ENGLISH

# CONNECTING IDEAS THROUGH OPEN SOURCE

IDENTITY & ACCESS MANAGEMENT.
FEDERATED INFRASTRUCTURES.
OPEN SOURCE.

DAASI International

This Brochure

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Peter Gietz

# WORDS FROM THE FOUNDER

DAASI International stands for professionalism, commitment, sustainability, fairness, and digital sovereignty. These values are deeply embedded in our corporate philosophy and are one of the reasons we are among the leading open-source providers in the field of Identity & Access Management (IAM).

DAASI International has its origins in research. As a spin-off from a research project of the German Research Network (DFN) at the University of Tübingen, we set ourselves the goal of creating interesting and varied jobs for a dedicated team while promoting innovative technologies.

Today, our expertise in federated Identity & Access Management is in demand across Europe. We help organisations make their IT infrastructure more efficient and secure by using modern, open-source-based technologies, and we ensure a reliable and intuitively usable infrastructure. In doing so, we facilitate the daily work of many users despite the increasing complexity of IT landscapes, while also enhancing IT security. As IAM technologies and methods are also required in virtual research environments, we contribute our expertise to research infrastructures as well, for example within the framework of the National Research Data Initiative (NFDI).

Our many years of experience, our commitment to open-source technologies, open standards, and data protection in the spirit of digital sovereignty, as well as our engagement in research, characterise us. We hope to make a valuable contribution to the common good. I see DAASI International as a successful proof of concept for an open-source business model in which values are more important than maximising profits.

Peter Gietz, Founder

David Hübner &
Markus Widmer

# WORDS FROM THE CEOs

The roots of DAASI International lie in providing Identity and Access Management services for the research community – an environment built on openness, innovation and sustainability. These values have guided us from the very beginning and continue to shape our work today. Open source, data protection and open standards are central to our philosophy.

In 2025, DAASI International celebrated its 25th anniversary. Over the years, we have grown steadily while increasingly gaining the trust of customers in the public sector and industry, who share and value these principles. To us, this is a clear indication that digital sovereignty is becoming increasingly established throughout society, and it further strengthens our commitment to our mission.

We believe that genuine control over IT infrastructures can only be achieved through transparent, open and vendor-independent solutions. At a time when this control is increasingly concentrated in the hands of a small number of large corporations, we see ourselves as a European counterweight to this development. Our aim is to provide our customers with secure, innovative and efficient IAM solutions that preserve their digital sovereignty. Drawing on decades of experience and expertise, we are able to develop flexible solutions tailored to individual requirements and specific challenges.

IT is also always about progress, and the pace of technological development has accelerated noticeably in recent years. As a company with close ties to the research community, we closely monitor these developments in order to intelligently integrate new standards and technological advances into our products and processes, while never losing sight of stability and continuity.

Open source thrives on cooperation and fairness, and we see these principles as part of our social and societal responsibility. We want to provide our employees with a good, interesting and secure working environment. Through our involvement in professional associations, research networks and open-source projects, as well as through our extensive network of partners, we also seek to strengthen collaboration within the community.

D. Hübner Widmer

David Hübner and Markus Widmer, CEOs

# Why OPEN SOURCE?

Open source is happening! Even established tech companies, so-called global players like Amazon and Google, actively support open source projects and rely on open technologies for their solutions. Let us tell you why:

## OPEN, INDEPENDENT, SUSTAINABLE

Proprietary software is always subject to paid licences. The source code can only be viewed by the manufacturer and may only be modified by them. The development of new features is based on the general demand on the market; it is not possible to make your own further developments. With open source software, on the other hand, you have free access to the source code and can integrate new functionality yourself or with the help of the IT service provider of your choice and make further customisations as required. Open standards ensure compatibility with other systems, while the absence of license fees spares your budget. With open source solutions, you promote innovation, scale your technologies and conserve your financial resources. Furthermore, you are independent and can determine the timing and direction of any modifications yourself.

= **INDEPENDENCE**

= **HIGH FLEXIBILITY AND ADAPTABILITY**

= **TRANSPARENCY**

= **OPEN STANDARDS**

## OPEN SOURCE BY CONVICTION

We firmly support the idea of open source because we are convinced that this principle not only forms the basis for digital sovereignty, but also for innovation, progress, and efficiency. Open source makes an important contribution to reducing the digital divide both between different social classes and between the countries of the global North and South.

DAASI International has been working closely with developers of modern open source software in the IAM sector for many years, advocates standardisation in various committees and only develops products itself that are subject to an open source licence. It also plays an active role in ensuring that open source technologies are also used effectively in Africa.

