Deliverable 6.4 Report on C/D/E, community engagement, and training activities

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Abstract

This report presents and assesses the communication, dissemination, and exploitation (CDE) activities in the GraspOS project, along with the outcomes of the training courses, the engagement process and a sustainability plan for the Community of Practice.

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Abbreviation List

CDE	Communication Dissemination Exploitation
CoARA	Coalition for Advancing Research Assessment
CoP	Community of Practice
DECP	Dissemination, Exploitation and Communication Plan

DoW	Description of Work
EC	European Commission
EOSC	European Open Science Cloud
F2F	Face to Face
KPI	Key Performance Indicator
OA	Open Access
OS	Open Science
OSAF	Open Science Assessment Framework
PID	Persistent Identifier
RFO	Research Funding Organisation
RPO	Research Performing Organisation
RRA	Responsible Research Assessment
SRIA	Strategic Research and Innovation Agenda
WG	Working Group
WP	Work Package

Executive Summary

This report presents and assesses the communication, dissemination, and exploitation (CDE) activities in the GraspOS project, along with the outcomes of the training courses, the engagement process and a sustainability plan for the Community of Practice (CoP). These activities are all undertaken in the Work Package 6, divided in three tasks. The present report aims to provide an overview of the advancement of each task, the first section is therefore dedicated to CDE, the second section focuses on the CoP and the third and last section assesses the outcomes of the training.

1. Communication, Dissemination, Exploitation

This section provides an overview and assessment of the communication, dissemination, and exploitation (CDE) activities managed in Task 6.1. Actual progress is measured according to the progress planned in the Description of Work (DoW), CDE Key Performance Indicators (KPIs), and the strategy described in the Deliverable 6.1 Dissemination, Exploitation and Communication Plan[1] (DECP), used for the implementation of the day-by-day activities.

1.1 Report on communication & dissemination activities

1.1.1 Planned progress

Task 6.1 is responsible for the preparation, implementation, and update of the GraspOS DECP, identifying the target audience of the project, and tailoring the CDE strategy to reach the different targets. Specific activities in this task also include the operation of the projects' online channels (website, social media, and newsletter), and the definition of the visual identity, based on the EOSC branding.

The key target audiences of the project are recalled in Table 1. They are described extensively with examples in section 2.2 of the GraspOS DECP.

Table 1. GraspOS Stakeholder categories

6 stakeholder categories		
1	Researchers	Individuals and groups of researchers
2	RPOs and RFOs	Research performing organisations and research funders
3	Initiatives and frameworks	Research assessment experts and relevant initiatives working on reforming research assessment

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[1] DOI 10.5281/zenodo.8087078.

4	Research infrastructures	Relevant data providers, National Current Research Information System (CRIS) developers and Developers of research assessment systems at research organisations
5	Assessment experts	RRA experts and researchers, Scientometric experts and AI/data experts
6	EOSC	EOSC ecosystem

1.1.2 Actual progress

In the first year of the project, communication and dissemination activities focused on creating a digital presence for GraspOS, engaging with the identified key stakeholders, communicating on project objectives and advancements, and disseminating the first results of the project (deliverables, collaboration with relevant projects, and online training events) through dedicated channels.

The project DECP, the main output and guiding document of Task 6.1, was submitted to the European Commission (EC) in June 2023 and will be updated in June 2025 with an assessment of communication activities carried out by all partners, especially regarding their participation in external events and conferences to present the project. Internal planning and reporting files are already in use by project partners, enabling T6.1 to continuously monitor and report on these activities.

The main communication and dissemination channels of the project were developed in the first months of the project. For each channel, specific measures were set up in relation to the CDE KPIs which serve as a baseline to quantify positive evolutions or needs for improvement in the communication and dissemination strategy. The CDE KPIs are presented in Table 2., with the state of progress in June 2023, as reported in the DECP, and in December 2023 (22 December 2023, date of submission of the deliverable). The details of the activities for each channel are reported under the table.

Table 2. Actual progress: communication and dissemination KPIs.

Channel	Activity	KPI	Measure	June 2023	December 2023
Project website	main source for outputs and news	# visitors	>200 unique monthly visitors	A tracking tool will be set up in the next phase of the project.	298 unique visitors (date: 22/12/2023)

Social Media (Twitter, LinkedIn, Mastodon)	project specific social media profiles for dissemination and communication purposes, including video tutorials	# followers	> 500 Twitter followers	258 Twitter followers	475 Twitter followers (date: 22/12/2023)
Newsletter	Disseminating project-specific content and news to subscribers	# newsletters	monthly newsletter	Activity starts at M6	7 newsletters
Training tutorials	Training and co-design workshops organised by the project	# events	6 training tutorials, engaging overall 300 participants	Activity starts at M12	2 online training events, 85 participants
GraspOS webinars	2 webinars per year organised by the project	# events	6 webinars targeting 240 participants	2 webinars are in preparation	2 events (F2F), 213 participants
GraspOS final conference	1 final F2F conference	# participants	Minimum 100 participants	N/A	N/A
Participation in external events	promoting project outputs at external events	# of events with contributions from project partners	> 30 events	5 events completed, 4 in preparation	23 events completed, 2 in preparation
Scientific publications	OA journals and platforms	# publications	4 research outputs	1 peer-reviewed publication	2 peer-reviewed publications

WEBSITE, OUTPUTS AND NEWS

The main source for outputs and news is the project website (https://graspos.eu/), delivered in M3. The strategy is to gather project-related news in the dedicated section *News > Latest updates* (https://graspos.eu/news) in the form of news articles, which can then be shared on relevant channels to reach the target audiences and generate traffic on the website. For internal organisational purposes, content in this section is grouped in 4 categories.

- Raise awareness about the project
- Stakeholder consultations
- Project results
- External projects and initiatives

A total of 20 news articles were published in the first year of the project, they are linked in Table 3. below with their category.

Table 3. News articles published on project website

Category	Articles published
Awareness about the project	Updates from the project - [Project kick off meeting Athens](#) Series of interviews with GraspOS partners: GraspOS Chats - [Thanasis Vergoulis](#) - [Giulia Malaguarnera](#) - [Ludo Waltman](#) - [Janne Pölönen](#) - [Francesca Di Donato](#) Series of interviews with GraspOS pilots: Inside stories from the pilot studies - [Recognition and reward of Open Science practices in research assessment at the Copernicus Institute of Sustainable Development, Utrecht University, Netherlands](#). - [Assessing openness at National level in Finland](#) - [Assessment criteria for the Social Sciences and Humanities](#) - [Novel methods in responsible research assessment and Open Science evaluation at the University of Eastern Finland](#)
Stakeholder consultations and engagement	- [Participate in GraspOS Landscape survey on Open Science and Research Assessment](#) - [Zenodo community on Open Science and Responsible Research Engagement](#)
Project results	- [Findings from GraspOS landscape survey](#) - [GraspOS tools and services training: BIP Scholar, going beyond researcher profiles](#) - [GraspOS tools and services training: Indicators for Institutions OpenAIRE MONITOR](#)
External projects and initiatives	- [Skills4EOSC fellowship programme call](#) - [CoARA WG Towards Open Infrastructures for Responsible Research Assessment announced](#) - [University of Bologna and CNR to lead the CoARA Italian National Chapter](#) - [Roundup from the EOSC Symposium 2023](#) - [Roadmap for Open Science adopted by National Research Council](#)

In addition, the website includes a calendar of events (https://graspos.eu/press/events) on Open Science and Research Assessment which is kept up to date, promoting GraspOS events, external events in which project partners participate and relevant events for GraspOS stakeholders.

