



Netherlands – Evaluation and monitoring procedure

<p>1. Ex-ante Impact Assessment</p> <p>1.1. Methodology and procedures conducted (if applicable)</p> <p>Not applicable or no information presently available.</p>
<p>2. Procedure for selection of the research infrastructures to be included in the roadmap</p> <p>2.1. Objectives of the evaluation</p> <p>Not applicable or no information presently available.</p> <p>2.2. Eligibility conditions</p> <p>Facility proposals are required (Netherlands Organization for Scientific Research, 2016):</p> <ul style="list-style-type: none"> To meet the financial lower limit (€10 million) for large-scale research facilities <p>Not to be included into or be part of the existing landscape (focus on new facilities)</p> <p>2.3. Evaluation criteria for the selection of the RI to be included in the RI national roadmap</p> <p>For composing the Roadmap, the following criteria were assessed:</p> <p>The importance for science and the potential to attract researchers (science and talent case)</p> <ul style="list-style-type: none"> The committee will assess the scientific importance and urgency of the intended infrastructure in light of the developments in the relevant disciplines/research areas. The expected innovation that the infrastructure will help to realise, and the intended scientific breakthroughs will be assessed. Also describe the expected attractiveness of the infrastructure for foreign and Dutch researchers. Advanced scientific infrastructures are also vital for attracting scientific talent to the Netherlands or for keeping such talent in the Netherlands. The infrastructure should therefore be attractive enough for foreign and Dutch researchers. <p>The importance for society and/or industry and the connection with societal developments (innovation case)</p> <ul style="list-style-type: none"> The committee will assess the societal and/or economic importance of the intended infrastructure. Research infrastructures are also attractive for industry and for innovative government and/or have a broader societal importance. Large-scale research infrastructure, in particular, works as a magnet for new knowledge and insights and that creates an outstanding climate for both small and large companies and/or contributes to the solution of societal challenges like integration, ageing population. It is therefore important to connect with national policy frameworks and trends, if possible, such as the top sectors policy and the societal and scientific themes that are playing a role in the Netherlands and Europe. Besides this aspect the possible value in terms of valorisation and other non-scientific use will be assessed. <p>The importance for the Netherlands</p> <ul style="list-style-type: none"> Describe the importance of the intended infrastructure for the Netherlands and the Dutch research community taking into account the European/global context. Describe whether there are similar possibilities elsewhere for use and if yes, why these cannot be used. Large-scale scientific infrastructures should serve a major national interest and often have a strong international status as well. State how unique this infrastructure would be in the Dutch research community and what the possible interface or overlap is with existing infrastructures.



Financial aspects of the new infrastructure

- If the infrastructure is submitted for the National Roadmap, then you need to provide a detailed description. If the infrastructure is not registered for the National Roadmap, then a brief description will suffice.
- Describe which possible sources of funding have been or will be applied for.
 - Providing a budget for the intended investments.
 - Description of how a cost-effective exploitation of the infrastructure will be realised.
 - An estimation of the use of the infrastructure (utilisation rate) and which costs users will be invoiced for (in comparison with other similar infrastructures).
 - Description which of the institute's own resources will be used for the infrastructure.
 - Answering the question of how the long-term continuity, decommissioning of the infrastructure and the investments will be provided.

2.4. Evaluation method and procedures conducted (organisation in charge, timing, selection of reviewers, configuration of panels, indicators, etc.) for the selection of the RI to be included in the RI national roadmap

The Permanent Committee for Large Scale Scientific Infrastructure of NWO assessed the facilities and decided which facilities should be part of the Roadmap and which not. The committee also decided to bring together facilities in the same field of research of facilities using the same equipment. Those facilities were clustered in one coherent national facility. The researchers involved were asked to develop a joint investment plan and to set clear priorities. At the end the roadmap was proposed to the executive board of NWO who approved the National Roadmap.

2.5. Proposals evaluated and selected (available statistics)

An inventory of the landscape of existing and proposed new facilities in Netherlands is the basis for the selection of facilities for the National Roadmap for Large-Scale Scientific Infrastructure.

The *Permanent Committee for Large-Scale Scientific Infrastructure* received a total of 164 facilities from 54 different institutions. Of these, a total of 113 have been incorporated into the landscape of existing large-scale research facilities in the Netherlands (see www.onderzoeksfaciliteiten.nl [Last access: 08/2017]). A number of facilities did not meet the financial lower limit (€10 million) for large-scale research facilities and have therefore not been incorporated into the landscape.

The committee concluded that the facilities need to harmonise and cooperate more effectively in order to prevent duplication and to use the available infrastructures in the best way.

Harmonisation with the field and the evaluation of the Permanent Committee has led to a new National Roadmap consisting of 33 facilities. These are in part individual facilities (16), as was the case with the previous National Roadmap. In addition, the National Roadmap consists of clusters of facilities (17) that are asked to draft a joint investment plan for the entire cluster.

3. Update / Monitoring and ex-post Evaluation of RI Roadmap

3.1. Objective of the monitoring of the RI national roadmap as a whole

The objective is to evaluate which facilities in the Netherlands are still considered of the utmost importance and therefore should be added to the roadmap.

3.2. Periodicity of the RI national roadmap monitoring actions (if applicable)

This National Roadmap is set to run for a period of 4 years. This might be changed into once in six years. It must be stressed that in urgent cases we allow additions in between. The next update of the National Roadmap will take place sometime in 2020. In addition, bi-annual progress report and an annual overview of the outputs are required to RI projects.



3.3. Methodology and procedures conducted (timing, approach, indicators, etc.) for monitoring the RI national roadmap
In 2018 the Permanent committee will develop the procedure for the coming update of the Roadmap. This includes the evaluation of the present roadmap facilities and the clusters of facilities.
3.4. Methodology and procedures conducted (timing, approach, indicators, etc.) for monitoring the individual RI included in the RI national roadmap
The Permanent committee has decided to ask for annual progress reports and will visit the granted facilities in the coming years. In the coming month a more detailed monitoring procedure will be developed using also the results of the INROAD project
3.5. Methodology and procedures conducted in the case that an ex-post evaluation of the RI national roadmap is planned or has been implemented
Not applicable or no information presently available.

