



# *Roadmap*

# **National Coordination Point for Research Data Management**

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Sustainable Data Innovation programme

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## 0. Management summary

The emergence of data-intensive research and the development of an Open Access policy have made the handling of research data an important issue. And the recommendations of the Schuyt Committee around the responsible management of research data also drive this process. In this context, far-reaching changes are required in the way people approach and conduct their research.

The Association of Universities in the Netherlands (VSNU) has asked SURF to establish a compact and effective National Coordination Point for Research Data Management. SURF has taken on this coordinating role in close collaboration with its partners in Research Data Netherlands (RDNL) (a collaborative partnership comprising of 3TU.Datacentrum, Data Archiving and Networked Services (DANS) and SURFsara) and clearly also has the wider SURF target group (higher education and research in the Netherlands) in its sights.

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*The National Coordination Point's mission is to prepare, facilitate and monitor the development and implementation of Research Data Management policy for academic research in the Netherlands, in close collaboration with those working in the field, and to share knowledge and experience at national level, so the Netherlands can develop and implement Research Data Management in an efficient and effective way.*

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*The vision of the National Coordination Point is as follows: By 2020, Research Data Management will be a self-evident part of the way people approach and conduct research and teaching at Dutch universities and research institutions. This will be implemented in such a way that:*

- *there is synergy between policy, ICT and research support that enables researchers to employ sound Research Data Management;*
- *there are links between (experts from) organisations conducting research, general and technical services organisations and research funding organisations;*
- *the Research Data Management policy is an integral part of the administrative process.*

*The National Coordination Point for Research Data Management has successfully facilitated and supported this process, in close collaboration with those working in the field, and acts as a role model for national strategy at international level.*

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Between July and September 2015, a Quickscan based on interviews with around thirty experts was carried out. On 21 September 2015, the members of the Special Interest Group (SIG) on Research Data, the UKB Research Data Working Group and the interviewed experts were invited to a working session to discuss and improve the first draft of a Roadmap. This led to the prioritisation of the following five issues which must be resolved: **facilities and data infrastructure; legal aspects and ownership; financial aspects; support and training for researchers; raising awareness of Research Data Management**. The Roadmap was discussed with the VSNU's Steering Committee on Research and Valorisation (SRV) on 16 October 2015. The SRV's feedback on and recommendations around the issues have been incorporated into this Roadmap. The issue of facilities and data infrastructure is regarded as the most important, and will be given priority, with interoperability being a key issue in this field.

In order to be in a position to tackle the issues to be resolved in the field of Research Data Management effectively, a facilitator was approached for each issue, who will drive priorities, results and implementation on the basis of a work programme and milestone plan. The National Coordination Point will facilitate the activities for each issue, focussing on results, will be responsible for communications, will monitor progress and will disseminate the results. Wherever possible, building blocks, results and best practices from existing collaborations will be incorporated and/or highlighted.

Together with the Dutch research universities, the National Coordination Point for Research Data Management aims to achieve the following shared goal: Research Data Management will be a self-evident part of the way of people approach and conduct research and teaching at Dutch universities and research institutions, based on

synergy, links and the embedding of RDM policy (at administrative level). The ultimate goal being to perpetuate research in the Netherlands which is excellent, applicable, sustainable and ethical.

This Roadmap will be used to inform a national approach to Research Data Management in the Netherlands. We will do this together. Together with the VSNU and its members, and together with other SURF institutions and stakeholders who have a contribution to make in this field.

## 1. National Coordination Point for Research Data Management

### 1.1 Background

Both research and teaching are seeing a dramatic increase in the quantity and complexity of the data with which they work.

An essential prerequisite for the successful handling of large volumes of research data is sound Research Data Management: the careful handling, management and long-term availability of research data for the purposes of re-use.<sup>1</sup>

#### The role of data in research

Thanks to developments in technology, the opportunities for generating, collecting and processing data are constantly increasing. This has resulted in a paradigm shift in how scientists conduct their research and the scale of their research. Research is increasingly data intensive.<sup>2</sup> But even in the case of smaller-scale research, the complexity and speed with which data is made available, processed and analysed creates new demands in terms of how research is organised, expertise and facilities.

