



Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat



Informatiebijeenkomst Openbare Europese aanbesteding

Object Monitoring o.b.v. InSAR analyse

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Agenda

1. Welcome and introduction/rules – Navid
2. Explanation of the main project – Emile
3. Explanation of the scope of the tender – Emile
4. Tender procedure and guidelines – David
5. Contract information – Martin Nederlof
6. Conclusion – Navid



1. Welcome and introduction by: Navid Sanaie (Project Manager)



Welcome & Intorduction

- Welcome & purpose of today
- Scope of the tender
- Session guidelines
- Introduction round (name & role)
- Questions via TenderNed



2. Overview project and background

by: Emile Nieuwstraten (Technical Advisor)



A7 Sneek - Joure

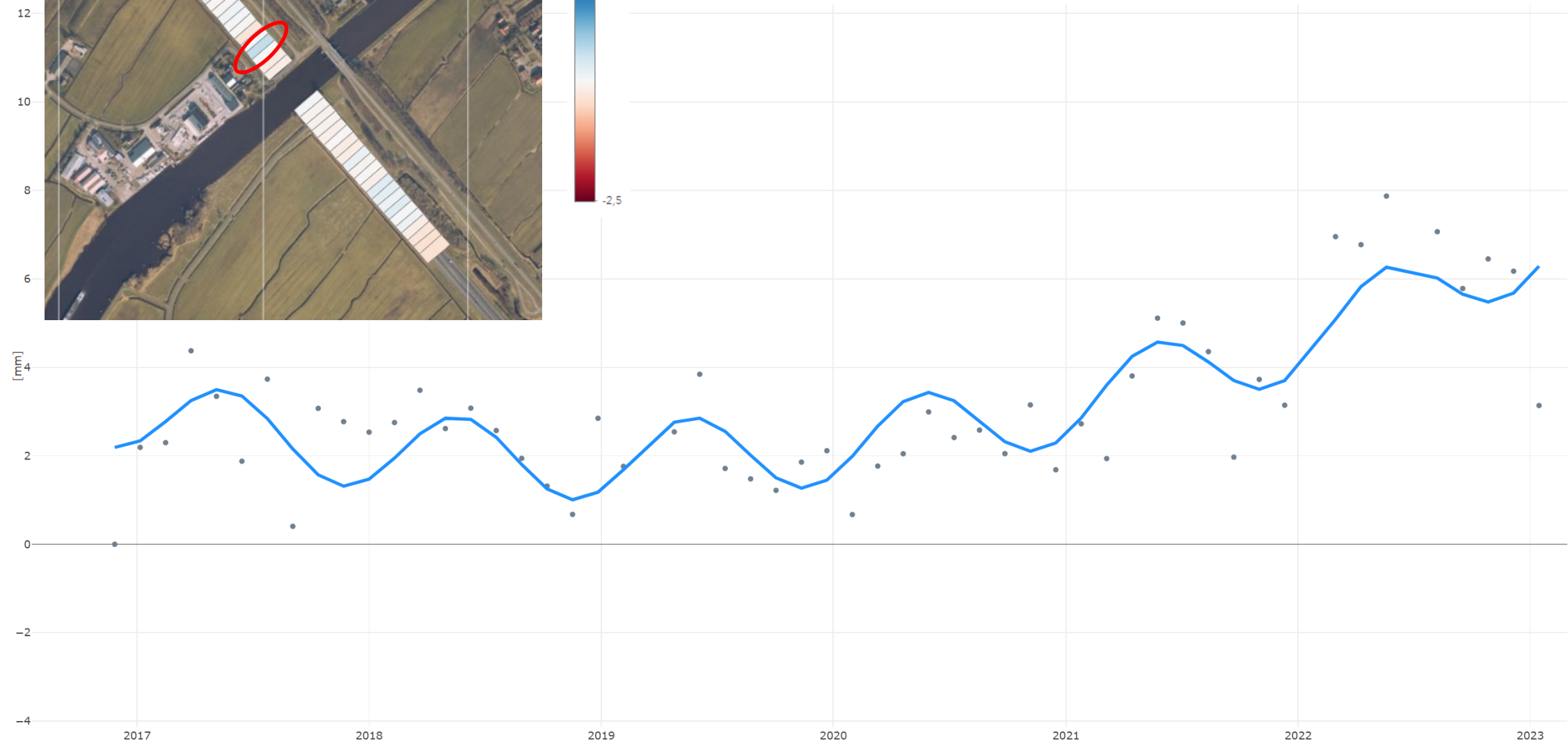
Verkeer richting Afsluitdijk volg Leeuwarden
A32, A31, N31

Verkeer richting Heerenveen volg Leeuwarden
N31, A31, A32

Lokaal verkeer via
N359 en N354

Extra reistijd 20 à 30 min.







