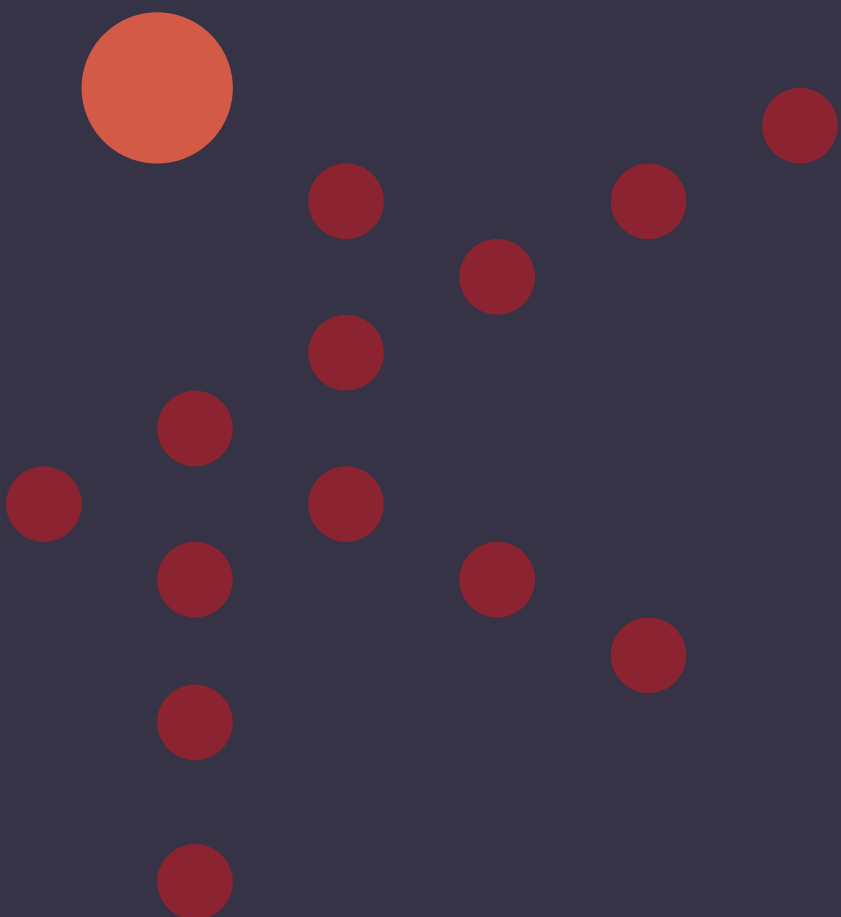


# Annual Report



NORWEGIAN CENTRE  
FOR RESEARCH DATA

## 2019



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# Annual report 2019 for the Norwegian Centre for Research Data (NSD)

The year 2019 was an eventful one for NSD. One key event was our receipt of the report by the working group appointed by the Ministry of Education and Research to review the centre's activities. The report painted a generally positive picture of NSD and our contribution to the research sector, while also very accurately describing the challenges and opportunities NSD will face in the years to come.

The applicable strategy period concluded in 2019, and the process of devising a new strategy has commenced. The working group's reflections, input and recommendations, and the consultation responses to the report, provide valuable insight into how our users and partners perceive our services, and to what extent they meet the sector's needs. We will incorporate these insights into our strategy work, together with the new national and international strategies that NSD must address.

We are eagerly awaiting to see what the Ministry intends to do after the review, particularly with respect to the organisational location of the Database for Statistics on Higher Education (DBH). At the same time, let there be no doubt that NSD – and DBH – are continuing to focus on the mission we have been assigned by the Ministry of Education and Research: To be an organisation that archives, organises and disseminates data to research communities and the higher education sector. Our goal is to provide the best possible data management services to higher education and research institutions.

Several events in 2019 illustrate that we fulfil this mission. Together with Statistics Norway (SSB), we won the Norwegian Data Protection Authority's award for privacy by design in practice, and, in cooperation with Norwegian Social Research (NOVA) researchers at OsloMet, we put the final pieces into place in a research portal that gives more researchers access to valuable life course data. We published a new round of European Social Survey (ESS) data, organised school elections and collected a new round of data for the school election survey. New services were also finalised in the NORDi project.

In June, as the coordinator in a consortium consisting of the Norwegian University of Science and Technology (NTNU), the University of Bergen (UiB), the University of Oslo (UiO), the Arctic University of Norway (UiT), the Norwegian Directorate for ICT and Joint Services in Higher Education

and Research (Unit) and Uninett/Sigma, NSD was awarded status as the Norwegian node in the Research Data Alliance (RDA), an international open research network. In the data protection context, we have experienced a huge increase in the number of research projects being registered. The introduction of new systems and procedures have paid off, and the average case processing time has been significantly reduced. At DBH, 2019 has been marked by work on and the further development of the API service, and the development of new web solutions and funding data services. NSD's services linked to higher education and research registers are used extensively, with almost 550,000 work sessions on DBH's website and the publication services in 2019.

There have also been many developments within the organisation. We established a set of values for NSD, which state that we shall be collaborative, knowledgeable and innovative, and we revised our ethical guidelines. A working environment survey was also conducted, and we established new procedures for conflict management and whistleblowing.

All of these internal and external activities take place in a national and international landscape characterised by a high pace of change. Digitalisation and technological developments are the most important drivers of change, and represent both challenges and opportunities for NSD. The political objectives that form the basis for research and research infrastructure are also important drivers of change. At the same time, our expectations of the services we provide also change, which requires us to be alert and attentive to users' needs.

NSD has many points of contact with our users, and our website is one of the main ones. NSD was among the first to develop a website, and it has expanded over time without an adequate level of coordination. The work on a new website is now a priority, and there are clear synergies to be achieved in the work on the new strategy: What is the core of NSD's activity? Why are we here, and how do we create value for our users? The strategy shall establish a clear course for the years to come, and our communication, including the website, shall help define a clear profile for NSD.

VIGDIS KVALHEIM  
*Director*

## THE MINISTRY'S REVIEW

The working group appointed by the Ministry to review NSD's activities has, broadly speaking, recommended changes or adjustments to three areas of NSD's activities.

- It recommends that NSD continues to be organised as a state-owned limited company, and that its ownership is transferred from the Ministry to Unit.
- It recommends hiving off DBH and the publication channel register from NSD and transferring them to Unit.
- It recommends that NSD maintains its range of services, but to hone its profile more towards the social sciences.

The report was distributed to NSD and eight key partners for consultation in July: the Norwegian Data Protection Authority, the Norwegian Agency for International Cooperation and Quality Enhancement in Higher Education (Diku), the Ministry of Health and Care Services, the Norwegian Agency for Quality Assurance in Education (NOKUT), Statistics Norway, Unit and Universities Norway (UHR). The consultative statements naturally vary depending on the sender's point of view, and, but for a few exceptions, there is general consensus that:

- Public administration should be made a separate business area, and the research profile should be clearer.
- NSD must continue focusing on register data and on collaboration with Statistics Norway (microdata.no).
- Its profile must not limit NSD's scope to social sciences only.
- NSD must preserve and strengthen its IT and developer competence.

# Data protection

After DBH, NSD's data protection services are those with the greatest scope and in most demand. NSD delivers data protection services to around 130 research and educational institutions, including all of Norway's universities, most university colleges, a number of health trusts and a range of research institutes and centres of expertise. The main objective of NSD's data protection services is to ensure that the research sector gains legal access to the personal data it requires.

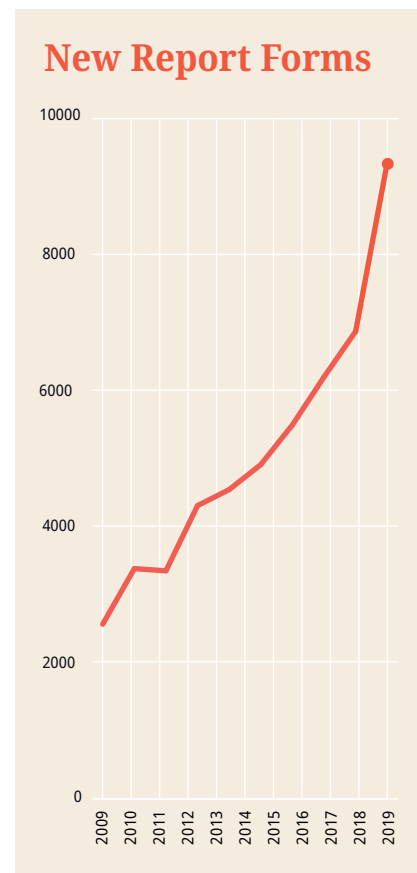
The increase in the number of research projects notifying NSD that they are going to process personal data is growing steadily following the introduction of the new data protection legislation (GDPR) in July 2018. There was a 36% increase in the number of notification forms from 2018 (6,867) to 2019 (9,355). 2018 was marked by a significant increase in the number of submitted notification forms and the introduction of new systems and procedures at NSD, leading to a backlog and long assessment times. In 2019, however, we have managed to drastically reduce both the queue and our assessment times. During the spring months, the average time spent waiting in queue was reduced from 12 weeks to approx. 3–4 weeks, as a result of higher staffing and the efficiency of new systems and procedures.