DAASI International highly values structured yet flexible project management, so that a collaboration is pleasant and transparent for everyone involved. This is why the teams work according to the agile project method Scrum. Let us reach your goal together – step by step.

# Agile **PROJECT MANAGEMENT**

## FLEXIBLE

We divide projects into four-week project phases, so-called "sprints". After every sprint, the team evaluates their work progress and plans the next phase of the project. This way, the project can continuously benefit from new knowledge incorporated into the work and hence, the course of the project is optimised. This creates an iterative working method which can easily adapt to changes in requirements.

## TRANSPARENT

The stakeholders always know the current stage of their project. They receive permanent feedback and can see results early on – and request adjustments accordingly if necessary.

## SUSTAINABLE

The periodic sprint meetings ensure the exchange between team members of a project on a regular basis. This way, clear structures during the work process can be established which does not only ensure high-quality of outcomes, it also increases productivity and satisfaction levels of all project partners.

## FIXED-PRICED PROJECTS

We offer this if you are working with exact budget specifications. As the scope of services and service period must be calculated precisely in advance, the planning phase usually takes a little longer. To calculate the fixed price, we use your requirement specifications or specifications such as a requirements analysis or an implementation concept.

## EFFORT BASED PROJECT

We will provide a cost forecast. The final price ultimately depends on the actual amount of work put into the project. As this method requires less planning time, one advantage is a sooner start of your project. Additionally, projects billed on work effort mean we can react more spontaneously to changes in concept or new requirements during the working phase.

# DAASI International is an Expert on IDENTITY & ACCESS MANAGEMENT

As digitalisation progresses, organisations are faced with the challenge of managing a large number of digital identities efficiently and securely. These identities include data and accounts of employees, customers, suppliers and, increasingly, services and devices (Internet of Things). Identity & Access Management (IAM) makes it possible to provide users with all the necessary accounts and access rights at a central location. In this way, sensitive resources are protected from unauthorised access without any major administrative effort.

**Federated Identity & Access Management with open-source software is DAASI International's core competency.**

## MORE EFFICIENCY AND SECURITY THROUGH IAM

If an organization operates multiple systems with more than a few dozen users, it is already beneficial to consider a systematic approach to identity management. Users obtain an account and a corresponding number of passwords for every single system. Conventional user management usually saves and manages this data in different, separate databases. This leads to confusing structures as well as to a duplication of the administration process and unnecessarily takes time away from the users as well as from the administrator. In addition, a safety risk is created when accounts, for example of former employees, can not be deactivated consequently and timely.

IAM allows you to manage different systems through a central user data administration. This significantly reduces the complexity and enables a quick provision of accounts and access rights. Organisations and users also benefit from increased data security and improved user experience, for instance through single sign-on and self-service.

## FEDARATIONS – MAKING RESOURCES ACCESSIBLE TO EVERYONE

By using the federated IAM, users can not only access the resources of their own organisation, but also the resources of other organisations within the federation. They use their existing access data for authentication and do not have to create additional accounts with the partner organisation. Such federations are formed by contracts ensuring the data is up to date and processed in compliance with data protection regulations and are based on a certificate list of the participating servers, which acts as a member directory.

## THE TECHNOLOGY

Identity & Access Management uses many different technologies to allow for the automated synchronisation of central master data from different source databases (like HR systems). This master data is stored centrally in a database or directory, here called metadirectory. At this core, you can not only manage user data itself, but also administer the corresponding access rights, block accounts, or reset passwords. This aggregated data is then instantly provisioned to target systems, using different standardised or proprietary protocols. The protocols that are being used vary depending on the type of provisioning:

**Just in case** (before users access a service): SPML, SCIM, periodic LDAP request, or any proprietary protocol, like filling relational databases using SQL statements

**Just in time** (while users access a service): SAML, OIDC/OAuth2, or LDAP requests after login

Our Products

# IDM SOLUTIONS

midPoint

midPoint is the comprehensive open source software for 'Identity Governance and Administration' and is used as a standard product in identity management. As a complete solution, midPoint has all the necessary tools and configuration options required for the introduction of your IAM system – and more. DAASI International is an official Gold Partner of the midPoint developer Evolveum.

**Credential Management** means automated generation of strong passwords compliant with conditions predefined by the administrator to ensure a high level of IT security.

**Workflow:** midPoint can be easily adjusted to per-existing processes and the individual workflow of an organisation, this is to ensure that the workflow is not disrupted while also protecting the system from unauthorised accesses.

**Organisational Structure:** midPoint comes with an integrated structure model for organisations so it can be adjusted to already existing hierarchies and structures within an organisation.

**Identity Governance** is the core of the software which manages roles and access authorisation for all users. Different policy options help to maintain high security levels within an organisation.