Finally, to give further visibility to project activities, consultations and outputs, a slider has been added to the homepage of the website, enabling visitors to directly go to the latest piece of information on specific topics (GraspOS outputs, Community of practice, training events).

A tracking tool (Google analytics) was installed in November 2023, enabling us to monitor the number of unique visitors on the website from that date onwards. The aim is to reach 200 unique visitors per month, Table 4. below reports the numbers per month, starting from the day the tracking tool was installed (23 November 2023). This table will be updated monthly so as to reflect the expected increase in visitors when this deliverable is updated in M34.

Table 4. Website monthly unique visitors per month

Month	Website unique visitors
November 2023 (period 23-30/11/2023)	102
December 2023 (period 01-22/12/2023)	298

Meeting the monthly number of visitors KPI demonstrates that the strategy to publish news and outputs on the website and to share them towards various channels is indeed effective to bring traffic to the website. We also encourage partners to share the content published on the website through their institutional and personal channels so as to amplify our reach.

SOCIAL MEDIA PROFILES

The project maintains an online presence on three social media platforms (X (ex-Twitter), Mastodon, LinkedIn) to reach and engage with its audiences. Social media is also the most used channel by project partners to share information from the project towards external stakeholders, therefore amplifying our reach.

As described in the DECP, the objectives of the social media strategy include raising awareness about the project's concept and goals, informing stakeholders, and expanding the project's reach. Community building is also a key focus: To that extent, we leverage social media to enhance outreach, engagement, and to foster collaborations through information exchange. Finally, as stated before, increasing visibility and driving traffic to the GraspOS website are important components of the strategy.

The KPI measure is the number of followers on X (ex-Twitter) which grew from 258 in June 2023 to 475 in December 2023, nearly meeting the set objective of 500 X (ex-Twitter) followers by the end of the project, in December 2025. We also monitor the evolution of the number of followers on the other two social media platforms, detailed by channel below.

X (ex-Twitter)

Figure 1. GraspOS Twitter account

Creation: January 2023

URL: https://twitter.com/GraspOS_project

User name: @GraspOS_project

Display name: GraspOS

Number of followers: 475

Number of posts, including reposts: 311

Number of original posts: 86

As of 22 December 2023, we have published or reposted 311 tweets on X (ex-Twitter) and published a total of 86 original posts. X (ex-Twitter) analytics are retrieved monthly for internal purposes, thereby assessing the number of retweets and engagement rate with our posts. The availability of certain measures has been discontinued in May 2023 (number of new followers for a given period, top tweet, top mention, top follower): we therefore do not monitor them anymore.

LinkedIn group

Creation: January 2023
URL: https://www.linkedin.com/groups/9303131/
Name: GraspOS
Number of members: 81
Number of organic posts: 20

Figure 2. Number of members in LinkedIn group

Jan 1, 2023 - Dec 22, 2023 ▾

Growth highlights ⊚

81
Total members

1,806
Active members
●**0%** past 7 days
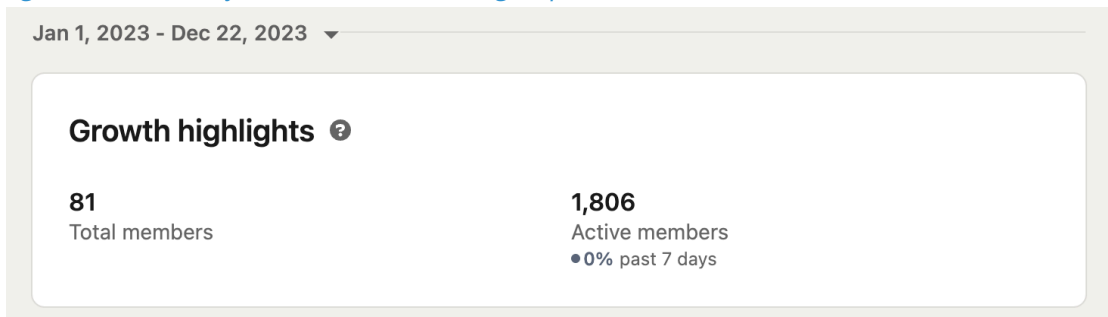
Figure 3. Number of posts in LinkedIn group

Jan 1, 2023 - Dec 22, 2023 ▾

Engagement highlights ⊚

20
Posts
▲**5%** past 7 days

8,875
Post views
▲**1%** past 7 days
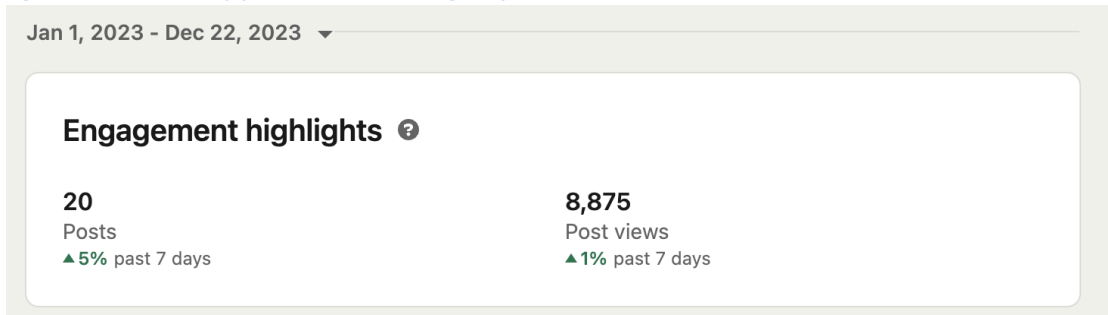
As of 22 December 2023, the LinkedIn group counts 81 members; 20 posts have been published since the group was created. The only analytics available for the LinkedIn group are the ones in Figure 2 and 3.