In 2019, NSD offered to renew all existing customers' data protection service agreements. Most of them signed a new agreement in 2019, while some are still in the process of doing so. We have also entered into agreements with a number of new customers in the research and health sectors, and with other organisations that conduct research.

NSD also offers some research institutes an opportunity to enter into an agreement for NSD to serve as the data protection officer for the whole organisation. As of January 2020, NSD has such data protection officer agreements with the Chr. Michelsen Institute (CMI), the European Social Survey (ESS), the Institute for Social Research (ISF), the Norwegian Centre for Violence and Traumatic Stress Studies (NKVTS), NORCE Norwegian Research Centre and the Norwegian Center for Child Behavioral Development (NUBU).

NSD participates in several national and European projects that address how GDPR and other relevant legislation affects research access to data, and national and international research and research collaborations. We have also placed emphasis on raising the competence of our advisers through in-house training, data protection officer courses and project manager courses.

With respect to system development, we launched a new Notification Archive in early 2019 that contains records of the institutions' processing activities, and expanded the functionality of the Notification Archive (autumn 2019). The Notification Archive is a management and control tool that enables institutions to carry out internal control to ensure that the projects are conducted in accordance with the data protection regulations and the institutions' internal guidelines. In August 2019, it became possible for persons responsible for project notification to access/share the project (notification form) with whoever they wished.



# Training, courses and guidance

General training and courses in data protection and data management are in great demand.

NSD is obliged, in connection with the new data protection service agreements with the institutions, to hold courses on the use of the Notification Archive as a tool for the institutions' work on quality and internal control of research. Five such courses were held in autumn 2019, for a total of 100 participants from 60 different institutions.

NSD's data protection advisers also engage in extensive course and training activities, visiting different research institutions in Norway and holding courses for researchers and students. These courses are often on the topics of data protection, data management and archiving in a research context. We held 24 courses and 35 lectures/seminar talks on these topics for research sector institutions in 2019.

We also receive requests for advice in connection with data protection and internal control, data management in large research projects, and advice, for example in connection with the establishment of health registries.

NSD held eight advisory meetings with institutions in 2019.

## **OVERARCHING TOPICS RELATING TO DATA MANAGEMENT:**

Archiving and sharing of data: where, why and how

Data management process

Data management plan

Data management plan requirements from institutions and external parties

## **OVERARCHING TOPICS LINKED TO DATA PROTECTION:**

What is personal data?

What are special categories of personal data?

Information security

Internal control

Division of roles in data protection work at the institutions

GDPR and the consequences for students and researchers

# The NORDi project

The Norwegian Open Research Data Infrastructure (NORDi) project was established in 2015 when NSD received funding from the Research Council of Norway to renew and improve our solutions for managing, archiving and making research data available. The objective of the project is to be able to offer the research sector

- a user-friendly, cost-effective and secure system for archiving and sharing data.
- training in expedient, safe data management, and develop competence and capacity in the research communities.

Since the project application was written in 2015, new concepts, terminology, parties, services, technologies, interest groups, administrative bodies and guidelines have emerged. This meant that the project had to be re-structured and rescoped. Following a period of restructuring, phase 2 of the NORDi project was initiated in 2019. This work is based on new key guidelines, such as the EU report on the FAIR principles for research data, and the Ministry of Education and Research's strategy for sharing and making research data available.

## **DELIVERIES IN THE PROJECT INCLUDE:**

- Launch of a Data Policy Manager – a tool that enables the institutions, in line with EU recommendations, to develop machine-readable internal guidelines for managing research data.
- Development of NSD's data management tool (DMP) to integrate it with the institution's policy, as described in the Data Policy Manager. The plan helps researchers to consider the necessary aspects of research data management, and provides guidance at the different steps.
- Establishment of a system where the institutions gain a comprehensive and continuous overview of the management of research data at their institution: Types of data, where data are during the 'hot' project phase, where data are archived, data citations, registered data management plans, notification forms etc.
- Simplified process of archiving research data, and searching in and accessing existing data.

Some of the services will be free of charge, while payment models will be developed for other services, such as the Data Policy Manager and the DMP overview for institutions.

DMP 2.0 was launched in 2019. NSD's new data management plan is interactive and can be shared with other project participants. It can thus be used as a joint tool in the planning of data collection and use. The choices that have to be made are based on the information the researchers enter about the data.

The DMP tool is updated with links to guidelines on data management in different fields. The guide selects those relevant for the project based on the information entered by the researchers. The tool has been developed to enable it to be used by all researchers, at all levels and in all fields. DMP 2.0 is also available in English. In 2019, 1,769 data management plans were created using NSD's data management tool.

# New data and organisation of data collections

## The ISSP survey on religion

The International Social Survey Programme (ISSP) conducts annual social surveys to map people's values and attitudes. More than one million respondents from 45 countries have participated in the surveys since they started in 1984.

NSD became a member of ISSP in 1989, and has been responsible for conducting the survey in Norway ever since. The objective of participation is to give researchers an opportunity to study Norway from a global perspective. Norwegian data are available free of charge from NSD's website at [nsd.no/ndsdata](http://nsd.no/ndsdata), while the international data files are distributed by GESIS in Germany.

The topic of the ISSP surveys varies, but topics are normally repeated at intervals of 10 years. Data from the Norwegian part of the 2018 ISSP survey was published in 2019. The topic of the survey was religion, as in 1991, 1998 and 2008. This provides useful data for studying changes in people's attitudes to religion over the course of three decades. In 2019, 9,862 ISSP data sets were downloaded, of which 134 downloads were by Norwegian users.

Social inequality is the topic of the 2019 ISSP survey. International data are scheduled to be published in winter 2021.

