16.1 million downloads edepot
2.7 million pages library applications
1.4 million pages WUR Library search
2.3 million pages Groen Kennisnet
1.9 million pages website and Research@WUR
4.2 million downloads scientific journal articles

Impact & Intelligence services for research assessments
Strengthened collaboration with cultural institutions
Conservation of WUR’s art collection
Groen Kennisnet: improved platform
Facts & Figures

Introduction
Open Science & Education
WUR’s data steward network
Open Access
Open Education
The Research Support Hub
This is one year of work at the Library condensed into nine brief stories and interspersed with key figures. Every year, it is a challenge to outline the most important points without going into too much detail. We are affiliated with the major movements in our field: Open Access, FAIR Data, Open Education, and Responsible Metrics. The Library facilitates general circulation of knowledge through the use of Groen Kennisnet. And we contribute to campus culture with our attention to art, heritage, and special collections. However, we are also simply a library with an expanding digital collection of millions of documents, which is becoming increasingly difficult to navigate. We help with this in all kinds of ways: through personal advice, training, education, and a wide range of technological solutions and 24/7 off-campus access. Not to mention that we provide a place where students enjoy studying seven days a week.

Take a moment to look this over and learn more about the unique efforts WUR Library has made over the past year. I hope you really enjoy reading it.

Hubert Krekels (Librarian)
Open Science is a more open way of conducting, publishing, and evaluating scientific research. Open Science aims for more collaboration, reuse of knowledge and transparency - not only between researchers and disciplines but also in society as a whole. In recent years, the Dutch government as well as research and funding organizations have advanced in this area through a joint ‘National Plan Open Science’ (NPOS).

Transition to Open Science is a key feature of WUR’s Strategic Plan 2022-2025. In 2021, WUR Library coordinated WUR’s Open Science & Education Programme (OSE). WUR Library is involved in all seven OSE themes, especially Open Access, FAIR data and Open Education. In 2021, the Library created and implemented several innovative projects to support researchers and educators in their OSE activities. The Library developed a tool that enables researchers to use the Taverne amendment. This amendment allows researchers to make the publisher’s version of short scientific publications publicly accessible. We also established a data steward network of 130 data stewards to support WUR researchers in making their data FAIR. Steps were also taken to implement Open Education by starting a pilot project to support teachers with sharing their materials nationwide on edusources. The above examples are separately discussed in this annual report. The Library is also involved in developing a MOOC for the theme Citizen Science, in making training courses for WUR-wide programmes (theme Open Science Skills) and in analysing indicators for the theme Recognition and Rewards (Erkennen & Waarderen).

At WUR, we consider Open Science an important European and national development, which will have implications for WUR. In the coming years, we will continue to contribute to open science by increasingly making it our standard practice in our research and education. In this endeavour, our researchers and teachers are key. We will facilitate and support our researchers and teachers with guidelines, tools, resources and best practices of Open Access publications, FAIR data and shared educational resources. As such, we open science to each other, to other academics and to the wider public.

Arthur Mol, Rector Magnificus and Vice President of Wageningen University & Research and Chair of the WUR OSE steering committee
The implementation of the data steward network at WUR improves research data management and optimises the (re)usability of data and thus the reproducibility of research. The network contributes to achieving WUR’s FAIR (Findable, Accessible, Interoperable and Reusable) ambitions. In 2021, the network focused on building and professionalizing a community of strongly committed data stewards.

The 130 data stewards are embedded in the chair groups and business units and function as a first and easy-to-approach point of contact for discipline-specific research data management support. They answer questions, give advice and help develop solutions to manage and share research data in a FAIR manner. The data steward community builder is the driving force to consolidate and to professionalize the data steward network.

Training the data stewards is key. In 2021, WUR Library facilitated five knowledge sessions for data stewards at the Environmental Sciences Group. In 2022, other science groups can also take part in these knowledge sessions. Implementing a knowledge exchange platform was another key goal in 2021. To do this, the steward community builder established an intranet group where data stewards share ideas, look for best practices in Research Data Management and find upcoming workshops and events. In 2021, the data stewards provided valuable feedback in the test phase of the Data Storage Finder and on the Data Management protocol template. Additionally, WUR Library and WDCC launched a new data stewardship webpage. The page includes FAQ's and a task description for data stewards.
Open Access

Unlike the traditional subscription model, Open Access is a publishing model that makes research information available to readers at no cost. Publishing Open Access increases the transparency and societal impact of research findings. In 2021, the Library focused on translating the WUR Open Access policy into practical workflows and guidelines. For example, to encourage Open Access publishing, the Library in collaboration with colleagues from other Dutch universities created a practical guide on how to post and use preprints.

