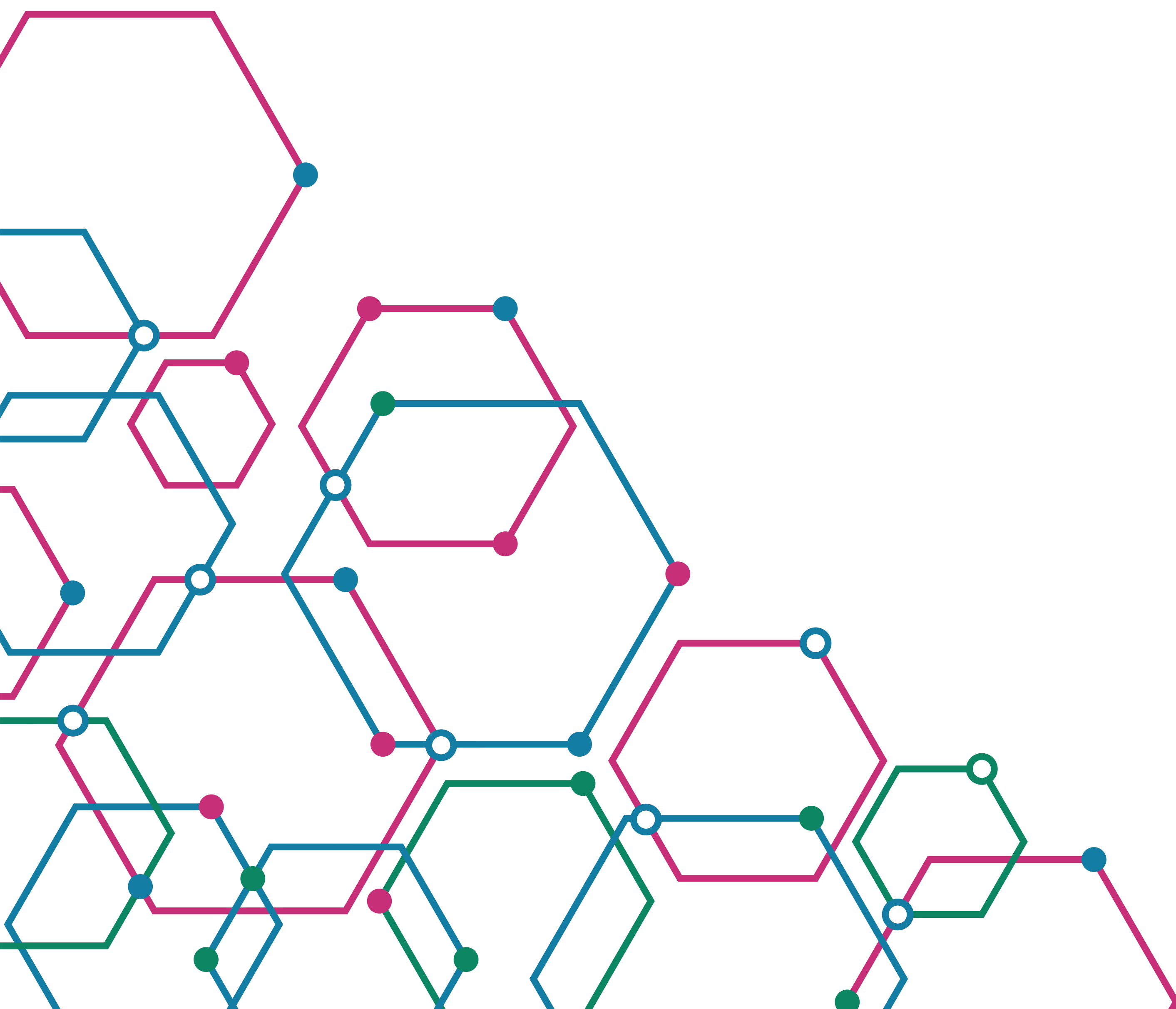


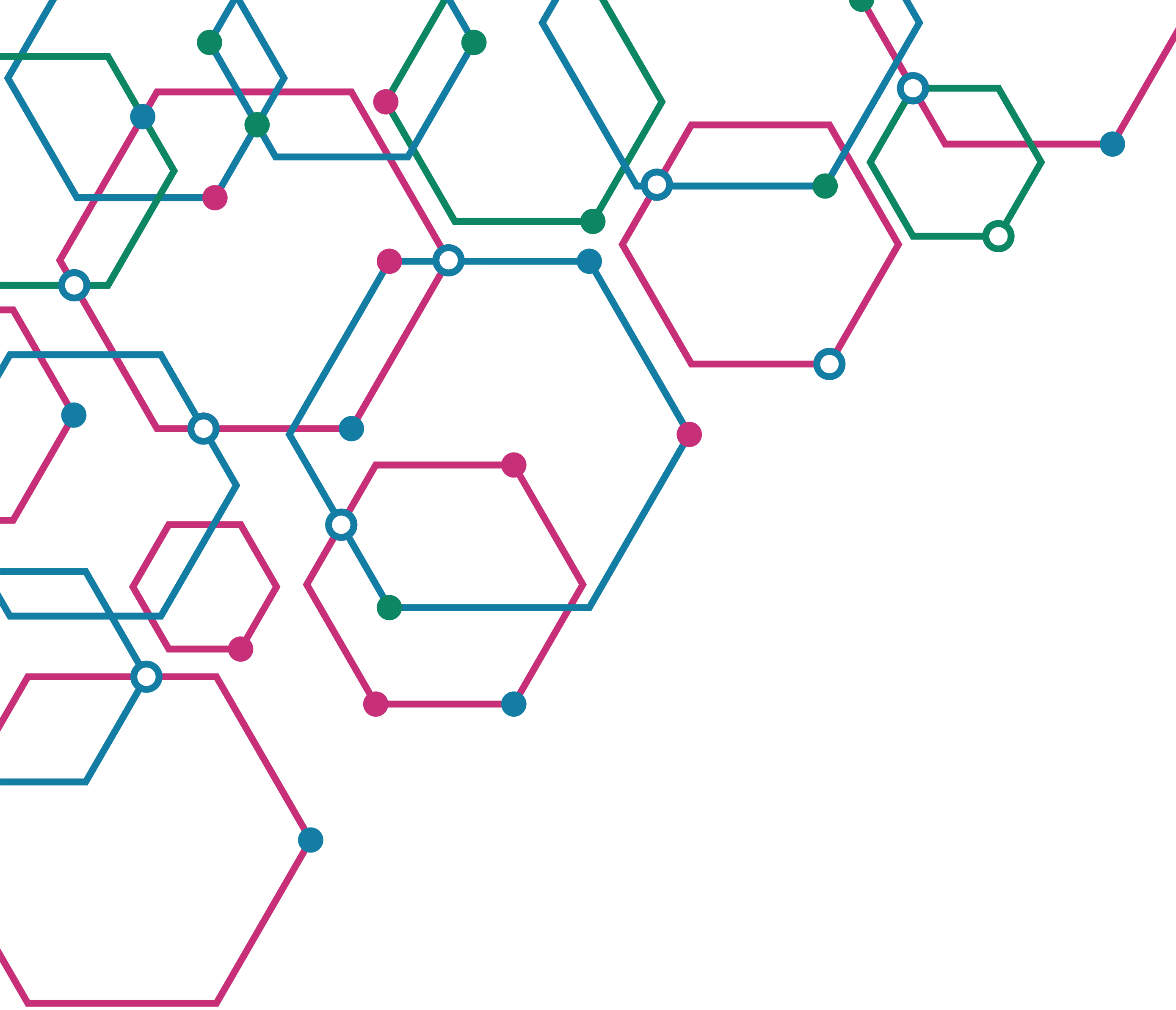
Annual Report 2024

End of Year Highlights



2024





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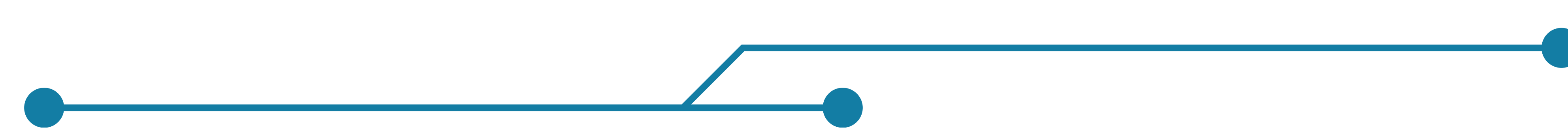
WELCOME! FROM THE OPEN PRESERVATION FOUNDATION

Reflections on 2024

Welcome to the Open Preservation Foundation's End of Year Highlights. In an era of rapid digital change, our mission to advance shared standards and solutions for the long-term preservation of digital content has never been more critical - or more challenging.

As 2024 comes to a close, we are proud to reflect on a year filled with progress, achievements, and transformation. From new developments and new staff to overcoming challenges with resilience and determination, this year has showcased the dedication and creativity of our team. In this report, we celebrate the highlights that have shaped our year, recognise the contributions of our members who made it possible, and look forward to building on this momentum in the year to come.

As we look to 2025, we aim to build on this past year's accomplishments. Our focus remains on turning your insights into action, supporting your ideas and strengthening partnerships as we look to further our goals of open, sustainable digital preservation. Join us as we share our efforts throughout the year, shaped by the dedication of our small team, the steadfast support of our community, the Board of Directors, and the trust of those who believe in the value of open source digital preservation.



PEOPLE & GOVERNANCE

From our staff and board to our members and the community, OPF is powered by its people.

STAFF

This year marks a significant transition for the Open Preservation Foundation as we bid farewell to our Executive Director, Julie Allen, who has stepped down after 3 years of dedicated leadership. Julie has been instrumental in advancing our mission, encouraging collaboration, and strengthening our position within the community. We thank Julie for their invaluable contributions and wish them every success in their future endeavours.

We are also delighted to welcome Neil Jefferies as our new Executive Director. Neil brings a wealth of experience and a fresh perspective to the OPF. We look forward to their leadership as we continue to champion open, sustainable digital preservation together.

Neil is an Innovation Specialist in Open Scholarship at the Bodleian Libraries, University of Oxford and a director of Data Futures GmbH, a not-for-profit focusing on delivering sustainable digital resources. He is a co-creator of the International Image Interoperability Framework and the Oxford Common File Layout, Community Manager for the SWORD protocol, and a member of the Bit List Council for the DPC.