### OVERVIEW OF ISSP SURVEY TOPICS:

Role of Government: 1985, 1990, 1996, 2006, 2016

Social Networks: 1986, 2001, 2017

Social Inequality: 1987, 1992, 1999, 2009, 2019

Family and Changing Gender Roles: 1988, 1994, 2002, 2012, 2022

Work Orientations: 1989, 1997, 2005, 2015

Religion: 1991, 1998, 2008, 2018

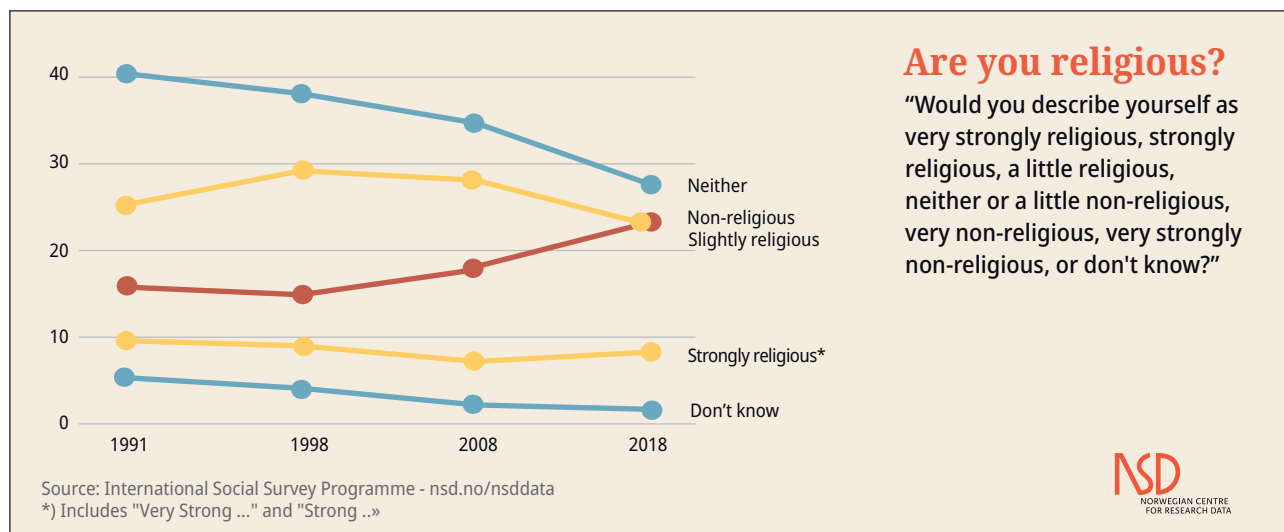
Environment: 1993, 2000, 2010, 2020

National Identity: 1995, 2003, 2013

Citizenship: 2004, 2014

Leisure Time and Sports: 2007

Health and Health Care: 2011, 2021



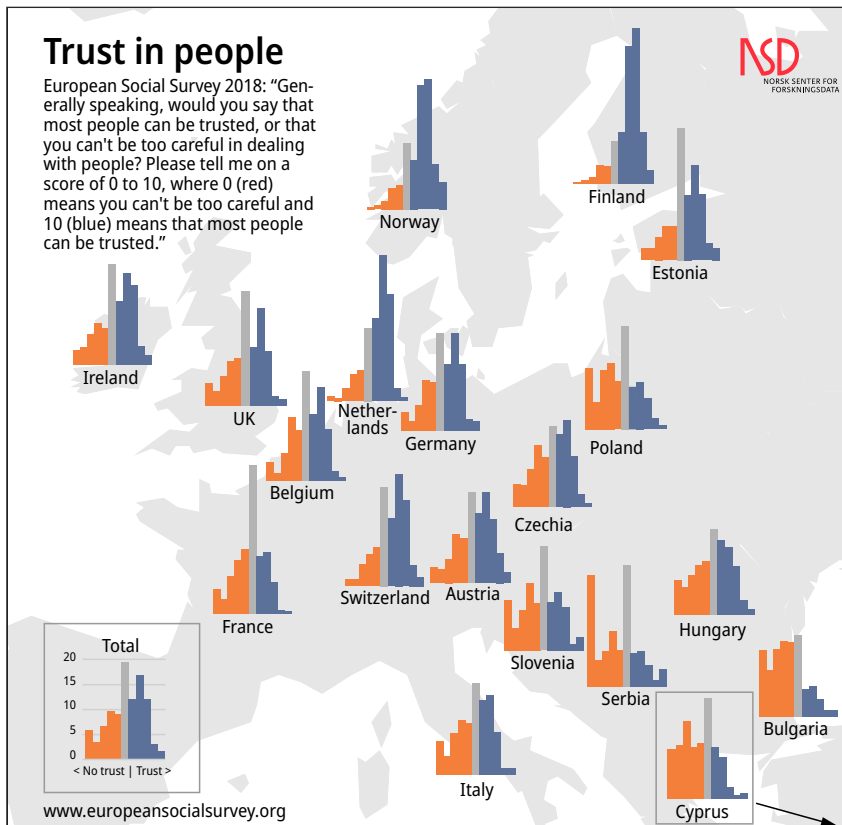


## New data from the European Social Survey (ESS)

ESS is a large European, social survey that maps Europeans' attitudes and values every second year. NSD is the data archive for the survey, which started in 2002. Data from the ninth round, which was conducted in 2018, were published in October 2019 and can be analysed or downloaded from [www.europeansocialsurvey.org](http://www.europeansocialsurvey.org).

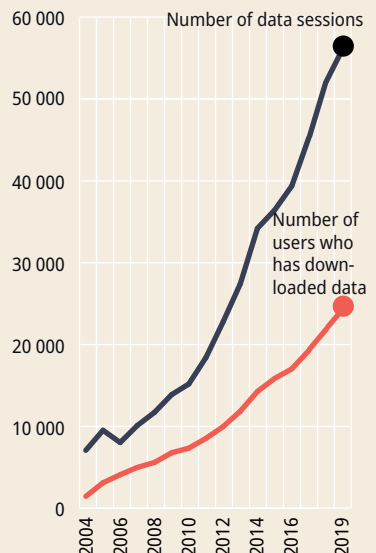
In addition to the core module that remains largely unchanged, each survey contains two thematic modules that are normally repeated at intervals of a few years. The topics of the current survey are 'Justice and Fairness in Europe' and 'Timing of life'. Data from 19 of the 31 countries that participated were published in October 2019. Data for the other countries will be published in May.

At the end of 2019, ESS had almost 151,000 registered users. The majority of users are academics and students, particularly in social sciences, while the media, authorities, business and industry etc. also use the data. More than 3,900 scientific publications have been published to date that are substantially based on ESS data.

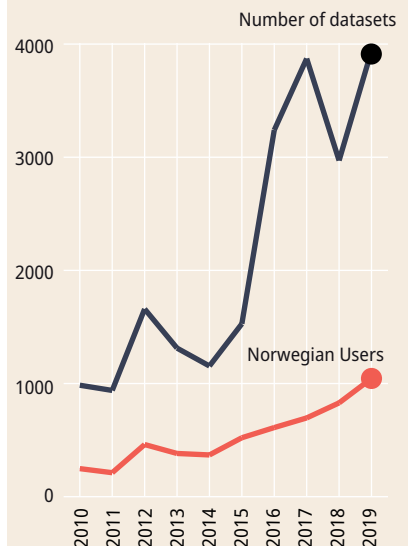


## European Social Survey 151 000 Registered Users

### Use of data from ESS



### Norwegian Users



## NorLAG

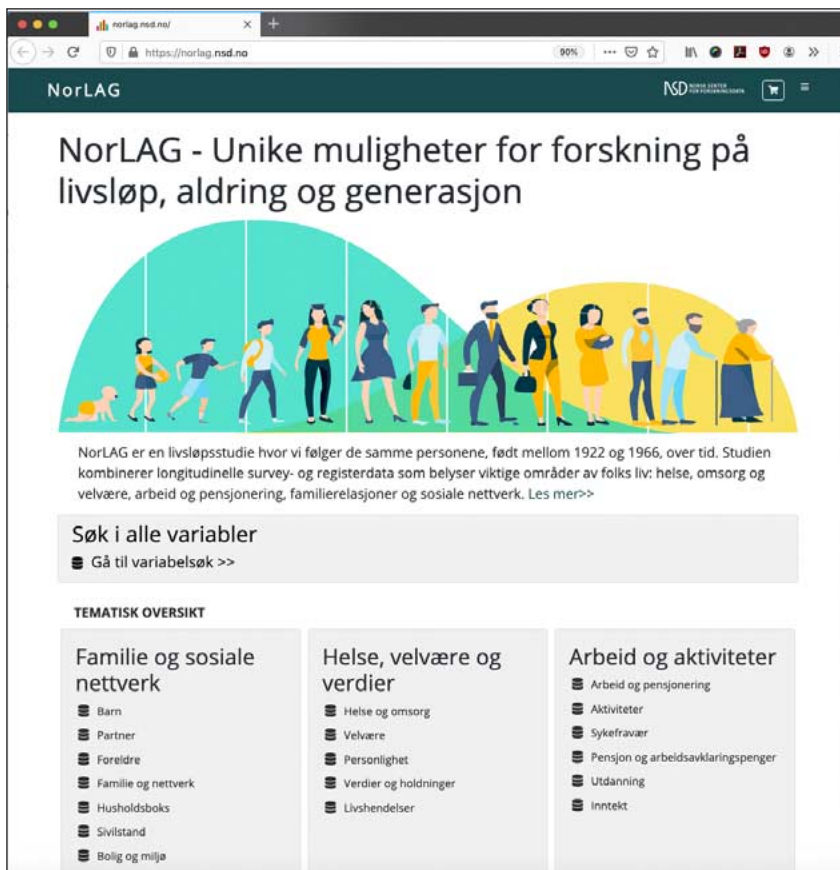
### ACCESS LIFE COURSE DATABASE – ACCESS TO NORLAG DATA

Life course studies are an important area of research for the social sciences and health-related fields. Studies that follow the same people over a long period of time have been few and far between in the Norwegian research context. The infrastructure project ACCESS Upgrade gives researchers and students access to up-to-date longitudinal life course data for more than 6,000 men and women in Norway.

The data that form the basis for the infrastructure come from the Norwegian Life Course, Ageing and Generation Study (NorLAG). The study combines survey and register data that highlight important areas of people's lives: health and health behaviour, work and retirement, family relationships, leisure time, care and life quality. The data provide unique opportunities for following individuals through different phases of life, for analysing changes in different roles over the course of their lives and the significance of life events over time.

The project is funded by the Research Council of Norway. NOVA at OsloMet is in charge of the project while NSD has the role of partner and has developed the portal that provides access to the data. The long-term development work has been beneficial, both in professional and technological terms, to the project, through projects such as RAIRD/microdata.no and NORDi. The work has provided a good foundation for tailoring solutions for making complex data collections available.

The new portal was launched during a seminar at OsloMet on 27 January 2020. On conclusion of ACCESS Upgrade, three rounds of survey data (2002, 2007, 2017) and register data for 20 years (2002–2022) will be available for research purposes.