**Auditing** creates transparency and makes interactions within a system traceable. Additionally, all decisions are constantly revised by an integrated feedback mechanism that will notify the appropriate post if necessary.

**Entitlement** allows you to define and authorise individual access for users on all levels (users, roles, projects, hierarchies) to protect resources.

OpenLDAP is an open source solution for centralised user administration. The software integrates the IEFT standard LDAPv3 and serves as a reference system for other implementations. OpenLDAP is one of the most powerful LDAP servers. It can adapt itself independently to the performance of the hardware and thus gives any IT infrastructure more stability. OpenLDAP is an open source community project. A worldwide community is constantly working on its optimisation, with the aim of creating a comprehensive open source LDAP suite. The development of OpenLDAP is organised by Symas, a US partner company of DAASI International. Symas relies on proven open source software such as OpenSSL, Cyrus SASL, Heimdal Kerberos or Berkeley DB and also offers modern technologies for better performance and higher security with the LMDB database or the PBKDF2 hashing method.

eduMFA is an innovative multi-factor authentication system designed specifically to meet the needs of higher education institutions. By supporting multiple authentication methods, eduMFA provides flexible protection for sensitive data. Developed by German universities as a fork of the open-source software privacyIDEA, the solution features a modular architecture that can be customised and extended to meet individual requirements. Thanks to its high scalability and support for multi-tenant and multi-instance environments, eduMFA is suitable for organisations of any size. The authentication flow can be flexibly adapted, as communication is handled via standard REST interfaces, enabling seamless integration into existing IT infrastructures. eduMFA also supports a wide range of authentication tokens. A particular highlight is the implementation of passkeys, which enable authentication without the need for passwords or usernames, while providing effective protection against phishing through verification of the relying party.

didmos is the IAM suite from DAASI International. Its strength lies in its modular form: it consists of seven customisable open source modules that can be expanded via plug-in interfaces and complement each other perfectly. Together they form a powerful, standard-compliant IAM system. All modules can be used independently of each other and can be integrated individually into existing infrastructures.

## The IAM-Framework
## DIDMOS

CORE

didmos Core enables the management of objects, users and groups. The Python-based module utilises the Django framework for partially automated app code writing, which simplifies the development process. Core provides SCIMv2 endpoints for managing and querying identity data, as well as additional REST endpoints for multi-level workflow implementations and role-based access control (RBAC). A metadirectory in the form of an LDAP server acts as a high-performance data backend that turns didmos Core into a web service interface for writing and reading LDAP data and implementing business logic.

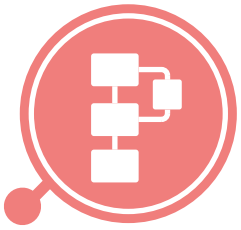
LUI

The LDAP User Interface, LUI for short, is the front-end component for user administration and self-service functionalities, including self-administration of own MFA tokens. By supporting the SCIMv2 standard for distributing identities in the cloud, LUI can also be used universally for other IdM backends. LUI can be customised on many levels and is easy to adapt to your corporate design.

ETL FLOW

ETL Flow (Extract, Transform, Load, Workflow) extracts data from various sources - such as ERP, SAP, XML or SQL databases – which is then synchronised into the central metadirectory. Key processes here are the identification of identities using weighted attributes (duplicate recognition), merging into a consistent data record with other automatically generated attributes, automatic grouping and attribute generation, for example for email addresses.

The didmos Provisioner enables the transfer of identity information to connected target systems in real time. Relevant changes are written to the RabbitMQ queueing system as a JSON document and then imported into the target system by a dedicated worker. The worker utilises the ICF connector framework, which serves various interfaces such as SOAP, REST, LDAP or SQL. Custom connectors can also be developed to connect proprietary systems.



PROVISIONER

The Authenticator is an identity provider (IdP) and authentication component and can be customised to individual requirements within any SSO environment. The integration of the SAML and OpenID Connect protocols enables users to log in using both local and external accounts, e.g. via social login. They can access all services within a federation without having to create and manage multiple accounts. The authenticator can be connected to eduMFA for maximum data security through multi-factor authentication.

AUTHENTICATOR

The didmos Federation Services are the latest module in this IAM suite. A toolkit that particularly addresses the challenges in federated IAM environments, such as the integration of numerous identity providers or dealing with authentication issues in the non-web area. The first tool, FedSSH, secures SSH access to servers via login to federated IdPs. Complex IT landscapes such as research infrastructures can particularly benefit from this in terms of security, user-friendliness and administration effort.

