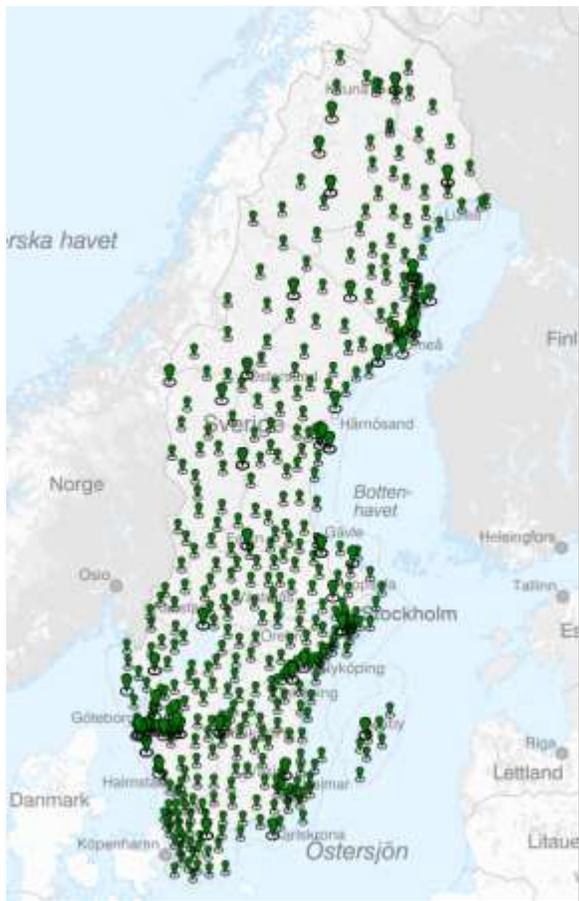
PLATINUM SPONSORS





In absence of Network RTK (1996-2000)





2005 - 2011

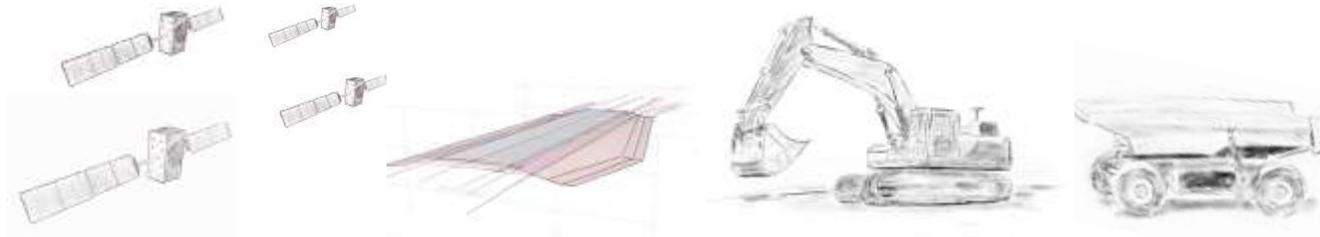
New concept “Project Adapted NRTK”

- Designed for large scale projects
- Active and passive realisation

Today

- De facto standard

The future...





2019 - 2022



New research project (Stomnät i Luften 2.0)

- *New satellite systems and updated satellite signals*
- *Strategy for establishment and operation of PA-NRTK*
- *Routines for monitoring the reference stations*
- *Further development of the postprocessing service*
- *Distribution of corrections*
- *Next solar maximum and its effects on Ionospheric effects*
- *User contact and information channels*
- *Detection and identification of spoofing and jammers*
- *Installation of GNSS equipment on construction machinery*
- *New Positioning methods*
- *Positioning systems for autonomous construction vehicles*
- *Local geoid models*