#### Reproducibility of research: efficiency and integrity

Making and keeping research data available and documenting the research process help ensure that not only the research result itself but also the research process with the underlying data and systems can easily be reproduced. On the one hand this facilitates re-use in follow-up research and, on the other, it guarantees scientific integrity.<sup>3</sup>

#### Access to and re-use of research: Open Science

The openness that is increasingly required of scientific research is leading to changes in the valorisation of scientific results, both within science and beyond.<sup>4</sup> This offers both the researchers themselves and their universities additional opportunities for raising their profile and impact. And making research results accessible is also an increasingly important factor in the obtaining of funding (at European level too).<sup>5</sup> Good data management ensures that while research is being conducted the right preparations are made to make data available where possible but to keep it protected where necessary.<sup>6</sup>

#### Need for coordination

The universities feel the need to assist their researchers in the field of Research Data Management, i.e. to motivate and support their researchers. In order to tackle this effectively, ideally the university's administration and policy departments and ICT department and university libraries and research support must work closely together. Both within the university itself and within the broader field of Dutch universities as a whole, or where necessary and desirable, within the broader scientific (research) community in the Netherlands.

<sup>1</sup> Programme: SURFsara Sustainable Data (2014): <https://www.surf.nl/binaries/content/assets/surf/nl/2015/controlling-document-innovatieprogramma-duurzame-data-p4.pdf>

<sup>2</sup> See: Hay, Transley and Tolle (eds), *The Fourth Paradigm: data-intensive scientific discovery* (2012): <http://research.microsoft.com/en-us/collaboration/fourthparadigm/>

<sup>3</sup> Schuyt Committee recommendations: (2012) *Zorgvuldig en integer omgaan met wetenschappelijke onderzoeksgegevens (Responsible research data management and the prevention of scientific misconduct)*, the Royal Netherlands Academy of Arts and Sciences (KNAW), Opinion of the KNAW Committee on Research Data (Schuyt Committee), September 2012

<sup>4</sup> Science as an Open Enterprise (2012): [https://royalsociety.org/~media/Royal\\_Society\\_Content/policy/projects/sape/2012-06-20-SAOE.pdf](https://royalsociety.org/~media/Royal_Society_Content/policy/projects/sape/2012-06-20-SAOE.pdf)

<sup>5</sup> For example Horizon2020: [http://ec.europa.eu/research/participants/data/ref/h2020/grants\\_manual/hi/oa\\_pilot/h2020-hi-oa-data-mgt\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf)

<sup>6</sup> See: Esther Hoorn (2012): <http://www.rug.nl/science-and-society/centre-for-information-technology/organisation/pictogram/2012-5/dans.pdf>

All universities, grant providers and a number of scientific disciplines are currently developing or implementing policies and facilities which are designed to give researchers effective support in the field of Research Data Management.<sup>7</sup> Given the broad nature of the subject and the divergent areas of expertise and responsibilities that it involves, effective coordination and securing of developments has so far proved difficult. The results of initiatives are often imperceptible and are frequently only used within the university itself. When tackling key, universal Research Data Management issues, better coordination and facilitation of collaboration is necessary at national level in order to enable results with the maximum impact to be achieved within a foreseeable period of time. Ideally this will be approached in such a way that duplication is avoided and the knowledge available in the field is used as efficiently as possible.

On 6 May 2015, the Association of Universities in the Netherlands (VSNU) asked SURF to put forward a proposal for establishing a **National Coordination Point for Research Data Management** to share knowledge and experiences and to inform the administrative agenda about important developments.<sup>8</sup> SURF responded positively to this request and said that the National Coordination Point would lead to the efficient and effective development and implementation of Research Data Management policy at universities in the Netherlands.<sup>9</sup> The creation of this Coordination Point also meshes seamlessly with the objectives of the Sustainable Data innovation programme which is being implemented in the context of SURF's Strategic Plan 2015-18, under the leadership of SURFsara, i.e. the provision of a knowledge platform which aims to ensure the optimum use of data in research and education.

SURF is tackling this across the whole of its target group (higher education and research in the Netherlands) and in close collaboration and agreement with its **Research Data Netherlands (RDNL)** partners: a collaborative partnership comprising of 3TU.Datacentrum, Data Archiving and Networked Services (DANS) and SURFsara.