Mastodon

Figure 4. GraspOS Mastodon account

Creation: May 2023

URL: https://scicomm.xyz/@graspos

User name: @graspos@scicomm.xyz

Display name: GraspOS

Number of followers: 182

Number of posts, including reposts: 126

Number of original posts: 60
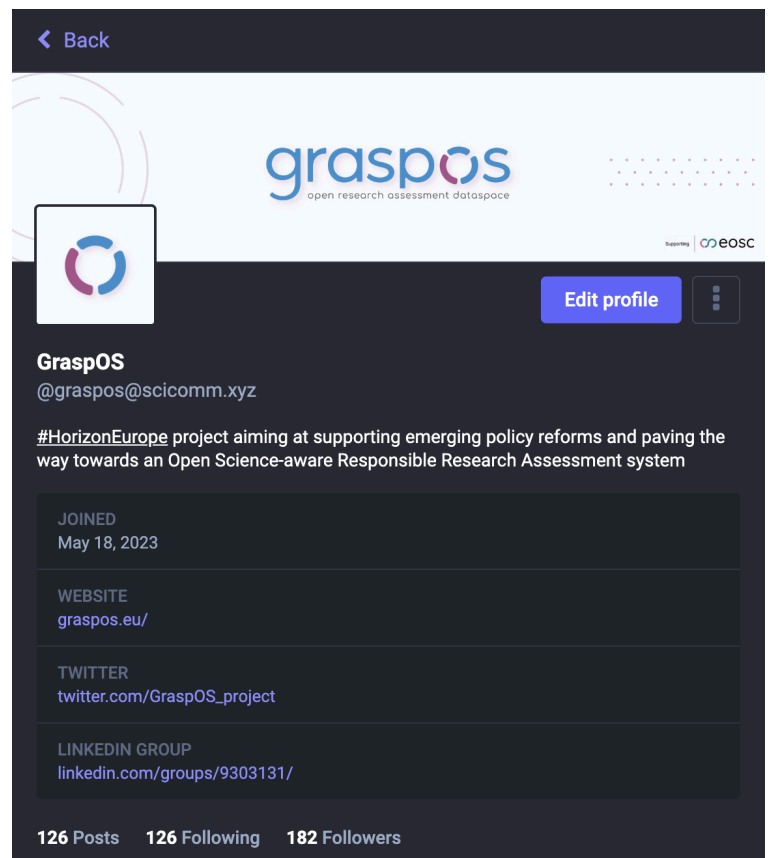
As of December 2023, a total of 126 posts were posted or shared on Mastodon, 60 of which were original posts.

It should be noted that contrary to our expectations, the number of X (ex-Twitter) followers continuously increased, observing steady engagement from our audiences, while interactions on Mastodon sharply decreased in the past six months, despite our plans to engage with researchers who had fled X (ex-Twitter). The LinkedIn group benefited from being opened publicly in July 2023, and saw its number of followers double in the last six months.

NEWSLETTERS

The newsletter started in June 2023, a total of 7 Newsletters were sent. The newsletter is sent to subscribers using Mailchimp (https://mailchimp.com) and the link is shared on the project website in a dedicated section News > Newsletter (https://graspos.eu/newsletters) and across social media channels to maximise outreach. Using Mailchimp enables us to track the evolution of subscribers which reached 76 in December, as reported in Table 5. below.

Table 5. Number of subscribers to the GraspOS newsletter

Newsletter number	Month	Number of subscribers
1	June	6
2	July	26
3	August	36
4	September	45
5	October	59
6	November	68
7	December	76

TRAINING TUTORIALS

The start of the training activity on GraspOS tools and services was anticipated to start in November 2023. The training series is primarily targeted at Work Package 5 pilots[2], to help them become familiar with the GraspOS tools and services, and to participate in co-creating these services to match their needs. The training events are also opened to the public to enable external stakeholders to take part.

Two GraspOS training events were held, and the promotion and dissemination of the event was coordinated between members of Task 6.3 and Task 6.1 so as to ensure maximum participation. Communication and dissemination of the training takes place in various instances: before the event to encourage interested stakeholders to register, and after the

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[2] GraspOS pilots represent three types of Open Science enabled research assessment: (1) funding agencies and national stakeholders who are operating infrastructure and use for evaluation of funding, (2) universities, including departments and research groups, interested in recruiting and assessment, and (3) thematic disciplines who can set general assessment criteria based on infrastructure and discipline needs. https://graspos.eu/case-studies

event to make the materials openly available on Zenodo. The information linked to the training KPI is reported in Table 6. below. Further detail on this specific activity, carried out within Task 6.3, is provided in Section 3.

Table 6. GraspOS training events

Title and DOI of the training	Date	Number of participants / number of registrations
BIP! Scholar, going beyond researcher profiles DOI: 10.5281/zenodo.10067214	02/11/2023	50 participants / 70 registrations
Indicators for Institution - OpenAIRE MONITOR DOI: 10.5281/zenodo.10406679	19/12/2023	35 participants / 78 registrations

GRASPOS EVENTS

The GraspOS webinars were substituted by two externally organised events, the Open Science FAIR and STI conferences in September 2023. This decision was justified by the presence of GraspOS in these two major events. The details of both events are provided in Table 7. below.

Table 7. GraspOS events

Event	Date	Number of participants	Links
"Research(er) evaluation at the interface of open science and responsible research assessment" GraspOS special session at the STI 2023 Conference in Leiden, Netherlands.	28/09/2023	50	Conference website: https://www.sti2023.org/ Presentation: https://zenodo.org/records/8424591
"Monitoring Open Science in the context of incentives and rewards for Open Science". Joint workshop between GraspOS, OPUS, and PathOS projects at the Open Science FAIR 2023 in Madrid, Spain.	25/09/2023	163	Conference website: https://www.opensciencefair.eu/workshops/reforming-research-assessment-to-incentivise-and-reward-open-science Presentation: https://zenodo.org/records/10000922

PARTICIPATION IN EXTERNAL EVENTS

Project partners presented the projects and its results in 23 external events, including international conferences, national workshops and organisation meetings, addressing topics related to research careers and incentives, research assessment and Open Science, as well as the EOSC, thereby also following how the landscape is developing. Each event was promoted through GraspOS communication channels and the presentations are made openly available after the event, if possible in the Open Science and Responsible Research Assessment Community curated by GraspOS on Zenodo (https://zenodo.org/communities/open_science_rra/). The presentations are listed in Table 8. below.

