



Deliverable D3.4

Dissemination and Impact Report and Plan following period 3



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EXECUTIVE SUMMARY

This deliverable provides an overview of the dissemination activities that have taken place from M37 to M48 of the project.

The project's dissemination calendar has seen a variety of events across cities and countries demonstrating the project's commitment to reaching as many people as possible.

As previously, the collection of data from participants at the events continues to be a challenge. Throughout this deliverable the numbers and genders of participants at each event must be taken as a 'best estimate' and not confirmed figures. The same goes for the collection of data regarding the stakeholder type - these figures have been estimated by the local organisers.

The deliverable provides also an update on the stakeholder analysis, done in collaboration with the SoBigData PPP, and an overview of the future events planned for the 2024.

In the last chapter, the deliverable provides an update on the work accomplished regarding the graphic material, featuring the renewed brand identity as outlined in D3.3 - Dissemination and Impact Report and Plan following Period 2.

DISCLAIMER

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 871042.

SoBigData++ strives to deliver a distributed, Pan-European, multi-disciplinary research infrastructure for big social data analytics, coupled with the consolidation of a cross-disciplinary European research community, aimed at using social mining and big data to understand the complexity of our contemporary, globally-interconnected society. SoBigData++ is set to advance on such ambitious tasks thanks to SoBigData, the predecessor project that started this construction in 2015. Becoming an advanced community, SoBigData++ will strengthen its tools and services to empower researchers and innovators through a platform for the design and execution of large-scale social mining experiments.

This document contains information on SoBigData++ core activities, findings and outcomes and it may also contain contributions from distinguished experts who contribute as SoBigData++ Board members. Any reference to content in this document should clearly indicate the authors, source, organisation and publication date.

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GLOSSARY

AI	Artificial Intelligence
CSO	Civil Society Organisations
ESFRI	European Strategy Forum on Research Infrastructures
EC	European Commission
ERIC	European Research Infrastructure Consortium
EU	European Union
H2020	Horizon 2020 EU Framework Programme for Research and Innovation
GANs	Generative Adversarial Networks
GDPR	General Data Protection Regulation
NGO	Non-governmental Organisation
ML	Machine Learning
RI	Research Infrastructure

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1 Relevance to SoBigData++

Dissemination events are the branches that reach out beyond the infrastructures into the wider data science community. They promote and showcase the expertise, knowledge and innovative research that is at the heart of the project. The more events that are available to provide opportunities for networking, sharing knowledge and discussing cutting edge issues the more the project, and moreover the Research Infrastructure, will become known as one of the strongest pillars of the data science community, setting the standard for open, fair and ethical data mining across the industry.

1.1 Purpose of the Document

This document is to provide the consortium with an overview of the dissemination activities carried out in the third period of the project, from M37 to M48, together with a report on the project's impact so far.

The objectives can be summarised as follows:

- Communication of project results to the general public, scientific communities, and potential adopters through various dissemination channels.
- Dissemination of the project results to the partners' research and business associates, clients and public through media and existing and future contacts.
- Identification of user communities for potential academic and commercial impact.
- Exploration of initial ideas on generating impact from the project results on the target stakeholders.
- Establishment of the appropriate metrics and indicators to assess the success of the dissemination and impact of the project results

1.2 Relevance to project objectives

One of the main objectives of the project is to collect, organise, interpret and analyse large amounts of social data. The dissemination events organized by the consortium are designed to advocate for a sustained, comprehensive comprehension of big data. They aim to highlight the role of the expanding community of data scientists in spearheading cutting-edge research aligned with the FAIR (Findability, Accessibility, Interoperability, and Reproducibility) and FACT (Fairness, Accuracy, Confidentiality, and Transparency) principles.

The project has the aim of establishing a self-maintaining Research Infrastructure that will remain beyond the end of the project. Dissemination events feed into this by engaging and inspiring the new generation of data scientists and providing opportunities to forge strong collaborations with established partners within the project.

Furthermore, expanding beyond the data science community and engaging with industry and policymakers stands as a crucial objective for the project, enhancing the sustainability of the Research Infrastructure. Communication and dissemination activities also play a key role in achieving this objective.

1.3 Relation to other work packages

Dissemination and impact generation ventures are horizontal activities that last for the entire duration of the project. Therefore, there is clear interaction with the other work packages on an ongoing basis. All work packages continue to provide feedback and support to each other via meetings, plenary meetings, emails and discussions - for both dissemination and impact purposes.

1.4 Structure of the document

The document is categorized into four different sections:

- Section 1 gives a brief introduction, outlines the major purpose of the document, and explains the relevance to SoBigData++.
- Section 2 of the document provides a report of the dissemination activities that have taken place in the reporting period. In more detail, it provides dates in which events took place, partners who organized the event and a short summary of the event including details of the format. It also includes details of events that have been planned but have not yet taken place. The last part of section 2 looks at the results of the project indicators and assesses the progress and success of the dissemination activities.
- Section 3 gives an overview of the future events planned for the 2024.
- Section 4 gives an update about the stakeholder analysis already published in the previous deliverables of the WP3.
- Section 5 provides an update on the work accomplished regarding the graphic material.
- Section 6 of the document concludes with consolidated findings so far.

2 Dissemination Activities from M37 to M48

The collection of data relating to the ages, stakeholder breakdown, genders and numbers of participants continues to create challenges. As there is no formal registration required for events (whether they are SoBigData++ or not) and in respect of GDPR and the protection of personal data, the collection of data for reporting purposes has its own inherent challenges. Local organisers have provided estimated figures for attendance numbers and the gender split and they have given their best estimates regarding the type of stakeholder, however all these figures must be taken as a guide and not be considered as accurate data.

The mandatory forms used for the collection of data after an event has happened are continually assessed for their usefulness and are amended as necessary to ensure the data collected is fit for purpose. An example of form is visible at the following link:

<https://docs.google.com/forms/d/e/1FAIpQLSej3RW8Jet6m9HoF74dd0oeP8C3S0OXRlvxgcKyatfd1HV9zQ/viewform>

2.1 Timeline of Events

Table 1 lists the various events that have taken place from Month 37 to Month 48 of the project together with a brief description of the event. The first word in the description denotes what type of event took place.

	Date	Event	Partner	Description
Month 37	9-13 Jan 2023	Digital Methods Winter School & Data Sprint: What actually happened? The use and misuse of open source intelligence (OSINT) https://publicdatalab.org/2022/10/27/dmi-winter-school-2023/	UvA	School: The format is that of a (social media and web) data sprint, with tutorials as well as hands-on work for telling stories with data. There was also a programme of keynote speakers.
	26 Jan 2023	8th SoBigData++ Awareness Panel Further processing of health data for research purposes: the interplay between the GDPR and the MDR Program with instruction to connect	SSSA	Awareness Panel: Secondary use of personal health data under the GDPR and its interplay with the MDR. The public health interest and the scientific research exceptions under the GDPR. Using de-identification and other safeguards to promote health data sharing: regulatory constraints.
Month 38	7-10 Feb 2023	NetSciX 2023 https://cnet.fi.uba.ar/netscix23/	CNR	Conference: International Conference on Network Science bringing together leading researchers and innovators in Network Science encouraging international collaboration.
Month 38	8-10 Feb 2023	Energy & Finance 8 https://www.energyfinanceitalia.it/home	IMT	Workshop: Defining, assessing and mitigating algorithm biases to devise more effective search and recommendation algorithms that can be responsibly deployed in real-world applications.
Month 39	24 Mar 2023	Ten Years of Digital Social Sciences (Colloquium celebrating the 10 years of the RESET scientific journal) http://sobigdata.eu/blog/ten_years	CNRS	Conference: Recherches en sciences sociales sur internet, its editorial board has organised a colloquium to carry out a critical assessment of the research carried out in the field of digital social studies.

	Date	Event	Partner	Description
Month 42	27 June 2023	IAIL 2023 - Imagining the AI Landscape after the AI Act Workshop http://iail2023.isti.cnr.it/	CNR	Workshop: to analyse from a multidisciplinary point of view (i.e., law experts and technicians) how the new EU regulation proposal could shape the AI technologies of the future.
Month 43	3-14 July 2023	Digital Methods Summer School https://summerschool.uva.nl/content/summer-courses/digital-methods-summer-school/digital-methods-summer-school.html?cb	UvA	School: The format is that of a (social media and web) data sprint, with tutorials as well as hands-on work for telling stories with data. There was also a programme of keynote speakers.
Month 43	9-15 July 2023	SoBigData Summer School 2023: Responsible data science for society: models, algorithms, trustworthy AI http://sobigdata.eu:8020/sbd-summer-school-2023	CNR, KCL	School: introduces participants to selected topics to better understand the complexity of our world from the data scientist's perspective.
Month 43	16-22 July 2023	Computational Complex and Social Systems (Lipari Summer School) https://complex23.liparischool.it/	UNIPI	School: devoted to the topic "Spreading and accessing information".
Month 43	19 July 2023	Valéry Giscard d'Estaing Dinner with Commissioner Ms Věra Jourová URL: n/a	RIE	Other: High-level dinner attended by Jeroen van den Hoven on behalf of SoBigData++.
Month 43	24-29 July 2023	CLMPST 2023: 17th Congress on Logic, Methodology and Philosophy of Science and Technology https://clmpst2023.dc.uba.ar/	TU Delft	Conference: CLMPST is the premier forum on Logic, Methodology and Philosophy of Science and Technology. Its aim is to bring together active researchers in this broad field.
Month 45	18 Sept 2023	XKDD 2023 (as part of ECML PKDD) http://xkdd2023.isti.cnr.it/	UNIPI	Workshop: 5th International Workshop on eXplainability in Knowledge Discovery in Data mining
Month 45	18 Sept 2023	LQ2023: 3rd International Workshop on Learning to Quantify: Methods and Applications (part of ECML/PKDD 2023) https://lq-2023.github.io/	CNR	Workshop: to bring together all researchers interested in methods, algorithms, evaluation measures, evaluation protocols, and methodologies for Learning to Quantify and managing large quantities of data.
Month 45	18 Sept 2023	RKDE 2023 - 1st International Tutorial and Workshop on Responsible Knowledge Discovery in Education http://rkde2023.isti.cnr.it/	UNIPI	Workshop: to encourage principled research that will lead to the advancement of explainable, transparent, ethical and fair data mining and machine learning in the context of educational data.
Month 45	27 Sept 2023	GeSI 'Digital with Purpose' session https://event.digitalwithpurpose.org/	RIE	Other: The event will attract speakers from industry, EU Commission and NGOs. Digital healthcare data is the topic, and SoBigData's project coordinator, Roberto Trasarti, is participating as a speaker and will present the features of SoBigData RI with a focus on digital healthcare data.

	Date	Event	Partner	Description
Month 46	16 Oct 2023	Know your Trees http://sobigdata.eu/knowyourtrees	ELIANTE	Conference: A public presentation regarding the outcome of Know Your Trees project. KYT is a Citizen Science initiative by SoBigData, focusing on the study of urban trees.
Month 47	08 Nov 2023	XAI.it 2023 https://beyondaccuracy-userprofiling.github.io/xai-it-2023/	UNIPI	Workshop: AI systems are playing an increasingly central role in our daily lives. As their importance grows, it is fundamental that the internal mechanisms that guide these algorithms are as clear as possible
Month 47	24 Nov 2023	Challenge Us http://www.sobigdata.eu/challenge-us	UT	Other: A project to help businesses for free with big data issues.
Month 48	19 Dec 2023	CM Statistics 2023 http://www.cmstatistics.org	UNIPI	Conference: that will delve into XAI with a holistic overview of XAI taxonomy, algorithms of note, advancements in the field, and of its taxonomy.