## 1.2 Mission

The mission of the National Coordination Point for Research Data Management is to prepare, facilitate and monitor the development and implementation of Research Data Management policy for academic research in the Netherlands, in close collaboration with those working in the field, and to share knowledge and experience at national level, so the Netherlands can develop and implement Research Data Management in an efficient and effective way.

The National Coordination Point collects and disseminates knowledge and information, brings the right people together, facilitates initiatives in the field, initiates policy-making and makes expertise, solutions, best practices and standards relating to relevant topics available, with a view to:

- I. obtaining a good overview of existing initiatives;
- II. sharing successful approaches and results and promoting their re-use;
- III. identifying gaps, putting them on the agenda and preparing administrative decisions.

## 1.3 Vision

The vision of the National Coordination Point for Research Data Management is as follows: By 2020, Research Data Management will be a self-evident part of the way people approach and conduct research and teaching at Dutch universities and research institutions. This will be implemented in such a way that:

- there is synergy between policy, ICT and research support that enables researchers to employ sound Research Data Management;
- there are links between (experts from) organisations conducting research, general and technical services organisations and research funding organisations;
- the Research Data Management policy is an integral part of the administrative process.

The National Coordination Point for Research Data Management has successfully facilitated and supported this process, in close consultation and collaboration with those working in the field, and acts as a role model for national strategy at international level.

<sup>7</sup> Universities: UKB research: <https://wiki.surfnet.nl/display/RD/6.+Themasessie+17+september+2015>; Funders: e.g. the Netherlands Organisation for Scientific Research (NWO) and the Netherlands Organisation for Health Research and Development (ZONMw): <http://www.nwo.nl/beleid/open+science/datamanagement> and <http://www.zonmw.nl/ttd>; Scientific disciplines: e.g.: the Netherlands Federation of University Medical Centres (NFU): : <http://www.nfu.nl/publicaties/data4lifesciences>

<sup>8</sup> *National Coordination Point for Research Data Management*, letter from VSNU to SURF, reference VSNU 14/131U, 6 May 2015.

<sup>9</sup> *Voorstel Coördinatiepunt Research Data Management (Proposal for a Coordination Point for Research Data Management)*, letter from SURF to VSNU, reference SURFDIR-2-14463, 21 May 2015.

## 2. Results so far: Quickscan and milestone plan

For the purposes of the Roadmap, a Quickscan of the key initiatives and individuals was performed in order to identify the key issues and obstacles in the field of Research Data Management. The Quickscan involved the interviewing of some thirty experts between July and September 2015. Potential interview candidates were proposed by the Special Interest Group (SIG) for Research Data (see appendix for an overview of the experts interviewed). Based on these interviews, the issues which those working in the field believe it is important to resolve were identified.

The Quickscan, which is available as a separate appendix to this Roadmap, provides an overview of the organisations, and their key individuals, which are relevant to Research Data Management, the issues around Research Data Management, existing Research Data Management models, programmes and initiatives and an overview of good practices and recommended literature. The Quickscan is a living document which will be expanded and added to in the future, along with the Roadmap.

### 2.1 Issues to be resolved

On 21 September 2015, the members of the Special Interest Group (SIG) on Research Data, the UKB Research Data Working Group and the interviewed experts were invited to a working session to discuss and improve the first draft of the Quickscan and Roadmap. At this meeting, a consensus was also reached on the role and tasks of the National Coordination Point and a joint vision for the future was formulated. Finally, five key issues which must be given priority were identified. On 16 October 2015, the Roadmap was discussed with the VSNU's Steering Committee on Research and Valorisation (SRV). The SRV's feedback on and recommendations around the issues have been incorporated into this revised version of the Roadmap.

#### Overview of the issues to be resolved

##### Facilities and data infrastructure

Facilities and data infrastructure is regarded as the most important issue. What requirements should we impose in terms of access and security, the format and standards in which data is recorded? What is the ideal systems architecture? How can we ensure the interoperability of technical facilities and the data infrastructure? How are research systems managed (input/output)? Who is responsible for what? What are facilities are required during the different stages of research and different types of data and how do we facilitate big data? What are long-term solutions? How do we tackle software sustainability? How do we facilitate the sharing of knowledge between specific RDM projects and pilots at institutions, and standardisation and development of standards (to enable efficiency and interoperability)?