Table 8. Participation in external events to present the projects and its results

Type of event and title of contribution	Date	Link to the presentation (when applicable)
International event: MCAA Annual Conference 2023 - Parallel session: "Translating research assessment into practice".	25/02/2023	https://next.brella.io/events/mcaa/schedule/480742
Virtual event: Indicators for Open Research. Aim: present the project.	15/03/2023	https://doi.org/10.5281/zenodo.7752573
Virtual event: Open Science Retreat - Reform on Research Assessment in the context of Open Science. Two GraspOS partners took part in the event, no presentations were made.	21-22/03/2023	N/A
Organisation meeting: EOSC Association 6th General Assembly	22-23/05/2023	N/A
Organisation meeting: Spring 2023 euroCRIS Membership meeting. Presentation on responsible research assessment principles for research information management. Aim: present Research.fi and the activities planned in the corresponding Pilot.	31/05/2023 - 01/06/2023	https://meeting.eurocris.org/CSC2.pdf
International event: Extended Semantic Web Conference 2023. Joint contribution to the event between GraspOS and Sci Lake projects: "Piloting topic-aware research impact assessment features in BIP! Services".	28/05/2023 - 01/06/2023	https://zenodo.org/record/7984968#.ZHdarexBzPY
National event: ITAEOSC-2023 Italian Tripartite Assembly for the EOSC National event (poster).	05/06/2023	https://zenodo.org/record/8099022
Organisation meeting: ACM Publication Board Meeting.	07/06/2023	N/A
Organisation meeting: Coordination meeting for EOSC-related projects.	15-16/06/2023	N/A
International event: EGI Conference (poster).	19-23/06/2023	https://zenodo.org/record/8116350
International event: International Society of Scientometrics and Informetrics Conference 2023. Joint tutorial between GraspOS, Sci	02/07/2023	https://zenodo.org/record/8154556

Lake and OpenAIRE NExus projects "Transitioning towards Open Scientometrics with Open Science Graphs".		
International event: Communication of Science and Literature in the multiverse.	05/07/2023	https://zenodo.org/record/8180518
National event: "GraspOS - monimuotoisuutta tutkimuksen arviointiin".	28/08/2023	https://zenodo.org/records/10101485
International event: OAI13 conference - "A case study: OpenCitations, an open science infrastructure seeking long-term sustainability"	05/09/2023	https://zenodo.org/record/8389945
International event: EOSC Symposium 2023. "EOSC contributions to Research Assessment".	21/09/2023	https://zenodo.org/records/10001016
International event: STI 2023 Conference. "Implement evaluation reform".	28/09/2023	https://zenodo.org/record/8422634
Virtual event: FAIR-IMPACT Roadshow. "Research Assessment and Open Science practices in Serbia".	10/10/2023	https://zenodo.org/records/10101845
Organisation meeting: RAiD advisory group meeting.	20/10/2023	https://zenodo.org/records/10374861
International event: 19th European Computer Science Summit. "Evaluation in Informatics".	25/10/2023	https://zenodo.org/records/10048099
National event: GenOA Week. "Engaging with research communities to advance research assessment: the case of GraspOS"	23/10/2023	https://zenodo.org/records/10036386
International event: Workshop on Open Citations and Open Scholarly Metadata 2023. "BIP! Services: Demonstrating the Potential of Open Scholarly Data in Research Assessment".	27/10/2023	https://zenodo.org/records/10046470
Organisation meeting: EOSC Association 7th General Assembly	21/11/2023	N/A
International event: EuroCRIS strategic meeting	23/11/2023	https://meeting.eurocris.org/assets/img/Analysis-software-infrastructures-DIvanovic.pdf

Scientific publications

Two scientific publications were accepted this year, the details are provided in Table 9. A dedicated section of the website (https://graspos.eu/publications) gathers peer-reviewed publications produced by project partners.

Table 9. GraspOS scientific publications

Title	Authors	Title of Journal or equivalent	Month and year of publication	PID (publisher version of the record)	PID of deposited publication
Piloting topic-aware research impact assessment features in BIP! Services	Serafeim Chatzopoulos, Kleanthis Vichos, Ilias Kanellos, Thanasis Vergoulis	ESWC (Proceedings in Springer)	October 2023	https://doi.org/10.1007/978-3-031-43458-7_15	https://arxiv.org/abs/2305.06047
BIP! NDR (NoDoiRefs): A Dataset of Citations From Papers Without DOIs in Computer Science Conferences and Workshops	Paris Koloveas, Serafeim Chatzopoulos, Christos Tryfonopoulos, Thanasis Vergoulis	TPDL (Proceedings)	September 2023	https://link.springer.com/chapter/10.1007/978-3-031-43849-3_9	https://arxiv.org/abs/2307.12794

OTHER RELEVANT ACTIVITIES

Participation in the EOSC-A WG on Communication and Engagement for Horizon Europe INFRAEOSC projects through monthly calls is ongoing.

1.2 Report on exploitation

The exploitation plan for the GraspOS project outlines a strategic approach to integrate and maximise the impact of the identified tools and services. During this first year, the exploitation considered three paths: (i) exploitation via the project's pilots of the current use of the services and tools that GraspOS aims to substitute and/or enrich; (ii) the technical-level exploitation of services with a landscape analysis; and (iii) exploitation with external stakeholders who are working to change the research culture towards a responsible research assessment (RRA). The next paragraphs summarise the current findings.

1.2.1 Exploitation via Project Pilots

METHODOLOGY

A state-of-art was resumed in the pilot analysis summary made by WP5 and published as Deliverable 5.1[3] and further exploited in the face-to-face (F2F) project meeting in November 2023 (M11). The pilots were asked to conduct a self-analysis based on a template, which included three sections: one for pilots' local circumstances, one for evaluation context, and one for pilot ambitions. The template included supporting questions for each section to help elucidate which kinds of issues could be discussed under each heading. In the F2F meeting, the pilots were asked to discuss the values and the mission they want to pursue in the GraspOS project to enable a more OS-aware RRA.

EXPLOITATION OF THE GRASPOS TOOLS AND SERVICES

As part of the self-assessment, the pilots identified the potential relevance of the services included in the project and described in the GraspOS architecture (Deliverable 4.1[4]). Briefly, the pilots are grouped into three categories: national, research performing organisations, and thematic. National pilots: Research.fi (Finland), UEFISCDI (Romania); research performing organisations pilots: National Research Council Italy (CNR), University of Belgrade (U.Belgrade), University of Eastern Finland (UEF), Utrecht University (UU); thematic pilots: Computer Science (INRIA, UniBO, ATHENA); Agricultural and veterinary sciences (INRAE); Social Science and Humanities (Operas). Some pilots were not able to identify relevant tools for them at this early stage of the project. The following is a table published in the Deliverable 5.1.

Table 10. Relevance of the GraspOS tools and services.

GraspOS service: Enrichment of research outputs with missing attributes	
Component	**Potentially relevant for the pilots**
OpenAIRE Broker *Licence: AGPL* *TRL (start/end): 9/9* *Partners: OpenAIRE, CNR*	*INRAE* *Research.fi* *U. Belgrade*
OpenAIRE IIS text mining modules *Licence: AGPL* *TRL (start/end): 9/9* *Partners: OpenAIRE, ARC*	*U. Belgrade*

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[3] DOI 10.5281/zenodo.8304450.

[4] DOI 10.5281/zenodo.8302197.

