



Netherlands – National Embedment

1. RI definition	
In which points does the National Roadmap deviate from the ESFRI Roadmap?	
Categories	National Roadmap
Funding	x
Categorisation of RI	
Access to RI	
Organisation within national procedure	
<p>The National Roadmap defined a minimum size of the facility. Further the ESFRI definition is used. We do not divide between roadmap and landmarks because in both cases the funding of the facility has to be provided by NOW.</p> <p>RI are facilities, resources and services that a research community uses to conduct research and promote innovation in its field. Where relevant, the infrastructure can also be used for other purposes than research, for example education or public services. Among other things, it concerns important scientific equipment or collections of instruments; knowledge-based resources such as collections of natural specimens, archives and collections of scientific data; e-infrastructure such as (interlinked) data files, and computer systems and communication networks; and any other unique infrastructure that is critically important for achieving excellence in research and innovation. This could refer to infrastructures situated in a single location, or virtual or distributed infrastructures (in the Netherlands or abroad).</p> <p>At the very least, an infrastructure that is also part of the National Roadmap for Large-Scale Scientific Infrastructure must provide access based on scientific excellence or promote a broad access policy.</p>	

2. RI players in the national R&I system
<p>National relevance of RI</p> <p>Cohesion between the various facilities, uniqueness, overlap and cohesion, affiliation with ESFRI, cooperation and selectivity in the field is requested.</p> <p>Affiliation with strategic developments, with the Dutch National Research Agenda (NWA), with strategic goals and priorities of institutions and with scientific fields, top sectors is demanded.</p> <p>Participation and use (The facility's national and international target group and user group) and significance to science and society, as well as status/maturity of facility (Phase of life, support, governance and organisational structure, substantiation of the investment plans, institutional commitment, funding also in the long term) is equally relevant for RI.</p> <p>A total amount of approximately 200 million € will be available for the coming five years. Of this amount 20 million € are available for the humanities/social sciences, 90 million € for science/technology and 90 million € for the life sciences. The committee recommends using this ratio for upcoming National Roadmap calls.</p> <p>The Permanent Committee believes that it is important for the Netherlands to also harmonise, where possible, with ESFRI's European Roadmap.</p> <p>Dutch facilities that dovetail with an ESFRI infrastructure should be part of the ESFRI infrastructure. The Permanent Committee has therefore decided not to include facilities in the National Roadmap that are aligned with an ESFRI facility, which are not part of it. In the current transition phase the committee will require facilities to which this applies to first become part of an ESFRI facility before submitting an application for Roadmap resources. In doing so, the committee will look at ESFRI landmarks, ESFRI projects and ESFRI emerging facilities. The committee generally believes that harmonisation with international priorities is important in order to prevent duplication.</p> <p>Embedding of RI in the national R&I system</p> <p>The NWO (Netherlands Organisation for Scientific Research) is most important when it comes to embedding international research priorities in a national competitive scheme. Procedures regarding definition of priorities, selection decisions, reporting requirements, eligibility criteria, definition of eligible costs, intellectual property rights, standards for proposal evaluation, funding rates can be</p>



found on the NOW websites.

3. RI in the National R&I System

The R&I structure in the Netherlands is mainly centralised. The central government remains the main financing body. Policy choices and focus areas are gradually becoming more regionalised. Direct support to business R&I is also increasingly provided at the regional level. The main policy actors in R&I are the Ministry of Education, Culture and Science (ECS) and the Ministry of Economic Affairs (EA) share the responsibility for science policy. EA is responsible for enterprise policy, which includes innovation policy. ECS is responsible for education policies and the allocation of institutional funding to the universities. The main R&I policy implementation bodies are the NWO, the Royal Netherlands Academy of Arts and Sciences (KNAW), and the Netherlands Enterprise Agency (RVO). In the field of Health science, the Netherlands has several private and non-profit organisations and foundations that fund research.

4. Major national strategies for international cooperation in R&I and strategic integration of RI

The Netherlands is actively involved in increasing international cooperation in research, development and innovation with third countries. According to the latest progress report on the ERA, the Netherlands spends 3.1% of its R&D budget on collaboration programs carried out with third countries, ranking fourth of all ERA Member States. Several measures exist that stimulate collaboration in research, which usually take the form of bilateral agreements. Next to long-standing research cooperation with countries such as the U.S. and China, in the past years agreements have been set up or strengthened with emerging countries such as Brazil and India. The NWO Strategy 2015-2018 describes that these collaborations will be continued in the upcoming years. The basis for cooperation with third countries consists of Memoranda of Agreements which form around specific themes. (Janssen et al. 2016, p. 69)

**Roadmap Call: facilities on the National Roadmap can apply for funding*

Step	Action	Responsible actor	Result?
1	Planning/ Preparation of Guidelines	Permanent Committee Large scale RI / NWO	
2	Call	NWO	
3	Landscape analysis	Permanent Committee Large scale RI / NWO.	
4	Mapping	Permanent Committee Large scale RI / NWO	
5	Eligibility Check	Permanent Committee Large scale RI	
6	Science-driven Evaluation	Roadmap international assessment committee	
7	Economic evaluation	Roadmap international assessment committee	
8	Evaluation of societal relevance	Roadmap international assessment committee	
9	Decision	NWO	
10	Validation	NWO	

References

- Dutch Ministry of Education, Culture and Science (2013). The Netherlands' roadmap for large-scale research facilities [online]. <https://www.infrafrontier.eu/sites/infrafrontier.eu/files/upload/public/pdf/Infrafrontier%20Research%20Infrastructure/2013-07-01_Roadmap_RI__NL_2012.pdf>. [Last access: 07/2017].
- Information included in the InRoad Consultation (survey sent on 02/05/2017).
- KNAW (February 2015). KNAW gives impulse to free accessibility of scientific information. In Dutch. < https://www.knaw.nl/en/news/publications#b_start=20 > [Last access: 08/2017].



- NWO (April 2015). NWO Strategy 2015-2018. <
<https://www.nwo.nl/binaries/content/documents/nwo-en/common/about-nwo/publications/items/nwo/strategy-memorandum-2015-2018/NWO+Strategy+2015-2018+eng-web-pdf.pdf> > [Last access: 08/2017].

Further links

- Key Figures is a statistical publication in which the Dutch Ministry of Education, Culture and Science (OCW) presents the latest figures regarding the results and status of its policy areas.<<https://www.government.nl/topics/science/documents/reports/2012/07/24/key-figures-2007-2011>>. [Last access: 08/2017].