##### Legal aspects and ownership

Who can do what with research data? Under what conditions can and may data be made available? What must be organised in advance? Who is responsible for keeping data available and accessible? How should privacy-sensitive data be dealt with? Ownership is an important factor in the case of Open Data: how do we approach publishers and ownership and how do we approach access to data by companies? When can publicly financed data be transferred, for example, into private hands, and when can privately financed data become public data? How do we ensure that universities don't make the same mistake with research data as they did with publications and lose ownership over this data as well?

##### Financial aspects

Who will cover the costs of data management related activities before, during and after the research when funding for the project has ended? What do these costs actually consist of? Can the existing diversity in the requirements of funders in terms of the data management plans to be submitted be harmonised, and would this be a good thing?

##### Support and training for researchers

How can the interaction between the ICT and/or the administrative/policy/legal department and the library best be organised? What is the role of a Research Data Office? What education and training are necessary for researchers and when?

##### Raising awareness of Research Data Management

The embracing of Research Data Management is different for each stakeholder. How can we promote collaboration? How do we ensure that the scope is broad enough for all those involved? Although this

issue is relatively limited in scope compared to the other issues, collaboration between institutions at this level is expected to deliver significant added value, amongst others through the defining and sharing of best practice.

The National Coordination Point plays a facilitating role in identifying, tackling and resolving key issues in the field of Research Data Management. These are identified in consultation with experts working in the field and/or at the instigation of the existing cross-university consultation structures (in the field of both policy-making (general, financial and legal) and ICT and research support).

## 2.2 Work process

### General principles

The National Coordination Point will prioritise the issues raised in consultation with those working in the field. The National Coordination Point will monitor progress and coordinate; those working in the field will focus on operational implementation.

Where the field so requires, the National Coordination Point will lead the way in defining national policy, in close consultation with the partners involved, and will promote policy convergence. Within the National Coordination Point the basic principle will be generic coordination at institutional level, while, through contacts and collaboration with research communities, the specific requirements of the various academic disciplines will be taken into account. The National Coordination Point will not provide any coordination within the institutions themselves.

The National Coordination Point works from a national perspective, but within an international context. International coordination and the following of international initiatives in the field of Research Data Management is crucial to the achievement of sustainable solutions.<sup>10</sup>

In the case of coordination activities, a balance must be struck between the added value of meetings such as seminars and workshops and the efficiency of an online community. In principle the coordination activities will comprise of:

- organising and facilitating meetings, based on the Roadmap, to resolve urgent issues;
- collating results and organising follow-up;
- maintaining an online platform on which the results can be shared and located.

In order to create a solution which has the support of stakeholders, researchers and experts in the field from the administration/policy/legal affairs triangle, ICT, university libraries/research support must be involved in the initiative. At the heart of this triangle are the research and the researchers. This broad engagement will also increase the level of support for the initiative. In order to enable the effective engagement of academia, in addition to its role as client (receiving reports, escalation level etc.) the VSNU should also play an active role within its own sphere of influence (authorisation etc.) and where necessary also outside it (advocacy).

As well as engaging the Dutch universities, intensive collaboration will be sought with the Dutch research community as a whole, including the Netherlands Federation of University Medical Centres (NFU), overarching scientific organisations (such as the Netherlands Organisation for Scientific Research (NWO), the Royal Netherlands Academy of Arts and Sciences (KNAW) and the Netherlands Organisation for Health Research and Development (ZonMW)), specific research institutions (such as the National Institute for Public Health and the Environment (RIVM) and the Netherlands Organisation for Applied Scientific Research (TNO)), research communities (such as the Dutch Tech Centre for Life Sciences (DTL)), and at a later stage potentially also with institutions and/or organisations involved in higher education (such as the Association of Universities of Applied Sciences).<sup>11</sup> As a cross-sector player, this type of cooperation comes naturally to SURF and is of crucial importance to it.

<sup>10</sup> SURF is currently already active within international bodies such as EUDAT <http://eudat.eu/>, Knowledge Exchange <http://knowledge-exchange.info/> and the Research Data Alliance <https://rd-alliance.org/>. Other important international initiatives include the activities of LERU <http://www.leru.org/index.php/public/home/> (roadmap for RDM) and the LEARN project <http://libereurope.eu/eu-projects/#LEARN>, which plans to build a coordinated infrastructure based on the LERU roadmap. See the Quickscan appendix for other international initiatives.