One of the highlights was the implementation of the Taverne amendment, a part of Dutch copyright law. The amendment allows researchers to open their closed peer-reviewed publications in Research@WUR six months after the first (online) publication. WUR researchers may do this regardless of the publisher’s policy. Many WUR researchers used their right to open their publications using the Taverne tool. In 2021, more than 500 articles and 75 book chapters plus conference proceedings became full-text available for everyone.

To further stimulate publishing through Open Access, the Library has made national and local agreements with several publishers. These agreements allow researchers to publish Open Access against reduced fees or free of charge. WUR researchers now have almost 12,000 journals at their disposal under these agreements. In 2021, WUR published 1650 scientific articles Open Access as part of Read & Publish agreements.

The publication figures show that WUR is getting closer to reaching its goal of 100% Open Access. In 2021, 92% of peer-reviewed articles by WUR corresponding authors were published Open Access. Compared to 55% in 2017, this is a huge increase (see infographic). Over the last few years Open Access publishing has become the standard publishing model at WUR.
At WUR, Open Education is an important part of the Open Science and Education Programme (OSE). Open Education concerns the sharing and re-using of educational resources. It stimulates educational innovation and enhances the quality of teaching materials.

In response to developments in the National Acceleration Plan - Zone ‘Towards (digital) open learning materials’, WUR Library together with teachers of the Boundary Crossing@WUR project started a pilot to support teachers with nationally sharing their educational materials in a professional community on edusources.

The infrastructure that is being piloted will enable WUR teachers to share their materials with a wider public on edusources, while having to upload it only once via WUR's Library 4 Learning (L4L). L4L is WUR's portal to search and find educational resources created by WUR teachers.

This pilot is a small-scale practical implementation of the guidelines for Open Educational Resources at WUR. WUR Library contributed to developing the guidelines in 2021.
Easy access to research support services

In 2021, the programme Easy Service in Research started. The programme was commissioned by the Dean of Research. The Library coordinates the programme in close collaboration with FB-IT (Facility Services – IT) and Corporate Communication. The Research SupHub aims to make research supporting services easier to find. The SupHub provides researchers with a single point of entry to quickly identify support services regardless of who offers the service and where the information is located.

The development of the SupHub is an intensive collaboration with the Science Groups and the Graduate Schools. In the initial design stage, researchers provided feedback on the portal's functionalities, content and design. The project team then identified and described approximately 150 research support services. Based on these inputs, the application's beta version was created in 2021. Currently, a select group of users is testing the SupHub in the acceptance environment to come to a stable and high quality portal that meets researcher needs.

The project team aims for a phased implementation in the spring of 2022. After that, the input of researchers will remain essential to further develop and improve the SupHub.
In 2021, the Library contributed to the assessment of the six Wageningen Graduate Schools and Wageningen Food and Biobased Research (WFBR). Whereas in the past the review committee of the Graduate Schools evaluated individual chair groups, this time the committee assessed research clusters consisting of several chair groups.

For all research clusters and WFBR, the Library performed a bibliometric analysis and reported on this. This report consisted of the following three parts: 1) an overview of the registered publications from Pure, the Research Information System of WUR, 2) an overview of the percentage of Open Access publications, and 3) a bibliometric analysis. The analysis was done with SciVal, based on the Scopus database. This guaranteed good coverage of all WUR research areas. The scientific impact of the research clusters and WFBR is displayed not only with bibliometric indicators, such as numbers of publications, citations and top 10% of most cited publications, but also with national and international collaborations based on the affiliations of co-authors.

In addition, bibliometric experts created visualizations of all collaborations of the Graduate Schools and WFBR. Finally, the societal relevance of the research was also an important part of the evaluation. Altmetric Explorer was used to analyse how often publications or other research output were mentioned in the news or in policy documents. This ensured that not only the scientific impact but also the societal impact of the research clusters was reported.
For Special Collections, the continuation of the COVID pandemic resulted in the accelerated implementation of digital technologies to show the collections online. The online exhibition Art on Wageningen Campus exemplifies this. This exhibition takes visitors on a journey through the stories behind some thirty works of art on campus. To increase digital visibility, Special Collections added new photo collections to the WUR Image Collections. This includes a collection of historical fruit drawings and a collection of photos from WUR's current entomology research 'Bugs in Science'.