Background

- Rijkswaterstaat requires insight in stability and deformation of its objects
- InSAR is a promising and proven technique for deformation
 - No on-site personnel required
 - Enables large-scale monitoring
 - Historical analyses are possible (if satellite data is available)
- Data availability generally good
 - Sentinel-1 nationwide (EGMS)
 - Radarsat-2 nationwide (via NSO)
 - High-resolution regionally
- Therefore, based on prior experiences and projects:
 - Operationalize the technique for objects with standardized processing
 - Research the operationalization for objects without standardized processing



Towards: standardized production

- Lot 1: Monitoring of tunnels and historical analysis of other objects
 - Objects for which standardization is proven possible
 - Purpose: continuation of current activities with possible additional call-off-contracts
- Lot 2: Developing and applying InSAR analysis to bridges and viaducts
 - Objects for which standardization is not yet accomplished
 - Therefore: applied research for enabling this standardization



Technical Documents – necessary for standardized production

- Technical Requirements
 - Contains requirements for both the InSAR deformation product and documentation
 - Based on prior experiences
 - Aims to safeguard the usability of final products
 - Adjustments can be made once a year (mutual agreement)
- Delivery Assessment Report
 - Describes the evaluation procedure
 - Aims to streamline the evaluation
- Object Information
 - Describes general expected motion of objects
 - Background document for informed InSAR processing



3. Explanation of the Scope

by: Emile Nieuwstraten (Technical Advisor)



Lot 1 – Monitoring of tunnels and historical analysis of other objects

- Standardized production
- Call-off-contracts
 - NOK 001: continuation of current monitoring (*TerraSAR-X and Cosmo-Skymed*)
 - Kleinpolderplein
 - Heinenoordtunnel
 - Vollenhaventunnel



Lot 1 – Monitoring of tunnels and historical analysis of other objects

- Standardized production
- Call-off-contracts
 - NOK 001: continuation of current monitoring
 - Kleinpolderplein
 - Heinenoordtunnel
 - Vollenhoventunnel
 - Additional call-off-contracts for objects of limited complexity (*medium- or high-resolution*)
 - Limited size (tunnels, highway junctions of limited complexity)
 - Larger extents (larger road segments, dams, dikes, ...)



Lot 2 – Developing and applying InSAR analysis to bridges and viaducts

- Applied research to allow for operationalization (medium- and high-resolution)
- Divided into 3 phases
 - Phase 1: Research and develop a technical solution for operational InSAR monitoring by testing on 5 objects to overcome current implementation barriers
 - Phase 2: Generalize the developed technical solutions to allow for robust scaling
 - Phase 3: Apply the developed technical solution to multiple objects for validation testing



4. Explanation of the Tender Procedure

by: David Chiang (Procurement Advisor)



Explanation of the Tender Procedure (1)

General Information

- **Procedure:** Public European tender (published 31st October 2025)
- **Descriptive document:** Including its appendices
- **All information regarding this tender:** Accessible via TenderNed
- **Contact person:** David Chiang (Procurement Advisor)



Explanation of the Tender Procedure(2)

Inquiries

- Questions regarding this tender:
 - Submit via TenderNed ("Questions and Answers")
 - May also be asked during this meeting (Note: no rights can be derived from preliminary answers provided at this meeting).
 - These questions and answers will also be published anonymously on TenderNed.)
- Submitted questions through TenderNed we will try to answer within a few days
- Information memorandum with all questions and answers will be published later on TenderNed.
- This presentation will be published at the end of the day.
- The information memorandum is part of the tender documents.
- If it is not possible to submit a question or an attachment through "Questions and Answers," please send a "Message."



Explanation of the Tender Procedure (3)

Submitting the Bid

- Bids must be submitted via TenderNed, using a qualified (preferably electronic) signature.
- The financial offer must be submitted separately from the rest of the documents
- Assessment occurs only if the submission meets all requirements and conditions, based on the award criteria.
- The contracts for both **Lot 1** and **Lot 2** will be awarded on the basis of the Most Economically Advantageous Tender (MEAT) – Best Price-Quality Ratio (BPQR), with a weighting of 60% quality and 40% price. In Dutch EMVI-BPKV



Explanation of the Tender Procedure (4)

Assessment Procedure

- Lot 1 has 2 quality criteria (KC1 and KC2), subdivided into key elements
- Lot 2 has 2 quality criteria (KC1 and KC2), subdivided into key elements
- The evaluation team responsible for assessing Quality is not informed of the Price. The Price will only be unlocked once the evaluation has been completed and recorded.

Assessment of Quality Criteria both Lots

- Evaluation is performed by a team of experts based on professional judgment, first individually, followed by an evaluation meeting.
- In the evaluation meeting, the individual quality assessments are discussed to reach consensus. If consensus cannot be achieved, the scores will be averaged.



Explanation of the Tender Procedure (5)

Final Quality and Price Assessment both Lots

- The scores for quality criteria 1 and 2, and thus the quality, are now established.
- The price is then unlocked in TenderNed.
- The final scores for quality and price are multiplied by the weighting factors. The weighted scores are totaled to determine the overall score.
- The tenderer with the highest overall score will be awarded the contract.