“Open standards and tools are essential for ensuring that the survival of digital records and culture is not a privilege reserved for the well-resourced and that such materials remain under the stewardship and control of their respective communities”, said Neil. “I look forward to building on the excellent work of my predecessors, further developing the OPFs offerings for its membership and the wider digital preservation community.”

Read the full announcement [here](#).

BOARD OF DIRECTORS

Representatives from our members make up our Board of Directors, who direct the Foundation. In 2023 the Board of Directors provided undeniable support to the OPF team and played an active role in development. Remco van Veenendaal remains Chair of the OPF Board, as does Jeffrey van der Hoeven for the OPF NL Board.

The Board is made up of volunteers from our members. If you are interested in helping the Board shape the direction of the Foundation, reach out to get a better understanding of what's involved in the role. We will be recruiting new Board members to join the team from our Gold and Silver membership - keep an eye out for the notice in the springtime.

ABOUT THE OPEN PRESERVATION FOUNDATION

The Open Preservation Foundation is a global not-for-profit membership organisation working to advance shared standards and solutions for the long-term preservation of digital content.

Founded in 2010 as the Open Planets Foundation to steward the results of EU-funded R&D. Our set of tools (including software and standards) enables organisations to evaluate, validate, document, mitigate risk, and process digital content to be preserved in line with desired policies and community best practice.

Collaboration and sustainability remain central to our mission. Our dedicated team supports members and the wider community by delivering practical digital preservation solutions and promoting best practices that ensure enduring access to digital collections.

MEMBERSHIP

Our members are libraries, archives, solution providers, government agencies and universities from around the world.

NEW MEMBERS IN 2024

ARTEFACTUAL AS A BRONZE MEMBER

Artefactual is a professional services and commercial open source software company, designing and developing open source software with a focus on digital access and preservation. They are best known for Access to Memory (AtoM), an archival description and management system, and Archivematica, a digital preservation system. A dedicated technical contributor to the OPF since 2015, Artefactual's contribution to our work was focused on the development, maintenance and public release management of the Format Identification for Digital Objects (FIDO) software tool. FIDO is included in Archivematica, but can also be used as a stand-alone command line tool or incorporated into other digital preservation systems.

“Artefactual Systems first joined the OPF as an affiliate member in 2015. We believe the OPF is a valuable and essential resource for the cultural memory community. As a company, we have always believed in contributing to a global community of practice.