FEDERATION SERVICES

The Pwd Synchroniser synchronises event-based password changes to an Active Directory domain controller in other directories, such as OpenLDAP. The simple installation as a Windows service, the encrypted intermediate storage on the domain controller and the logging of synchronisation processes make the Pwd Synchroniser an effective module for integrating Active Directory.

PWD SYNCHRONISER

Our Products

# SSO Technologies

Shibboleth provides federated authentication and authorisation for web applications and is primarily used within federations of universities, government agencies, and large organisations. The solution is chiefly based on the SAML standard and is widely established as an open-source project. Its ongoing development is coordinated by the Shibboleth Consortium, of which DAASI International is a member.

Shibboleth enables Single Sign-on (SSO), allowing users to access multiple connected services after a single login – even across organisational boundaries within federations. In accordance with the principle of data minimisation, only the specifically required attributes are transmitted to the services.

Shibboleth comprises two central components:

1. The Shibboleth Identity Provider (IdP) enables a central login through which both internal services and applications within a federation can be connected.
2. The Shibboleth Service Provider (SP) protects web applications by handling the processing of the complex SAML protocol, eliminating the need for it to be implemented manually.

Upon request, DAASI International extends the standard functions of Shibboleth – for example, through plugins for multi-factor authentication (such as eduMFA) or for the integration of modern protocols like OpenID Connect.

## KEYCLOAK

Keycloak is a powerful open-source identity provider that serves as a central authentication platform, enabling single sign-on across all connected applications. At the same time, it simplifies user account management as well as the implementation of self-service features for registration and password management. Authorisation is handled via Role-Based Access Control (RBAC), allowing even complex permission structures to be managed efficiently.

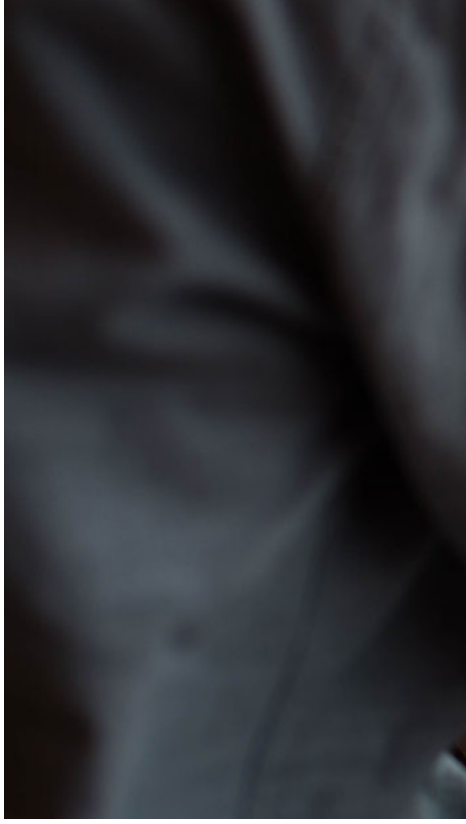
As the community version of Red Hat SSO, Keycloak is based on established standards such as OpenID Connect (OIDC), OAuth 2.0, and SAML, making it highly flexible for integration into existing system landscapes. Custom requirements can be addressed through extensions (plugins) where needed.

Keycloak benefits from a very active community that continuously enhances the product and adapts it to evolving needs.

## SATOSA

At first glance, the Satosa authentication tool looks very similar to Shibboleth. However, Satosa is actually a proxy that is connected between a service and an identity provider (IdP). This proxy consists of two components, each of which communicates either with the service or the IdP and with each other. Satosa makes it possible to transparently forward or modify communication between the service and IdP. Attributes can be changed or queried from additional databases. It is even possible to change the authentication protocol, which in some cases makes communication possible in the first place.

Satosa supports single sign-on across the OpenID Connect and SAML protocols without users realising it.



Experts on IAM

# OUR SERVICES

As a full-service provider, DAASI International accompanies you from the very first thought, over conceptualisation, development, training and migration into the product distribution, at every stage of your IAM project.

## CONSULTING

DAASI International will advise you on your project. We evaluate the current status of your IT infrastructure, create a needs analysis as well as rough and detailed concepts, carry out feasibility studies and consult you on questions regarding IT security and project management.

## INTEGRATION

Every new introduction of IT systems presents challenges. DAASI International will tackle these together with you. We integrate new applications into a wide variety of IT systems, restructure them as needed and optimally adapt them to your processes. We set up federations or integrate third-party systems into existing federations.

## SOFTWARE DEVELOPMENT

The standard solution does not fit your IT landscape or cannot fully meet your requirements? DAASI International develops customised plug-ins, overlays and connectors for existing products, creates functional specification documents and evaluates software libraries. Let us customise the software according to your wishes. We are happy to develop individual solutions for you.