The screenshot shows the NorLAG website interface. At the top, there is a navigation bar with the NorLAG logo and the NSD logo. The main heading reads "NorLAG - Unike muligheter for forskning på livsløp, aldring og generasjon". Below the heading is a colorful illustration of a life course, showing a person from childhood to old age. Under the illustration, there is a short description of the study: "NorLAG er en livsløpsstudie hvor vi følger de samme personene, født mellom 1922 og 1966, over tid. Studien kombinerer longitudinelle survey- og registerdata som belyser viktige områder av folks liv: helse, omsorg og velvære, arbeid og pensjonering, familierelasjoner og sosiale nettverk. Les mer >>". Below this is a search bar with the text "Søk i alle variabler" and a link "Gå til variabelsøk >>". At the bottom, there is a section titled "TEMATISK OVERSIKT" with three columns of thematic areas: "Familie og sosiale nettverk", "Helse, velvære og verdier", and "Arbeid og aktiviteter". Each column contains a list of sub-topics.

NorLAG - Unike muligheter for forskning på livsløp, aldring og generasjon

NorLAG er en livsløpsstudie hvor vi følger de samme personene, født mellom 1922 og 1966, over tid. Studien kombinerer longitudinelle survey- og registerdata som belyser viktige områder av folks liv: helse, omsorg og velvære, arbeid og pensjonering, familierelasjoner og sosiale nettverk. Les mer >>

Søk i alle variabler  
Gå til variabelsøk >>

TEMATISK OVERSIKT

**Familie og sosiale nettverk**

- Barn
- Partner
- Førelidre
- Familie og nettverk
- Husholdsboks
- Sivilstand
- Bolig og miljø

**Helse, velvære og verdier**

- Helse og omsorg
- Velvære
- Personlighet
- Verdier og holdninger
- Livshendelser

**Arbeid og aktiviteter**

- Arbeid og pensjonering
- Aktiviteter
- Sykefravær
- Pensjon og arbeidsavklaringspenger
- Utdanning
- Inntekt

## Archiving of data from research projects

NSD is responsible for archiving data from projects funded by the Research Council of Norway in the social sciences, the humanities and some areas of medicine and health, environment and development research.

The data archived by NSD gain added value from a rigorous and continuous curation process. When NSD receives new data, either as part of an extensive existing data collection or as a data set from an individual researcher, the data material is subject to various checks both with respect to its technical status and whether it contains personal data. We also ensure that the data material is documented in a manner that enables the researchers who are going to use the data to get the information they need. NSD uses well-known metadata standards, such as DDI and Dublin Core.

The NSD data collection comprised 3,250 data sets at the end of 2019. The year 2019 saw the inclusion of 144 new data sets, mainly from research projects.

## Statistics on higher education and research

Improving the knowledge base for higher education and research activity is primarily reliant on access to data. In practice, this means that organising data to be used by public administration and research, i.e. making the data available, is the main objective of these registers. There is a high level of activity in NSD's services linked to the registers for higher education and research, where the number of work sessions for DBH's web and publication services are almost 550,000 per year.

**550 000**  
user sessions

### Database for Statistics on Higher Education (DBH)

DBH is a national source of information on higher education in Norway. In 2019, it covered 51 universities and university colleges, 72 tertiary vocational colleges and 14 student associations. The administrative institutions under the Ministry of Education and Research also report financial data to the database. In 2019, specially adapted statistics and web services have been developed for NOKUT, DIKU and the Ministry of Education and Research, among others. In line with the Government's digitalisation strategy, NSD also sees the need to automate data flow between institutions and databases linked to DBH. The year 2019 has been marked by work in connection with the further development of DBH's API service, where more funding and publication data sets have been added. New web solutions and funding data services have also been developed. The modernisation of Dimp, i.e. the data receipt system for DBH, has been completed for reporting funding and higher vocational education data and will accept higher education student data from March 2020. The plan is also to incorporate DBH data as a data set in microdata.no for research purposes. Work is currently under way on developing tools to make DBH data and metadata more available and to organise the data for different user groups.

## Scientific publication registers and web services

During 2019, information about Open Access publication has been added to the scientific publication registers managed by NSD. This follows the goals of Plan S, and the registers show information about publications in the Directory of Open Access Journals (DOAJ) and Sherpa Romeo.

**THE NORWEGIAN REGISTER FOR SCIENTIFIC JOURNALS, SERIES AND PUBLISHERS** contain almost 38,000 research journals, book series and publishers, of which 29,000 publication channels have a scientific level of significance for Norwegian research. Information in the register is also available via DBH's API solution. The percentage of publication channels that are compatible with Plan S was up at around 40% at the turn of the year, irrespective of the level and the number of publications that Unit has entered into agreements with. The goal is the highest possible percentage of publications by researchers in what are known as open access journals. We will continue to incorporate information about Open Access agreements other scientific information for the researchers.

**NATIONAL PUBLICATION INDICATOR (NPI)** is a web service developed for work on level 2 publication channels in Norway that is used by academic committees. In addition to managing the service, we have also worked on information import in 2019, both from bibliometric sources and also from researchers who can support the quality of scientific publication at this level presented via NPI.

**THE NORDIC REGISTER OF PUBLICATION CHANNELS** was developed to enable case officers to exchange information about publication channels via a joint Nordic list in a cloud solution. It is also possible for the Nordic countries that have not established such a register to use the list. The goal of the register is to increase information about the quality of the publication channels in the Nordic countries.

**ERIH PLUS BY DIMENSIONS.** NSD has been responsible for the operation of the ERIH PLUS register (European Reference Index for the Humanities plus Social Sciences) since 2014. The service locates research published in European languages and contains more than 14,500 journals in the humanities and social sciences of significance to European research.

A partnership was established with the international technology company Digital Science in January 2019 to expand the search functionality. The new functionality means that searches also return hits for articles. More than 7.8 million articles are indexed by ERIH PLUS. It also provides an overview of the number of citations, the amount of research funding granted and clinical studies.

'This partnership will strengthen ERIH PLUS's role as an important source of research documentation both in Europe and beyond, while it also augments the services NSD can offer its users,' said Knut Kalgraff Skjåk, Director of the Department for Statistics and Data Services at NSD, at the launch of the new functionality.



**38 000**  
research journals, book  
series and publishers

## **NSD joins the DOAJ Advisory Board**

The Directory of Open Access Journals (DOAJ) is an independent online register that indexes peer-reviewed open access journals. DOAJ implemented a new management model in 2019. In connection with this work, the member organisations were tasked with electing the new DOAJ Advisory Board. Rolf Halse, Special Adviser at NSD, was among the nine representatives elected by the members.

Since the register was established in 2003, DOAJ has grown both in scope and significance. DOAJ is defined as a key player in the work on the transition to Plan S – the initiative for open access to all publicly funded research.

‘DOAJ is an important element in securing an expedient transition to open access research, where quality assurance is safeguarded through peer reviews and editorial publication procedures. It will be interesting to be able to influence something that is important to research and that is also still finding its feet,’ said Halse when the result was announced.

# School elections: 30 years of democracy studies and data collection

In 2019, the 17th school election was held since their inception in 1989. A total of 151,000 pupils from 378 upper secondary schools took part in the 2019 election, and more than 1.9 million pupils have voted since the elections started 30 years ago.

In addition to the ballot itself, a questionnaire survey is conducted on Norwegian adolescents' attitudes to and knowledge of politics and society. Adolescents can be compared with the population as a whole, since a parallel survey is conducted at the same time among the population at large.

The school elections and questionnaire surveys thus provide a unique body of data for studying young people's attitudes and knowledge over the course of three decades.

Both the election results and data from the questionnaire surveys are freely available at [nsd.no/skolevalg](https://nsd.no/skolevalg).

## New teaching resources for the curriculum renewal

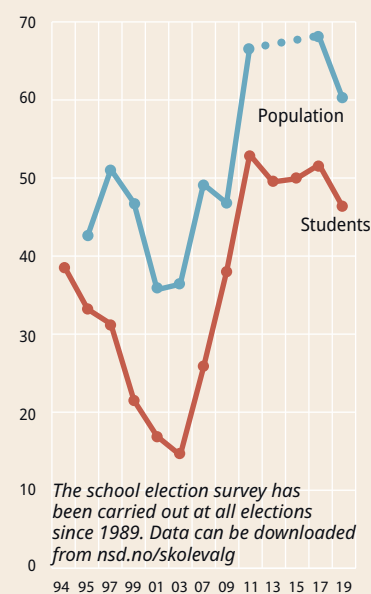
NSD has a long-standing tradition of developing teaching concepts for upper secondary schools, based on data from the school elections and other NSD data collections. In 2019, NSD developed several new teaching resources that reflect the interdisciplinary topics in the curriculum renewal – Fagfornyelsen.