We are excited to take the next step and contribute to the OPF in a more substantive way by becoming a bronze member. Through our membership, we hope to share information, resources, and stories (agonies and successes alike), in order to realize a world where cultural memory thrives.” - Chief Archivist, Kelly Stewart.

THE SWISS FEDERAL ARCHIVES AS A SILVER MEMBER

Founded in 1798, the SFA is the oldest federal organisation in Switzerland and ensures the long-term availability of information relating to the Swiss Confederation. Migration is the SFA's primary digital preservation strategy. As this requires an active engagement with standards, issues and file format tooling, they are involved members of the community. As the main developer of the SIARD Suite (Software Independent Archiving of Relational Databases), the SFA are active in the specification and implementation of this format as they aim to make it a global standard.

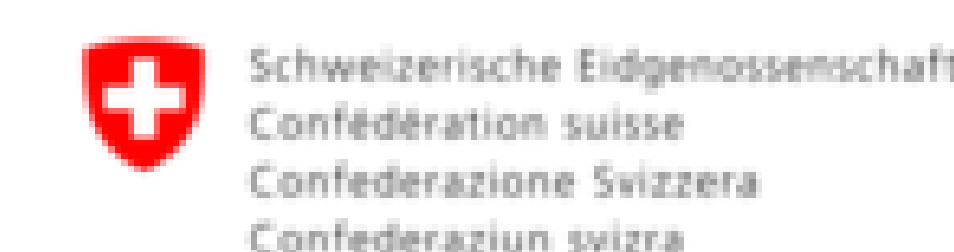
“In the past few years, we have become less restricted in working with open source software and now aim to publish the source code of all the software developed for us to share with the community,” says Silvan Auf der Maur, Digital Archiving Specialist at SFA. “The Open Preservation Foundation has profiled itself through its stewardship of important tools for digital preservation, the role it has taken on to connect various institutions, enabling the exchange of best practices and facilitating discussions on important aspects of the field, which affect all organisations active in digital preservation.”

“The small size of the field of digital preservation makes such a community of practice invaluable, and the open exchange of know-how is crucial to helping the community as a whole continue to develop and adapt to a continuously evolving technological landscape. We have been able to benefit from OPF services, such as the webinars and discussions, and we are excited to be able to participate and contribute more directly to the OPF as a member organisation.” - Stefan Kwasnitza, Deputy Director of the SFA.

NATIONAL ARCHIVES OF IRELAND AS A BRONZE MEMBER

The National Archives of Ireland (NAI) is the official repository for records of the Irish State. Their remit includes the preservation and provision of access to records from Departments of State, government agencies and private collections. Their work in digital preservation is in the early stages. As part of a wider transformation process, the NAI are developing their capacity and digital infrastructure to accommodate their collection of over 50 million records.

“The National Archives of Ireland is at the start of a digital transformation process. It is essential that we learn from colleagues across the sector in order to overcome many of the difficult challenges we face. Membership of the OPF will help us navigate current and future challenges and will form a key component of our upskilling programme.” - Niamh McDonnell, Keeper for Digital Management.



MEET OUR MEMBERS

OUR 2024 MEMBERS

- Arcsys Software
- Artefactual Systems
- Biblioteca Nacional de Portugal
- Bibliothèque nationale de France
- Bibliotheque nationale de Luxembourg
- British Library
- CSC - IT Centre for Science
- Det Kgl. Bibliotek
- Digitales Archiv Nordrhein-Westfalen
- Dual Lab - Tech Contributor
- Digital Preservation Network of the German National Subject Libraries
- Ex Libris
- Harvard Library
- International Atomic Energy Agency
- Jisc
- Kommunalförbundet Sydarkivera
- Koninklijke Bibliotheek
- Kungliga Biblioteket
- Meemoo
- Nasjonalbiblioteket
- National Archives of Ireland
- Nationaal Archief
- National Archives of the Czech Republic
- Netherlands Institute for Sound and Vision
- National Library of the Czech Republic
- Österreichische Nationalbibliothek
- Portico - Tech Contributor
- Poznańskie Centrum Superkomputerowo-Sieciowe - Tech Contributor
- Preservica
- Rahvusarhiiv
- Ravensburger AG
- Riksarkivet
- The University of North Carolina at Chapel Hill - Tech Contributor
- The National Archives, UK
- The National Archives of Ireland
- The Swiss Federal Archives
- Thieme Compliance
- United Nations High Commissioner for Refugees
- Yale University Library

NEW MEMBER BENEFITS

We put our members at the heart of what we do, and every decision we make is taken with your interests in mind. Your priorities become our priorities.

A NEW PARTNERSHIP BETWEEN BOARD BUDDIES

We are fortunate to have a dedicated Board of Directors who possess over a century of digital preservation experience combined, and who genuinely care about the outcomes of our work. The OPF staff keep the organisation ticking, and we are often closest to the needs and opinions of our members. Our Board of Directors ensure we meet expectations, deliver on our promises, and align our efforts with our new strategy.

To facilitate closer ties and dialogue between our Board of Directors and our members, each of our member organisations has been assigned a 'Board Buddy'. We intend for this to be an alternative way for our members to voice their opinions and suggestions, whilst also helping to strengthen the relationships between staff, the Board and our members. As our Board of Directors are made up of our membership we think that they will find they have much in common and can learn from each other.

QUARTERLY COFFEE MORNINGS

Our quarterly coffee mornings will be an excellent opportunity for our members to network, share knowledge, and problem-solve. Whether they're interested in new technologies, meeting someone new, digital preservation strategies, or case studies from the field, these informal sessions will offer members a relaxed space to connect.

INDIVIDUAL ASSOCIATE MEMBERSHIP (IAM OPF) INTRODUCED

As the digital preservation field evolves, the need for specialised skills in digital preservation becomes increasingly critical. Our membership has always been organisational, but we recognise the unique value that individual consultants and contractors bring to our industry and are excited to offer a membership tailored for them.

With this in mind, we are launching a trial year of our Individual Associate Membership (IAMOPF) to try and expand our community and provide a space where our members can continue to learn from the experiences of others, exchange knowledge and best practices, and discover new partners for collaboration. We offer access to our specialised resources, tailored development, networking opportunities, and prioritised support.