Table 1: List of events that have taken place between M37 and M48

2.2 Periodic Training Planning Report Data

For the project to assess its impact and to demonstrate its reach, the organisers of the above events were tasked with collecting data covering 4 areas:

1. Number of participants
2. Gender split of participants
3. Age ranges of participants
4. Stakeholder type of participants

Table 2 shows the data collected on the number of participants, including the gender breakdown. As previously noted, these figures should be taken as a guide and not as accurate figures.

Event	Number of Female Participants	Number of Male Participants	Total number of participants
Digital Methods Initiative – winter School & Data Sprint: What actually happened? The use and misuse of open source intelligence (OSINT)	No data provided		
8th SoBigData++ Awareness Panel Further processing of health data for research purposes: the interplay between the GDPR and the MDR	14	12	26
NetSciX 2023	25	65	90
Energy & Finance 8 2023 Edition	32	76	108
Ten Years of Digital Social Sciences (Colloquium celebrating the 10 years of the RESET scientific journal)	25	25	50
IAIL 2023 - Imagining the AI Landscape after the AI Act Workshop	10	10	20
Digital Methods Summer School	70	70	140

Event	Number of Female Participants	Number of Male Participants	Total number of participants
SoBigData Summer School 2023: Responsible data science for society: models, algorithms, trustworthy AI	10	24	34
Computational Complex and Social Systems (Lipari Summer School)	10	31	41
Valéry Giscard d'Estaing Dinner with Commissioner Ms Věra Jourová	No data provided		
CLMPST 2023: 17th Congress on Logic, Methodology and Philosophy of Science and Technology	8	17	25
XKDD 2023 (as part of ECML PKDD)	30	40	70
LQ2023: 3 rd International Workshop on Learning to Quantify: Methods and Applications (part of ECML/PKDD 2023)	8	12	20
RKDE 2023	7	23	30
GeSI 'Digital with Purpose' session	10	20	30
Know your Trees	60	60	120
XAI.it 2023	5	10	15
Challenge us	Data outstanding		
CM Statistics 2023	Data outstanding		
Total	324	495	819

Table 2: The number and gender breakdown of participants at selected events

Figure 1 illustrates the gender breakdown more clearly. In previous deliverables the split was around one third female and two thirds male. In the last deliverable the split was 38.74% female and 60.27% male equating to approximately 2/5 female participants and 3/5 male participants. This slight movement towards the centre line has shifted in the right direction again. The current figures show 39.56% of the participants were female and 60.44% were male. As the participants to events are not asked individually to provide their personal data, the project does not assume or infer any alternative genders. In other areas of the project where personal information is obtained directly from the individual, alternative gender options are offered – for example TNA visitors (under Work Package 6) are now offered a choice of genders, or to opt out of specifying their gender. However, for the purposes of this Deliverable, only male and female are considered.

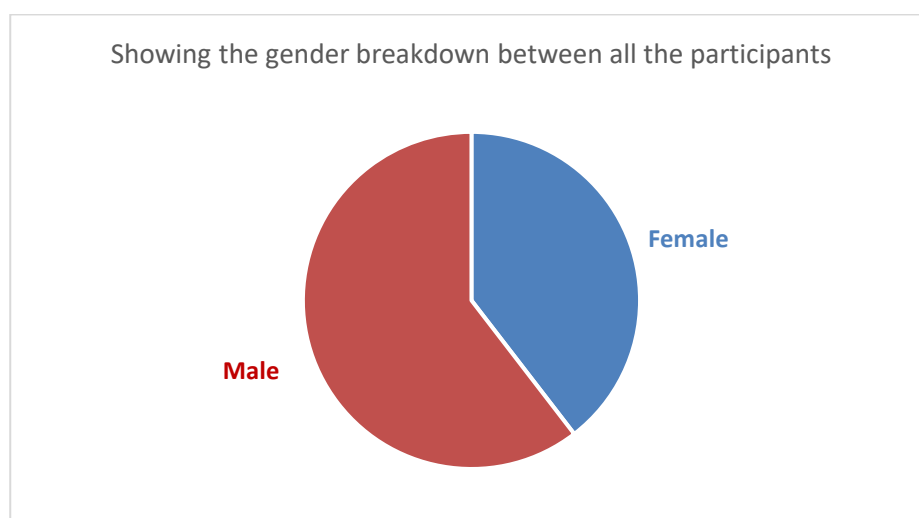


Figure 1: The split between male and female participation in M37 – M48 of the project

Table 3 details the estimated age ranges of the participants for the events that were able to collect this data. A range of ages was provided in each of the four categories for the organisers to use:

- Under 18s
- between 18-30 years of age
- between 30-50 years of age
- over 50 years of age

As there is no requirement for a formal registration, organisers were tasked with collecting (to the best of their ability) estimates of how many people were in each of the above ranges. Obviously, this method has many flaws, but it is useful as a guide as to which age range the project reaches and appeals to most. The ranges provided for ascertaining the number of participants in each range are:

- 1-5 participants
- 6-10 participants
- 11-15 participants
- 16-20 participants
- 21-30 participants
- 31-40 participants
- 41-50 participants
- Over 50 participants

Event	Under 18 years of age	Between 18-30 years of age	Between 30-50 years of age	Over 50 years of age
Digital Methods Initiative – winter School & Data Sprint: What actually happened? The use and misuse of open source intelligence (OSINT)	No data provided			
8th SoBigData++ Awareness Panel Further processing of health data for research purposes: the interplay between the GDPR and the MDR	0	6-10	6-10	6-10
NetSciX 2023	0	31-40	21-30	16-20
Energy & Finance 8 2023 Edition	No data provided			
Ten Years of Digital Social Sciences (Colloquium celebrating the 10 years of the RESET scientific journal)	0	16-20	16-20	11-15
IAIL 2023 - Imagining the AI Landscape after the AI Act Workshop	0	6-10	11-15	0
Digital Methods Summer School	0	50+	50+	6-10
SoBigData Summer School 2023: Responsible data science for society: models, algorithms, trustworthy AI	0	31-40	0	1-5
Computational Complex and Social Systems (Lipari Summer School)	0	21-30	11-15	6-10

Event	Under 18 years of age	Between 18-30 years of age	Between 30-50 years of age	Over 50 years of age
Valéry Giscard d'Estaing Dinner with Commissioner Ms Věra Jourová	No data provided			
CLMPST 2023: 17th Congress on Logic, Methodology and Philosophy of Science and Technology	0	1-5	11-15	1-5
XKDD 2023 (as part of ECML PKDD)	0	16-20	16-20	16-20
LQ2023: 3 rd International Workshop on Learning to Quantify: Methods and Applications (part of ECML/PKDD 2023)	0	1-5	6-10	6-10
RKDE 2023	0	11-15	16-20	1-5
GeSI 'Digital with Purpose' session	No data provided			
Know your Trees	50+	16-20	11-15	6-10
XAI.it 2023	0	6-10	6-10	6-10
Challenge Us				
CM Statistics 2023				
Cursory Totals	50+	212	181	82

Table 3: Breakdown of age groups in the listed events

As definitive totals cannot be achieved in each of the 4 age ranges, the lowest number in each range has been added together to provide cursory totals. These totals have been used to create the visual chart below to give as clear a picture as possible of the division of the participants' age ranges.

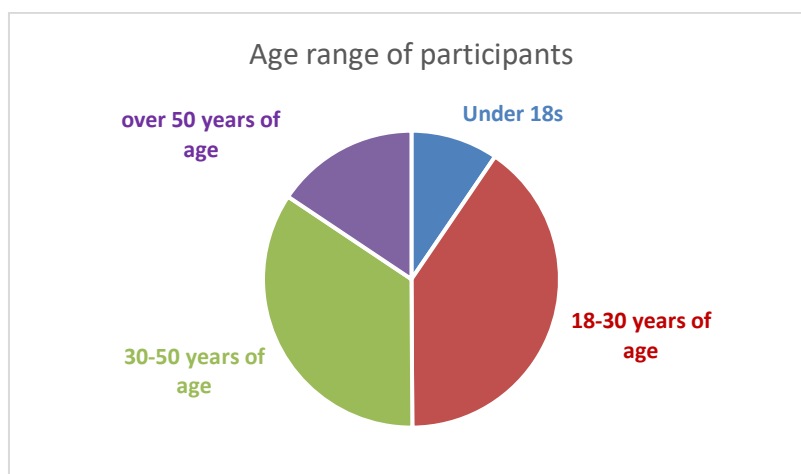


Figure 2: The age range split from M37 – M48 of the project

As expected, the majority of participants were in the 18-30 age group, followed by the 30-50 and over 50 categories. The smallest group to take part were the under 18s - which is to be expected. It is worth noting that the under 18s were all involved in one event - where local high school students were involved in the *Know Your Trees* event in Italy. Many more than 50 children took part - but the number options do not allow a number over 50 to be given. This event was a powerful demonstration of how to inspire the next generation of data scientists by involving multiple schools and also addressing an issue (urban sustainability) that is at the forefront of many young people's minds.

The project is also interested in the type of people attracted to the events. This is important to understand who is attending the events and what type of stakeholder the project is reaching. The table below shows the breakdown of stakeholders. Again, data collection proved to be a challenge and therefore some of the events are listed as 'no data provided'.

Event	Type of Stakeholder						
	Teaching/ Academic Institutions				Data Analysts	Industry	Policy Makers
	Undergrads	PhD Researchers	Academics	Early-career Researchers			
Digital Methods Initiative – winter School & Data Sprint: What actually happened? The use and misuse of open source intelligence (OSINT)	No data provided						
8th SoBigData++ Awareness Panel Further processing of health data for research purposes: the interplay between the GDPR and the MDR	0	1-5	1-5	1-5	0	1-5	1-5
NetSciX 2023	11-15	31-40	21-30	16-20	0	0	0
Energy & Finance 8 2023 Edition	No data provided						
Ten Years of Digital Social Sciences (Colloquium celebrating the 10 years of the RESET scientific journal)	6-10	11-15	11-15	6-10	0	0	0
IAIL 2023 - Imagining the AI Landscape after the AI Act Workshop	0	6-10	1-5	6-10	0	0	1-5
Digital Methods Summer School	31-40	31-40	31-40	31-40	16-20	0	0
SoBigData Summer School 2023: Responsible data science for society: models, algorithms, trustworthy AI	0	16-20	1-5	16-20	21-30	0	0
Computational Complex and Social Systems (Lipari Summer School)	0	21-30	11-15	1-5	0	0	0
Valéry Giscard d'Estaing Dinner with Commissioner Ms Věra Jourová	No data provided						

Event	Type of Stakeholder						
	Teaching/ Academic Institutions				Data Analysts	Industry	Policy Makers
	Undergrads	PhD Researchers	Academics	Early-career Researchers			
CLMPST 2023: 17th Congress on Logic, Methodology and Philosophy of Science and Technology	1-5	6-10	11-15	6-10	0	0	0
XKDD 2023 (as part of ECML PKDD)	1-5	16-20	11-15	16-20	11-15	1-5	0
LQ2023: 3rd International Workshop on Learning to Quantify: Methods and Applications (part of ECML/PKDD 2023)	1-5	1-5	11-15	6-10	0	1-5	0
RKDE 2023	0	11-15	16-20	1-5	0	0	0
GeSI 'Digital with Purpose' session	No data provided						
Know your Trees	16-20	1-5	1-5	0	1-5	0	6-10
	School children 50+						
XAI.it 2023	No data provided						
Challenge Us							
CM Statistics 2023							
Total	67	152	127	106	49	3	8

Table 4: Stakeholder breakdown in selected events

The events are focussed on encouraging participation from those within the academic realm – with PhD researchers, early career researchers and academics making up the majority of the participants. However, the project also attracts participants from industry and policy makers demonstrating the project’s reach. The project also has the potential to reach younger participants when it puts on events that are designed or directed at school children.