<sup>11</sup> Data awareness is developing more slowly in education than in the world of research. Recently, the Universities of Applied Sciences have also started to consider the concept of RDM. See: <http://www.vereniginghogescholen.nl/publicaties-en-verenigingsafspraken/publicaties-gesorteerd-op-verschijningsjaar-1/1-2015/2181-strategische-visie-vereniging-hogescholen-wendbaar-weerbaar/file>, p. 20 -21.

The National Coordination Point will drive progress by identifying blindspots which will subsequently be tackled under the various issues.

### Process

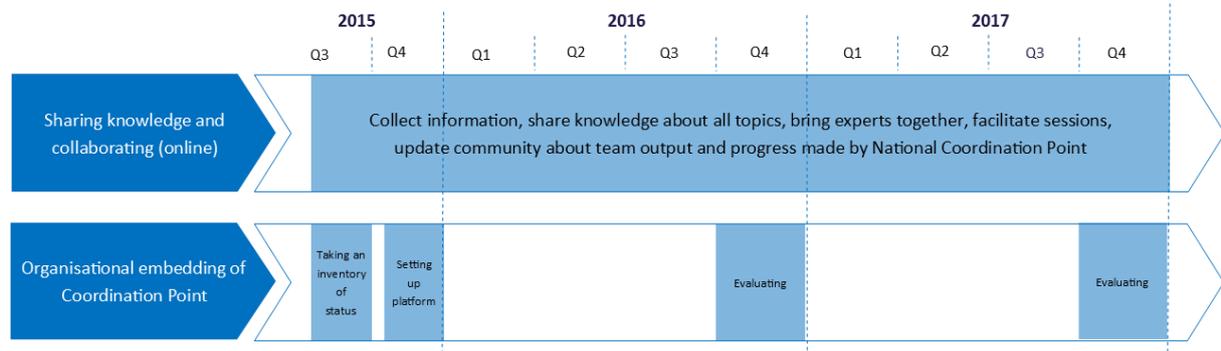
In order to achieve an effective and efficient approach to the identified issues, the National Coordination Point proposes the following process:

- For each issue, the National Coordination Point will approach a facilitator.
- In consultation with the facilitator, and on the basis of the Quicksan, the following will be defined:
  - Dot on the horizon
  - Plan (every six months)
  - Deployment/development of knowledge and expertise (composition of team)
  - Priorities within the issue: baseline, status, issues, gap analysis
  - Desired outcome
  - Dissemination and implementation of outcome
  - Evaluation/updating
- The activities will be divided into four phases: preparation phase, implementation phase, delivery phase, evaluation phase. The Roadmap is a first attempt at a time frame, taking into account the available resources.

### Work method

The National Coordination Point will facilitate the activities for each issue, focussing on results, will be responsible for communications, will monitor progress and will disseminate the results, working closely with the facilitator. If necessary, the topics can be explored further in intensive one or two day team sessions.

Wherever possible, building blocks, results and best practices from existing collaborations will be incorporated and/or highlighted. To this end, the National Coordination Point will maintain an online platform where activities, progress and results in the field of Research Data Management can be made available. This can also be used to share news and sources and to supply or find information and where a shared work environment is made available.