OPF ADVISORY GROUP - OAG

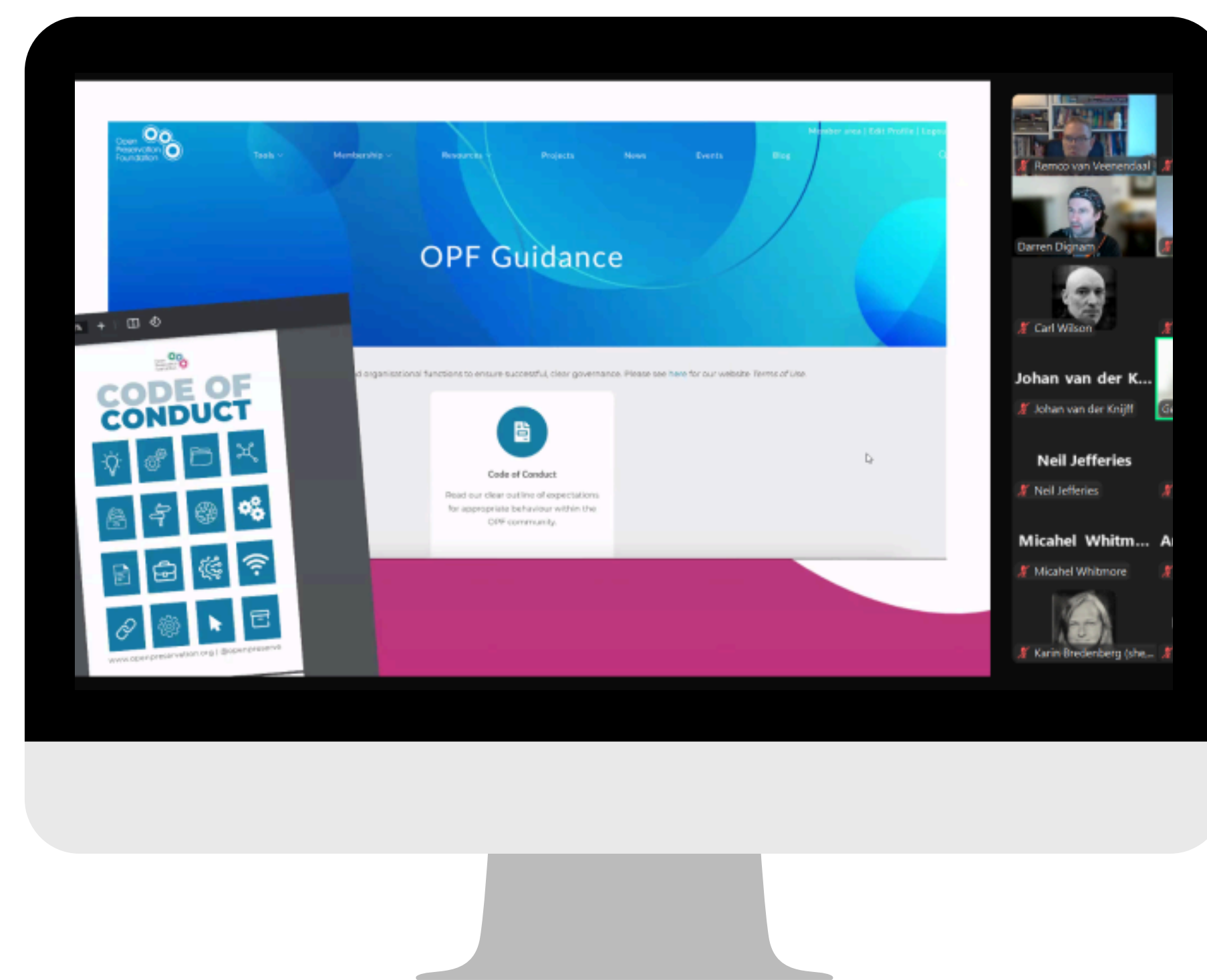
The OPF Advisory Group is a member-only forum to update you on our work and give you a greater say on the development of our tools, special interest groups, and knowledge-sharing initiatives.

The OPF Advisory Group (OAG) was established to provide a fresh focus on the development and support of our tools, as a new and more inclusive version of our old 'Product Board'. Through the OAG, we've ensured that our members' needs are effectively represented and prioritised. Its interactive format has fostered open source and tool-related discussions among our membership, which includes representatives from libraries, archives, and software providers. This collaborative approach has given us deeper insights into how our tools are utilised and perceived, as well as clearer expectations regarding release schedules and future guidance.

In January, we held our OAG virtually; feedback indicated that many of our members could not attend another in-person meeting following our event in 2023 at the Oodi National Library, Helsinki. The discussion topics throughout the event were inspired and encouraged by the common themes within our membership organisation's own institutional policy documents. The outputs from this event informed decisions the Board of Directors made at their meeting the following week, where they discussed the OPF's upcoming strategy for the next five years.

Our fifth OAG was demonstrative, where our team introduced our new Executive Director and demonstrated their project work from 2024.

The recordings, slides and minutes from our last OAG are available on our website, recordings, slides and minutes from our last AGM are available on our website (They can be found in our member area. Member login required).



STRATEGY

The Open Preservation Foundation (OPF) has published its new strategy this year, setting out the long-term direction for the organisation.

The strategy establishes the OPF's position in the digital preservation landscape and guides the tasks, tools, and projects it will address. Our mission at the Open Preservation Foundation is defined by a commitment to our core values, guiding how the organisation will operate. Our new strategy emphasises supporting and expanding our current membership, enhancing our tools, and ensuring sustainability in the digital preservation sector. It will be complemented by an annual action plan and a marketing strategy to facilitate the execution of our strategic vision.

Guided by the insights and aspirations of our members and strengthened by the dedication of our staff and Board of Directors, our new strategy embodies both the essence of who we are and the vision of who we hope to become.

As a small team with limited resources, we have to choose wisely what we can deliver. Our focus will be on innovative tools and reference workflows, roadmaps for the development of documentation, standards and software, and facilitating collaborative, inclusive knowledge-sharing opportunities. Ongoing action plans will make these efforts digestible.

We are excited to share this strategy with you; it represents a shared vision for our future, shaped by collaboration, innovation, and a commitment to open source development. This work is our promise to work together in building a stronger, more impactful Foundation. We invite you to read the strategy and join us as we bring it to life.

'We are excited to welcome this new chapter for the Foundation', explains Julie Allen, Executive Director of the OPF. 'The strategic plan has been curated by the Board of Directors following feedback from membership during our most recent Advisory Group and Annual General Meeting. We are grateful for the outcomes, and believe it underpins the wider OPF vision to provide shared solutions for effective and efficient digital preservation'.

