

11942 - Market consultation

Doppler Lidar for aerosols and wind

8th of July 2026

Delft University of Technology (TU Delft)
Finance Department - Procurement

Postal address

PO Box 5
2600 AA Delft

Visiting address

Stevinweg 1
2628 CN Delft

About Delft University of Technology

Delft University of Technology (TU Delft) is a multifaceted institution offering education and carrying out research in the technical sciences at an internationally recognised level. Education, research and design are strongly oriented towards social applicability. Top education and research are at the heart of the oldest and largest technical university in the Netherlands. Our eight faculties offer 16 bachelor's including 4 joint degree programmes and more than 30 master's programmes with different tracks. Our more than 28,000 students and 6,000 employees share a fascination for science, design and technology. TU Delft focusses on creating impact for a sustainable society by educating responsible engineers, conducting world-class research, and developing innovative solutions to global challenges. For more comprehensive, in-depth information on TU Delft, its faculties and services, please refer to the university's website: www.tudelft.nl. For the TU Delft strategic agenda visit: www.tudelft.nl/en/about-tu-delft/strategy.

About The Ruisdael Observatory

The Ruisdael Observatory in the Netherlands (www.ruisdael-observatory.nl) is equipped with many different sensors to measure the state of the atmosphere. It is a nationwide network of sensors, combined with several advanced anchor stations, mobile facilities and computational infrastructures for models and data. One of the applications is the study of the interaction between aerosols and water clouds: how do cloud droplets form on dust particles in the atmosphere?

Currently, to address this question a combination of sensors is used: a radar for cloud observations, a microwave radiometer for water vapour and temperature, and a ceilometer for the estimating the cloud base. The latter needs to be replaced by a Doppler lidar that can also measure the vertical wind speed below the clouds and quantify backscattering by the aerosols below the clouds.

This foreseen upgrade of the ceilometer will give far more detail of the physical processes underpinning the aerosol-cloud interaction and help in understanding climate change better.

Purpose of the Market Consultation

TU Delft is conducting a market consultation in preparation for a forthcoming European tender procedure for the acquisition of a 'Doppler lidar for aerosols and wind' for The Ruisdael Observatory. The objective of this consultation is to identify capable and interested suppliers, gain insight into available technologies and market capabilities, and support the preparation of a well-informed and proportionate procurement procedure and tender documentation. The information provided by participants during this consultation is non-binding and will be used solely to support TU Delft in understanding market capabilities, defining appropriate requirements and preparing the future procurement procedure. All responses will be treated confidentially and will serve as input for TU Delft's internal decision-making process and the development of the tender documentation.

Participation in this market consultation is entirely voluntary and non-binding for both TU Delft and the participating parties. No rights or obligations may be derived from participation in, or from the outcomes of, this consultation. TU Delft reserves the right to invite one or more participants for follow-up discussions should additional clarification or market insight be required. Such discussions will not provide any participant with an advantage in any future procurement procedure.

To ensure equal treatment and transparency in the subsequent tender procedure, TU Delft may decide to share a summary of the consultation outcomes with all prospective tenderers. Such a summary will contain only the key findings and relevant information obtained during the consultation and may be included as part of the tender documentation.

TU Delft explicitly welcomes feedback on the suitability of the proposed technical specifications, alternative technical approaches, expected lifecycle costs, implementation risks and market developments that should be considered in the future tender procedure.

Information Request

In order to prepare a future European tender procedure TU Delft would like to identify suppliers who are interested and capable of delivering a Doppler lidar for aerosols and wind. To support this process, we kindly request your input via the **Response Form (Appendix A)**.

Planning

Activity	Date
Publication date of the market consultation	Wednesday 8 th of July
Deadline for initial clarification questions	Monday 21 th of July
Publication of Information Notice	Monday 27 th of July
Final deadline for submission	Monday 10 th of August
Optional clarification meetings	TBD

After submission deadline, the TU Delft will analyze all responses and use the results to further develop the procurement strategy, technical requirements and tender documentation. Where clarification or verification is required, TU Delft may contact participants during the evaluation of the market consultation responses. Responses may be submitted in Dutch or English.

Interested suppliers are responsible for monitoring relevant procurement publications and notices relating to this subject matter.