This year Special Collections also created a video of the Cartophoot. The Cartophoot is a jigsaw puzzle map of the Netherlands and a special example of Academic Heritage. Designed by E.W. Hofstee, the Cartophoot was used in the last century by the Sociology and Sociogeography departments to compile demographic maps.

Through cooperation with museums and cultural festivals, Special Collections was able to acquaint a wide audience with its collection. One of the collection’s undisputed highlights, Pieter Cos's Tulip Book, was on display in the exhibition The Botanical Revolution at the Centraal Museum in Utrecht. The Tulip Book is a nursery catalog from 1637 and contains hand-colored drawings of tulips and a number of other flowers.

Special Collections also lent school plates for display at Museum de Casteelse Poort in Wageningen. The plates were drawn by the Wageningen artist Harmen Meurs for the departments of Entomology and Phytopathology at the Landbouw Hogeschool (Agricultural College) in the early 20th century. The preliminary study of the iconic sculpture The Sower, created by sculptor Auguste Falise, was also on display at Museum de Casteelse Poort. After the documentary on the natural history illustrator John James Audubon, at the Incscience Film Festival in Nijmegen, curator Anneke Groen showed a number of natural history works to a very interested audience. In the discussion afterwards she emphasized the importance of natural historical sources in contemporary nature research.

Strengthened collaboration with cultural institutions
Conservation of WUR’s art collection

Wageningen University & Research owns a collection of about 600 paintings, sculptures, and other works of art. WUR Library is responsible for the management and maintenance of this art collection, which can be found on the campus terrain and in the buildings. Relocations, renovations and new constructions led to a backlog in managing the indoor and outdoor artworks. Under the auspices of the Art and Heritage committee and in collaboration with an art consultancy firm, the Library started formulating and implementing a structured art policy. Besides taking inventory, a start has been made with restoring damaged works. Works that cannot be relocated in new or reconstructed buildings are stored in an art depot in Forum. WUR departments will be able to borrow works of art on request.

About 150 works of art, such as drawings, watercolors, paintings, tapestries, and sculptures in various buildings, have been restored and/or reframed by external companies. The work was financed with funds from the Wageningen International Congress Centre (WICC) fund and is now largely complete.

In collaboration with Campus Management and the Art and Heritage committee, the Library advised on the relocating and restoring of some sculptures on campus. In 2021 for example, because of the construction of the new Dialogue Centre, a plan has been made to move the Dance of the Cauldrons, 7 large ‘food jars’ (spijspotten) to the west side of Atlas.
Groen Kennisnet (GKN) is the most comprehensive knowledge platform for the green professional sector in the Netherlands. The platform provides access not only to practically applicable knowledge from research but also to information from trade journals and to digital learning materials. Groen Kennisnet is managed by WUR and is a joint project with the Ministry of Agriculture, Nature and Food Quality (LNV), the professional community, and green, middle and higher education.

In 2021, information specialists and developers completely revamped the Groen Kennisnet. The process started at the beginning of 2021 with input from the sector and the valuable efforts of several user groups. After 9 months of development, Groen Kennisnet launched the new digital platform on 15 October 2021. The new platform offers a powerful search engine, various information portals about agriculture, living environment and nutrition, learning materials, files and news with current publications from research and professional journals. The platform contains over 340,000 items mainly in Dutch and more than 70,000 items in English.

Since the launch, The GKN team has received many positive responses from users in the field. In 2022, Groen Kennisnet will continue to develop the platform and will focus on more connections with current and new partners from the sectors. In this way, Groen Kennisnet can continue to meet the knowledge needs of users even better and thus continue to increase the platform's social impact.
Facts & Figures

Installation off-campus access plugin

5,363 users
2020: 4,620

Open Access articles

80% of all published articles

Most downloaded Journals

<table>
<thead>
<tr>
<th>Journal</th>
<th>Downloads</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nature</td>
<td>60.292</td>
</tr>
<tr>
<td>Food Chemistry</td>
<td>48.786</td>
</tr>
<tr>
<td>Science of The Total Environment</td>
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<tr>
<td>Science</td>
<td>46.512</td>
</tr>
<tr>
<td>Journal of Cleaner Production</td>
<td>46.510</td>
</tr>
</tbody>
</table>

Online Opening Event GKN 3.0

150 participants

Training and demo participants

678
mainly online
2020: 473

Students trained in Information Literacy

4394
2020: 4046

5 most issued books

- An introduction to statistical methods & data analysis
- Discovering statistics using IBM SPSS statistics
- Decision science: theory and applications
- Food quality management: technological and managerial principles and practices
- Natural resource and environmental economics