PROJECTS & PARTNERSHIPS

We engage in projects and partnerships that align with our members' priorities and bring benefit to the digital preservation community.

VIPER

VIPER was launched last year, a shared effort with the Dutch Digital Heritage Network. An easy-to-install virtual machine running popular open source preservation tools with graphical user interfaces, ViPER version 1.2 was released officially in August of this year. Archiving digital collections requires a number of requirements—(pre-)ingest, validation, checking file type, etc. In our VRE, you can research these tools before using them in your production environment.

This release saw some major improvements to the toolset, upgrades to Debian 12 Bookworm and compatibility testing with VirtualBox 7.

The official site for ViPER is [here](#).

ODF VALIDATOR

The OpenDocument Format Validator (OPF ODF Validator), which will validate the OpenDocument Format standard version 1.3 and check compliance with spreadsheet file format policies, and can be viewed [here](#). Review the projects Github [here](#).

This project developed quickly as a result of collaboration between the Danish National Archives, The Open Preservation Foundation, the National Archives of the Netherlands, and the Estonian National Archives.

The ODF validator is currently undergoing testing by the development partners and code review/improvement by OPF. There will be an official release in early 2025. A thank you to Maria Messerschmidt from the Danish National Archives for their dedicated efforts on this project

The E-ARK Foundation is a consortium of partners working with the European Commission as part of the eArchiving Initiative to provide core specifications, software, training and knowledge. The consortium's aim is to promote the interoperability of digital archives in Europe and to help organisations and people preserve information for the long term.

Over the last 10 years, the partners of the E-ARK Project have worked together to develop and test specifications and tools for the creation and management of information packages for preservation.

OPF has been part of the E-ARK Consortium, or EU eArchiving Initiative, since 2018. This program of work for the European Commission has now been extended for another year. The OPF staff have been working on reviewing the specifications and developing the accompanying validation software, including REST validation service, as well as the communications, social media, and outreach activities.

The eArchiving Initiative also celebrated its 10th anniversary in 2024. Our Executive Director travelled to Brussels for the event on 29 May to celebrate the tenth anniversary of the first E-ARK project funded by the European Commission. The event agenda presented a variety of speakers who looked at how far we have come and also the next challenges for our digital preservation activities.

In September, the OPF announced that the Arlington PDF Model Checker powered by veraPDF was released!

Building on the great work done by the PDF Association supported by the Defence Advanced Research Projects Agency (DARPA), veraPDF has developed an open-source PDF checker based on the Arlington PDF Model. This application is separate from the veraPDF PDF/A and PDF/UA validator but comprises a very familiar package of GUI and command-line applications as well as a Docker-based REST API and online web demo.

Arlington is an invaluable resource for anyone developing or testing PDF tools.

You can learn more [on GitHub](#). The [README](#) also provides references for further reading. [Use our web demonstrator](#) to give Arlington a try.

OUR PARTNERS

Our partnerships with like-minded organisations provide a way to share expertise and coordinate efforts for the benefit of the whole community.



[Learn more about our projects and partnerships.](#)

IPRES 2024

OPF Team attendance at iPRES 2024 in Ghent

As the longest-running series of conferences on digital preservation, this conference brings together a vibrant community of experts, innovators, and practitioners from around the world to explore cutting-edge developments in digital preservation.

We are thrilled to share that the OPF team attended iPRES2024 in Ghent. This year, we were lucky enough to attend for the first time as an entire team - which offered a unique opportunity to exchange ideas, expand our learning, and meet many new faces. For the first time, we had a table at the conference which we were grateful for. This offered a centralised space for many of our members to meet, and share our vintage Planets stickers from our merch collection.

Beyond the opportunity to learn new things, the conference allowed us to engage with peers and new friends across various sectors, including academia, heritage institutions, and vendors. Networking has helped us foster new collaborations and strengthened our commitment to providing sustainable digital preservation support. A special shout out to our Marketing Officer, Helena, who stepped into an Editor in Chief role and spent the week navigating the Slack news feed with other iPRES organisers and gave all of us attendees the information we needed throughout the week.



I spent the week working as the iPRES Editor in Chief for their Slack news feed channel, with the other iPRES organisers. It was a unique opportunity to see everything going on from behind the scenes! - Helena Watson, Marketing Officer

As a team, we have returned inspired and equipped with actionable strategies that we plan to implement in our ongoing work efforts.

Carl participated in the Great Preservation Bake Off: Deserts, with a demonstration of veraPDF's Arlington based PDF validation products.

On the first day, we ran two workshops. Our first, with the Leibniz Information Centre for Science and Technology's Micky Lindlar, was 'Validation Anonymous: A JHOVE Error Message Helpspace'. Those familiar with JHOVE will know the number of error messages it reports. In this workshop, the presenters will lend their considerable JHOVE experience to help users analyse JHOVE these error messages and diagnose problems in affected files. This workshop will require pre-registration.

We then assisted the Austrian Institute of Technology's Sven Schlarb in presenting The European Commission's eArchiving Initiative: E-ARK Specifications, Validation Tools, Conformance, and Related Activities. This workshop offered demonstrations, discussions and deeply interactive explorations of related fields such as digital signatures, data spaces, and artificial intelligence.

This was my first year as a Presenter. It was exciting to experience the conference in a new light, and gave me a huge boost of confidence throughout the week knowing I'd done something new. - Georgia Moppett, Community Officer

We assisted with the Birds of a Feather discussion alongside staff from the National Archives of the Netherlands and the Leibniz Information Centre for Science and Technology, 'Gettin' SIG-y with it: a JHOVE Special Interest Group to enhance documentation and explain error messages'. This session involved those from the community who work with JHOVE or would like to incorporate it into their work.

We look forward to integrating what we have learned to better serve our community and members. Stay tuned for more updates as we roll out new initiatives inspired by these sessions.

Read the OPF team's reflections from the event in this collaborative blog. For interesting discussion points, see this blog from our Board Chair, Remco van Veenendaal, 'Z Trends at iPRES'.

