

Market consultation portal & viewer of the Dutch Satellite Data Portal (Satellietdataportaal)

This market consultation concerns the upcoming procurement of the Dutch Satellite Data Portal.

1 Contracting authority: The Netherlands Enterprise Agency

This market consultation is carried out by the Netherlands Enterprise Agency (in Dutch: Rijksdienst voor Ondernemend Nederland, RVO) for the **Netherlands Space Agency (NLSA)**, hereinafter referred to as "the organisation". NLSA is the governmental Space Agency of the Netherlands. NLSA's task is to advise upon and realise the national space policy. NLSA reports, both financially and substantively, directly to a steering committee consisting of representatives of the Ministry of Economic Affairs and Climate Policy, the Ministry of Education, Culture and Science, the Ministry of Infrastructure and Water Management and the Ministry of Defence.

2 Purpose of the notification

The purpose of the market consultation is to gain more insight into which parties are interested in participating in a European open procurement procedure concerning the upcoming procurement of the Dutch Satellite Data Portal and what is sensible and feasible from a technical and financial perspective.

3 Background

3.1 Project description

The Dutch Satellite Data Portal (het Satellietdataportaal) has provided high resolution satellite data to users in the Netherlands since 2012 via Application Programming Interface (API), and a viewer. These data may be used freely by registered users. The aim of the portal is to be easy to use for a wide range of users, interoperable with other portals, and using the latest technologies.

The work surrounding the Satellite Data Portal is divided across three ongoing contracts:

1. Acquisition of radar data, including processing.
2. Acquisition of optical data, including processing.
3. Development, hosting, and maintenance of the portal: viewer, access, storage, API, and helpdesk.

The third contract is coming to an end. To ensure continuity of the portal, NLSA is looking to procure the next phase of development and maintenance of the Dutch Satellite Data Portal. This planned tender concerns exclusively the third contract. The contractor will therefore make workable agreements with the suppliers of the radar and optical data regarding delivery. Storage, hosting, viewer, API, and helpdesk are now combined in a single contract without lots.

3.2 Project extent and duration

The project is expected to run from November 2027, for three (3) years with a possible optional extension of one (1) year.

3.3 Current use

The figures below describe the current scale and use of the portal.

User specifications

Registered users (2026)	approx. 5,000 (1,700 new users in the last year)
Data downloads per month	approx. 10,000, with outliers to 60,000 (mainly via API)
Outbound data transfer per year:	Approx. 500 TB

User groups	Diverse, including academics, municipalities, government institutions, research institutes, downstream companies, industry, private civil use, NGO's
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The organisation expects an increase in the use of the portal in the coming years due to the rise in automated processing and developments around agentic AI.

Data and storage

Current size data storage (Aug 2026)	approx. 365 TB
Expected increase per year	approx. 150 TB

An overview of the datasets currently available in the portal, viewer can be found [here](#).

The majority of the data is currently stored as GeoTIFF and/or is additionally made available as tiles via WMTS. We are considering making the data available as Cloud Optimized GeoTIFF (COG), so that users can retrieve parts of an image without downloading the entire file.

3.4 Project requirements

These requirements and functionalities are indicative and may change. They will be finalised in the tender documents.

3.4.1. Minimum functionalities

Viewer

The user can:

- log in and manage their account
- search and filter by location or Area Of Interest (AOI), time period, cloud percentage, and data type/sensor
- save AOI to personal account, including alerting system when new data is available for the AOI
- view data in web-viewer (desktop)
- view data on mobile phone
- share images externally
- compare images side-by-side and/or as an overlay
- compare images in a timelapse
- create and visualise customised combinations of bands (expert view)
- download directly from the viewer
- follow a 'newcomers' tour to explain the functionalities of the portal

The viewer and landing page must also meet Digital Accessibility requirements (EN 301 549 / WCAG 2.1).

Access to satellite data

- FTP
- STAC API
- Download from portal

3.4.2. User support

Medium: By phone and email

Availability: During office hours (Mon-Fri)

Response speed: Within 24 hours (Mon-Fri)

Language: Dutch or English (user preference)

Current estimate: Currently about 160 tickets/support conversations per year. This number currently also includes tickets due to bugs encountered by users.

3.4.3. Technical standards and requirements

To ensure interoperability within portals and data spaces, the Dutch satellite data portal is expected to follow technical and geodata standards. APIs must follow the REST API Design Rules and be documented through an OpenAPI Specification. The portal currently provides data through WMTS. We expect a transition towards the OGC API family for the new contract, with OGC API Tiles (succeeding WMTS) and OGC API Features (vector data) becoming mandatory. The existing services may continue to be offered alongside the new APIs for a transitional period to support existing clients. The portal must be reachable over both IPv6 and IPv4 (dual stack).

3.4.4. Security requirements

The Dutch Satellite Data Portal is a public WebGIS platform with a viewer, FTP and API access, and a registration system. The following security standards apply:

Connection and transport: in accordance with the NCSC guidelines, including TLS, HTTPS and HSTS, FTPS, DNSSEC and RPKI. Compliance is verifiable via internet.nl.

Certificates: Organisation Validated certificates, with automated renewal (ACME).

Access: OAuth 2.0 in accordance with the NL GOV Assurance Profile for API access. Downloads are available to registered users only.

Management system: ISO 27001 or a demonstrably equivalent system.

3.4.5. Reporting and communication requirements

Frequency of reporting: Every two months.

Scope of report: User stats (views, downloads, visitors), download speed, downtime, software/architecture updates (if any).

Progress meetings: Six progress meetings per year will take place. If needed, additional meetings will be arranged.