Figure 5 provides a visual representation of the participants’ stakeholder range. The numbers used to produce this chart have been taken from Table 4. As previously, the lowest numbers in each range were added together. The chart illustrates that the spread between the project’s main target audience – PhD researchers, early career researchers and academics is fairly even making up 76% of the total participants. The other four stakeholders being undergraduates, those working in industry, data analysts and policy makers make up approximately 24% of total participation.

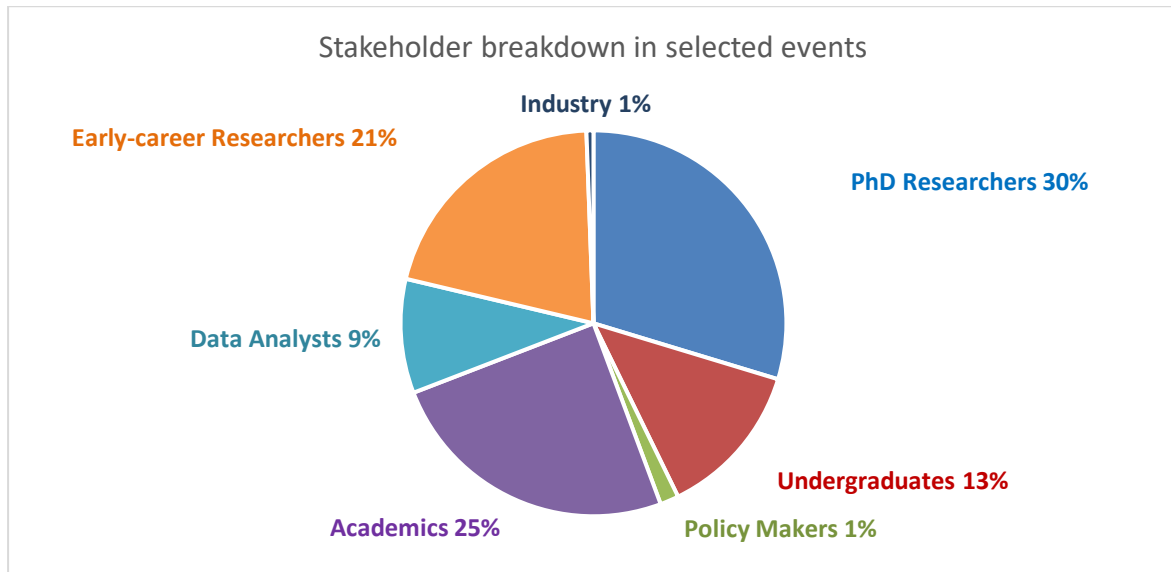


Figure 3: Stakeholder breakdown in selected events

Table 5 lists the approximate percentages of participation of each category. The percentage of participants from outside of academia has remained very much in line with what it was in the previous deliverable. The project would like to increase this figure of 11% in the final year of the project and will be considering this area when planning and hosting future events.

Stakeholder Type	% of total participation	
Undergraduates	13%	Academia: 89%
PhD Researchers	30%	
Academics	25%	
Early-career Researchers	21%	
Data Analysts	9%	Outside Academia: 11%
Industry	1%	
Policy Makers	1%	
Total	100%	100%

Table 5: The percentage of participation within each of the categories

2.3 Report on selected activities

Below is a detailed report on selected activities that have taken place from 1 January 2023 to 31 December 2023. It includes a short description of the events and where applicable there is a link to the website or information about the event. The various events that have taken place during this reporting period are split into the following categories, including conferences, awareness panels, workshops, schools and other events (datathons, satellites, other).

Type of Event	Number of Events
Conferences	5
Awareness Panels	1
Workshops	6
Schools	4
Other	3
Total	19

Table 6: Summary of the number of events in each category

Table 6 provides a summary of the events that took place. To encourage active participation, the vast majority of events have been face to face however 3 were able to offer hybrid participation, namely the Ten years of Digital Social Sciences, LQ2023 and the GeSI 'Digital with Purpose' session.

One of the areas discussed at a review meeting was how to demonstrate the impact of an event on the project, how it addressed the main themes of the project, and how it benefited the project and extended the community. To this end, the event report forms, which are completed by organisers after an event has taken place, have been amended to include a direct mandatory question asking for information on all of the above, which is reported below as the outcome of the event.

2.3.1 Conferences

2.3.1.1 NETSCI-X 2023

Date: 7-10 February 2023

Objective: This conference took place in Buenos Aires, Argentina having been organised by CNR and Universidad de Buenos Aires. NetSci-X 2023 brought together leading researchers and innovators in Network Science and this track was designed to foster interdisciplinary collaboration among researchers in network science from South America and around the world.

Outcome: The event went very well in terms of the interest raised, interaction and positive feedback from the participants. Both the school and the conference attracted a large number of participants, so its reach was wide - especially given that it took place outside Europe. It was an opportunity to discuss and promote the SoBigData++ RI and its resources, expertise and growing community.

Participants: There were approximately 90 participants of which 25 were female and 65 were male. There were between 31-40 in the 18-30 years of age category, between 21-30 between the ages of 30-50 and between 16-20 fell into the over 50 years of age category. The event was directed at Researchers and there were between 11-15 under-graduates/post-graduates, between 31-40 were PhD Researchers, between 16-20 were early career researchers and between 21-30 were academics. The event was promoted via the project website and Twitter.

URL: <https://cnet.fi.uba.ar/netscix23/>, <https://twitter.com/NetSciX23>

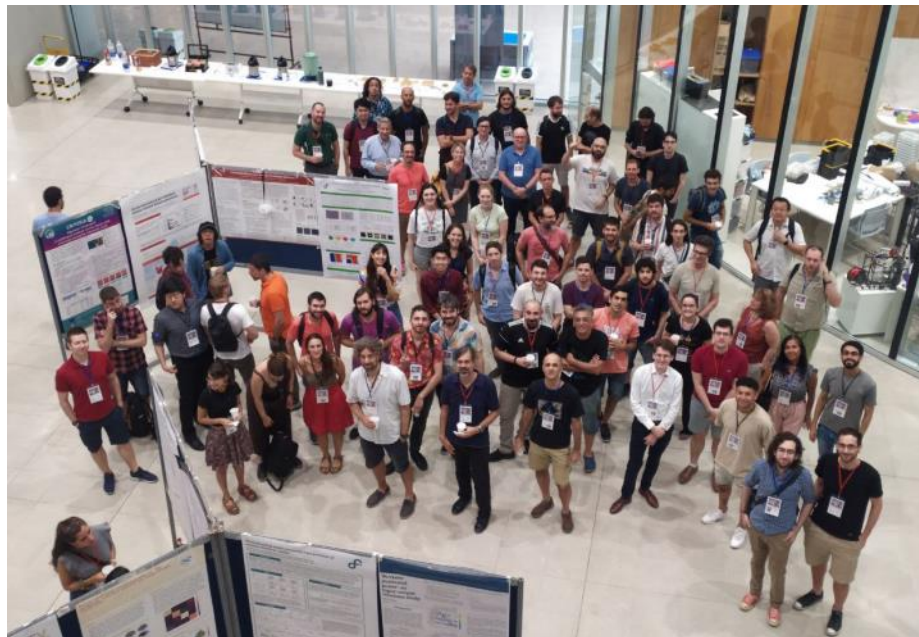


Figure 4: Photograph of the participants of NetSci-X 2023

2.3.1.2 TEN YEARS OF DIGITAL SOCIAL SCIENCES. COLLOQUIUM CELEBRATING THE 10 YEARS OF THE RESET SCIENTIFIC JOURNAL

Date: 24 March 2023

Objective: This conference was organised by CNRS in conjunction with RESET Scientific Journal’s editorial board. It was a hybrid event which took place in Paris, at the Maison de la Recherche, University Sorbonne Nouvelle. This was a dissemination event which delivered a critical assessment of the research carried out in the field of digital social studies. The event was made up of two panels followed by a round table of guests discussing and analysing the way in which the internet has infiltrated our daily lives. Classic social science issues were discussed as well as critically reviewing digital methods in computational social sciences.

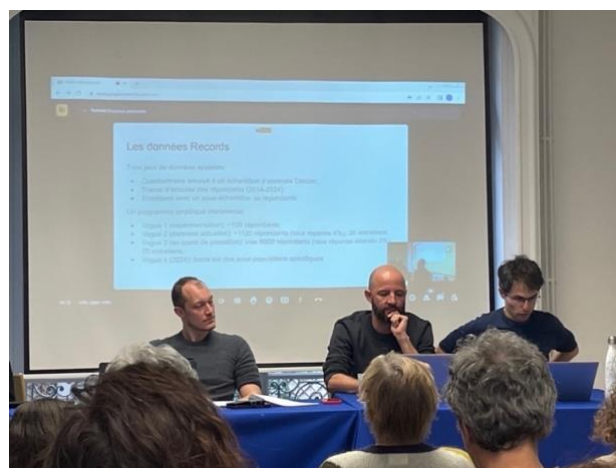


Figure 5: A photograph showing the panel at the event – ‘Ten years of Digital Social Sciences’

Outcome: As a spin-off of the event, the organisers have proposed a prospective exercise in light of the research carried out by the young researchers which they hope will identify new fronts of study in this area.

Participants: It is estimated there were 50 participants with an equal split between the genders. There were between 16-20 participants in each of the 18-30 and 30-50 age brackets and between 11-15 in the over 50 years age bracket. The event was aimed at teaching and academic institutions and researchers. It is estimated there were between 6-10 early career researchers, 6-10 undergraduates/postgraduates and between 11-15 PhD researchers and academics. The event was promoted via the usual SoBigData++ social media channels and the RESET journal website and Twitter account.

URL: http://sobigdata.eu/blog/ten_years

2.3.1.3 17TH CONGRESS ON LOGIC, METHODOLOGY AND PHILOSOPHY OF SCIENCE AND TECHNOLOGY (CLMPST 2023)

Date: 24-29 July 2023

Objective: As part of CLMPST 2023, TU Delft organised an in person symposium entitled 'Philosophy of Science for Machine Learning'. Within the symposium, 7 presentations were held on different topics pertaining to the philosophy of science in machine learning (ML). Topics ranged from inductive risk in ML, computational reliabilism and transparency, Explainable Artificial Intelligence (XAI), causal explanations and epistemic injustice in ML.

Outcome: The symposium facilitated academic exchange among presenters working on related topics within the area of philosophy of science for machine learning. Every presentation was followed by insightful questions from the participants in the audience and fruitful discussions. The presentations were received with a high level of interest from the attending audience. The topics of the symposium are directly related to the central topics within the SoBigData++ project, such as explainability in Artificial Intelligence (AI) and the ethical aspects of machine learning, thereby promoting the project to a wider audience and engaging increased interest in this area.