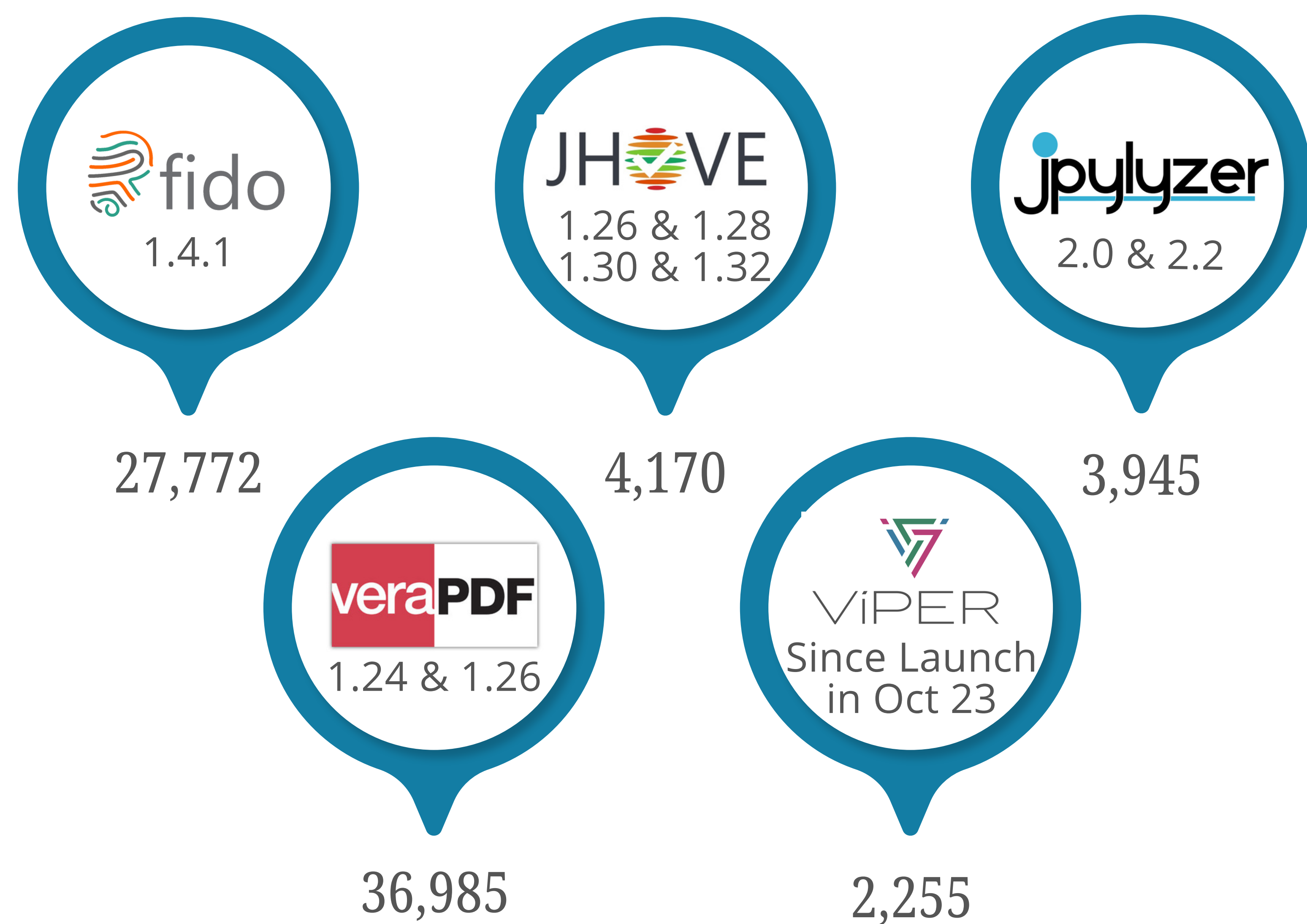
TECHNOLOGY

We maintain a portfolio of open-source tools that are popular among organisations engaged in digital preservation activities.

Each product in our [reference toolset](#) is available under an open source licence to ensure that it is accessible to anyone who needs it - whether as part of a bespoke digital preservation workflow or embedded in proprietary systems.

With more than a decade of experience developing and maintaining open source software, we champion an open source approach to empower users to understand the software and adapt it to their requirements.

2024 PRODUCT DOWNLOADS



RELEASE HIGHLIGHTS

[JHOVE](#) is an open-source file format identification, validation and characterisation tool for digital preservation and part of the [OPF reference toolset](#). [Version 1.32](#) was made available in September and saw improvements and bug fixes for error reporting in the PDF Module, and compliance with v1.0.0 of the Audio Engineering Society metadata schema. [Late November saw JHOVE 1.32.1 released for community testing](#), which included an update linking error messages to explanations.

[veraPDF version 1.26](#) was released in May. This release was made up of several PDF/UA improvements on top of veraPDF 1.26-RC2. veraPDF is an open-source PDF/A validator covering all parts of the PDF/A and PDF/UA ([Matterhorn Protocol](#) Machine failure conditions) standards.

Jpylyzer 2.2 was released in January and includes the addition of two new supported file formats! Jpylyzer is an open source validator and feature extractor for JP2 images, and part of the [OPF reference toolset](#). Thank you to [Johan van der Knijff](#) at the [Koninklijke Bibliotheek](#) for his work on this release.

KNOWLEDGE SHARING AND OUTREACH

Advancing and sharing digital preservation knowledge is a key component of our mission.



INTERNATIONAL COLLABORATION

We facilitate opportunities for discussion and practical collaboration on issues important to our members.

The International Comparison of Recommended File Formats (ICRFF) Working Group is an offspring of the AIG. The comparison was originally created by Aadi Kaljuvee at the National Archives of Estonia. The resource was further developed by former AIG member Asbjørn Skødt of the Danish National Archives when carrying out file format assessments. The group has already published an overview of recommended file formats of various organisations, which has recently undergone its annual update and now has contributions from 37 institutions worldwide.

Following feedback from our members who wanted a centralised space to connect on JHOVE-related issues, we created a special interest group. It was affectionately named 'By JHOVE! Explain Yourself!', and aims to improve documentation and understandability, enable the community to handle errors better, develop a searchable registry, improve the tool by identifying bugs, and generally help people get started. The group brings together members of the OPF and interested parties within the community interested in evolving this tool and discussing their issues with peers, built on three pillars: Errors and Warnings, Documentation, and User-Friendliness.