The concepts were developed on assignment for the Norwegian Directorate for Education and Training to enable teachers and pupils to gradually prepare to start using the new curriculum already in autumn 2019.

The screenshot shows the NSD website interface. The header includes the NSD logo and navigation links. The main content area is titled "Undervisningsressurser til Fagfornyelsen" and contains text about teaching resources. Below the text are three cards with images and titles: "Folkehelse og livsmestring", "Demokrati og medborgerskap", and "Bærekraftig utvikling".

## Trust in politicians 1994–2019

How much confidence do you have for Norwegian politicians? Percentage who answered "Very high confidence" or "Fair confidence"



The school election survey has been carried out at all elections since 1989. Data can be downloaded from [nsd.no/skolevalg](https://nsd.no/skolevalg)

Source: Skolevalgsundersøkelsene 1989-2019

NSD  
NORWEGIAN CENTRE  
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# Projects

## **NORDi**

See separate description on page 7.

## **ACCESS LIFECOURSE**

The project is led by NOVA at OsloMet and funded by the Research Council of Norway. The objective of the project is to give researchers and students access to up-to-date life course data for more than 6,000 persons in Norway. See separate description of NorLAG on page 10.

## **Microdata.no**

Microdata.no was one of the 16 projects (among 114 applicants) to be granted funding through the Research Council of Norway's 'National research infrastructure initiative'

The project, with the working title 'microdata.no 2.0', was awarded NOK 42 million and is scheduled to run over four years. Microdata.no will receive funding for other data sources, and the scope of the data will be expanded with data from DBH and health data, among others. The Cancer Registry of Norway is also therefore a partner and pilot in the new project. Data can be linked from different sources at microdata.no without leaving the owner institution.

It will also be possible for researchers to upload their own data and link them to other data on the platform. The number of variables from Statistics Norway and NSD will be expanded from 142 to more than 1,000.

As of February 2020, microdata.no had 444 users from 37 institutions. The service contains 142 personal data variables on the population, education, employment, income and social security. As of January 2020, three peer-reviewed articles (one at level 2) and a master's thesis based on microdata.no had been published.

Use of the service will be free of charge until the end of 2020. Statistics Norway and NSD are in the process of finalising the funding model for microdata.no in collaboration with its users. The model and price list are expected to be ready in the first half-year of 2020, which will result in significantly lower costs for research that can use microdata.no.

## **EVIR**

NSD is a project partner in eVIR (e-infrastructure for Video Research), led by the University of Oslo. The goal of the project has been to develop national research infrastructure that uses video data and develops flexible and secure solutions that address data protection. The project has facilitated storage that ensures availability and access across institutions, and will conclude in winter 2020.

NSD has been responsible for long-term archiving and making the data available in the national research infrastructure, and has provided expertise on the organisation of metadata and structuring of data for reuse and data protection. eVIR is funded by the Research Council of Norway.

### **DATA PROTECTION AWARD TO MICRODATA.NO**

In March 2019, microdata.no was awarded the Norwegian Data Protection Authority's privacy by design award. In the grounds for its decision, the jury highlighted that the access that researchers obtain through microdata.no is unique in an international context, and that NSD and Statistics Norway have developed brand new technology to safeguard data protection in access to these data.

## **SSHOC**

### **– Social Sciences and Humanities Open Cloud**

The SSHOC project will link new and existing infrastructure for the social sciences and the humanities in a joint cloud solution. The project is part of a bigger plan to establish a European Open Science Cloud – EOSC.

As one of 45 organisations with expertise in different parts of the research process, NSD shall mainly contribute by:

- Developing a storage service on the SSHOC platform that can be used by research institutions and data archives that do not have the funding to develop complete, integrated solutions like NSD and other national research infrastructures. NSD provides programming expertise.
- Using data from the European Social Survey in a pilot to demonstrate how data and metadata from an international repeated survey can be facilitated for the open cloud service, and meet the FAIR principles for research data (Findable, Accessible, Interoperable, Reusable).
- Preparing a common standard for practising data protection legislation, a European GDPR Code of Conduct for social sciences and the humanities.
- Developing new training tools for data management and data protection.

The key words for SSHOC are availability and reuse. The open and cloud-based infrastructure shall make data material, tools and e-learning readily available to students and researchers. The project is scheduled to start in February 2019 and finish in April 2022.

## **SERISS**

### **– Synergies for Europe's Research Infrastructures in the Social Sciences**

SERISS was a four-year European research project that aimed to break down legal, technical and methodological barriers to exchanging research data and to develop new forms of data collection in social research. The project was part of the EU Horizon 2020 programme, and was concluded in June 2019.

NSD has previously completed two tools for developing and managing metadata in questionnaire surveys under this project. In 2019, NSD submitted a report on guidelines for using data from social media in research, and another report on a legal and ethical framework in connection with the use of data from social media.

## **CESSDA Metadata Office**

CESSDA Metadata Office is funded by the Consortium of European Social Science Data Archives (CESSDA) and has developed a joint model for documenting metadata for research in the social sciences. The goal is for all European social science research data archives to use this model. The project concluded in December 2019. NSD has contributed to the project by developing a user guide for the metadata model. NSD has also been involved in the part of the project that has worked on updating the European Language Social Science Thesaurus (ELSST), which is a multilingual thesaurus



# National collaborations

## **Statistics Norway**

Statistics Norway and NSD have conducted a formal collaboration since 1975 on the organisation and distribution of data from Statistics Norway to Norwegian research communities. This has significantly improved working conditions for Norwegian researchers compared with their colleagues abroad.

NSD and Statistics Norway have collaborated on developing the service microdata.no, which provides quick and easy access to register data. In 2019, microdata.no received funding from the Research Council of Norway to further develop the service with more data and functionality. See separate description of microdata 2.0 on page 15.

## **The National Archives**

The Norwegian National Archives and NSD have cooperated informally for many years, and in 2014, the collaboration was formalised in the form of an agreement that sees NSD archive publicly funded research data on behalf of the National Archives, and facilitates access and reuse.

## **The Research Council of Norway**

The Research Council has played an important role since the beginning in terms of the scope and quality of NSD's services thanks to its basic funding and project allocations. NSD is responsible for archiving data from projects funded by the Research Council in social sciences, the humanities and some areas of medicine and health, and environmental and development research.

## **The Ministry of Education and Research**

The Ministry awards grants to NSD's Database for Statistics on Higher Education (DBH), which supplies services and basic data to the Ministry and higher education institutions.

## **Universities Norway (UHR)**

UHR and NSD collaborate on developing and operating the register of publication channels and the National Publication Indicator (NPI). In 2018, UHR and NSD devised a template agreement for data protection services in research along with the Association of Norwegian Research Institutes (FFA). UHR and NSD have also collaborated on alternative funding models for data protection services.

# International collaborations

## **RDA – Research Data Alliance**

On behalf of a consortium comprising NTNU, the University of Bergen, the University of Oslo, the Arctic University of Norway, Unit and Uninett/Sigma 2, NSD submitted an application at the end of April 2019 to RDA Europe for seed funding for the establishment of a Norwegian node. RDA is an open, international network for sharing research data and open access research across technology, disciplines and countries.

News that the Norwegian application had been granted came in early June.

‘The establishment of a national node provides an arena where key national parties can strengthen their collaboration in the area, while also enabling us to keep up with international developments,’ said Katrine Utaaker Segadal, Head of the Research Data Section and coordinator of the work on the application.

The RDA network comprises almost 10,000 individual members from 137 countries. The target group for the network is everyone who works on or is interested in access to and reuse of research data. The objective is to devise standards and recommendations that have been developed and instigated by the users themselves.

The Norwegian RDA node will contribute to spreading knowledge about managing and sharing data. The work on establishing nodes is initially under way in Europe, although the initiative and network are global. Both Finland and Denmark have node status, and Sweden’s application was also granted in 2019. The work also thus entails a reinforcement of the Nordic collaboration on managing and sharing research data.

## **Clarin Knowledge Centre**

NSD has been awarded status as a CLARIN Knowledge Centre for Research Data. CLARIN (Common Language Resources and Technology Infrastructure) ERIC is a European research infrastructure tasked with making digital language resources available for research and education, especially in the humanities and social sciences.

As a Knowledge Centre, NSD will provide expertise in data management and data protection in the European digital language resource network. The status means that students and researchers who wish to deposit and manage language data can receive advice from NSD with respect to data protection, copyright and data management.