Explanation of the Tender Procedure (6)

Submission of Documents

- Documents are divided into several zip files:
- Zip files containing the tender documents (mainly PDFs)
- A zip file containing forms to be completed
- The tenderer must submit the BPQR quality criterion and all other required documents (with the exception of Price criterion) on the "Quality Criterion" tab in TenderNed.
- The tenderer must submit the BPQR price criterion on the "Price Criterion" tab in TenderNed.
- For further information, refer to section 7.12 of the descriptive document.



Tender Rules (1)

Communication

- Communication regarding the tender is strictly through TenderNed ("Questions and Answers" or "Messages").
- Contact with members of the project team or Rijkswaterstaat regarding this tender during the procurement process is not permitted (any violation may result in exclusion from the tender).



Tender Rules (2)

Further Do's and Don'ts

- Use the prescribed forms.
- Provide responses precisely as requested.
- Ensure your submission is complete and properly submitted.
- Ask questions during the inquiry period if anything is unclear or in case of inconsistencies.
- Do not wait until the last minute to submit **questions** and **bid**; technical disruptions (from TenderNed, your internet provider, etc.) may result in a late submission and your bid not being accepted.



Planning

Planning Aanbestedingsfase	Datum en tijd
Publication of the tender on TenderNed, start of the registration period	Fri 31 October 2025
Register for the information meeting until at latest	Mon 17 November 2025
Receipt of invitation for the information meeting at the latest	Tue 18 November 2025
Information meeting via TEAMS	Wed 19 November 2025, 14:00 to (latest) 15:30
Deadline for questions by the Bidder about the tender documents and for submitting text proposals on the draft agreement (including ARVODI-2025)	Wed 3 December 2025, before 12:00
Publication of the Information notice	Wed 10 December 2025
Latest date and time for submission of Bid	Wed 14 January 2026, Before 12:00 uur
Evaluation of Bids	Wed 4 February 2026
Notification of award decision	Wed 18 February 2026
Last day of the objection period (20 days) to request a preliminary injunction regarding the award decision	Tue 10 March 2026
Signing of Agreement	(tbd) March 2026



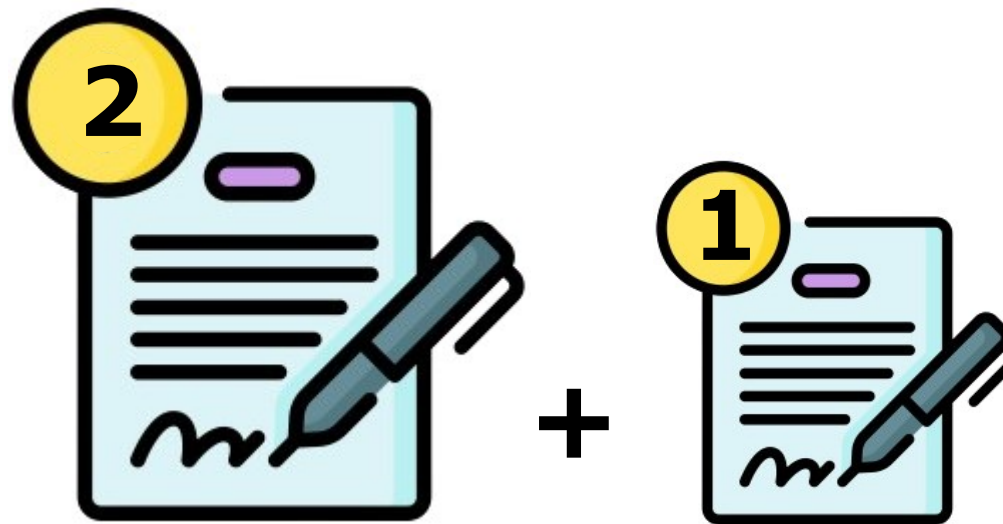
5. Explanation of the Contractmanagement

by: Martin Nederlof (Contractmanager)



Contract duration

- The Agreement has a term of **2 years**, with one optional extension of **1 year**, which may be exercised unilaterally by RWS.
- RWS must notify the Contractor **no later than 2 months before the end of the initial term** if it intends to exercise this extension option.





Contract conditions

- Framework and all Further Agreements follow **ARVODI-2025**, except where explicitly stated otherwise.
- RWS conditions always prevail over contractor's terms.
- Deviations only valid if agreed **in writing or by email**.
- RWS may terminate the framework if the **maximum quantity or value** is reached.
- All copyrights and data rights from the services are **transferred to RWS**.
- Contractors must comply with the **EULA** of the satellite data providers:
 - Data may only be used for this project;
 - All RWS-provided satellite data must be **deleted after contract expiry**;
 - Access limited to authorised personnel who accepted the EULA.



Quality requirements

- Contractor must have a **Quality Management System (KMS)** based on ISO 9001 principles.
- Submit a **Project Quality Plan (PKP)** within 10 working days after award.
- PKP must show:
 - Internal peer review (four-eyes principle)
 - PDCA** improvement cycle
 - Registration and correction of deviations
- RWS may perform **audits or sample checks** at any time.
- Corrective actions must be implemented **within 30 days**.



6. Conclusion

by: Navid Sanaie



Conclusion & Next steps

- Key takeaways
- Make use of the inquiry period
- Submit via TenderNed
- Wishing you success