### Work programme

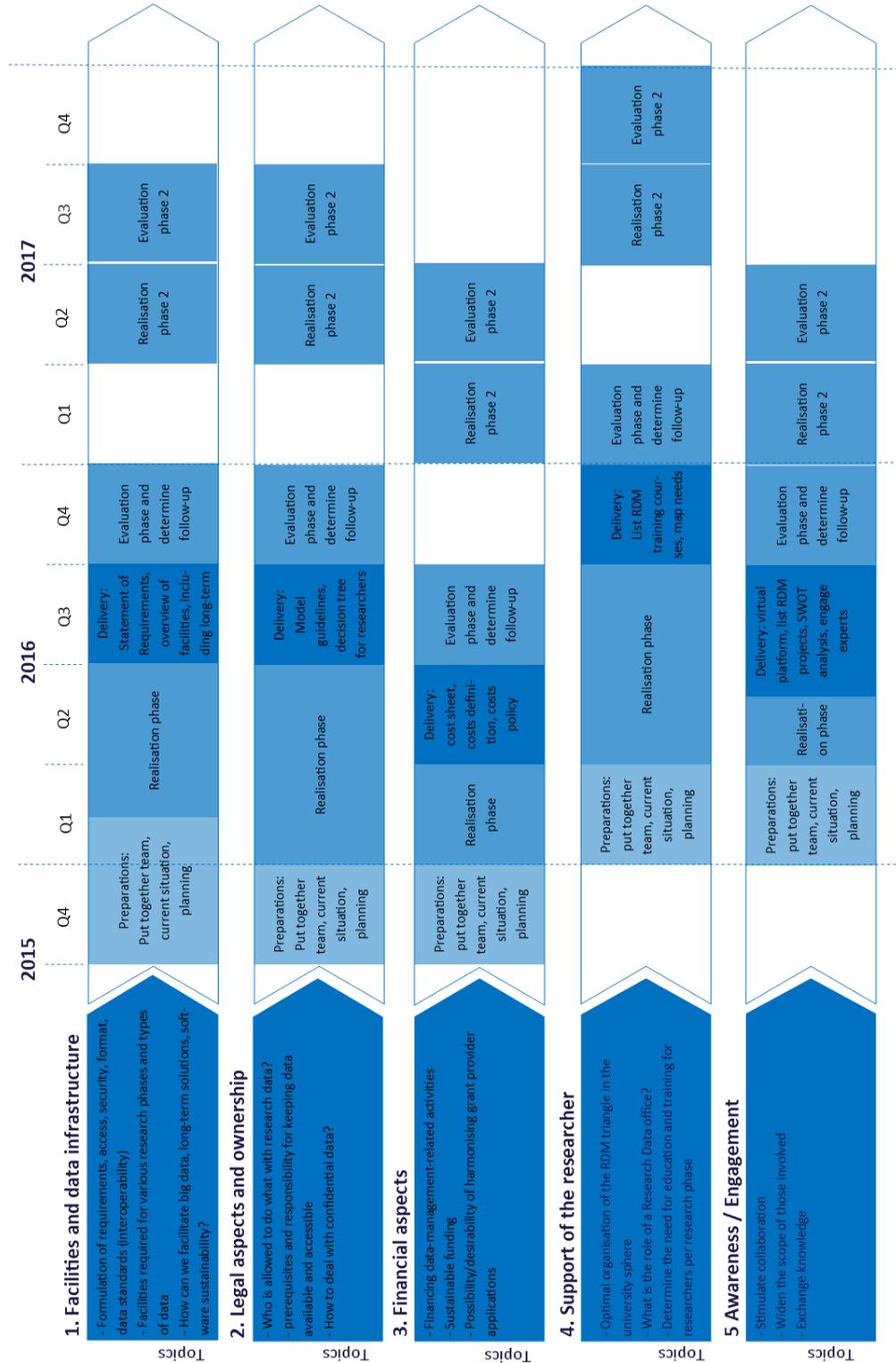
The National Coordination Point will prepare a work programme, which defines the problems, approach, specialists involved, facilitator and time frame for each issue. It was clear from the interviews that there is currently a strong focus university-wide on developing tools and procedures to support researchers and the data infrastructure. There is a clear requirement for clarity, practical guidance and a workable policy for the legal and financial aspects of Research Data Management. National coordination is crucially important here.

In line with the feedback and recommendations of the SRV, the issue of facilities and data infrastructure will be tackled as a priority. As will the issues of legal aspects & ownership and financial aspects, which clearly transcend the institutions themselves. The issue of raising awareness is relatively limited in scope and essentially does not require a national approach, given that it will primarily be tackled within the institutions themselves. Since collaboration and the sharing of knowledge between institutions at this level is expected to deliver added value, amongst others through the defining and of sharing best practice, this issue will remain part of the National Coordination Point. In addition, a change is currently under way in terms of the incentives for the evaluation model for research and research output. Raising awareness of this is important for the entire Research Lifecycle, and in relation to Research Data Management in particular.

Interoperability, international coordination and open science are key to the tackling of all the issues and will act as a benchmark for the results to be achieved. Unless attention is paid to interoperability, coordination and collaboration are impossible and Research Data Management can never be tackled at a national level. Although the approach and focus of the issues is first and foremost a national one, the international context will clearly be taken into account. International coordination and standardisation are essential for the development of national standards, guidelines and best practice. Interoperability is also a topic which is included in the VSNU's Governance and Accountability project for research information. Any overlap will be monitored by SURF and the VSNU office.