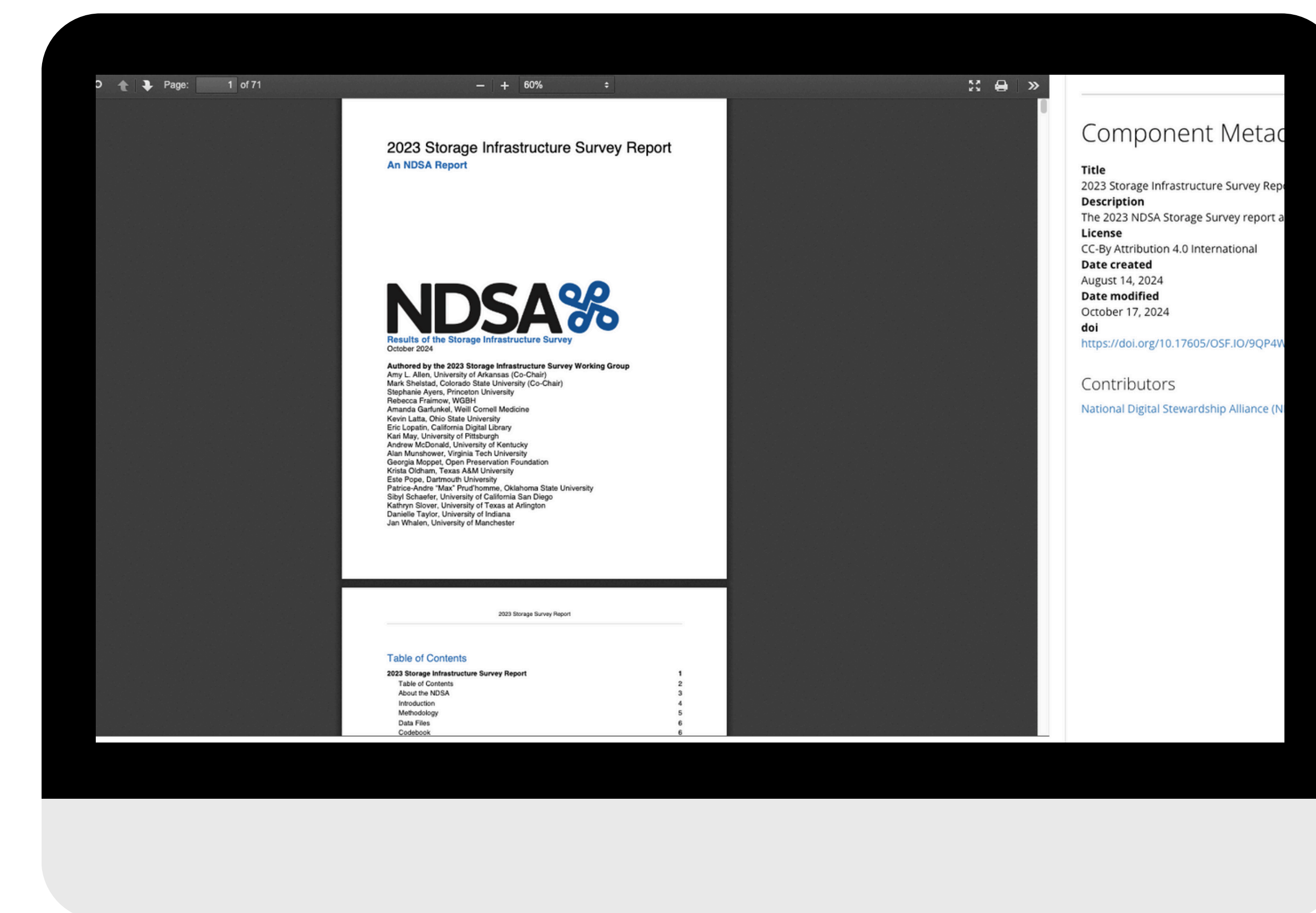
We encourage you all as members to make the most out of this community and work together to address your digital preservation challenges. Please let us know if there's anything we can do to help facilitate your ideas.

NDSA

Last year the OPF were thrilled to have become a member of the National Digital Stewardship Alliance (NDSA). We join 275 other members from universities, government and non-profit organisations. As their members are also encouraged to participate in NDSA activities, we joined two interest groups in 2023.

We worked throughout 2024 with the NDSA Storage Survey Working Group. This longitudinal survey, comprising of 51 questions designed to gather information on the technologies and practices used in preservation storage infrastructure, has been run three times. The last survey was published in 2019. The 2023 survey was published in October. The survey encouraged responses from NDSA and non-DSA members to gain a broader understanding of storage practices within the digital preservation community.

We are grateful to have been involved in this important work and appreciate the time and efforts of those involved - both author and contributor.



BECOME A MEMBER OF THE OPF

As a not-for-profit organisation, we rely on membership fees to develop our open source tools and related materials.

As a not-for-profit organisation, we rely on membership fees to develop our open source tools and related materials. As a member, you'll have access to a variety of benefits, such as helpful guidance and support, the chance to work and learn collaboratively with a network of international colleagues, and opportunities to influence product roadmaps and shape the direction of the Foundation.

However, OPF membership is about more than this: it's an opportunity to commit to the future of preservation by supporting open software and standards for the benefit of the international community.

Organisations of all types and sizes can become an OPF member and support our work. We offer different membership options, each one providing varying levels of support and opportunities to get involved.

Gold

>£50m*

£10,000 per year

Silver

£10m – £50m*

£5,000 per year

Bronze

< £10m*

£2,500 per year

* Recommended level of membership based on your organisation's annual operating budget.

www.openpreservation.org/membership

DONATE TO HELP PRESERVE DIGITAL HERITAGE

At OPF, our commitment to safeguarding digital heritage is driven by the generosity and support of individuals and organisations. Your contributions are important as they enable us to foster innovation and evolve alongside the rapidly changing technological landscape. As we work to continue maintaining access to our tools, your contributions assist us in doing so.

Every donation, regardless of size, contributes directly to our efforts to maintain, protect, and share our collective digital legacy. Your support reinforces the foundation upon which we build a bridge between the past, present, and future.

How to Donate?

- Visit [our website to make a secure online donation](#) using your credit card or PayPal.
- We welcome in-kind donations through our Technical Contributor membership scheme. Through this, you can help support our work, providing time and resources instead of paying full membership fees. This can be providing development efforts for our reference toolset, supporting maintenance efforts, or delivering OPF webinars and workshops on open source tools that are used by our members.

Your generosity is fundamental to the success of our mission. Together, help us continue to safeguard and celebrate the richness of digital heritage.