## TRAINING

As an ambassador for IAM with open source products, DAASI International is happy to pass on the knowledge. Our IAM experts train your staff on technologies such as LDAP, SAML, OIDC and OAuth2, as well as our open source solutions. For a purposeful transfer of knowledge, we adapt the presentation material to your individual needs and provide training material.

## SUPPORT

After commissioning a new system, many questions arise in the initial phase, and regular maintenance is essential for smooth operation. Therefore, DAASI International will be happy to assist you even after the project is completed. We provide dependable support for customised solutions and for all of our standard products. We take care of the software maintenance, answer your questions via help desk and provide with our managed services a comprehensive operating package including hosting, backup and monitoring for your life system in the form of software as a service.

Our Customers

# SUCCESS STORIES

## THE PROJECT

The request was to provide an IDaaS platform for the commercial partners of the European Space Agency (ESA) in the ESA member states to give them access to the agency's applications and Earth observation data.

## REQUIREMENTS

Users were to receive a centralised ESA identity via a Gluu-based system. The platform had to enable account management and SSO, support standards such as SAML, OpenID Connect and OAuth and be highly available.

## CHALLENGES

Ensuring business continuity required a highly available platform. Workflows had to be automated and account transfers had to be ensured without loss.

## OUR CONTRIBUTION

Together with project partner Deimos, DAASI International developed a highly available platform with a message queue system for secure data transfer. Workflows between the didmos, Jira and Gluu applications were automated while security was significantly improved thanks to centralised user management. Following the project, DAASI International and Deimos continued to operate the platform for several years and supported the integration of new services.

## THE PROJECT

The identity management system at Nikolauspflege had become outdated. The foundation therefore decided to replace its system with a modern standard solution.

## REQUIREMENTS

Responsibilities had to be allocated sensibly. Ensuring security, data protection and compliance with Federal Office for Information Security (BSI) guidelines required a dual control principle. In addition, the administration had to be relieved, processes accelerated and the user experience improved through a barrier-free interface.

## CHALLENGES

The challenge was to replace many years of customised programming without detailed documentation by a standard software and to reprocess inconsistent personnel data records.

Nikolauspflege

## OUR CONTRIBUTION

In order to fulfil the specifications, administration rights were implemented at various levels as well as key user roles. The dual control principle was established with the help of a workflow for authorisation requests. Accessibility is supported by midPoint as standard. Individual translation gaps were filled with special extensions. By merging the various databases into an IdM system, the administration of cross-domain authorisations was automated and thus significantly simplified.

## THE PROJECT

The contract was to set up a web portal solution for registering and managing customer users so that they can register centrally for selected applications and manage their data themselves.

## REQUIREMENTS

The design of the portal envisaged an on-premises solution that would be GDPR-compliant and provide typical self-service functionalities such as account registration, password changes and the option of requesting additional services. Interaction between the portal and the existing LDAP server, which provides the data for authorising external users, was another requirement.

## CHALLENGES

The system should be designed in such a way that administrators can integrate unlimited additional applications without needing external service providers for configuration work in the future.

**Staatsbibliothek zu Berlin**
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## OUR CONTRIBUTION

DAASI International rebuilt this portal on the basis of LUI, a customisable module of the didmos IAM framework. It consists of two components: a self-service portal and an administration portal for managing external users. didmos LUI functions as an interface between the web applications and the OpenLDAP server.

Our Customers

# FURTHER REFERENCES

CIANDO Mediengruppe Stein

KIT Karlsruhe Institute of Technology

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LEUPHANA UNIVERSITÄT LÜNEBURG