In the short term, the National Coordination Point will undertake two reviews: the status of Research Data Management projects in the universities and an up-to-date overview of Research Data Management training in the Netherlands. The milestone plan in Section 2.3 gives an initial overview of how the relevant issues will be tackled.

### 2.3 Milestone plan



### 3. In conclusion

Research Data Management is a development that is giving rise to far-reaching changes in the way people approach and conduct research. It is a broad and multifaceted issue which is highly topical and which represents a major challenge for the world of research.

Many developments are already taking place in the research universities, UMCs, research institutions and research communities and universities of applied sciences. One organisation may be good at the legal aspects, while another may be leading the way in providing support for researchers. Sharing knowledge and solutions, coordinating efforts and learning from each other helps all those involved.

The National Coordination Point for Research Data Management will help those working in the field to deal with the challenges they face. It acts as a facilitator: it collects and disseminates knowledge and information, brings the right people together, facilitates initiatives in the field, coordinates successful approaches, initiates policy-making and makes expertise, solutions, best practice and standards around relevant topics and trends available.

The success of the National Coordination Point requires optimum coordination with the Steering Committee on Research and Valorisation as the administrative contact within the VSNU for positioning and advice in the field of scientific and valorisation policy.<sup>9</sup> The National Coordination Point will provide the Steering Committee on Research and Valorisation with a regular progress report based on a Research Data Management monitor (to be developed) and will update related sectors on a regular basis.

Together with the Dutch research universities, the National Coordination Point for Research Data Management aims to achieve the following shared goal: Research Data Management will be a self-evident part of the way of people approach and conduct research and teaching at Dutch universities and research institutions, based on synergy, links and the embedding of RDM policy (at administrative level). The ultimate goal being to perpetuate research in the Netherlands which is excellent, applicable, sustainable and ethical.

## 4. Appendix

### 4.1 List of people interviewed

The following people were interviewed as part of the Quicksan process and drafting of the Roadmap. The interviews took place between July and November 2015.

Name	Organisation	Place and date of interview
Annette Zijderveld	Deltares	Delft, 3 November 2015
Barend Mons	DTL	Utrecht, 28 October 2015
Bela Mulder	Amolf	Amsterdam, 12 October 2015
Cokky Hilhorst	Utrecht University	Utrecht, 16 September 2015
Erik van Aert, Rosemary van Kempen	NWO	The Hague, 11 November 2015
Esther Hoorn, Christina Elsenga	University of Groningen	Groningen, 12 August 2015
Floor Frederiks, Fieke Schoots	Leiden University	Leiden, 13 August 2015
Geert Duysters	Tilburg University	Amsterdam, 20 August 2015
Hannelies Linders, Ed Simons	Radboud University	Nijmegen, 20 July 2015
Inez Joung	RIVM	Bilthoven, 4 August 2015
Jan Willem Boiten	CCMW Eindhoven	Eindhoven, 25 August 2015
Jaqueline Ringersma, Stephen Janssen	Wageningen University and Research Centre	Wageningen, 7 October 2015
Jeff Templon	NIKHEF	Amsterdam, 16 November 2015
Jeroen Rombouts	3TU.Datacentrum	Delft, 23 September 2015
Jildau Bouwman	TNO	Utrecht, 15 October 2015
Maarten van Bentum	Twente University	Enschede, 13 October 2015
Marc van den Berg	National Library (until 1 November 2015, Tilburg University)	Tilburg, 5 August 2015
Marc Kemps-Snijders, Daan Broeder	Meertens Institute	Amsterdam, 19 November 2015
Marcel Ras	NCDD (National Coalition for Digital Preservation)	The Hague, 14 September 2015
Marcel Stive, Sierd de Vries and Egbert Gramsbergen	Delft University of Technology	Delft, 6 August 2015
Margreet Bloemers	ZonMw	The Hague, 4 August 2015
Marianne van der Heijden	NIOO KNAW (Netherlands Institute of Ecology)	Wageningen, 11 August 2015
Mariëtte van Selm	University of Amsterdam	Amsterdam, 6 October 2015
Marjan Grootveld	DANS	The Hague, 17 August 2015
Marjan van Meerlo, Audrey Goosen	Ministry of Economic Affairs	The Hague, 9 November 2015
Marlon Domingus	Erasmus University Rotterdam	Rotterdam, 20 August 2015
Michael Schijns	Raad voor Ondernemend NL (Netherlands Enterprise Board)	The Hague, 3 November 2015
Paul Hofman, Leon Osinski and Toine Kuiper	Eindhoven University of Technology	Eindhoven, 3 September 2015
Piek Vossen	VU Amsterdam	Amsterdam, 4 September 2015
Richard Finkers	PRI / Wageningen University	Wageningen, 18 November 2015
Rik Janssen	KNAW	Amsterdam, 19 August 2015
Rob Grim	Radboud University	Nijmegen, 24 September 2015
Sarah Benschop	Delft University of Technology (until 1 July, University of Amsterdam)	Delft, 6 August 2015
Scott Lusher	Netherlands eScience Center	Amsterdam, 10 September 2015