## **CESSDA ERIC**

CESSDA (Consortium of European Social Science Data Archives) ERIC is the joint European research infrastructure for social sciences, and is one of NSD’s most important formal international partners. NSD is the national Service Provider for CESSDA, where the Ministry of Education and Research is a Norwegian member. CESSDA offers extensive, integrated data services for the social sciences. The consortium gathers social science data archives from across Europe, with a view to promoting the results of social science research and supporting national and international research and collaboration.

## European Social Survey (ESS) ERIC

ESS ERIC is an infrastructure that has conducted a major European questionnaire survey since 2002. NSD is responsible for storing, processing and distributing ESS data and documentation, and runs the official website, which has almost 150,000 registered users. See the description on page 9

## Development of the international metadata standard – the Data Documentation Initiative (DDI)

The development of DDI is important, among other things, for the ESS part of the SSHOC project to ensure ESS data comply with the FAIR principles.

In the past year, NSD has participated in the DDI Alliance's 'Modeling, Representation and Testing Lifecycle Working Group'. The group's objective is to complete a new version of the DDI metadata standard that supports data integration across the data structures domain. The product, DDI Cross Domain Integration (DDI-CDI), will be available for public review from the end of March in the coming year. It is based on previous standard developments under DDI Moving Forward and DDI4, in which NSD also participated.

## ICPSR

### (Inter-university Consortium for Political and Social Research)

ICPSR is an international consortium of which NSD and more than 780 academic institutions and research organisations are members. The ICPSR is the world's largest data archive for the social sciences and is based at the University of Michigan.

## IFDO

### (International Federation of Data Organisations for the Social Sciences)

IDFO works to facilitate research through cooperation across countries, regions and continents. NSD is a member.

### STEIN ROKKAN BIOGRAPHY

As well as being a Nestor of social science research, Stein Rokkan played a key role in establishing NSD under its then name Norsk samfunnsvitenskapelig datatjeneste in 1971. A biography was finally published about Rokkan in March 2019, written by Arild Stubhaug.

The work on the biography was initiated and coordinated by, among others, NSD's former director Bjørn Henrichsen, who, together with Rokkan, also played a key role in moving NSD's activities to Bergen in 1975.

When the biography was launched on 21 March 2019, the University Aula in Bergen was packed with social scientists of all ages. Henrichsen told the audience about the bumpy road towards the biography becoming a reality. He praised Stubhaug for the result, and everyone who provided funding to ensure its fruition.

'Getting funding to publish this book is one of the easiest things I've ever done. No one said no, everyone was on board,' Henrichsen pointed out.

# Boards, panels and committees

## NSD's Board of Directors

### *Members of the Board:*

- **Petter Aasen (Chair)**, rector of the University of South-Eastern Norway (shareholder-elected)
- **Elin Haugsgjerd Allern**, University of Oslo (shareholder-elected)
- **Torstein Bye**, Statistics Norway (shareholder-elected)
- **Kjell Gunnar Salvanes**, Norwegian School of Economics (NHH) (shareholder-elected)
- **Eva Stensland**, UiT – the Arctic University of Norway (shareholder-elected)
- **Vidar Wangen Rolland**, NSD (employee-elected)
- **Cecillie Hopland Jentoft**, NSD (employee-elected)

The director represents NSD's administration in relation to the Board. Henrik Tøndel is secretary to the Board.

### *Deputy members:*

- **Torill Aalberg**, NTNU (shareholder-elected)
- **Marie Strand Schildmann**, (1st deputy member, employee)
- **Ove Andersen**, (2nd deputy member, employee)
- **Henriette Munthe-Kaas**, (3rd deputy member, employee)
- **Rolf Halse**, (4th deputy member, employee)

## Committees appointed by NSD

### REFERENCE GROUP FOR THE DATABASE FOR STATISTICS ON HIGHER EDUCATION

- **Tore Tungodden**, University of Bergen, Chair
- **Beth Linde**, Østfold University College, member
- **Ingrid Sogner**, University of Oslo, member
- **Ellen Rye**, University of Southeast Norway, member
- **Adeline Berntsen Landro**, Hordaland County Authority, National Council for Tertiary Vocational Education, member
- **Trond Bergene**, National Council for Tertiary Vocational Education, personal deputy for Adeline Berntsen Landro
- **Andreas Slettebak Wangen**, NTNU, member
- **Sigve Berge Hofland**, Ministry of Education and Research, observer
- **Magnus Strand Hauge**, Norwegian Agency for Quality Assurance in Education (NOKUT), observer
- **Anne Marie Rustad Holseter**, Statistics Norway, observer
- **Stig Slipersæter**, Research Council of Norway, observer
- **Vidar Røeggen**, Universities Norway, observer

### ADVISORY GROUP FOR ERIH PLUS

- **Alain Peyraube**, Director of Centre National de la Recherche Scientifique, CNRS, France
- **Gunnar Sivertsen**, Nordic Institute for Studies in Innovation, Research and Education (NIFU)
- **Nina Kancewicz-Hoffman**, consultant, European Science Foundation (ESF)
- **Stefan Hornbostel**, German Centre for Higher Education Research and Science Studies (DZHW)
- **Gabi Lombardo**, Director of the European Alliance for Social Sciences and Humanities (EASSH)

### RAIRD PROJECT BOARD

- **Vigdis Namtvedt Kvalheim**, NSD, Chair
- **Torstein Bye**, Statistics Norway
- **Elisabetta Vassenden**, Statistics Norway
- **Lars Hatlehol**, Statistics Norway
- **Knut Kalgraff Skjåk**, NSD

# Board of Directors' report

NSD – the Norwegian Centre for Research Data was established as a national organisation for research infrastructure in 1971, and has been owned by the Ministry of Education and Research since 2003. NSD's object is to provide data management and services for the research sector. In cooperation with national and international institutions, the company shall engage in development work related to its object. The company is based in Bergen.

## **ACTIVITIES, COOPERATION AND DISSEMINATION**

In 2019, NSD's activities were managed based on its national responsibility to safeguard key data and infrastructure services for Norwegian research, and ensure that NSD is an attractive workplace that is able to recruit, develop and retain relevant expertise. Its primary mandate is to provide access to data, products and services that enable research to be conducted in a proper, efficient and high-quality manner. The research sector is the target group for all of NSD's services.

In line with the Government's expectations of digitalisation of and providing access to and sharing research data, and the research sector's needs, NSD has worked on renewing and digitalising several of its services. This principally applies to services aimed at NSD's primary target groups and that provide better and more efficient service production. NSD has therefore invested a great deal in innovation and development through internal projects and cooperation with others. This has resulted in e.g. new products and services linked to data management and archiving of research data, and in grants from the Research Council of Norway to further develop [microdata.no](https://microdata.no), a joint initiative between NSD and Statistics Norway.

NSD has also developed and made tools available that make sharing data in the sector easier and more efficient. This includes APIs that enable information to be shared with digital solutions outside NSD, and RAIRD technology that provides secure access to and analyses of microdata, through [microdata.no](https://microdata.no). Together with Statistics Norway, NSD won the Norwegian Data Protection Authority's award for privacy by design in practice.

NSD provides services and is involved throughout the research process, from clarifying data protection issues, collecting research data, planning data management in projects, facilitating and securing access to research data, archiving data on project completion, developing tools and software, to providing information about publication channels and producing official statistics about the sector. A number of the data and support services provided by NSD are also used by the education sector and public administration.

In 2019, following the introduction of new data protection legislation, NSD succeeded in further developing and strengthening its role as a national centre of expertise and adviser on issues relating to data protection in research. This has included renewed agreements on data protection services with most of NSD's user institutions. Agreements have also been entered into with a certain number of research institutions for NSD to be their data protection official. New procedures and digital solutions have been developed and taken into use in 2019 that rationalise

and improve data protection services, both for the individual researchers and the institutions.

Communication with the research communities is a precondition for demonstrating, highlighting and promoting NSD's social mission and the tasks it performs on behalf of the sector. NSD notes that there is an extensive need for training. It has therefore started using new learning platforms and a chat function to rationalise and simplify contact with users, and providing data management and data protection training through courses and seminars. In 2019, NSD has expanded and further developed its training and guidance activities, invested in digital learning platforms and cooperated at a national and international level on both content and training. This includes the establishment of a new comprehensive package of training modules covering important parts of the research process.

NSD is engaged in extensive national collaboration and has agreements with institutions and organisations. Much of NSD's comprehensive activities are made possible by its close cooperation with, among others, Statistics Norway, the Norwegian Data Protection Authority, the National Archives, the Research Council of Norway, the Ministry of Education and Research and the research communities, both at a strategic and operational level. NSD's collaboration with the new Directorate for ICT and Joint Services in Higher Education and Research (Unit) has become increasingly important since its establishment in 2018. NSD participates in the expert committees on research and information security.