Participants: There were approximately 25 participants, with 8 being female and 17 male. Between 1-5 were in the 18-30 category, 11-15 were in the 30-50 years of age category and 1-5 were estimated to be over 50 years of age. The event was aimed at teaching/academic institutions and researchers. There were between 1-5 undergraduates/postgraduates, 6-10 PhD researchers, 6-10 early careers researchers and 11-15 were academics. The event was promoted from within the conference program.

URL: <https://clmpst2023.dc.uba.ar/>

2.3.1.4 KNOW YOUR TREES

Date: 16 October 2023

Objective: This event, organized by Eli and supported by CNR, Scuola IMT (Istituzioni, Mercati, Tecnologie) Alti Studi di Lucca (IMT), was a public presentation by Angelo Facchini (IMT) Simona RE (ELIANTE) and Daniele Fadda (ISTI-CNR) of the outcomes of Know Your Trees project. Know Your Trees (KYT) is a Citizen Science initiative by SoBigData++, which focuses on the study of urban trees, culminating in the creation of an open

dataset to be shared with the scientific community. This event serves as a platform for promoting innovative and inclusive approaches to scientific exploration, especially within high schools.

Outcome: The conference was attended by researchers, technicians and public administration to jointly address urban sustainability issues through the tools of big data, Artificial Intelligence, citizen science, ecology and forest science and to describe the SoBigData++ project and the Know Your Trees initiative in Tortona, Italy. The event was successful both in terms of the involvement of the audience and its overall conduct. In addition to supporting and consolidating the collaboration between the many actors involved in the Know Your Trees project (i.e. researchers, technicians, public administration, volunteers and citizens), the event made it possible to raise awareness on the theme of sustainability, urban green and big data among a large audience consisting mainly of volunteers and students from all the high schools in the Tortona area. The benefits of this event for SoBigData++ consist, above all, in its success in raising awareness among a young target audience (high school students) and public administration technicians (municipality of Tortona) on the project's themes and on the usefulness of big data in the management of urban and natural resources. Being an audience with skills far removed from those of data scientists, this event was an excellent experience of effective dissemination to non-experts. The topics of big data and artificial intelligence were addressed both in general and with respect to the concepts of sustainability and urban metabolism, with a focus on the applications of data science in the ecological field for the study of urban trees. In particular, the conference saw the intervention and dialogue of different actors including researchers (Eliante, CNR, IMT, University of Milan), volunteers (La Fenice APS) and municipalities (mayor and social policy manager). As is the case within SoBigData++, the collaboration between so many different actors was a key element of both the Know Your Trees initiative and the event that disseminated the project to the audience.

Participants: This conference reached 120 participants, with an equal split between the genders. Over 50 were under 18, between 16-20 were between 18-30 years of age, 11-15 were between 30-50 years of age and between 6-10 were over 50 years of age. The event was targeted at teaching/academic institutions, public administration and the general public. Over 50 were high school students, 16-20 were undergraduate/post graduates, 1-5 were PhD researchers, 1-5 academics and 6-10 policy makers. The event was promoted mainly by local contacts with schools, associations and the municipality.

URL: <https://www.eliante.eco/sobigdata/>

2.3.2 Awareness Panels

2.3.2.1 8TH SOBIGDATA++ AWARENESS PANEL: FURTHER PROCESSING OF HEALTH DATA FOR RESEARCH PURPOSES: THE INTERPLAY BETWEEN THE GDPR AND MDR

Date: 26 January 2023

Objective: The aim of this panel was to raise awareness of exceptions under GDPR that might allow organisations to process health data (without consent), and assess the limits encountered vis-à-vis Medical Device Regulation (MDR) -including the risk of impairing the safety and performance of AI-medical devices. Topics covered included the collection and processing of health data under GDPR, the legal basis of collection for research purposes and safeguards such as de-identification; stipulations on de-identification and scientific research.

Outcome: Awareness panels are events envisaged under WP2 and organised by SSSA. They gather experts together to discuss specific ethical and legal issues with the intention of increasing awareness among researchers, policymakers and local industries. Each panel lasts for one hour, and there are three speakers who each have a 15 minute timeslot to present their topic. The talks are then followed by a Q&A session. This event attracted a good number of participants and generated lively discussions. The debates were involved and vigorous demonstrating the relevance of the chosen topics. The event went on longer than planned due to the inspiring and interesting conversations.

Participants: There were 26 participants; of these 14 were female and 12 were male showing an even split – slightly in favour of females. There were between 6-10 participants in each of the age ranges 18-30, 30-50 and over 50 years of age. The event was aimed at teaching/academic institutions, researchers, industry, law & policy makers and the general public. There were between 1-5 in the following categories: PhD Researchers, early career researchers, academics, those working in industry and policy makers. The event was promoted on the project website, Twitter and via the email contacts lists of the project, Lider-lab networks and Sant’Anna.

URL: Not available

2.3.3 Workshops

2.3.3.1 ENERGY & FINANCE ITALIA 8

Date: 8- 10 February 2023

Objective: This workshop was primarily organised by Politecnico di Milano with the support of IMT and took place in Politecnico di Milano in Italy. The event included a SoBigData++ prize for the best paper presented to a young researcher. Energy & Finance Italia 8 puts together scholars and practitioners in the field of energy systems. The workshop is characterised by a strong interdisciplinarity and spans fields like energy economics, finance, quantitative methods and data science methods.

Outcome: Having a best paper award provides participants with an opportunity to share their best research and ideas to a larger audience than usual. These awards celebrate excellence and originality of research and the quality and impact of research. Raising the competition also encourages a high standard of research and papers which, in turn, promotes the SoBigData RI. The best paper was awarded to Dr Alexander Blasberg for his paper, [‘Carbon Default Swap - Disentangling the Exposure to Carbon Risk Through CDS’](#). As a SoBigData++ prize winner, Dr Alex has been invited to write a contribution for the SoBigData++ blog.

Participants: The workshop was attended by 108 participants – with 32 being female and 76 male. The gender balance following the usual trend of about 30% female, 70% male. No stakeholder type or ages were collected but the event was aimed at teaching/academic institutions, researchers, data analysts, industry, law & policy makers. It was reported that the event went very well and the participation level since the last Energy & Finance Italia (10 - 11 February 2022) has more than tripled. The recorded number of participants for last year was 35. The event was promoted the project website and the event website.

URL: <https://www.energyfinanceitalia.it/>

2.3.3.2 IAIL 2023 – IMAGINING THE AI LANDSCAPE AFTER THE AI ACT

Date: 27 June 2023

Objective: This workshop, organised by CNR, was a live event that took place in the Design Offices Macherei in Munich, Germany. The objective of the workshop was to consider, from a multidisciplinary point of view (i.e., law experts and technicians), how the new EU regulation proposal could shape the AI technologies of the future. The event was structured into 2 invited talks from international experts, and the presentation of 6 papers. The event was a satellite event of a second edition conference. Although there were only 6 papers, the event attracted a good number of participants proving that the interest in the area was high. Both of the talks raised many questions which generated good discussions.

Outcome: The AI Act will shape the ethics around Artificial Intelligence and the laws that will be required to keep society safe, so it is hugely important that the project keeps abreast of the cutting edge of AI advancements and the AI community. It is also imperative that the project remains in close contact with law experts to help shape and guide laws and policies from a fair and ethical perspective. Josep Domingo-Ferrer, a member of SoBigData++ consortium, was one of the invited expert speakers. During this presentation, the goals of the SoBigData++ project, and the tools that are made available within it, were described to promote and disseminate the project's resources. This event was another step in getting the SoBigData++ RI to be synonymous with ethical, open and fair data science.

Participants: There were approximately 20 participants for this event with an equal split between the genders. Between 6-10 were in the 18-30 age range and between 11-15 were aged between 30-50. The event was aimed at teaching/academic institutions, researchers and law and policy makers. There were approximately 6-10 in each of the categories, PhD researchers and early-career researchers and there were between 1-5 in both the academics and policy makers categories. The event was promoted via the usual SoBigData++ channels of email contacts, the website and Twitter, and also by other entities (TAILOR, HumanE-AI-Net, CoHuBiCol) mailing lists, institutions mailing lists, conference website and social media.

URL: <http://iail2023.isti.cnr.it/>

2.3.3.3 XKDD 2023 – INTERNATIONAL WORKSHOP ON EXPLAINABLE KNOWLEDGE DISCOVERY IN DATA MINING (AS PART OF ECML PKDD)

Date: 18 September 2023

Objective: This event was a workshop organised by UNIPI in conjunction with Politecnico di Torino, Intesa San Paolo and the Warsaw University of Technology. The event was a full day workshop within the ECML PKDD conference. There were 2 keynote speakers: Andreas Theissler, from Aalen University, and Stefano Teso, from the University of Trento. Twelve papers were also presented.

Outcome: There was a good number of participants and interesting discussions were generated at the end of each speech; both in the case of the invited speakers, who were really appreciated by the audience, and for the presentations of the accepted papers. This workshop dealt with the main research topics of the SoBigData project - in particular, the open challenges of XAI, as well as how to allow the possibility of an ethical AI.



Figure 6: Photograph of the XKDD 2023 Workshop participants

Participants: There were approximately 70 participants with 30 being female and 40 being male. It is estimated there were between 16-20 participants in each of the age categories: 18-30, 30-50 and over 50. The event was aimed at researchers and those working in industry. There were between 1-5 undergraduates/postgraduates, 16-20 PhD researchers, 16-20 early career researchers and 11-15 academics. From industry there were approximately 1-5 and there were 11-15 data analysts.

URL: <http://xkdd2023.isti.cnr.it/>

2.3.3.4 LQ2023 – 3RD INTERNATIONAL WORKSHOP ON LEARNING TO QUANTIFY: METHODS AND APPLICATIONS

Date: 18 September 2023

Objective: This workshop, held in Torino, Italy, was organised jointly by CNR, the University of Dortmund and the University of Oviedo and was part of ECML/PKDD 2023 conference. The preceding day there was a half-day tutorial on the same topic given by Alejandro Moreo and Fabrizio Sebastiani (both from CNR). The workshop consisted of seven 20-minute presentations of contributed papers and one final 30 minute brainstorming discussion in which those that were perceived as the most important issues in the discipline were addressed. Of the seven papers, 3 were completely original while 4 had been either submitted, accepted or published at other venues during 2023. Although this event was an ‘in person’ event, it also provided virtual participation and the proceedings, tutorial and a video recording of the workshop is available via the link below.

Outcome: The event was successful, and each of the seven presented papers sparked a lively discussion. In particular, the final discussion session focused on the issue that the community perceives as the most important, i.e., evaluation. This final brainstorming session engaged all participants in an intense discussion; in particular, the lack of datasets specific to quantification was addressed, as was the need for a 2024 edition of the LeQua shared task, whose 1st and only edition so far has taken place in 2022. This event has specifically benefitted the SoBigData++ project as one of the organisers of the workshop became involved in this field as a result of a 1 month visit to CNR funded by the project’s TNA program.

Participants: There were 20 participants of this event, with 8 being female and 12 being male. Between 1-5 were between 18-30 years of age, between 6-10 were in the 30-50 years of age bracket and between 6-10 were estimated to be over 50 years of age. The event was aimed at teaching/academic institutions, researchers and those working in industry. It attracted between 1-5 undergraduates/postgraduates, 1-5

researchers, 6-10 early career researchers and 11-15 academics. The event also attracted between 1-5 individuals from industry. The event was promoted via the workshop website, mailing lists and the SoBigData++ project website.

