



Memorandum of information Market consultation ` Satellite radar data delivery for the Satellite Data Portal' in the Netherlands.
Date: **16 September 2024**

In this memorandum of information, the contracting authority provides answers to the questions asked and remarks posted in the context of the above-mentioned Market Consultation.

Question	Chapter/ Paragraph from the selection instructions/the tender document	Question	Answer
1.		Can you please explain what do you mean with "failure of the satellite": do you mean a critical and permanent failure of the satellite or a temporary problem that may affect the quality of acquired image (B.1.e)?	Here we mean a critical and permanent failure. On the other hand, information on how you will handle temporary problems that may affect the quality is also of interest to us and you may specify such information under B.1.f on additional risks.
2.		Can you please specify what do you mean with "assess these risks and how you would mitigate them"? What kind of information do you expect about this specific question (B.1.f)?	Here we mean any circumstances that may occur that can affect the availability and/or quality of you potential data offer. For each of the identified risks you define the consequences and their impact to the delivery or quality (assessment) and you describe the actions that you foresee in case the risk occurs in order to manage or limit/eliminate the defined risk.
3.		Can you please specify, if possible, which are the requested showcases/project references that you expect to receive (previous satellite images delivery project? and if they have to mention specific technical capabilities or experiences (InSAR application projects?).	We indeed expect to receive references to previous satellite data delivery projects and specifically projects that catered for InSAR application projects with similar requirements as the requested dataset.
4.		Can you please detail what you mean by "any conditions or specific term (or technicalities)" that would apply to the offer? Do you mean potential License Agreements or commercial official conditions (B.1.c)	We indeed mean potential License agreements, commercial conditions. Eg. conditions on user license for viewing, download, distribution and sharing, or programming and delivery conditions such as priority conditions, delivery terms after failed acquisition, etc.

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5.		We understand that we would need to deliver the data to NSO via ftp and after NSO is responsible to upload and make available the data to NSO portal's users: do you confirm?	Yes, you would need to deliver the data via FTP, and NSO or a contracted third party will take care of the distribution to users via the NSO portal. Either way, it would also additionally be permitted that you would offer access for users to your FTP directly.
6.		What is meant with the current "12-day Revisit time" compared to the "24-day Repeat time"? Could you please specify?	With 12-day revisit time we mean the temporal frequency of the acquisition of the whole AOI, regardless of the looking geometry. With 24-day repeat time we mean the temporal frequency of the acquisition with exactly the same looking geometry and acquisition mode, as is necessary for InSAR application.
7.		Our constellation can potentially offer a (much) higher acquisition frequency than the required minimum of 24 days. What would be the required/desired acquisition frequency per orbit?	Acquisition frequencies closest to but equal to or better than 24 days would meet our minimum requirement. However, we would also like to learn what would be the highest achievable acquisition frequency from your constellation, since some foreseen applications do benefit from a higher acquisition frequency as the minimum that is defined at the moment.
8.		Current data is based on C-band while our Radar Constellation is X-band. Are you aware of potential impact and will you be responsible for transitioning from the current C-band solution to our' X-band data?	We ask you to provide a rational and potential data offer that allows for a transitioning from C-band to X-band, ensuring that the InSAR time series can be continued without significant loss in data quality. I.e. your potential data offer should <u>provide the right technical conditions</u> to allow for a proper transitioning to a new sensor / data source. Eventually, it will be the responsibility of the users (i.e. InSAR information providers) to make the actual transition.
9.		Current Radar data Look angle is ~32 degree. What is the acceptable Inc. Angle range (e.g. 20-45 degree)?	Any incidence angle would be acceptable, as long as use for InSAR applications is possible and hence the angle is kept fixed to generate a consistent data stack. If you are aware of any aspects or restrictions regarding the incidence angle that may influence the transition from the current data stack to a new data stack (and sufficient accurate correlation between two data stacks), please provide such information in your response.
10.		Is the systematic historical 1-2 years full country InSAR coverage over Netherlands AOI availability a mandatory requirement?	Yes, at least around 1-2 years systematic historical full country coverage is required when transitioning to a different sensor, as this equals around 15 to 30 parallel measurements, which is regarded as a minimum requirement to allow for a proper correlation between two different data stacks. If you have information that explains and

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			underpins that a shorter overlap period would be sufficient to make a proper correlation and also allow for the transitioning without significant loss in InSAR data quality, please share this information with us. We understand that this requirement might not be met today, but could be met in the future. We ask you to define at which point in time you'd be able to meet this requirement.
11.		Would a data offer with X-band data in higher resolution than 5 m and single pol be acceptable?	Such an offer would be acceptable given the fact that it meets the minimum requirements of 5 meter ground resolution and single polarisation, and under the assumption that all other requirements would also be met.
12.		Is it mandatory to respond to (all) of the “Additional wishes”?	No, it is not mandatory to respond to (all) of the additional wishes. Yet, based on the responses we receive, we may decide to include any or all of these wishes as requirement in an intended future purchase of radar data.
13.		Could you please share with us the current End-User Licence Agreement which has to be signed or agreed by NSO portal's users after registration?	Current End-User Licence Agreements of the current data portfolio in the NSO satellite data portal are available here: User Licenses Spaceoffice.nl As we currently foresee, a user license for the new intended assignment must in any case provide for the following aspects: - data will be available for download to all Dutch users who register in the NSO portal, eligible users being all Dutch legal entities, Dutch Institutions and Dutch residents - possibility to display the (pre-processed) radar data in the online viewer of the NSO portal, which is accessible to all users in the Netherlands without registration - The conditions in the Contractor's user licenses must be as open as possible for Dutch entities, and shall not be more restrictive than the license conditions of the current data portfolio in the satellite data portal
14.		Would it be possible to give us an indication of the yearly budget for radar data procurement in the scope of this market? This could be a minimum, or maximum or current budget to be sure that we can offer the best proposition for the 13 th of September.	No, we are not able to disclose current budget. It is precisely one of the requested information parts of this market consultation: to find out what can be supplied at what estimated costs.

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			You may propose several potential offers, in case you have different options to meet the requirements and/or address one or more additional wishes.
15.		In the Paragraph "Current specifications: Single polarisation, either VV (ascending mode) or HH (descending mode)". Is a HH possible in ascending AND descending mode? Do you need ASC OR DESC coverage or ASC AND DESC coverage?	We would need at least two acquisitions in 24 days, one in Ascending <u>and</u> one in Descending, to allow for InSAR applications. For applications in other user domains we prefer data in the two different polarisations, being single pol and/or dual pol. The polarisation has to be fixed per orbit, in order to ensure the application of InSAR.