OpenAIRE Metadata Validator *Licence: AGPL* *TRL (start/end): 7/9* *Partners: OpenAIRE*	*Research.fi* *U. Belgrade*
SCRE Pipeline *Licence: AGPL* *TRL (start/end): 9/9* *Partners: OPERAS*	*INRAE*

GraspOS service: Enrichment of research output links

Component	Potential relevance for pilots
Semantic Citation Classifier *Licence: MIT* *TRL (start/end): 4/7* *Partner: UNIBO*	*INRAE* *U. Belgrade*
BIP! citation classifier *Licence: GNU/GPL* *TRL (start/end): 3/7* *Partner: ARC*	*INRAE* *U. Belgrade* *UEF*

GraspOS service: Enrichment of research outputs with novel metrics

Component	Potential relevance for pilots
EC KIP OS indicators *Licence: GNU/GPL* *TRL: (start/end): 6/9* *Partner: ARC*	*UEF* *UEFISCDI*
BIP! Services (Toolbox) *Licence: GNU/GPL* *TRL (start/end): 9/9* *Partner: ARC*	*INRAE* *CNR* *Research.fi* *U. Belgrade* *UEF* *UEFISCDI*

GraspOS service: Enrichment of research outputs with usage data

Component	Potential relevance for pilots
EOSC accounting for service*s* *Licence: Apache* *TRL (start/end): 5/7* *Partner: GRNET*	*U. Belgrade*

UsageCounts *Licence: AGPL* *TRL (start/end): 9/9* *Partner: OpenAIRE*	*INRAE* *CNR* *U. Belgrade* *UEFISCDI*
OPERAS Metrics *Licence: MIT* *TRL (start/end): 7/9* *Partner: OPERAS*	*CNR* *U. Belgrade*

GraspOS service: OS Institutional Dashboard

Component	**Potential relevance for pilots**
OpenAIRE Institutional Monitor Dashboard *Licence: AGPL* *TRL (start/end): 9/9* *Partner: OpenAIRE*	*INRAE* *CNR* *U. Belgrade*

GraspOS service: EOSC OS Researcher Dashboard

Component	**Potential relevance for pilots**
BIP! Scholar *Licence: GNU/GPL* *TRL (start/end): 7/9* *Partner: ARC*	*INRAE* *CNR* *Research.fi* *UEF* *UEFISCDI*

GraspOS resource: Scholarly resources

Resource	**Potential relevance for pilots**
OpenAIRE Graph *Partner: OpenAIRE*	*Research.fi* *U. Belgrade*
OpenCitations *Partner: UNIBO*	*Research.fi*
Scholexplorer *Partner: OpenAIRE*	*Research.fi* *U. Belgrade*
BIP! DB *Partner: ARC*	*Research.fi* *UEF*
OpenAIRE Usage Counts *Partner: OpenAIRE*	*U. Belgrade*

OPERAS Metrics *Partners: OPERAS*	
FAIRCORE4EOSC RAiD *Partners: CWTS, OpenAIRE, CSC*	*INRAE* *Research.fi*

1.2.2 Exploitation from the Services point of view

TOOLS AND SERVICES LANDSCAPE REPORT

In a previous report in the Deliverable 3.1[5], we identified the tools and the services that are used in the context of the research assessment. They are summarised in the table below. This overview is fundamental in the exploitation of the use of the services and tools that are part of the Architecture of GraspOS.

Table 11. Tools and services used in research assessment

Name	URL
Academia	https://www.academia.edu/
Altmetric	https://www.altmetric.com/
Aminer	https://www.aminer.org/
Anystyle	https://github.com/inukshuk/anystyle-cli
BIP! citation classifier (and NDR)	https://zenodo.org/record/8163673
BIP! DB	https://doi.org/10.5281/zenodo.4386934
BIP! Scholar	https://bip.imsi.athenarc.gr/scholar
BIP! Services (Ranker)	https://bip.imsi.athenarc.gr/
CERMINE	http://cermine.ceon.pl/index.html

DataCite (and the PID Graph)	https://datacite.org/index.html
Dimensions	https://www.dimensions.ai
Dutch Open Science Dashboard	https://bi-poc.dataverse.tk/superset/dashboard/6/
EC KIP OS indicators	N/A
EOSC accounting for services	https://accounting.eosc-portal.eu/
EOSC Observatory	https://eoscobservatory.eosc-portal.eu/
Europe PMC	https://europepmc.org/
EXCITE and OUTCITE	https://excite.informatik.uni-stuttgart.de/
Exparser	https://github.com/exciteproject/Exparser
FAIRshake	https://fairshake.cloud/
French open science monitor	https://frenchopensciencemonitor.esr.gouv.fr/
FRIS (Organisations)	https://researchportal.be/en
FRIS (Researchers)	https://researchportal.be/en
F-UJI	https://www.f-uji.net/
Google Scholar (profiles)	https://scholar.google.com/
GoTriple Platform	https://gotriple.eu/
GROBID	https://github.com/kermitt2/grobid
In4M (by The Lens)	https://research.fi/en/results/organizations
Kudos	https://www.growkudos.com/
Lens Profiles	https://www.lens.org/lens/profiles
Microsoft Academic Graph (MAG)	https://www.microsoft.com/en-us/research/project/microsoft-academic-graph/
OA Monitor DE	https://open-access-monitor.de/
Open Science Observatory	https://osobservatory.openaire.eu

OpenAIRE Broker	http://provide.openaire.eu/
OpenAIRE Graph	https://graph.openaire.eu/
OpenAIRE IIS text mining modules	https://github.com/openaire/iis
OpenAIRE Metadata Validator	https://catalogue.openaire.eu/service/openaire.validator/overview
OpenAIRE MONITOR	https://monitor.openaire.eu/
OpenAIRE UsageCounts	https://usagecounts.openaire.eu/
OpenAlex	https://openalex.org
OpenAlex (profiles)	https://explore.openalex.org/
OpenCitations (data)	https://opencitations.net/
OPERAS Metrics	https://metrics.operas-eu.org/
ORCID	https://orcid.org/
ORCID DE Monitor	https://monitor.orcid-de.org/en/index.php
PDFSSA4MET	https://github.com/eliask/pdfssa4met
PlumX Metrics	https://plumanalytics.com/
Rescognito	https://rescognito.com/
Research.fi (Organisations)	https://research.fi/en/results/organizations
Research.fi (Researchers Profile)	https://research.fi/en/mydata
ResearchGate	https://www.researchgate.net/
Scholarcy	https://article-summarizer.scholarcy.com/
ScholeXplorer	https://scholexplorer.openaire.eu/
SciCite	https://github.com/allenai/scicite/

SciCite dataset	https://allenai.org/data/scicite
Science Parse	https://github.com/allenai/science-parse
SciNoBo	N/A
Scite	https://scite.ai
Scopus	https://www.elsevier.com/en-in/solutions/scopus
SCRE Pipeline	https://project.gotriple.eu/
Semantic Citation Classifier	N/A
Semantic Scholar (Academic Graph)	https://www.semanticscholar.org/
Semantic Scholar (author pages)	https://www.semanticscholar.org/
The Lens	https://www.lens.org/
Web of Science (Author Profiles)	https://www.webofscience.com/wos/author/search
Web of Science (Core Collection DB)	https://www.webofscience.com/wos/woscc/basic-search

EXPLOITATION FOR THE GRASPOS SERVICES

The GraspOS services and tools can be used differently by each stakeholder group when performing analysis for research assessment. In the exploitation for the services, the WP3 and WP4 have classified in categories and subcategories the components of GraspOS, identifying for which stakeholder the data provided can be further exploited for the use in a RRA environment. The main services that have a user interface such as BIP!Scholar, OpenAIRE Monitor, Open Science Observatory, and EOSC Observatory have the most clear target (researchers, RPOs, RFOs, and policymakers).