Technische Universität Braunschweig

MAX-PLANCK-INSTITUT FÜR BIOPHYSIK

STATISTIK AUSTRIA Die Informationsmanager

OSB Open Source Business ALLIANCE

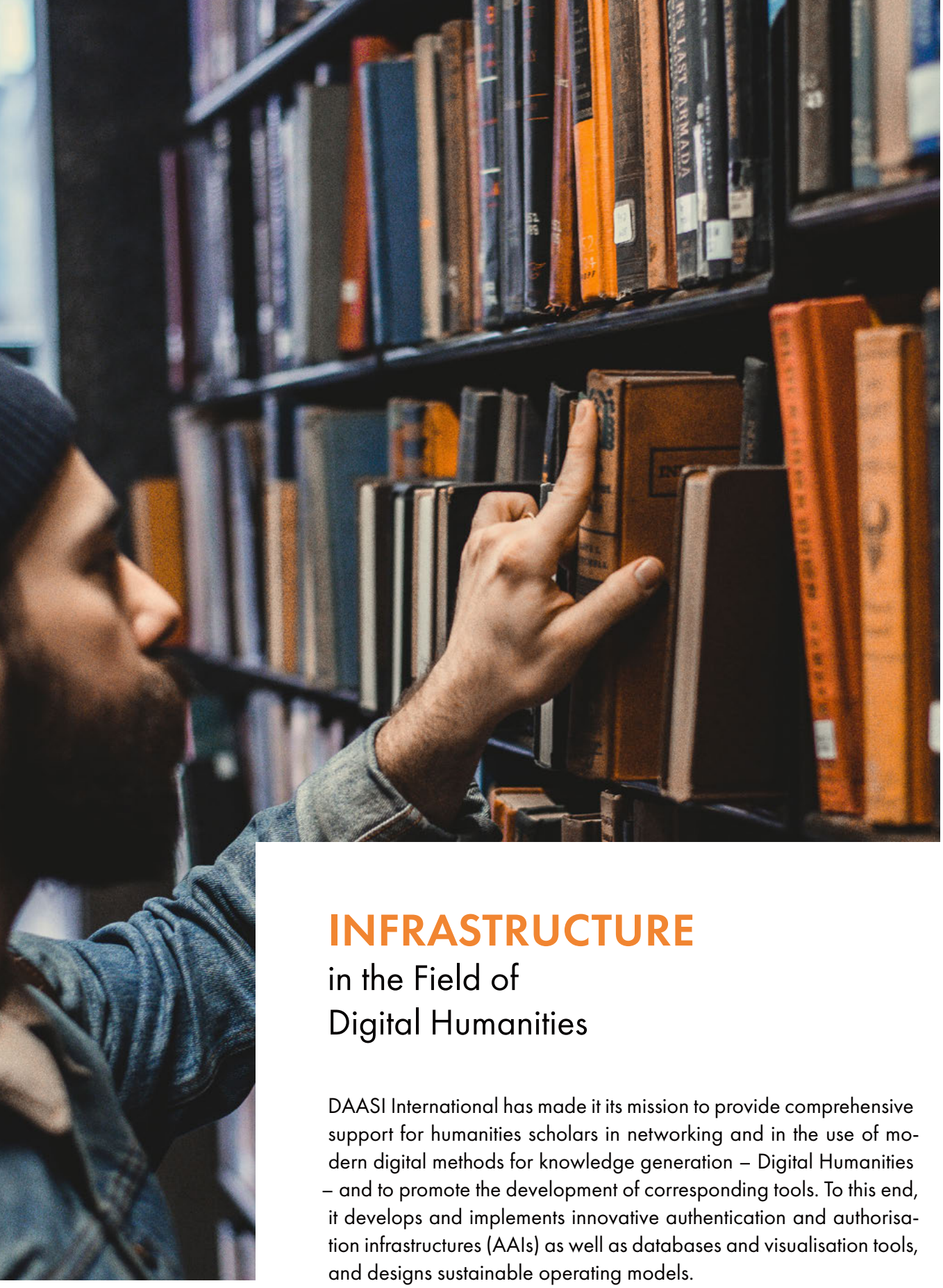
GÉANT

Universität Konstanz

Kunsthochschule Bayern

Cornelsen

GWDG Gesellschaft für wissenschaftliche Datenverarbeitung mbH Göttingen



# INFRASTRUCTURE
## in the Field of Digital Humanities

DAASI International has made it its mission to provide comprehensive support for humanities scholars in networking and in the use of modern digital methods for knowledge generation – Digital Humanities – and to promote the development of corresponding tools. To this end, it develops and implements innovative authentication and authorisation infrastructures (AAIs) as well as databases and visualisation tools, and designs sustainable operating models.