URL: <https://lq-2023.github.io/>

2.3.3.5 RKDE 2023

Date: 18 September 2023

Objective: Responsible Knowledge Discovery in Education (RKDE) was organised by UNIPI and presented as part of the ECML/PKDD conference. The purpose of the RKDE workshop and tutorial, was to encourage principled research that could lead to the advancement of explainable, transparent, ethical and fair data mining and machine learning in the context of educational data. The workshop sought top-quality submissions addressing uncovered important issues related to ethical, fair, explainable and transparent data mining and machine learning in education. RKDE was organised into two sections: a tutorial to introduce the audience to the topic, and a workshop to discuss recent advances in the research field.

Outcome: The tutorial, with hands-on practice provided by SoBigData RI's Jupyter Hub, provided a broad overview of state-of-the-art developments in major applications for responsible approaches and their relationship with the educational context. Moreover, it presented hands-on case studies that practically showed how knowledge discovery tasks can be responsibly addressed in education. During the workshop researchers presented 7 top-quality submissions addressing pertinent issues related to ethical, fair, explainable and transparent data mining and machine learning in education. Papers were related to application experiences, tools, promising preliminary ideas, and positions. The tutorial presented the use of analytical methods for Education data. This theme is very topical in the community of e-learning analytics but not so much in the machine learning community; so this event aimed to disseminate these developments and ultimately to enlarge the community.

Participants: There were 30 participants, with 7 being female and 23 being male. Approximately 11-15 were in the 18-30 age bracket and 16-20 were in the 30-50 years age bracket and between 1-5 were estimated to be over 50. This event was directed towards researchers and data analysts. It was estimated that 11-15 were PhD Researchers, 1-5 were early career researchers and between 16-20 were academics.

URL: <http://rkde2023.isti.cnr.it/>



Figure 7: Photograph showing the proceedings of RKDE 2023

2.3.3.6 XAI.IT

Date: 8 November 2023

Objective: Organised by UNIPI, this workshop was a hybrid dissemination event held in Rome but with virtual access made available. The workshop's aim was to address the key and highly topical concerns regarding AI and its use in our everyday lives. Where the approach is often about maximising effectiveness and less about explainability and transparency, this workshop provided a forum for the Italian community to discuss problems, challenges and innovative approaches in the various sub-fields of AI.

Outcome: The event was reported to have gone well with good participation from the audience. The subject matter of this workshop is highly topical and aligns with the project's ethos of fairness, openness and transparency and directly relates to the Social Impacts of AI and Explainable Machine Learning exploratory within the project.

Participants: The event attracted 15 participants, 5 of which were female and 10 were male. There were between 6-10 participants in each of age brackets; 18-30, 30-50 and over 50 years of age. The event was primarily aimed at teaching/academic institutions. No data of stakeholder type was taken. The event was advertised on the SoBigData++ website and via the project's dissemination email lists.

URL: <https://beyondaccuracy-userprofiling.github.io/xai-it-2023/index.html>

2.3.4 Schools

2.3.4.1 DIGITAL METHODS SUMMER SCHOOL

Date: 3-14 July 2023

Objective: The Digital Methods Initiative (DMI), organised by UvA, held its annual Summer School in Amsterdam, the Netherlands. This year's edition was called 'Prompting and other algorithmic curiosities'. The format was that of a (social media and web) data sprint, including tutorials as well as hands-on work for telling stories with data. The event went very well and the organisers received highly positive feedback from the participants with many expressing interest in returning to a future event.

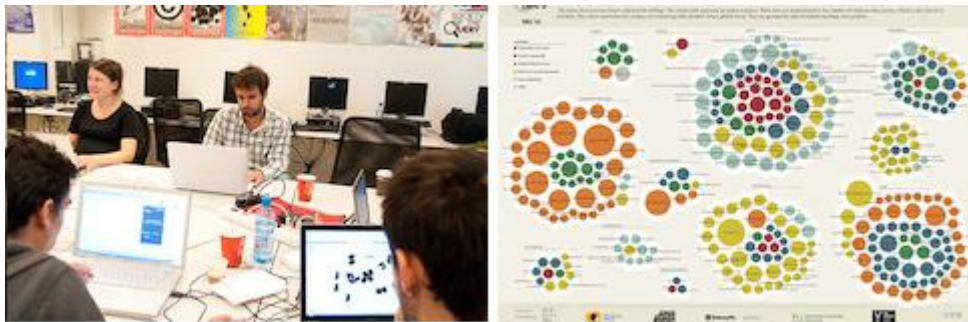


Figure 8: Left, class during the School; right, some of the work carried out

Outcome: The DMI Summer School benefitted the SoBigData++ project by providing training in computational methods and also in conducting research using those methods. It is expected that this training will result in academic publications.

Participants: There were approximately 139 participants with an equal split between the genders. It is estimated that there were over 50 participants in each of the 18-30 and 30-50 age categories and between 6-10 in the over 50s age bracket. The event was aimed at teaching/academic institutions, researchers and data analysts. There are between 31-40 in each of the undergraduate/post graduate, PhD Researchers, early career researchers and academics and between 16-20 in the data analyst category. Two female participants benefitted from the SoBigData++ Diversity and Inclusion Award to assist them in attending the event. The event was promoted via distribution lists and Twitter.

URL: <https://wiki.digitalmethods.net/Dmi/SummerSchool2023>

2.3.4.2 RESPONSIBLE DATA SCIENCE FOR SOCIETY: MODELS, ALGORITHMS, TRUSTWORTHY AI

Date: 9-15 July 2023

Objective: Data Science and AI play an increasingly important role in our daily life. AI, with its applications, are essential tools for the ethical and responsible progress of our multicultural and interconnected society. The school for 'Responsible Data Science for Society: Models, Algorithms, Trustworthy AI' introduces participants to selected topics to better understand the complexity of our world from the data scientist's perspective. The school was structured with a balanced mix of talks and hands-on sessions.

Outcome: The event was fully booked and the participants were very enthusiastic about the sessions on offer. Out of all the speakers, 65% were male and 35% were female, whereas in the organising committee 50% were male and 50% were female. The school allowed for a number of socialising opportunities to provide further opportunities for building relationships. For example, there was a boat tour of both Lipari and Salina islands, followed by a visit to the volcano on Vulcano island and a social dinner. The whole school was designed around the topics of SoBigData. All the speakers were from the SoBigData Community and the Research Infrastructure was used and showcased throughout the event.

Participants: There were 34 participants at this event, with 10 being female and 24 being male. Between 31-40 were between the ages of 18-30 and between 1-5 were over 50. The event was aimed at teaching/academic institutions, researchers and data analysts. There were between 16-20 PhD researchers and 16-20 early career researchers, between 1-5 academics and between 21-30 data analysts. The event was promoted through all usual channels: the project website, mailing lists and also the project's social channels - X (formerly Twitter), Facebook, Instagram and LinkedIn.

URL: <http://sobigdata.eu:8020/sbd-summer-school-2023>



Figure 9: Lipari Summer School on Responsible Data Science for Society

2.3.4.3 LIPARI SCHOOL ON COMPUTATIONAL COMPLEX AND SOCIAL SYSTEMS

Date : 16 – 22 July 2023

Objective: This 2023 edition of the PhD Lipari School on Complex and Social Systems was organised by UNIFI in conjunction with the University of Catania. The school dealt with the topic "Spreading and accessing information" coming from many sources and with the use of several models of computations. The PhD school has seen the participation of many prestigious speakers coming from all around the world (MIT, ETH, CSH Vienna, Protocol Labs, Tel Aviv, LENS and Univ Florence, Columbia), and PhD students interested in various aspects of Big Data applications. The school offered a special session describing SoBigData and its RI platform, with a description in particular of two libraries/methods: one on mobility and one on BioMed Knowledge Graphs, thus covering two of the most participated in topics of the school. Moreover, Paolo Ferragina gave a lecture on Data compression and indexing, one key topic of SoBigData, with a mention on some advanced tools that will be part of the RI platform.

Outcome: This event disseminated the benefits of using the SoBigData RI, its offered methods, applications and libraries. It also described to the participating PhD students and professors the possibilities offered by the TNA opportunity. Moreover, the interactions among students and speakers with the SoBigData partners have helped to disseminate the achieved scientific results that will possibly spur new collaborations. Particularly interesting were the discussions around the PhD students and their studies and the speakers providing helpful hints and suggestions to them.

Participants: This school attracted 41 participants with approximately 10 being female and 31 male. There were between 21-30 between the ages of 18-30 and between 11-15 were in the 30-50 age bracket. Between 6-10 were estimated to be over 50 years of age. The event was aimed at teaching/academic institutions and researchers. Between 21-30 were PhD students, between 1-5 were early career researchers and between 11-15 were academics. The project website, Twitter and email distribution lists were used to promote the event as well as personal contacts and the organisers' personal mailing lists. The event also posted updates on Facebook in real time - <https://www.facebook.com/liparischool> (Figure 11).

URL: <https://complex23.liparischool.it/> and <https://www.facebook.com/liparischool>



Figure 10: A collage of photographs taken at the event - Lipari Summer School

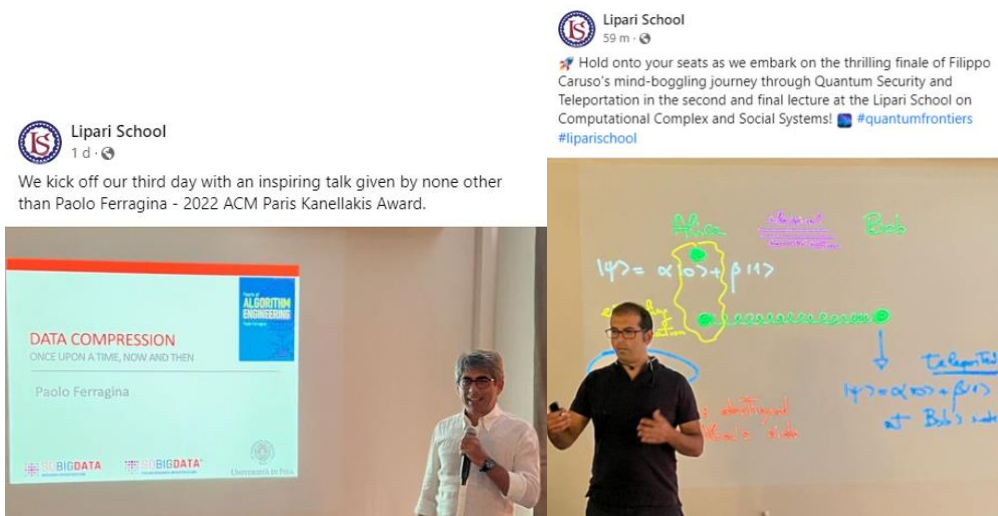


Figure 11: Two examples of the posts added daily to Facebook throughout the event.

2.3.5 Other Events

2.3.5.1 VALÉRY GISCARD D'ESTAING DINNER WITH COMMISSIONER MS VĚRA JOUROVÁ

Date: 19 July 2023

Objective: This was a dinner entitled in honour of France’s late president and involved various high-level officers of the European Commission (including Commissioner Ms Věra Jourová) and Members of the European Parliament. Jeroen van den Hoven represented SoBigData++, however, no further details of the event have been obtained.

Outcome: Although there is no specific outcome to report, attendance at this dinner is a demonstration of how the project is reaching a very high level, right at the top of policy making. Representation at such high profile events will ensure the project remains on the radar at the highest levels.