Table 12. Identified categories for tools and services

Scholarly data enrichment services	
Enrichment of research-related entities with missing attributes	Services to support the enrichment of scholarly (meta)data records related to research outputs and other research-related entities (e.g., institutions, researchers) with missing metadata that can be valuable in the context of supporting OS-aware RRA processes.

Enrichment of research-related entities with research assessment indicators	Services to enrich scholarly (meta)data records related to research outputs and other research-related entities (e.g., institutions, researchers) with a variety of metrics and indicators that capture (a) the uptake and impact of research outputs from different perspectives, (b) their usage (e.g., article views/downloads, accounting data of research services), (c) open science uptake, and (d) other types of scientific merit.
Enrichment of scholarly data with missing links and link semantics	Services to identify missing links between (meta)scholarly data records (e.g., authorship links, citations, affiliation links), but also missing semantics of existing links (e.g., contribution roles for authorship links, citation intent).
OS monitoring services	
OS monitoring for researchers	Services that provide metrics, indicators, information, and evidence, as well as intuitive visualisations to facilitate the OS-aware responsible assessment of researchers (individuals and groups).
OS monitoring for institutions	Services that support metrics, indicators, information, and evidence, as well as visualisations that can facilitate the implementation of the OS-aware RRA approaches at institutional and funder levels.
OS monitoring for countries	Services that provide comprehensive metrics, indicators, and visualisations to facilitate the implementation of OS-aware RRA strategies at the national level.
Data services	
Scholarly data resources	Curated collections of structured information about scholarly knowledge or datasets that are specifically intended for academic research and analysis purposes.

EXPLOITATION PLAN FOR SELECTED GRASPOS SERVICES AND TOOLS

A concise overview of tools or services, their intended beneficiaries, and how stakeholders can use them within the context of the GraspOS project is provided here. It also addresses potential collaborations and highlights on the ongoing training events, which are key elements of an exploitation plan. A proactive approach in the exploitation activities like training, webinars, and meetings, aims to refine and optimise the tools and services throughout the project, by outlining the potential use and benefits of each tool/service within the project. The list in Table 14. regards the initial exploitation of the alpha release of GraspOS and

components, but the exploitation will be further investigated with the maturity of the project for the other services and tools.

Table 13. Initial exploitation of service and tools in GraspOS.

Service	Beneficiaries	Explanation
Operas Metrics	OA publishers, University Press, Libraries	Enhances data exchange between OA publishers and users, improving visibility of access and usage.
OpenAIRE Broker	Researchers, developers, institutes, funders	Allows institutes managing repositories to register on provide.openaire.eu, aggregating their content. The broker service provides access to enriched metadata in the OpenAIRE Graph.
OpenAIRE Graph	Researchers, institutes developers, funders and policymakers	A research database collecting PIDs from trusted and open research resources and registries. The OpenAIRE Graph will be enriched and implemented for the GraspOS project with the services and tools as described in the D3.1 and 4.1.
IIS-Text Mining	Content Providers, Researchers, Research Communities, Research Infrastructure Managers, Research Managers, Research Organisations, Innovators, Funders & policy makers	All GraspOS pilots could potentially benefit. Modules enrich OpenAIRE's Graph, enhancing community dashboards and metrics. Potential collaboration with other GraspOS tools for mutual benefits.
Metadata Validator	Institutions, Repositories, CRIS Systems, Open Access Journals	Supports FAIR principles, ensuring compatibility with OpenAIRE Guidelines. Potential benefits for GraspOS pilots in ensuring FAIRness. Collaboration possibilities with other tools for improvements.
OpenAIRE Monitor	RPOs, RFOs, Researchers Communities and Infrastructure (Thematic/ Consortia of RPOs)	RPOs and RFOs can gain insights into research impact. Valuable for diverse GraspOS pilots in Open

		Science Monitoring. Potential collaboration with other tools for enhanced metrics.
Open Citation and Semantic Citation	Researchers, Small Publishers, Universities, Research Institutions, Scholarly Community	Significant value for researchers in extracting metadata and citation contexts. GraspOS pilots, like BIP! Finder can benefit from enriched bibliographic data. Collaboration potential with BIP! Finder for improved article classification.

1.2.3 Exploitation plan outside the project

CoARA

A collaborative effort has been established with the formation of the CoARA Working Group (WG), composed of 50 experts from 36 global organisations. The focus of this group, titled "Towards an Open Infrastructure for Responsible Research Assessment", is to delineate the infrastructures and their components for measuring research assessment. The aim is to offer guidelines on the responsible use of indicators, ethics, benchmark activities, governance, and the sustainability of these infrastructures. Members of the GraspOS project are actively involved, contributing to the formulation and coordination of proposals within these activities. This collective endeavour brings together diverse expertise to shape the future of RRA practices.

EOSC

To ensure alignment with INFRAEOSC projects, GraspOS is represented by Task 6.1 leader in the Horizon Europe Engagement & Communication Working Group coordinated by EOSC Focus. Monthly meetings are held online, in which 19 INFRAEOSC projects share the progress of their work, highlight their contributions to the SRIA and the impacts they anticipate, and promote project consultations and events. Members of the WG have the shared goal to build a strong foundation that fosters innovation, accelerates scientific discoveries, and empowers researchers across Europe and beyond.

Specifically, this year, members of the WG participated in the drafting of the Macro Roadmap for EOSC implementation (https://eosc.eu/roadmap/), a visual mapping of the results of EU projects developing EOSC which was announced publicly at the EOSC Symposium 2023. In addition, a face-to-face "Winter School" will be held in January 2024 with the aim to bring the projects together to explore policy recommendations, exchange case studies, and share information regarding future models for the advancement of the European Open Science Cloud (EOSC).

European Commission (EC)

The upcoming exploitation plan will be executed directly by the European Commission (EC), involving projects like GraspOS, with the objective of streamlining the next generation of responsible research assessment. The EC plans to facilitate this process by organising an in-person/on-site event. The primary goal of this event is to enhance networking and foster collaborative activities among projects addressing various facets of Research Assessment in Europe. This strategic initiative aims to consolidate efforts, share insights, and promote synergy among projects contributing to advancements in responsible research assessment practices.

2. Community Engagement

Community engagement at GraspOS happens largely under the works of Task 6.2 by way of fostering and maintaining a so-called 'Community of Practice' (CoP - https://graspos.eu/community-of-practice-on-open-science-and-responsible-research-assessment). Further details on the GraspOS CoP are included in the Deliverable 6. 3 Community of Practice and Training Activities Plan[6], submitted to the EC in June 2023.