Name	Organisation	Place and date of interview
Tamara de Bruin, Petra Jansen	NFU / HANDS (Handbook for Adequate Natural Data Stewardship)	Utrecht, 26 November 2015
Ton Smeele	Utrecht University	Utrecht, 28 October 2015

## 4.2 Literature consulted

When creating this Roadmap the following documents were consulted:

- *10 recommendations for libraries to support research data management*, Liber, <http://libereurope.eu/wp-content/uploads/The%20research%20data%20group%202012%20v7%20final.pdf>, consulted on 18 August 2015.
- *National Coordination Point for Research Data Management*, letter from VSNU to SURF, reference VSNU 14/131U, 6 May 2015.
- *Datamanagement ondersteuning en diensten voor onderzoekers – DoDo (Data management support and services for researchers - DoDo)*, catalogue produced by the University of Leiden, [https://wiki.surfnet.nl/download/attachments/50107419/DoDo\\_UKBwg\\_20150430\\_open.pdf?version=1&modificationDate=1433425136410&api=v2](https://wiki.surfnet.nl/download/attachments/50107419/DoDo_UKBwg_20150430_open.pdf?version=1&modificationDate=1433425136410&api=v2), consulted on 14 August 2015.
- *Finding the Law for Sharing Data in Academia*, Hoorn, E. (University of Groningen) and Domingus, M. (Erasmus University Rotterdam), [http://www.researchgate.net/publication/279175339\\_Finding\\_the\\_Law\\_for\\_Sharing\\_Data\\_in\\_Academia](http://www.researchgate.net/publication/279175339_Finding_the_Law_for_Sharing_Data_in_Academia), consulted on 25 August 2015.
- *The LERU Roadmap for Research Data*, [http://www.leru.org/files/publications/AP14\\_LERU\\_Roadmap\\_for\\_Research\\_data\\_final.pdf](http://www.leru.org/files/publications/AP14_LERU_Roadmap_for_Research_data_final.pdf), consulted on 12 August 2015.
- *Landelijke bijeenkomst datamanagement (National meeting on data management)*, Netherlands Organisation for Scientific Research (NWO), 10 September 2014, <https://www.surf.nl/agenda/2014/09/landelijke-bijeenkomst-datamanagement/landelijke-bijeenkomst-datamanagement.html>, consulted 31 August 2015.
- *Programme: Sustainable Data*, Controlling Document, SURFsara, version 1.1, 13 November 2014.
- *Regieorgaan RDM (RDM control body)*, letter from Radboud University Nijmegen to the General Board of the VSNU, Nijmegen, reference 14U.008674, 9 July 2014.
- *Science as an open enterprise*, Royal Society, <https://royalsociety.org/~media/policy/projects/sape/2012-06-20-saoe.pdf>, consulted on 19 August 2015.
- *Voorstel Coördinatiepunt Research Data Management (Proposal for a Coordination Point for Research Data Management)*, letter from SURF to VSNU, reference SURFDIR-2-14463, 21 May 2015.
- *Zorgvuldig en integer omgaan met wetenschappelijke onderzoeksgegevens (Responsible research data management and the prevention of scientific misconduct)*, the Royal Netherlands Academy of Arts and Sciences (KNAW), opinion of the KNAW Committee on Research Data (Schuyt Committee), September 2012.