Participants: Not applicable

URL: Not available

2.3.5.2 DIGITAL WITH PURPOSE

Date: 27 September 2023

Objective: Organised by GeSI and Re-Imagine Europe (RIE), Digital with Purpose took place in Lisbon, Portugal. Although most of the speakers were there in person, the event was hybrid, offering virtual attendance. SoBigData's Roberto Trasarti was a speaker at this event about the European Health Data Strategy and the future of healthcare data in general. The panel in which he participated included RIE's Research and Media Director Luca De Biase (moderator), Federica Alberti, Director of the Wellness Foundation, Jonathan Andrus, President and Chief Operating Officer of CRIO and member of the board of the Society for Clinical Data Management. This event was open to everyone and therefore was aimed at all areas of society including teaching/academic institutions, researchers, data analysts, industry, law and policy makers, public administration and the general public.

Outcome: The panel was featured in a high-level three-day conference including many of the most prominent actors working on the sustainability of digital technologies. This forum provided a strong platform for Roberto Trasarti, as the leading project manager of SoBigData++, to discuss and promote the opportunities and resources available via the project's Research Infrastructure. The event was extremely positive and allowed Roberto Trasarti to establish new and interesting relationships in the field of healthcare data at the same time as providing the project with greater exposure – especially to those prominent actors.



Figure 12: A photograph of Roberto Trasarti discussing the SoBigData++ Infrastructure

Participants: In the room there were approximately 30-40 participants, and there were also the online participants. Unfortunately, no data was ascertained regarding how many participants were online and as this event was not organised, or run, by SoBigData++ the project was unable to obtain this information. It was estimated in the room that the split was 40% female and 60% male. No breakdown of ages or stakeholder type was obtained. The event was promoted via the Re-Imagine Europa's website and the usual SoBigData++ channels.

URL: <https://re-imagine.eu/big-data-to-build-a-stronger-and-safer-healthcare-system>

<https://event.digitalwithpurpose.org/> - See no. 7 for a recording of the discussion

2.3.5.3 CHALLENGE US

Date: 24 November 2023

Objective: Organised by University of Tartu and CNR, the final event of the Challenge Us program was dedicated to presenting the projects of the companies that have won the 2023 edition of the Challenge Us. Each company presented the work done and the results obtained. The event was fully virtual to facilitate the presence of the companies. For more details about the Challenge Us program, see WP5 deliverables. This event was open to everyone and therefore was aimed at all areas of society including teaching/academic institutions, researchers, data analysts, industry, law and policy makers, public administration, and the general public.

Outcome: The event allowed the consortium to enlarge the connection between academy and industry sector.

Participants: In the virtual room there were about 40 people, from research and industry sector

URL: <http://www.sobigdata.eu/events/challenge-us-2023-proof-concepts-showcase>



Figure 13: A screenshot of the welcome presentation by Roberto Trasarti

2.3.5.4 SOBIGDATA AWARD FOR DIVERSITY & INCLUSION

Objective: Final events of the SoBigData Award for Diversity & Inclusion, a bursary system to facilitate participation of underrepresented scholars from minorities in conferences and events. This action has been developed by project partners KCL and CNR. The internal committee selected two conference where to give the bursary. For details, see *D4.3 - Periodic Training Reports and planning for the next period 2*. For the first conference (ECML PKDD), in conjunction with WP4, we decided to hold a live event featuring the awardees on [YouTube](#), who had the chance to discuss diversity and inclusion in the field and the challenges that they face in their research work. For the second conference (IEEE DSAA), we interviewed the winners and published the video on the SoBigData RI [YouTube channel](#).

Outcome: The expected impact of this award is to contribute to overcoming the D&I problem in STEM disciplines.

Participants: The first event was attended by around 15 people, while the interviews on the YouTube channels were viewed by around 350 people.

URL: [YouTube channel](#) Playlist: SoBigData for Diversity & Inclusion.

2.4 Other Events where SoBigData++ has been presented

Apart from the events where SoBigData++ was an organiser, or co-organiser, there have been a number of other events where SoBigData++ was presented or discussed. Again, this demonstrates how the project reaches out beyond its usual circle and widens participation by promoting and discussing SoBigData++ where there is an appropriate audience. Table 7 details the other events where SoBigData++ was presented.

Date	Event with link	Type of Event	How was SoBigData++ Presented?
Jan 2023	(provisional title) Countering hybrid threats and antidemocratic propaganda No URL	Conference	Presentation of results from work within SoBigData
Jan/Feb 2023	FENCE final conference No URL	Conference	Presentation of results from work within SoBigData
Feb 2023	Software Heritage annual community event https://www.softwareheritage.org/symposium-and-summit-2023/	Symposium & Summit	Presentation of results from work within SoBigData
27 Feb – 3 March 2023	WSDM 2023 - ACM International Conference on Web Search and Data Mining https://www.wsdm-conference.org/2023/	Conference	Paper Presentation
30 April 2023	SocialNLP, in conjunction with ACM The Web Conference 2023 https://sites.google.com/view/socialnlp2023/home	Workshop	Paper Presentation
9 May 2023	Exploring Privacy Risk Exposure by Machine Learning https://www.bsc.es/research-and-development/research-seminars/sorswomeninbsc-exploring-privacy-risk-exposure-machine-learning	Seminar	
19 June 2023	The 2nd Explainable AI for Computer Vision (XAI4CV) Workshop at CVPR 2023 https://cvpr2023.thecvf.com/	Workshop	Presentation of results from work within SoBigData
18 – 20 Sept 2023	Data Science Introductory course at DIPSCO (Dept. of Psychology and Cognitive Sciences of Università di Trento) https://github.com/GiulioRossetti/DIPSCO_Python_Data_Analysis/tree/main	Seminar	Use of the RI to perform hands-on lectures
19 Sept 2023	The 10th commission of the Italian Parliament on "Production Activities, Trade and Tourism" (Chamber of Deputies) has started carrying out the fact-finding survey on artificial intelligence: opportunities and risks for the Italian production system https://www.camera.it/leg19/1347?shadow_organo_parlamentare=3510&id_tipografico=10	Workshop	Invited talk on AI

Date	Event with link	Type of Event	How was SoBigData++ Presented?
20 Sept 2023	BIF Talks: Digital Justice https://www.onuitalia.it/event/bif-talks-digital-justice/	Workshop	Invited talk on AI and its impact
18 Oct 2023	PSE Applied Economics Seminar https://www.parisschoolofeconomics.eu/en/research/academic-activity/seminars/applied-economics-lunch-seminar/	Seminar	Seminar presentation on: Skin tone penalties: bottom-up discrimination in football' - Use of skin tone detection algorithm and proving the existence of algorithmic discrimination
18 – 21 Oct 2023	Association of Internet Research Conference https://aoir.org/aoir2023/preconworkshops/	Workshop	Presentation
06 Nov 2023	Uppsala Immigration Lab: Brown Bag Seminar No URL	Seminar	Seminar presentation on: "Intergenerational Impact of Cultural Risk Aversion: Educational and Labor Market Outcomes among Second-Generation Migrants in Sweden".
06 Nov 2023	Stockholm University: Economics Department Weekly Brown Bag No URL	Seminar	Seminar presentation on: "Intergenerational Impact of Cultural Risk Aversion: Educational and Labor Market Outcomes among Second-Generation Migrants in Sweden".
07 Nov 2023	Stockholm University: SOFI Weekly Brown Bag No URL	Seminar	Seminar presentation on: "Intergenerational Impact of Cultural Risk Aversion: Educational and Labor Market Outcomes among Second-Generation Migrants in Sweden".
09 Nov 2023	Stockholm University: Demography Unit Colloquium No URL	Colloquium	Seminar presentation on: "Intergenerational Impact of Cultural Risk Aversion: Educational and Labor Market Outcomes among Second-Generation Migrants in Sweden".
13 Nov 2023	Intelligenza artificiale e mercato del lavoro: impatto sull'occupazione	Workshop	Invited talk on AI and its impact
16 Nov 2023	Artificial Intelligence and Human Rights EJTN Human and Fundamental Rights Project No URL This is an "closed" Webinar of the EJTN group limited to European judges, prosecutors and court staff	Webinar	Invited talk on the search engine for civil judgements from the Court of Pisa, developed for the PNRR "Giustizia Agile" project
23 Nov 2023	16th Collegio Alberto Workshop in Economics https://www.workshopecon.carloalberto.org/	Workshop	Accepted submission at workshop for Skin tone penalties: bottom-up discrimination in football'
28 Nov 2023	University of Tubingen Lectures in Sport Economics No URL	Guest Lecture Series	Invited talk to present: Skin tone penalties: bottom-up discrimination in football'
28 Nov 2023	RICH EUROPE Project https://rich-europe.eu/webinar-on-transnational-and-virtual-access-november-2023-edition/	Webinar	Transnational Access Webinar – to present SoBigData++'s TNA opportunities
30 Nov 2023	Scientific Symposium on the "30th Years Max Planck Institute for Informatics" https://30years.mpi-inf.mpg.de/	Symposium	Invited talk on learned and compressed data structures

Table 7: List of other events where SoBigData++ was presented

2.5 Scientific Publications

The project has not only met but far exceeded expectations in terms of scientific output, showcasing a prolific research community that consistently produces a remarkable number of articles. This level of productivity, extending well beyond the anticipated 30 articles per year, underlines the dynamic and highly engaged nature of the research community involved in the project. Table 8 shows the total number of scientific publications since the start of the project, i.e., 550. The vast majority are open access – either green or gold.

Papers Published in OpenAire Portal	Period 1 (M1-18)	Period 2 (M19-36)	Period 2 (M37-48)
Open Access	67	243	512
Restricted	6	6	6
Closed Access	2	15	21
Embargo	0	1	1
Total	75	266	550

Table 8: The number of scientific publications in each year of the project as reported on OpenAire portal

The graph provides a comprehensive overview of annual publication output and shows a consistently high level of productivity from the start of the project. Notably, the first year shows a slightly lower output, a phenomenon likely to be attributed to the disruptive effects of the COVID-19 pandemic, which caused delays or interruptions in various activities. Despite this initial challenge, subsequent years show a robust and sustained level of scientific output, highlighting the vibrancy of the research community.

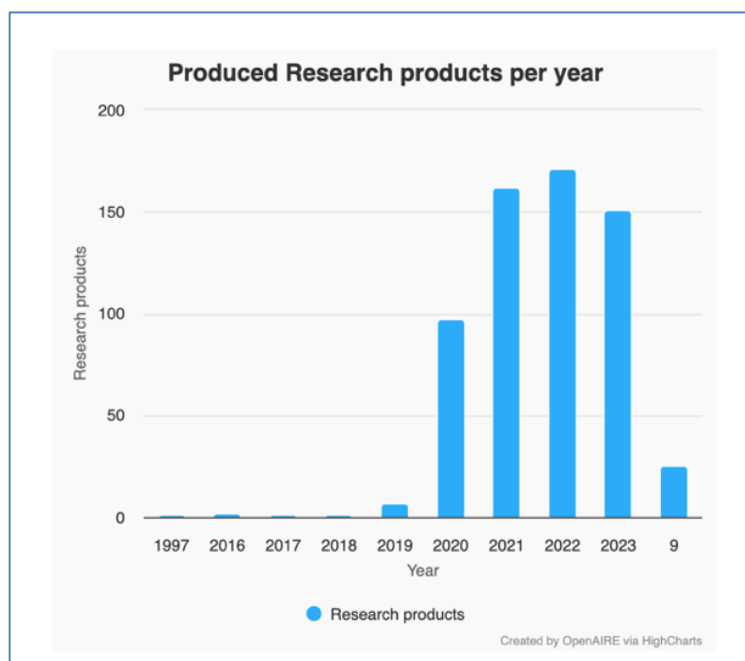


Figure 14: Production of publications per year

Table 9 lists the publications during this Reporting Period.