Initially, and according to the grant agreement, the CoP was envisaged to *"integrate diverse groups of actors to be involved in the design, development, testing and validation of the OS infrastructure, including the pilot owners who will act as champions within their communities, sharing experiences, practices with the larger CoP. They also will be an instrument to engage and bring on board new target stakeholders together with the partners' networks."* [7].

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[6] DOI 10.5281/zenodo.8096384.

[7] See GraspOS Grant Agreement, p. 12.

We have expanded the purpose of the CoP in the Deliverable 6.3 where the CoP was enframed as constructively exploring the two problem-spaces amidst which GraspOS is located, namely "a European, but also national and organisational[-level] agenda to advance open science in Europe, which is visible in multiple policy contexts on various scales[8]. Another major movement are the commitments that many organisations make to advancing responsible research assessment[9]" (see footnote 3, p. 8.)

2.1 Key updates

2.1.1 Challenge and vision

Referring to the tasks that we defined for ourselves in the Community of Practice and Training Activities Plan, the first question we answered was what *shared challenge* and *vision* there is to the CoP. We defined this, jointly, as a question of *how responsible research assessment can consider open science and vice versa.* Whilst the challenge on which the CoP rests is clear to both us, as organisers, but also to the current network who participated in the previous meeting, the *vision* is yet unclear, as we want the process of visioning to be inductive and emerge from the conversations in the next 18 months of the project.

2.1.2 Two strategic orientations

In the same planning document that we referred to, a key unanswered question was considering the positioning of GraspOS in its wider institutional environment and what strategic choices this implied for the building of a CoP:

*"Evidently, it depends on the **positioning** that the GraspOS CoP will assume, which is directly linked to strategic considerations that we have conceptualised, but are yet unsure of which to follow due to this very formative stage of the project on the one hand, and external organisations on the other" (See footnote 3, p. 9).*

The key strategic consideration was to either formalise a partnership with CoARA in the form of one of the Working Groups that are set up by the Coalition[10] or facilitate and foster this CoP as independently of the developments with CoARA.

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[8] See e.g. the Open Science NL Work Programme
[9] See https://coara.eu/
[10] See: https://coara.eu/coalition/working-groups/

Finally, whilst the GraspOS members who submitted the Working Group proposal have had it accepted and is now operational[11], the focus on *open infrastructures* for responsible research assessment obscured the proposed focus for this CoP on emerging concerns to be found in the interrelation between responsible research assessment and open science in a way that allows for conceptual, methodological and practical difference of open science in general, in contrast to open infrastructures in particular.

This led to us pursuing the second trajectory, namely developing this CoP as an independent community scrutinising the relations between open science and responsible research assessment.

2.1.3 Edition(s)

This section will outline the theme, speakers, dates and times the sessions took place and, if available, link to the presentation used by the speakers. Furthermore, it will elaborate the 'issue' that was discussed in the form of a small abstract, which was also shared as such with the participants. This serves as a documentation that will be populated with the upcoming C/D/E reports and updates.

Table 14. GraspOS CoP edition #1

#	1
Theme	Introduction of the GraspOS Community of Practice
Speaker	Ludo Waltman (Centre for Science and Technology Studies)
Date	18 October 2023
Time	10:00-11:00 am CET
Presentation link	https://doi.org/10.5281/zenodo.10276721

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[11] https://coara.eu/app/uploads/2023/10/WG-Overview_Towards-Open-Infrastructures-for-Responsible-Research-Assessment_updated.pdf

Issue	How can research assessment consider open science? Research(er) assessment that values open science is still in a nascent stage despite immense policy attention. To address this problem, it is critical to collate and exchange experiences of attempts to conduct research assessments that consider open science. In this session, Ludo Waltman from CWTS at Leiden University spoke about the interrelations between open science and research assessment.

Table 15. GraspOS CoP edition #2

#	2
Theme	Open Science and Research Assessment in the Social Sciences and Humanities
Speaker	Fotis Mystakopoulos (OPERAS)
Date	17 January 2024
Time	10:00-11:00 am CET
Presentation link	Not yet available during the time of writing.
Issue	In the Social Sciences and Humanities (SSH) thematic area, research assessment involves several variables. These include the interplay between the international and local contexts of the research, widespread multilingual practices, and the publication of SSH research in diverse avenues beyond the conventional high impact factor journals. Common practices include the publication of monographs and contributions to edited collections. Within these parameters, what is the role of Open Science in fostering a more inclusive research assessment process that prioritises quality over quantity?

2.1.4 CoP KPI

The key performance indicator to be monitored as defined by partners and held by the GraspOS grant agreement is set up as follows[12]:

Figure 5. CoP KPI

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[12] See full list of KPIs in the GraspOS Grant Agreement, p.28

Description of KPI	M0	M18	M36
K4.3: Number of members in the CoP of RRA experts	0	10	20

Following three key promotional activities, including:

1. Promoting the CoP in the GraspOS newsletter
2. Discussing the problem between RRA and OS in a blogpost in the LeidenMadtrics blog by Leiden University and inviting readers to join the CoP by signing up
3. Promoting the CoP through physical flyers during the Science, Technology and Innovation Indicators conference in Leiden in 2023

The registered members in the mailing list have amounted to 224 subscribers (status on 06/12/2023). Nonetheless, this is not to say that there are 224 active participants. In the first edition of the CoP, there were 47 participants despite the large number of recipients of the invitation.

2.1.5 Tactics for engagement

From the organising point of view, we are happy about the fact that only 47 participants were there, as it allowed for more meaningful engagement. To value the participants' privacy and not preconceive certain areas of expertise, we have not asked participants to share their professional affiliations in either the registration form or the meeting itself.

To attune the issues that each actor faces in their curiosities and experimentation in the space between RRA and OS, we have asked the participants to:

a. turn on their video, if they feel comfortable
b. partake in a collaborative note taking exercise, where we use a shared text-editing tool to take notes and document associations that participants have with what is being discussed (such as resources, reflections etc.).

As organisers, we have also made sure to communicate that these sessions are not being recorded, except textually via notes, nor openly shared in order to lower the threshold of engagement. As the purpose of this group is centred around issues in experimentations with OS and RRA, people may have personal stories to tell, which we want to safeguard.

3. Training

The GraspOS project conducts training activities focused on enhancing expertise in research assessment and the use of indicators at an individual and institutional level. These activities are designed to equip participants with the necessary knowledge and skills to effectively evaluate research outputs and performance. Training covers various aspects, including understanding and applying relevant indicators, interpreting research metrics, and utilising assessment tools. Participants gain insights into best practices for evaluating the impact and quality of research, thus fostering a deeper understanding of the research landscape. The goal is to empower individuals involved in research assessment with the tools and insights needed to make informed decisions and contribute to the improvement of research practices.

3.1 Overview

The training sessions aim to achieve the following objectives:

1. <u>Skills Development:</u> The training sessions are designed to enhance the skills and capabilities of researchers, developers, and institutions. The use of the services covered by the training events can improve research assessment and provide different indicators for assessing researchers and institutions.