## DARIAH-DE

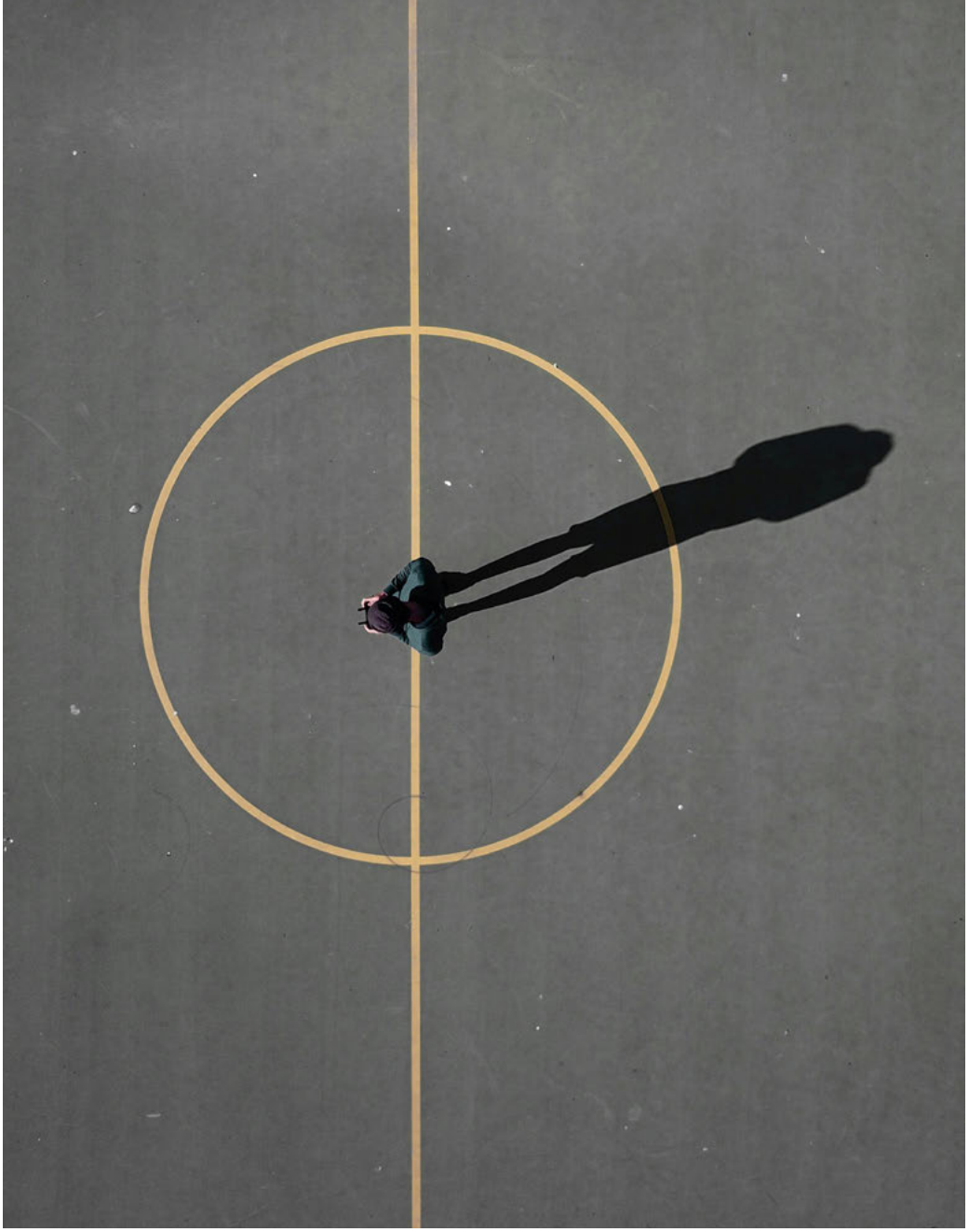
DARIAH-DE is the German partition of the European project DARIAH (Digital Research Infrastructure for the Arts and Humanities). The goal of the project is, among others, to provide a virtual research environment for scholars in order to develop new digital research methods. DARIAH-DE supports the setup through consultation, joining activities that have been separate before, and with generic services of the technical infrastructure. Existing digital resources as well as applications and findings are matched-up regardless of their respective discipline or research proposal, and used together.Unsere DH-Projekte Besides the AAI setup and operation of the AAI, the implementation of new technologies, and the development of sustainable operational models, we also contributed to the conceptualization and setup of the DARIAH-Storage-Infrastructure.

## TextGrid

TextGrid is a virtual research environment for all text-based disciplines of the humanities. It serves as a tool for scholarly editing, and offers modules for methodological, collaborative text data processing and comes with standardised interfaces for publishing software, research data and tools. The idea behind TextGrid is the vision of a digital ecosystem for the humanities in which a free exchange and specific adaption of individual components according to the specific needs of each expert community is possible. Among other services, DAASI International especially helped to set up the user management as well as the rights and license management of TextGrid. Additionally, we aided the development of the workflow user interface and the data repository including the AAI. Now, TextGrid is one of the offered tools by DARIAH-DE.

## NFDI4Culture

NFDI4Culture is one of the humanities consortia within the German National Research Data Infrastructure (NFDI) and addresses research data from the fields of art, music, architecture, theatre, film, and media. The aim of the project is to systematically curate distributed data resources, ensure their long-term preservation and make them accessible for academic use. To this end, standards, tools and services for research data management are being developed and provided. DAASI International supports the project in building federated authentication and authorisation infrastructures with added licence management as well as in integrating and connecting existing solutions.