Syigma portal No.	Type	Title	Authors
207	Article in Journal	<i>Gender Bias When Using Artificial Intelligence to Assess Anorexia Nervosa on Social Media: Data-Driven Study</i>	David Solans Noguero; Diana Ramírez-Cifuentes; Esteban Andrés Ríssola; Ana Freire
208	Article in Journal	<i>Directed Percolation in Random Temporal Network Models with Heterogeneities</i>	Badie-Modiri, Arash; Rizi, Abbas K.; Karsai, Márton; Kivelä, Mikko
209	Article in Journal	<i>a case for machine learning-induced epistemic injustice in healthcare</i>	Giorgia Pozzi
210	Article in Journal	<i>Arbitrageurs in the Bitcoin Ecosystem: Evidence from User-Level Trading Patterns in the Mt. Gox Exchange Platform</i>	Pietro Saggese; Alessandro Belmonte; Nicola Dimitri; Angelo Facchini; Rainer Böhme
211	Article in Journal	<i>Disarming visualization-based approaches in malware detection systems</i>	Lara Saidia Fascí; Marco Fisichella; Gianluca Lax; Chenyi Qian
212	Article in Journal	<i>Trajectory test-train overlap in next-location prediction datasets</i>	Massimiliano Luca; Luca Pappalardo; Bruno Lepri; Gianni Barlacchi
213	Publication in Conference proceedings/Workshop	<i>SismaDL an ontology to represent post-disaster regulation</i>	Carocchia, Francesca; D'Aloisio, Giordano; DI MARCO, Antiniscia; Stilo, Giovanni
214	Article in Journal	<i>Attributed Stream Hypergraphs: temporal modeling of node-attributed high-order interactions</i>	Andrea Failla; Salvatore Citraro; Giulio Rossetti
215	Publication in Conference proceedings/Workshop	<i>Quality-Driven Machine Learning-based Data Science Pipeline Realization: a software engineering approach</i>	Giordano d'Aloisio
216	Publication in Conference proceedings/Workshop	<i>Demystifying Misconceptions in Social Bots Research</i>	Cresci, Stefano; Di Pietro, Roberto; Spognardi, Angelo; Tesconi, Maurizio; Petrocchi, Marinella
217	Article in Journal	<i>Fair detection of poisoning attacks in federated learning on non-i.i.d. data</i>	Ashneet Khandpur Singh; Alberto Blanco-Justicia; Josep Domingo-Ferrer
218	Publication in Conference proceedings/Workshop	<i>Workflows for bringing data science on the cloud/edge computing continuum</i>	Dazzi P.; Grossi V.; Trasarti R.
219	Article in Journal	<i>Explainable AI for malnutrition risk prediction from m-Health and clinical data</i>	Flavio Di Martino; Franca Delmastro; Cristina Dolciotti
220	Article in Journal	<i>Changes in Upper-Body Muscular Strength and Power in Paralympic Swimmers: Effects of Training Confinement during the COVID-19 Pandemic</i>	Luca Cavaggioni; Alessio Rossi; Massimiliano Tosin; Raffaele Scurati; Giovanni Michielon; Giampietro Alberti; Giampiero Merati; Damiano Formenti; Athos Trecroci
221	Publication in Conference proceedings/Workshop	<i>Reconciling econometrics with continuous maximum-entropy network models</i>	Marzio Di Vece; Diego Garlaschelli; Tiziano Squartini
222	Article in Journal	<i>Future directions in human mobility science</i>	Luca Pappalardo; Ed Manley; Vedran Sekara; Laura Alessandretti
223	Publication in Conference proceedings/Workshop	<i>How accurate are neural approximations of complex network dynamics?</i>	Vasiliauskaite, Vaiva; Antulov-Fantulin, Nino
224	Publication in Conference proceedings/Workshop	<i>Leveraging Inter-Rater Agreement for Classification in the Presence of Noisy Labels</i>	Maria Sofia Bucarelli; Lucas Cassano; Federico Siciliano; Amin Mantrach; Fabrizio Silvestri
225	Article in Journal	<i>Modelling exposure between populations using networks of mobility during COVID-19</i>	Tuomas Takko; Kunal Bhattacharya; Kimmo Kaski

226	Publication in Conference proceedings/Workshop	<i>Visualizing Overlapping Biclusterings and Boolean Matrix Factorizations</i>	Marette, Thibault; Miettinen, Pauli; Neumann, Stefan
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Table 9: List of the scientific publications during this Reporting Period

2.6 SoBigData++ Magazine

The project also publishes a bi-annual newsletter, called SoBigData Magazine, with the latest news on the project, a selection of the scientific production, proposed here in a popularised form, news on project events and reports on past events. The magazine also contains a selection of articles extracted from the blog. The magazine is accessible in both a virtual and printable version and is published on social media channels and on the project website in pdf format and disseminated through specific mailing lists - <http://www.sobigdata.eu/newsletter>.

The communications team is currently in the process of a comprehensive redesign for the magazine, aimed at aligning it more effectively with evolving requirements and expectations of the SoBigData RI. The first issue featuring the new layout is scheduled for release in February 2024.

The new version of the magazine has an Editorial Board composed by Roberto Trasarti (CNR) as Director, Michela Natilli as Scientific Manager, Daniele Fadda as Chief Editor and the editorial staff Marco Braghieri (KCL), Katia Genovali (CNR), Valerio Grossi (CNR), Michela Natilli (CNR), Beatrice Rapisarda (CNR).

2.7 Impact of Social Media

The numbers in terms of audiences for SoBigData are very encouraging. For each social media platform used, the numbers increased, not only in terms of people joining the community, but also in terms of visualisations, impressions, and interactions. We have introduced an additional social media channel, Instagram¹, to exploit the potential of a more visual medium. Since July 2023, we have been posting short videos and reels as part of our communication strategy toward students, and young researchers promoting the events and TNA experience.

2.7.1 Dissemination Impact

In Deliverable D3.1 - "Initial Dissemination and Impact Plan" we have defined a set of indicators to monitor the success of the communication activities. The success of the communication activities is closely monitored and reported in the periodic activity deliverables. We will be following the dissemination map to ensure we reach the intended stakeholder targets and keep a comprehensive record of the categories and numbers of stakeholders approached.

2.7.2 Project Dissemination Indicators

Table 10 reports the indicators defined in deliverable D3.1 - Initial dissemination and impact plan. The indicators represent some metrics to evaluate the dissemination activities. The extend of audience reached

¹ <https://instagram.com/sobigdata>

includes all the audience reached through the activities done within the various communication channels of the project, in particular social media, website, press coverage and events, as shown in Table 11.

The Number of SMEs, big companies and other institutional stakeholders includes all the various stakeholders engaged through the dissemination activities of the project. A description of this success indicator can be found in Section 4 “Stakeholder Analysis”.

Success Indicators	Target Reporting Periods		
	1	2	3
Extent of audience reached	2,500	5,000	6,500
Number of SMEs, big companies and other institutional stakeholders engaged through all dissemination activities (Companies & Institutions)	100	150	200
Papers published on OpenAIRE portal	30	60	90

Table 10: Success Indicators for Reporting Period 1, 2 and 3

Channel	Period 1 (M1-18)	Period 2 (M19-36)		Period 3 (M37-48)	
		Metrics	Extent of audience reached	Metrics	Extent of audience reached
Website	19868	-Blog posts: 35 -Visits: 26217 -Page Views: 38511 -Page/Visits: 1.7	26217	data not available ²	
Twitter (X)	1508	-Tweets: 188 -Visualizations: 67125 -Interactions: 2796 -Retweets: 323 -Likes: 481 -Followers: 1804	1804	-Tweets: data not available -Visualizations: 47876 -Interactions: 2532 -Retweets: 188 -Likes: 460 -Followers: 2065	2065
Facebook	495	-Posts: 141 -Interactions: 306 -Audience Coverage: 1229 -Followers: 528 -Visits:	1229	-Posts: 48 -Interactions: 393 -Audience Coverage: 4664 (+279,5%) -Followers: 556 -Visits: 942 (+150,5%)	4664
Instagram	-	-	-	-Posts: 25 -Stories: 14 -Interactions: 180 -Audience Coverage: 1079 -Followers: 140 -Visits: 357 (+100%)	1079
YouTube	917	-YouTube channel subscribers: 81 -Video views: 2811 -Single video impressions: 17.500	2811	-YouTube channel subscribers: 108 -Video views: 3578 -Single video impressions: 42.600	3578
LinkedIn	N.A.	-Followers: 334	334	-Followers: 570	570

² Due to technological update on the content management system supporting sobigdata.eu website, we cannot provide exhaustive data for the website in the second period.

Selected Events	3416	-Total number of participants: 1830 -Male participants: 1103 -Female participants: 709	1830	-Total number of participants: 819 -Male participants: 495 -Female participants: 324	819
<i>Total</i>	26204		34225		12775 <i>(excluded website visitors)</i>

Table 11: Extent of audience reached for reporting period 2

As we can see in Table 11, we have largely achieved the success indicators set out in D3.1. The results show that the SoBigData community continues to grow, thanks to the variety of activities carried out and a very active consortium. A remarkable result has been achieved on Facebook, with an increase of almost 300% in audience coverage, although the number of posts published is less than 50% compared to the previous period.

On YouTube, even if the number of new subscribers is almost irrelevant, the number of individual video impressions in period 2 (42,600) is double that of period 1 (17,500). We paid more attention to the design and preparation of the videos, focusing more on the profile of the SoBigData stakeholders, which is constantly being defined. This allowed us to achieve high visualisation numbers for a few specific videos that drew the public's attention to these issues.

Interestingly, the number of followers of the SoBigData channels on LinkedIn has almost doubled. This is very important for our infrastructure as we try to engage more and more business and policy stakeholders of our interest who are particularly present on this platform.

Twitter (X) is almost stable, with a slow increase in the number of followers; it is mainly used to reach members of the scientific community to share news and stay updated on research and scientific news related to Big Data and AI.

The new entry in our social media platforms is Instagram, which we mainly use to show the life and activities of our researchers and to share public moments in special events we organise.

3 Future Planning

3.1 Overview of Future Events

Table 12 details future events that have been planned and will be included in more detail in the next deliverable.