2. <u>Knowledge Transfer:</u> The training sessions are a means of transferring knowledge from experienced individuals to those who are less experienced. Specialised speakers in each service present insightful information and the abilities of the services to the participants sharing best practices and spreading the knowledge to a wider audience.

3. <u>Continuing professional development</u>: Training is an ongoing process that supports the concept of continuous improvement. Regular learning and skills development contribute to the overall growth and success of individuals and the pilots.

The aims of the Training sessions are the following:

- <u>For Pilots:</u> to be familiar with the services and co-create them to match pilot needs.

- <u>For developers:</u> to understand others' services and think about the possible interoperability with those services.

3.2 Dissemination plan of the training activities

The announcement for each training session is circulated through various media channels, aiming to engage a broad audience one month before the event. Additionally, "save the date" reminder emails are sent one week and one day prior to the event to enhance interaction and ensure widespread awareness.

Table 16. Dissemination plan for training activities

Disseminating activities about the training events	
Share the invitation through GraspOS members	
Share the invitation though OpenAIRE members	
Disseminate the invitation through GraspOS social media accounts	Website
	Twitter
	LinkedIn
	Mastodon
Disseminate the invitation through OpenAIRE social media accounts	Twitter
	LinkedIn

3.3 Training information / specifications

Table 17. Training information

Target Audience	Individuals/groups of researchers	
	Research performing organisations	
	Research assessment experts	
	Research funders	
	Institutions	
Training schedule	Duration	1 hour

	Presentation of the speaker	30 - 40 min
	Q&A	10 -15 min
	Questions / Test: To assess active participation, participants were given multiple-choice questions, supplied by the presenter, towards the end of the session. This approach was implemented considering time constraints.	5-10 min
Type	Public	
Post-training support	Upload the presentation in [Zenodo](#)	This ensures that the participants will still have access to the content at their convenience.
Recordings	All the events are recorded for future use	
	Creation of training course	Co-developed with the technology and infrastructure providers and hosted on the OpenAIRE learning platform www.openplato.eu
Evaluation	Feedback form for every training session	Use of Google form to evaluate the training process

3.4 Past training sessions

3.4.1 First GraspOS training session

This training event aimed to introduce the audience to the main functionalities of [BIP! Scholar](#), a service that offers researchers the opportunity to set up academic profiles that summarise their research careers. [BIP! Scholar](#) is designed to assist researchers in highlighting their significant contributions and placing them within a broader context. It accommodates various types of works, allowing researchers to delineate their roles and provide pertinent narratives for each work. Furthermore, the platform facilitates the exploration of diverse facets of a

researcher's career, offering customised views for each profile based on specific topics, roles, work types, and more.

Table 18. GraspOS Training: BIP! Scholar, going beyond researcher profiles

Topic	BIP! Scholar, going beyond researcher profiles
Speaker	Thanasis Vergoulis from Athena Research Center; vergoulis@athenarc.gr
Date	2 November 2023
Time	14:00-15:00 pm CET
Presentation link Zenodo (DOI)	10.5281/zenodo.10067214
Links to GraspOS social media accounts	Twitter: https://twitter.com/GraspOS_project/status/1720065058938479025 Mastodon: https://scicomm.xyz/@graspos/111341118771378679
Links to OpenAIRE social media accounts	Twitter: https://x.com/openaire_eu/status/1711303535533441181?s=48
Article link	BIP! Scholar: redefining academic profiles - GraspOS
Number of registered	70
Number of participants	50

3.4.2 Second GraspOS Training session

The institutional dashboard of the OpenAIRE MONITOR service is a supplementary tool in enhancing research assessment and decision-making processes for institutions. By providing

comprehensive Open Access, collaboration, and impact metrics and indicators, this dashboard offers a nuanced understanding of an institution's research landscape.This training session is designed to equip participants with the skills and knowledge needed to make the most out of the institutional dashboards in OpenAIRE MONITOR.

Table 19. GraspOS Training: Indicators for Institution - OpenAIRE MONITOR

Topic	Indicators for Institution - OpenAIRE MONITOR
Speaker	Leonidas Pispiringas from OpenAIRE ; leonidas.pispiringas@openaire.eu
Date	19 December 2023
Time	10:00 – 11:00 am CET
Presentation link Zenodo (DOI)	https://zenodo.org/doi/10.5281/zenodo.10406679
Links to GraspOS social media accounts	Twitter: https://twitter.com/GraspOS_project/status/1729832538007388372 LinkedIn: https://www.linkedin.com/feed/update/urn:li:activity:7135600951624708097?utm_source=share&utm_medium=member_desktop Mastodon: https://scicomm.xyz/@graspos/111493741562101329
Links to OpenAIRE social media accounts	Twitter: https://x.com/openaire_eu/status/1729172238707077186?s=48 LinkedIn: https://www.linkedin.com/posts/openaire-eu_graspos-monitor-research-activity-7135218249243185153-mf6s?utm_source=share&utm_medium=member_desktop
Article link	https://graspos.eu/indicators-for-institutions-and-the-openaire-monitor-2
Number of registered	78
Number of participants	35

In pursuit of the project's KPIs, a minimum of five additional training events before the project end will be organised, the calendar is being set up with speakers internally. Through these training events, the team aims to ensure that all participants are well-equipped to harness the insights and resources offered by GraspOS effectively.

3.5 Feedback

A feedback form is crucial as it serves as a valuable tool for communication and improvement. They provide individuals or organisations with valuable insights into the perceptions, experiences, and opinions of their audience and contribute to continuous improvement by offering actionable data for refining products, services, or processes. In essence, the regular solicitation and analysis of feedback through forms create a dynamic loop of improvement, ensuring that entities stay attuned to the evolving needs and expectations of their stakeholders. The feedback forms were created through Google forms and the questions were about:

- The evaluation of:
  - The quality and usefulness of content
  - The discussion
  - Overall satisfaction
- Interaction with the speaker, organisers, and other participants
- The length of the training session

Additionally, it includes questions regarding the aspects of the training session that participants found beneficial, their preferences for topics and support materials, and how the training was pertinent to their work.

Conclusions

The information provided in this report serves as a snapshot of current progress in December 2023 regarding the strategies for CDE, community engagement and training activities in the GraspOS project. Looking back on our achievements, the strategy laid out in the project DECP served as a solid framework for our efforts, highlighting the importance of a well-structured roadmap.

Overall, the positive outcomes of the first year of the project provide a strong basis for the next two years, and we are confident in our ability to meet future milestones and objectives. One of the key takeaways from this year is the importance of careful planning and working in a collaborative fashion, with both internal and external stakeholders, to reach set objectives. With a commitment to continuous improvement, we look forward to building on what has been achieved this year and we will continue to deepen and strengthen engagement with our stakeholder communities and support the project and its partners in delivering impactful results.

The data provided in this report will be updated in October 2025 in a new version of the deliverable.