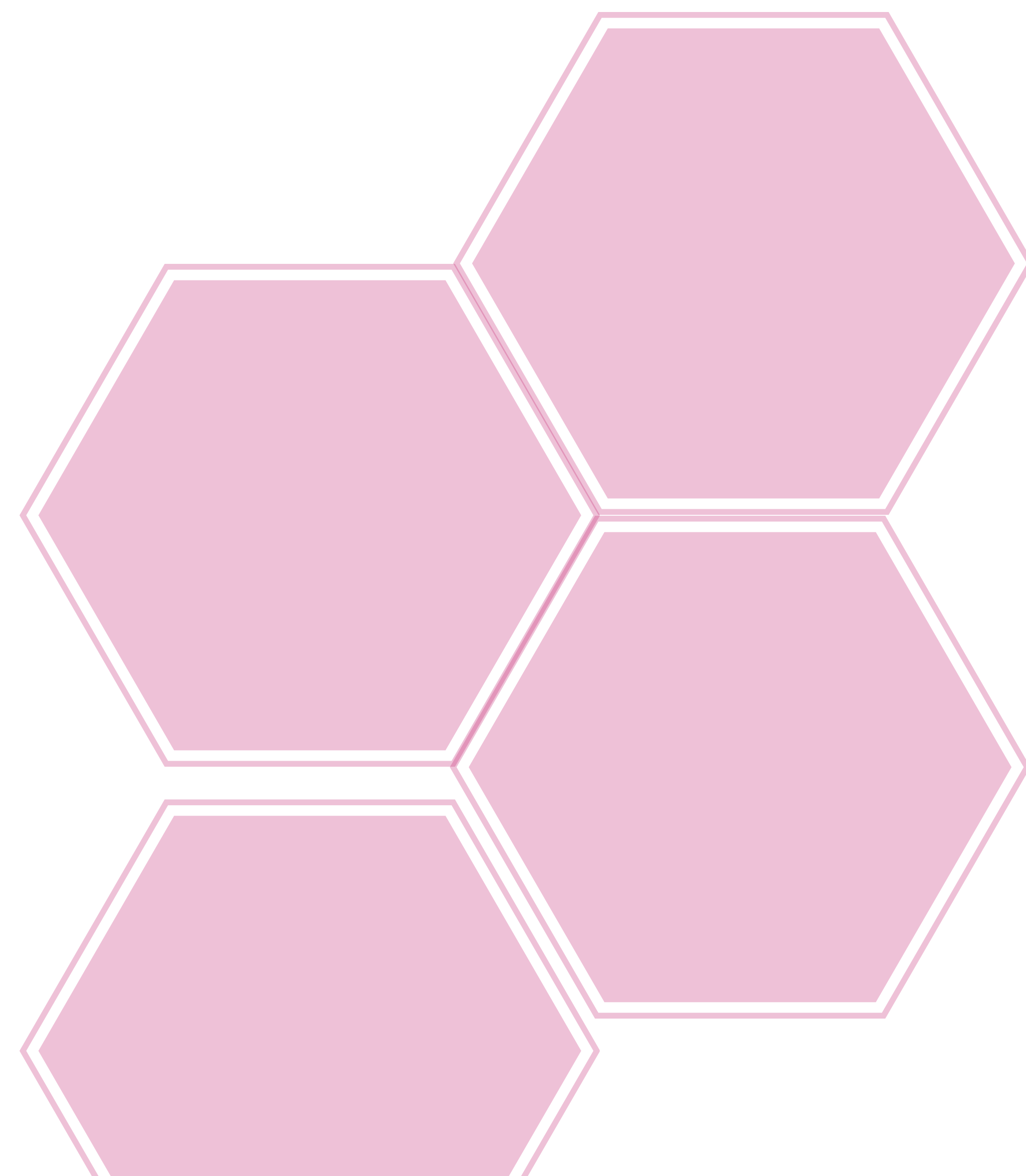
STAY IN TOUCH

Keep up to date with our latest news, software releases, events and other initiatives in 2024 and beyond.

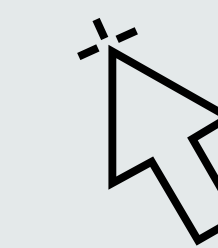
Visit the OPF website to learn more about what we are working on and to explore our resources. You can find everything you need to know about our upcoming events and activities. Follow us on [X](#) for our latest announcements, job posts, project updates and more and to get involved in upcoming social media campaigns. You can also find us on [GitHub](#) and [LinkedIn](#).

MAILING LIST AND NEWSLETTER

We maintain an active community mailing list and our newsletters bring you all of the latest information about our work, including new members, software releases, webinars and community activities. [Subscribe to our mailing list](#) to receive your seasonal updates from the OPF team!



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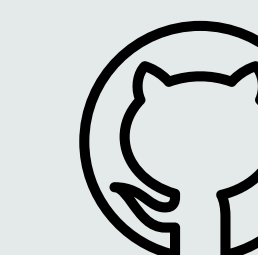
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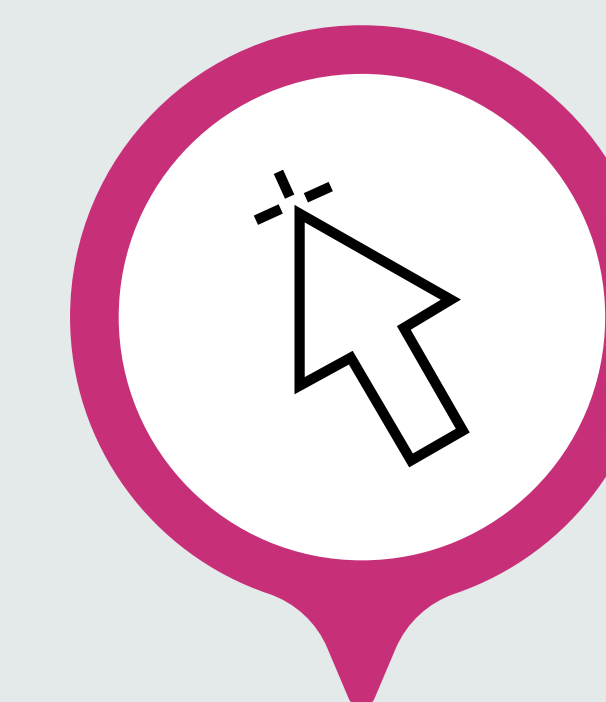
x.com/openpreserve



github.com/openpreserve



1,467
MEMBERS



80,241
VISITS



3,692
SUBSCRIBERS



2,716
FOLLOWERS