# USER-CENTRIC IDENTITY

## in Research and Higher Education

A growing trend is emerging towards no longer conceiving identity primarily in organisational terms, but instead starting from the individual and their informational self-determination. In research and teaching, eduID, the concept of a lifelong identity – independent of the respective home institution – is therefore becoming established across Europe. In this context, DAASI International is involved in two projects:

## eduID

At the heart of modern digital research infrastructures lies the question of how digital identities can remain reliably and sustainably usable across institutional boundaries. eduID provides a compelling answer: it establishes a permanent, personal digital identity that exists independently of individual institutions and enables access to academic services across different stages and organisations. Particularly in an environment shaped by international mobility and frequent institutional change, it creates continuity and significantly simplifies the handling of digital resources. eduID is not a single, uniform product, but rather a concept that has been implemented in many countries under the name "eduID" – each based on different technical solutions. One example is the German implementation by the DFN, which demonstrates how such identity models can be integrated into existing national infrastructures. What these approaches share is a clear guiding principle: users manage their identities autonomously and retain control over their data. This creates a trustworthy, federated ecosystem that combines openness and security.

DAASI International developed and provided the software for DFN-eduID based on didmos. The system is continuously being developed further in order to meet all the requirements of the participating institutions.

## BonafID

How the eduID concept can also be applied outside Europe is demonstrated by BonafID. The platform is used in African research and education networks and translates the idea of eduID into a concrete, scalable infrastructure. As a cloud-based service, it enables universities in the respective country to manage their identities within a multi-tenant system, while also allowing users access to services provided through the global eduGAIN inter-federation. Here too, the focus is on the individual: BonafID adopts a consistently user-centred design that enables users to manage their affiliations themselves and actively control their digital identity. At the same time, organisations benefit from a flexible "Identity as a Service" solution that simplifies and secures access to digital services.

Together with the Nigerian company Datasphir, DAASI International developed this platform based on didmos. Beyond the technical implementation, the focus is on building sustainable structures: through knowledge transfer and close collaboration with partners such as WACREN and GÉANT, local expertise is developed that ensures the long-term operation and further development of such infrastructures.

# We Are Committed to RESEARCH

DAASI International originated in 2000 from research projects on X.500 and LDAP funded by the German Federal Ministry of Education and Research. These roots continue to shape the company to this day, making research participation a core element of its corporate identity.

Even as an established company, DAASI International remains continuously involved in innovative research initiatives. Immediate commercial returns are not the primary focus. Instead, the company places particular importance on engaging with emerging technologies at an early stage and maintaining close collaboration with leading experts. The knowledge gained, experience accumulated, and networks established through these activities sustainably strengthen the company's expertise.

## PROJECTS AND INTERNATIONAL COLLABORATION

Many years of experience are reflected in DAASI International's participation in numerous national and international initiatives. These include projects within the D-Grid initiative as well as activities in the fields of Digital Humanities and research infrastructures. Particularly noteworthy are the projects TextGrid and DARIAH, funded by the German Federal Ministry of Education and Research, in which internationally compatible Authentication and Authorisation Infrastructures (AAIs) were developed for digital humanities research environments.

A milestone was the company's involvement in the EU project Authentication and Authorisation for Research Collaboration (AARC). Within this framework, fundamental concepts and blueprints for modern AAIs were developed that are now widely used across research infrastructures. These approaches were further advanced, updated, and put into practice through AARC TREE, with the goal of efficiently establishing interoperable federated authentication and authorisation solutions for research infrastructures.

## COMMITMENT TO THE NFDI

Through the IAM4NFDI project, DAASI International contributes its AAI expertise to the National Research Data Infrastructure (NFDI). This established NFDI core service focuses on connecting the various disciplinary consortia in order to provide their users with federated access to both their own and cross-consortium resources.

Another NFDI activity supported by DAASI International is the development of a new core service for accounting. This involves collecting and analysing usage and access data to increase transparency, ensure fair resource allocation, improve process traceability, and strengthen the overall governance of the federated infrastructure.

## EXCHANGE, INNOVATION, AND PROMOTION OF YOUNG TALENT

DAASI International actively participates in international professional discourse and co-organises the annual TIIME Unconference. IAM experts from around the world gather there to discuss current developments, emerging technologies, and future challenges in identity and access management. This exchange provides valuable impulses for the continued development of future-oriented IAM solutions.

Finally, DAASI International conducts its own foundational research in the field of Authentication and Authorisation Infrastructures and collaborates closely with universities and higher education institutions. Supervising academic theses helps bridge research and practice while also contributing to the early recruitment of highly qualified young professionals.

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