National and international collaborations are important for ensuring that NSD can provide the best data management and services to higher education and research institutions. This also applies to NSD's important role in a range of major national and European projects, funded by, among others, the Research Council of Norway and the EU, which contribute to building joint services that secure access to relevant quality data and pertaining support services for researchers and students.

The NSD Board commenced work on a new strategy for NSD in autumn 2019. The strategy shall set a clear course for the centre based on the research communities' need for research infrastructure and data services in the years to come. The Board aims to adopt the strategy in autumn 2020.

The Ministry initiated a review of the central administrative tasks in the knowledge sector and established the Organisation Project in 2016. The status of the Ministry's review of NSD remains unclear. The Board would like to point out that this puts NSD in a difficult situation in a time where national research infrastructure is constantly facing new needs, requirements and expectations.

## **FUNDING**

NSD's turnover has increased from NOK 72,969,024 in 2018 to NOK 83,774,860 in 2019. Work corresponding to 92 full-time equivalents was performed in 2019, including part-time student employees. This is an increase of four full-time equivalents from 2018.

Most of NSD funding comes from externally funded activities carried out for official bodies, the higher education sector and for research communities in Norway and Europe. Income comes from the Research Council of Norway, the ministries, the higher education sector and the EU. The Research Council funded 14% of the activities through its basic allocation, and 23% of the total allocation if we include project grants. The sources of funding in 2019 break down as follows (2018 figures in



brackets): 23% (19%) from the Research Council, 23% (29%) from the ministries, 34% (32%) from other public and private sources, 11% (10%) from EU projects and other international projects, and 9% (8%) from sales and commissions.

## WORKING ENVIRONMENT AND NATURAL ENVIRONMENT

All of NSD's employees work in an office environment with computers as their most important work tool. Sickness absence was 4.98% in 2019. This is a marked decrease from 2018 when sickness absence amounted to 7.12%. No injuries or accidents were registered. The centre aims to reduce its impact on the environment by limiting travel and using video conferences as often as possible.

## STAFF BY AGE AND GENDER

NSD endeavours to achieve an even gender balance. In 2019, there was a higher proportion of women (58%) among the staff. NSD's management team comprised six women and three men at 31 December 2019. NSD emphasises diversity and encourages qualified candidates to apply for jobs with us, regardless of age and cultural and ethnic background.

## ANNUAL ACCOUNTS AND ALLOCATION OF PROFIT

The Board is very pleased with the centre's results in 2019. NSD's financial performance was positive in 2019, and its outlook is good. The Board confirms that the requirements of the going concern assumption are met. The Board strives to ensure that the company has adequate equity and therefore proposes that NSD's profit for 2019 of NOK 2,977,676 be allocated to other equity. As stipulated in the Articles of Association, no dividend is distributed.

Bergen, 2. April 2020



**PETTER AASEN**  
Chair of the Board


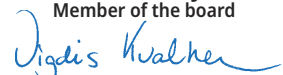


**ELIN HAUGSGJERD ALLERN**  
Member of the board

**EVA STENSLAND**  
Member of the board



**TORSTEIN ARNE BYE**  
Member of the board

  
**KJELL GUNNAR SALVANES**  
Member of the board  
**CECILIE HOPLAND JENTOFT**  
Member of the board  
**VIDAR WANGEN ROLLAND**  
Member of the board  
**VIGDIS NAMTVEDT KVALHEIM**  
Director

# Annual accounts

<i>Amounts in NOK</i>	<b>NOTE</b>	<b>2019</b>	<b>2018</b>
<b>OPERATING INCOME AND EXPENSES</b>			
Operating income	7	83 774 860	72 969 024
<b>Total, operating income</b>		<b>83 774 860</b>	<b>72 386 933</b>
Salaries and social costs	1, 8	66 561 971	60 433 122
Depreciation tangible fixed assets	2	500 664	457 143
Other operating expenses	1	14 380 728	12 333 411
<b>Total, operating expenses</b>		<b>81 443 363</b>	<b>73 223 676</b>
<b>Operating profit/loss</b>		<b>2 331 497</b>	<b>-254 652</b>
<b>FINANCIAL ITEMS</b>			
Interest income		450 411	417 618
Other financial income		228 620	205 956
Interest expenses		2 768	0
Other financial expenses		30 084	166 000
<b>Net financial items</b>		<b>646 179</b>	<b>457 574</b>
<b>Profit/loss for the year</b>		<b>2 977 676</b>	<b>202 922</b>
<b>TRANSFERS</b>			
Allocated to other equity		2 977 676	202 922
<b>Total transfers</b>	3	<b>2 977 676</b>	<b>202 922</b>



# Balance sheet

<i>Amounts in NOK</i>	NOTE	2019	2018
<b>ASSETS</b>			
<b>FIXED ASSETS</b>			
<i>Tangible fixed assets</i>			
Fixtures and fittings	2	1 255 110	1 092 853
<b>Total, tangible and fixed assets</b>		<b>1 255 110</b>	<b>1 092 853</b>
<i>Financial fixed assets</i>			
Payment in advance	6, 9	35 358	106 067
<b>Total, financial fixed assets</b>		<b>35 358</b>	<b>106 067</b>
<b>Total, fixed assets</b>		<b>1 290 467</b>	<b>1 198 920</b>
<b>CURRENT ASSETS</b>			
<i>Debtors</i>			
Trade debtors		5 944 946	3 559 828
Other debtors	6	600 770	634 789
<b>Total, debtors</b>		<b>6 545 717</b>	<b>4 194 617</b>
<i>Bank deposits, cash in hand etc.</i>			
Bank deposits, cash in hand etc.	4	89 967 602	85 139 430
<b>Bank deposits, cash in hand etc.</b>		<b>89 967 602</b>	<b>85 139 430</b>
<b>Total, current assets</b>		<b>96 513 319</b>	<b>89 334 047</b>
<b>Total assets</b>		<b>97 803 786</b>	<b>90 532 967</b>

# Balance sheet

<i>Amounts in NOK</i>	NOTE	2019	2018
<b>EQUITY AND LIABILITIES</b>			
<b>EQUITY</b>			
<i>Paid in equity</i>			
Share capital	3	5 000 000	5 000 000
Reserve for valuation	3	2 378 127	2 378 127
<b>Total, paid in equity</b>		<b>7 378 127</b>	<b>7 378 127</b>
<i>Retained earnings</i>			
Other equity	3	35 203 540	32 225 863
<b>Total, retained earnings</b>		<b>35 203 540</b>	<b>32 225 863</b>
<b>Total equity</b>	<b>3</b>	<b>42 581 667</b>	<b>39 603 990</b>
<b>LIABILITIES</b>			
<i>Accounting allocations</i>			
Provisions for pensions	8	18 221 411	18 425 675
<b>Total, accounting allocations</b>		<b>18 221 411</b>	<b>18 425 675</b>
<i>Current liabilities</i>			
Trade creditors		888 845	2 028 177
Public duties payable		4 549 171	4 334 367
Other short-term liabilities	5	31 562 693	26 140 757
<b>Total, current liabilities</b>		<b>37 000 708</b>	<b>32 503 301</b>
<b>Total, liabilities</b>		<b>55 222 119</b>	<b>50 928 976</b>
<b>Total, equity and liabilities</b>		<b>97 803 786</b>	<b>90 532 967</b>

# Notes to the financial statement 2019

## **ACCOUNTING PRINCIPLES**

This financial statements have been set up in accordance with the Accounting Act and good accounting practice. The accounting principles employed are described in the following paragraphs.

### **A) OPERATING INCOME AND COSTS**

Income consists for the most part of grants and income from projects. Our services are entered as income as they are delivered. Payments received for activities that have not been performed by the end of the year are therefore entered on the Balance Sheet as Prepaid income and are classified as Other short-term liabilities. Costs are entered according to the matching principle, i.e. they are entered in the same period as the earnings with which they are associated.

### **B) CURRENT ASSETS/SHORT-TERM DEBT**

Current assets and short-term debt comprise items that are due for payment within one year of Balance Day, plus items related to the flow of goods. Current assets are valued at the lower of historical cost and estimated real value.

### **C) FIXED ASSETS/LONG-TERM LIABILITIES**

Fixed assets are items intended for long-term ownership and use, and their value is entered at their historical cost. Fixed assets with a limited economic lifetime should be written down in accordance with a sensible depreciation plan. Fixed assets should be written down to their real value in the event of a loss of value that is not expected to be merely transient. Such depreciation should be reversed if and to the extent that the conditions leading to depreciation no longer exist. Long-term liabilities are entered at their nominal value when the liability was incurred.