4 Application process and planning

Interested companies are invited to send an expression of interest, together with the completed template containing their answers to the questions to the Netherlands Enterprise Agency, by sending an e-mail to Ms. Andjanie Ramadhin (andjanie.ramadhin@rvo.nl) of the Procurement Office.

Substantive questions about the market consultation may be submitted by e-mail to andjanie.ramadhin@rvo.nl, with portaal@nlsa.nl in cc with the subject Market Consultation Satellite data portal with reference number 202602094. The deadline for submitting questions is stated in the schedule. All questions, together with the answers to them, will be anonymised and answered centrally and shared via TenderNed.

25 August 2026	Publication market consultation
Monday, September 28 th , 2026, 12:00 CEST	Deadline for submitting questions about the market consultation
Friday, October 9 th , 2026	Contracting authority sends answers to the questions submitted
Wednesday, October 21st, 2026, 12:00 CEST	Deadline for market parties to submit their response

The contracting authority will inform you of any changes to these deadlines.

5 Results of the market consultation

The results of this market consultation will be used as input for the new planned tender for the Dutch Satellite Data Portal, expected in April 2027.

As a result of the market consultation, the contracting authority can decide to start a follow-up process. As indicated earlier, we intend to initiate a tender procedure. Interested parties can participate in this procedure by submitting a tender.

Candidates should note that the information they provide in the context of this market consultation may be used by the contracting authority for the preparation of the tender.

In case of a follow-up process, no distinction will be made between parties that have or have not participated in the market consultation. No rights can be derived (mutually) from this market consultation, and it therefore offers no guarantee that purchase orders will be sent to you or even awarded.

6 Questions

Candidates are not required to answer all the questions, please only answer the questions that fall within your area of expertise.

Division of tender lots

Q1. The current contract covers storage, hosting and maintenance of the viewer and API, and the helpdesk. The contracting authority is considering dividing this into separate lots, whereby a single party may be awarded more than one lot. Which components should in your view ideally be tendered as separate lots, which should be combined, and which division would be undesirable? Please explain your answer, indicating what this would mean for your expected price and your willingness to tender.

Q2. Can you provide an indicative range of expected costs (In euros excl Dutch VAT and (if applicable) including local VAT and other cost) per component of the assignment? Please state the assumptions underlying your estimate.

Component	One-off	Annual	Assumptions
Storage			
API development and maintenance			
Viewer development and maintenance			
Helpdesk (working days)			
Security			

The pricing information provided is intended solely to give the organisation insight into the expected costs and to support the preparation of the tender and its budget estimate. The figures are indicative and non-binding. No rights may be derived from this information, and it will not be regarded as a quotation or price offer in the context of any future tender.

Q3. Continuity of the portal is important to us, including when the contractor changes. We see two possible directions:

- Intellectual property rests with NLSA and is transferred to a new contractor at the end of the contract.

The platform is built using open-source software and documented such that another party can continue to build on it. How do you view these options? Would either requirement affect your willingness to tender or your expected price? If so, please explain. Do you have other suggestions for safeguarding continuity between contractors?

Service delivery

Q4. Which **performance requirements** are common and realistic for a portal such as the Satellite Data Portal, given growing data volumes and user numbers?

Consider minimum download speed (currently 1 Gbit/s), minimum network speed for loading imagery (currently 1 Gbit/s), concurrent use, and availability (currently 99.9%). Which requirements would you advise us to set, and at what point do costs rise noticeably?

Which data formats and protocols would you recommend for efficient use and data transfer? Please explain your answer.

Q5. How do you design and validate the **user experience** and **user journey** of a portal such as this? How would you demonstrate that approach in a tender?

Derived products

The Satellite Data Portal currently provides raw and pre-processed data only, not derived products. Other platforms, such as the Copernicus Data Space Ecosystem, do offer these; either calculated on request or as pre-calculated collections.

We are considering a comparable extension, starting with simple band-combination layers, like NDVI. We are not yet committed to any approach.

Q6. Would you advise generating these layers on the fly with caching of results, or pre-calculating them as standard across the full acquisition? How do you weigh variable computing costs against fixed storage and processing costs? Approximately what effect would this have on total annual portal costs: less than 1%, 1–5%, 5–15%, or more than 15%? Please indicate which cost item is dominant and which assumptions you apply. An outline answer is sufficient.

Q7. Do parties capable of delivering the portal as a whole generally also have the expertise to generate and maintain derived products? Or would you advise including this as a separate lot or as an optional extension?

Technology and future-proofing

Q8. Which system and architecture requirements should the organisation set in advance in order to achieve and safeguard the following during the contract term?

- Scaling with growing user numbers and data volumes
- Extending the data portfolio with new sources and product types
- Restricting access to data or user groups at short notice, by area, dataset or individual user, where geopolitical circumstances give cause to do so
- Allowing for (authorised) data access/transfer of external data portals and data spaces
- Implementing external authentication, like eHerkenning or DigiD

Q9. For market parties familiar with the Dutch '[Federatief Datastelsel](#)' (Federated Data System); what would it mean for you as a potential tenderer if we were to connect the Satellite Data Portal to data systems such as the Federated Data System? Would this affect your willingness to tender? Why, or why not?

Process and timelines

Q10. What would be a reasonable tender period for preparing a tender, including the development and submission of a mock-up or presentation that may be assessed as part of the tender? Please explain your answer.

Q11. What in your view is a common, and what is a minimum realistic development period from contract award to go-live for a portal as described above? Please indicate the assumptions you apply and which factors may influence the lead time.

Q12. Which information, specifications, and assumptions do you consider necessary to prepare a sound quotation for this assignment? Which factors make this assignment attractive to tender for, and which factors might deter you from tendering?

Q13. Which other considerations, risks or recommendations would you like to bring to the attention of the organisation that are relevant to the further development and future tendering of the Satellite Data Portal?