### **D) FOREIGN CURRENCY**

Financial items in foreign currencies are entered at the rate of exchange in effect at the end of the financial year.

### **E) TAX**

As the company is a not-for-profit enterprise, it is not liable to pay tax, in accordance with paragraph 2-32 of the Tax Act.

### **F) PENSIONS**

The company is required to operate an occupational pension scheme in compliance with the Act on Mandatory Occupational Pension Plans. The company's scheme meets the requirements of the Act, and employees are enrolled in the Norwegian Public Service Pension Fund. The scheme is a performance-related plan. All liabilities are assessed in the light of the total pension funds in the pension scheme, and their estimated value is corrected every year in accordance with actuarial estimates. The periodised employment tax is classified as a part of net pension liabilities. The employment tax, calculated as the net annual cost of pensions, is entered as a cost together with the cost of the pensions themselves.

### **G) CASH-FLOW ANALYSIS**

The cash-flow analysis is drawn up according to the indirect method. Cash and cash equivalents comprise cash, bank deposits, and other liquid short-term deposits.

### **H) IMPORTANT RENTAL CONTRACTS**

The company's rental contracts are regarded as operational rental agreements, and rental costs are treated as current operating costs.

**NOTE 1 PAYROLL EXPENSES, NUMBER OF EMPLOYEES, FEES, LOANS TO EMPLOYEES, ETC.****Payroll expenses**

<i>Amounts in NOK</i>	<b>2019</b>	<b>2018</b>
Salaries	47 196 238	43 105 664
Accrued holiday allowances	5 976 618	5 619 304
Social security tax	7 466 948	6 912 708
Pension costs, incl. negotiated pensions	5 222 406	4 110 101
Other benefits	699 761	685 344
<b>Total</b>	<b>66 561 971</b>	<b>60 433 122</b>

Average number of full time equivalent positions	92	88
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<b>Remuneration to managerial staff</b>	<b>LØNN</b>	<b>PENSJONSKOSTNADER</b>	<b>ANNEN GODGJØRELSE</b>
Managing Director	1 226 144	23 668	4 392
Board	427 650		

Neither the director nor the Board have a right to a bonus, percentage of surplus or options, nor to special payments in the event of termination of employment or elected position.

**OTP**

The company is obliged to have an occupational pension scheme under the Mandatory Occupational Pensions Act. The company's pension schemes meet the requirements of this Act

**Auditor**

Expected fees to the auditor for 2019 constitute NOK 154 298,- excl. VAT.

Legally required audit	82 000
Other services	72 298
<b>Total honorarium to auditor</b>	<b>154 298</b>

## NOTE 2 LONG-TERM OPERATING ASSETS

<i>Amounts in NOK</i>	<b>INVENTAR</b>	<b>IT UTSTYR</b>	<b>SUM</b>
Historical cost 01.01.	1 898 700	4 423 125	<b>6 321 825</b>
Additional acquisitions	0	662 921	<b>662 921</b>
<b>Acquisition cost per 31.12.</b>	<b>1 898 700</b>	<b>5 086 046</b>	<b>6 984 746</b>
Accumulated depreciation per 31.12	-1 653 526	-4 076 110	-5 729 636
<b>Book value per 31.12.</b>	<b>245 174</b>	<b>1 009 936</b>	<b>1 255 110</b>
<b>Book value per 31.12.</b>	42 156	458 508	<b>500 664</b>
Economic lifetime	10 years	3 years	
Depreciation schedule	Linear	Linear	

## NOTE 3 EQUITY CAPITAL

Equity capital per 01.01.	5 000 000	2 378 127	32 225 863	39 603 990
Profit/loss for the year			2 977 676	2 977 676
<b>Equity capital per 31.12</b>	<b>5 000 000</b>	<b>2 378 127</b>	<b>35 203 540</b>	<b>42 581 667</b>

The share capital consists of 5,000 shares, each with a face value of NOK 1,000.  
The Ministry of Education and Research owns 100% of the shares.

## NOTE 4 BONDED DEPOSITS

<i>Amounts in NOK</i>	<b>2019</b>	<b>2018</b>
Bonded deposits	2 770 833	2 769 448

## NOTE 5 OTHER CURRENT LIABILITIES

<i>Amounts in NOK</i>	2019	2018
Unpaid holiday pay	5 739 055	5 074 773
Periodised project payments	25 014 431	20 891 619
Other current liabilities	809 207	174 365
<b>Total</b>	<b>31 562 693</b>	<b>26 140 757</b>

## NOTE 6 PAYMENTS IN ADVANCE

NSD has paid rent in advance as a means of financing the refurbishment of the premises that the company rents. The advance is entered in the profit and loss accounts for the duration of the lease, which is 15 years.

<i>Beløp i NOK</i>	2019	2018
Advance paid in connection with refurbishment	9 013 609	9 013 609
Unused refurbishment funds returned to NSD	-256 677	-256 677
Grants received from Research Council of Norway	-7 500 000	-7 500 000
Net	1 256 932	1 256 932
Share of rent for previous years	-10 801 567	-10 801 567
Share of rent for this year	-70 709	-70 709
<b>Advance payments per 31.12.</b>	<b>35 358</b>	<b>106 067</b>
Other advance payments of operating costs	600 770	634 789
<b>Total advance payments</b>	<b>636 128</b>	<b>740 856</b>

## NOTE 7 BREAKDOWN OF INCOME

<i>Amounts in NOK</i>	2019	2018
Funding from The Research Council of Norway	19 004 305	15 513 926
Funding from government ministries	19 513 925	20 975 000
Other public- and private-sector grants	28 200 217	23 233 420
Project funding from the EU and other international organisations	9 625 734	7 659 162
Income from sales and contracts	7 430 679	5 587 516
<b>Total</b>	<b>83 774 860</b>	<b>72 969 024</b>

## NOTE 8 PENSIONS

<i>Amount in NOK</i>	<b>2019</b>	<b>2018</b>
Earned pensions for the year	5 374 843	4 535 328
Effects of year's changes in pension plans	0	0
Interest paid on pension liabilities	1 952 870	1 775 675
Expected return on pension funds	-2 359 305	-2 114 378
Administration costs	183 278	169 809
Net pension costs before employment tax	5 151 686	4 366 434
Employment tax on pension costs	726 388	615 667
Pension expense before unrecognized adjustments	5 878 074	4 982 101
Actuarial loss	525 220	243 960
Recognised longevity adjustment 1943-1953 cohort	0	0
Recognised increase in pensions to retirement pensions	0	0
<b>Cost of pensions, entered in profit and loss account</b>	<b>6 403 294</b>	<b>5 226 061</b>

<i>Amount in NOK</i>	<b>2019</b>	<b>2018</b>
Pension liabilities per 31.12	84 764 937	81 234 570
Pension assets per 31.12	-57 088 845	-52 442 476
Employment tax on net pension liabilities	3 902 329	4 059 685
Net pension liabilities including employment tax	31 578 421	32 851 779
Actuarial profit not entered in profit and loss account	-11 706 406	-12 643 386
Estimated deviation from employment tax	-1 650 604	-1 782 71
<b>Pension liabilities, incl. employment tax, entered in balance sheet</b>	<b>18 221 411</b>	<b>18 425 675</b>

<i>The following conditions were used as a basis for the above calculations</i>	<b>2019</b>	<b>2018</b>
Discount rate	2,30 %	2,60 %
Return on pension funds	3,80 %	4,30 %
Salary growth	2,25 %	2,75 %
Annual anticipated adjustment of old-age pensions under payment	1,25 %	1,75 %
Annual anticipated adjustment of G-rate	2,00 %	2,50 %
Employment tax	14,10 %	14,10 %
Expected remaining time in employment	11	12


## NOTE 9 SPECIFICATIONS OF RECEIVABLES AND LIABILITIES

<i>Amount in NOK</i>	2019	2018
Receivables that are due later than 12 months ahead:	35 358	106 067
Liabilities that fall due more than five years	0	0
<b>Total</b>	<b>35 358</b>	<b>106 067</b>


Bergen, 2. April 2020

  
**PETTER AASEN**  
Chair of the Board

  
**ELIN HAUGSJERD ALLERN**  
Member of the board

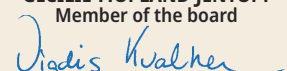
  
**EVA STENSLAND**  
Member of the board

  
**TORSTEIN ARNE BYE**  
Member of the board

  
**KJELL GUNNAR SALVANES**  
Member of the board

  
**CECILIE HOPLAND JENTOFT**  
Member of the board

  
**VIDAR WANGEN ROLLAND**  
Member of the board

  
**VIGDIS NAMTVEDT KVALHEIM**  
Director



# Organisation map