Date	Event	Partner
8 - 12 Jan 2024	Digital Methods Winter School & Data Sprint: What actually happened? The use and misuse of open source intelligence (OSINT) http://www.sobigdata.eu/events/digital-methods-winter-school-and-data-sprint-2024 https://wiki.digitalmethods.net/Dmi/WinterSchool2024	UvA
13 February 2024	Empowering Enterprises through BigData and AI SoBigData++ Conference at the European Parliament, Brussels http://datastrategy2024.isti.cnr.it/index.html See Section 3.1.1 for further details.	CNR, RIE
February-April 2024	SoBigData Digital Coffee: A Shot of Big Data into Innovation, Entrepreneurship, Ethics and Impact – series of 4 webinars	SSSA
25 March 2024	CFP: 6th International Workshop on Big Mobility Data Analytics (BMDA 2024) https://www.datastories.org/bmda24/	CNR
16-22 June 2024	Empowering Data for Social Good	CNR - KCL
June 2024	AI & Society Summer School 2024 https://phd-ai-society.di.unipi.it/summer-schools/	UNIFI
14 – 20 July 2024	Computational Complex and Social Systems (Lipari Summer School) https://complex24.liparischool.it/	UNIFI
25 -27 Sept 2024	Privacy in Statistical Databases 2024 (PSD 2024) https://unescoprivacychair.urv.cat/psd2024	URV
Oct 2024	Discovery Science 2024 No URL	UNIFI

Table 12: The planned future events for the next reporting period of the project

3.1.1 Empowering Enterprises through BigData and AI: The European Data Strategy 2024

Date: 13 February 2024

This conference is a special event dedicated to industry leaders, innovators, and policymakers to converge and delve into the cutting-edge advancements, challenges, and European opportunities of Big Data and AI. The event has the aim of raise awareness in the business world about SoBigData, with a particular focus on SMEs and the upcoming developments (ESFRI - ERIC); to create a network of contacts and start new paths of collaboration between SoBigData and industry. A further goal is to highlight at the political level the role of the RI within the European research landscape, also considering its impending transition to ERIC.

4 Stakeholder Analysis Update

SoBigData RI collaborates with stakeholders with different backgrounds, including industries, researchers, non-profit organizations, public administrations, policymakers, international organizations, educational institutions, and journalists. SoBigData++ supported the SoBigData RI PPP in starting a comprehensive stakeholder analysis to identify, categorize, and analyze the stakeholders associated with the RI³. This analysis includes the relationships within SoBigData RI. As shown in Figure 15, the stakeholder composition of SoBigData RI highlights a notable emphasis on industry and researchers, underscoring the infrastructure's pivotal role in establishing 30 partnerships within the industrial sector. This collaboration leverages the expertise of SoBigData RI in data science to tackle societal challenges faced by businesses.

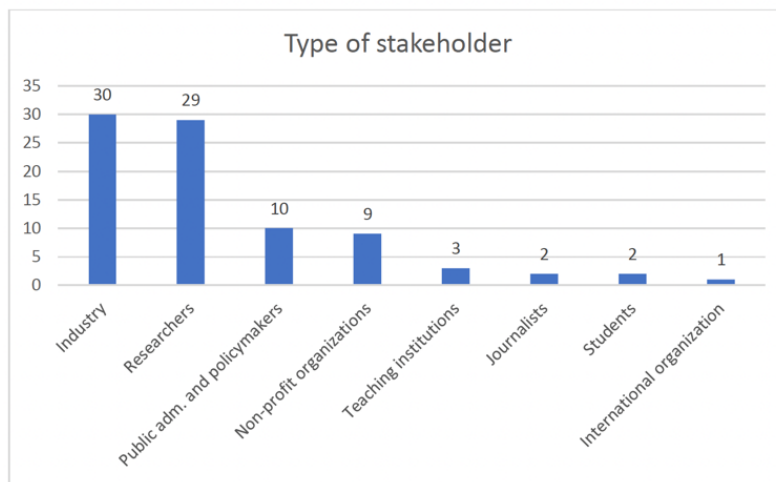


Figure 15: Distribution of stakeholder's types

SoBigData RI collaborates with its partners in diverse ways, encompassing four main types of engagement: training; development; consulting; and joint research. These categories illustrate the multifaceted nature of the interactions between the RI and the different stakeholders,

³ The results of the comprehensive stakeholder analysis are available in deliverable SoBigData RI PPP - D3.1 Stakeholder analysis - <https://data.d4science.net/8Sjx>

5 Updates on brand identity

In D3.3 - Dissemination and impact report and plan for following period 2, we presented the new brand identity of the RI and the related projects. After presenting the new brand identity to the consortium, we ensured that all the project's graphic materials, both print and digital, were updated. This includes the website and social media pages, the document template, the slide template, the SoBigData magazine, the brochure and any other graphic material needed for specific purposes (e.g. promotion of a project event).

SoBigData is an Infrastructure whose task is to strengthen and connect clusters of excellence of research concerning big data, social mining, and artificial. To best express, these values, a square, the graphic symbol par excellence of solidity and stability. The squares matrix represents the dynamism and the multiplicity of points of view that meet in SoBigData. Each square differs from the adjacent one by a slight variation in color, opacity, and scale, creating a significant vibration and enhancing the uniqueness of each element.

Figure 16 reports a screenshot of the redesigned website and Figure 17 the new slide template, while in the Annex 1 there is the new version of the project brochure.

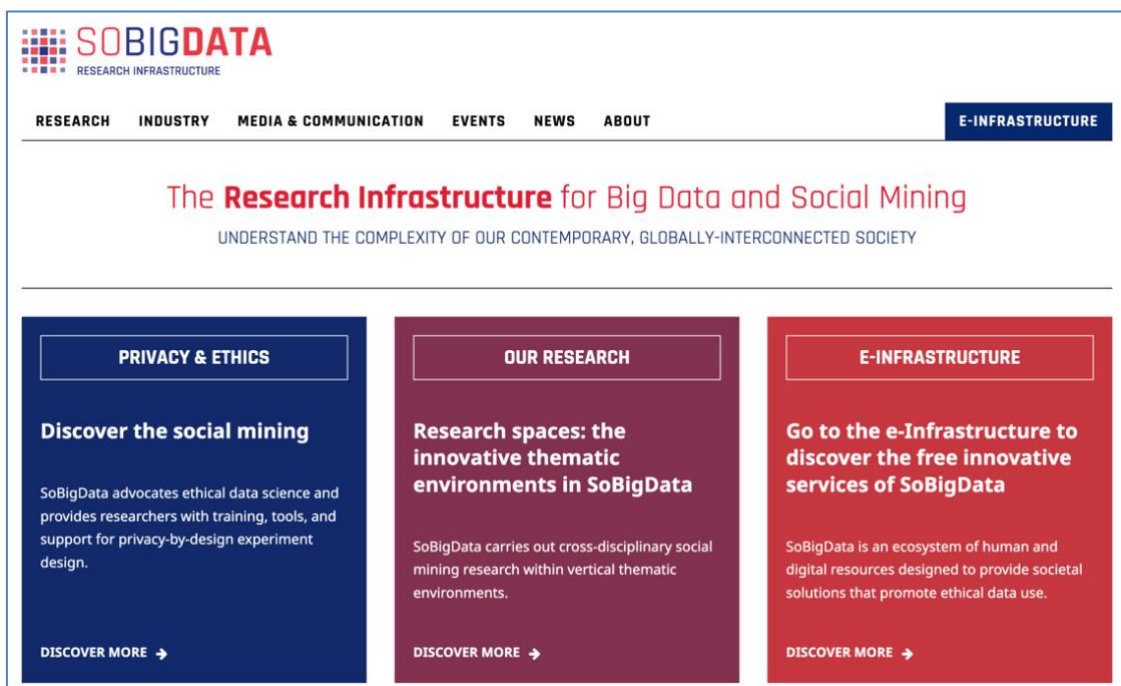


Figure 16: <http://www.sobigdata.eu/> home page



Figure 17: slides template

6 Conclusions

This deliverable provided an overview of the communication and dissemination activities carried out in the third period of the project (1 January 2022 - 31 December 2023), together with a report on the project's impact so far.

In the previous WP3 deliverable, we presented the new brand identity of SoBigData. The new deliverables since then, including this one, have been updated with the new document template, as can be seen especially from the cover page. In addition to the document template, all other graphic materials have been updated.

In terms of outreach activities to the general public, scientific communities and potential stakeholders, these have been varied and can be considered successful as they have met and even exceeded the KPI set out in D3.1. The list of events organised or co-organised by SoBigData++ and the list of events where SoBigData++ has been presented or discussed are numerous and show a very active consortium and scientific community.

The consortium has planned a number of events for this final year of the project. Among these, we would like to mention two events aimed at industry and policy makers, which are two key stakeholders we need to reach more. The two events are the upcoming conference (February 2024) at the EU Parliament "Empowering Enterprises through BigData and AI: The European Data Strategy 2024" organized by ISTI-CNR, and the series of 4 online webinars entitled: "SoBigData Digital Coffee: A Shot of Big Data into Innovation, Entrepreneurship, Ethics and Impact" organized by SSSA.

In addition to the list of events, the deliverable also includes a short description of a selection of the events held. It should be noted that the data collected shows a good gender balance.

Finally, the deliverable includes a short update of the stakeholder analysis done in synergy with the SoBigData RI PPP consortium.

Annex 1. The SoBigData RI brochure

What is SoBigData RI

SoBigData is a Research Infrastructure distributed across Europe, focused on research in data analytics and social mining

SoBigData aims to be a potential response to the growing demand for cross-disciplinary data-driven research and innovation, seeking to understand and model complex and relevant social phenomena

- 40 ML EURO
- 41 CONSORTIUM PARTNERS
- +12K RESEARCH PLATFORM USERS
- +400 DATASETS, METHODS, APPS
- +120 BUSINESS PARTNERSHIPS
- +5200 TRAINED STUDENTS
- +900 SCIENTIFIC PUBLICATIONS
- 175 PILOT PROJECTS
- 14 COUNTRIES

The European Research Infrastructure for Big Data Analytics and Social Mining

WHY SOBIGDATA

The high-level expertise of SoBigData researchers allows the infrastructure to provide a wide range of facilities, tools, and services to meet the needs of society

SoBigData facilitates enterprises in leveraging data for innovation in new products and services, market expansion, cost reduction, and profitability

SoBigData can be a reference point for public bodies and policymakers offering actionable data management and AI solutions

SoBigData RI receives funding from the European Union's - Project SoBigData++ No. 871042 - Program H2020-INFRA4 2019/2019 - Project SoBigData PPP No.101079043 - Program Horizon-INFRA-2021-DEY-02 - Project "SoBigData 2 - Strengthening the Italian RI for Social Mining and Big Data Analytics" (Accordo Nazionale - National Recovery and Resilience Plan (Piano Nazionale di Ripresa e Resilienza, PNRR) - Part. II(00000013) - Avviso n. 3284 del 28/10/2021)

The views expressed in this leaflet are the sole responsibility of the project consortium and do not necessarily reflect the views of the European Commission.

www.sobigdata.eu

www.sobigdata.eu

Figure 18: Brochure front

RESEARCH SPACES

- SOCIETAL DEBATES AND MISINFORMATION ANALYSIS
- DEMOGRAPHY, ECONOMICS & FINANCE 2.0
- SUSTAINABLE CITY FOR CITIZENS
- SOCIAL IMPACT OF AI AND EXPLAINABLE MACHINE LEARNING
- HEALTH STUDIES
- SOCIETAL AND INDUSTRIAL IMPACT OF NEXT-GENERATION INTERNET & BEYOND 5G
- PERVERSIVE INTELLIGENCE IN CYBER-PHYSICAL SYSTEMS FOR FUTURE SOCIETY
- DISASTER RESPONSE AND RECOVERY

Vertical contexts fostering tangible progress towards grand societal challenges

SERVICES

- Consulting service on AI and Big Data methods and algorithms
- Storage and computational services, cloud computing, secure storage, and access control
- Evaluation of ethical and legal risk consulting service for process design
- Partnership in project development, support for company project design and co-participation in EU calls
- Business-oriented training and educational initiatives along cutting-edge research
- Tailored training courses designed to the company's needs
- Digital integration among public platforms and services

PEOPLE AND FACILITIES

- High level expertise
Interdisciplinary researchers, distributed across our national nodes, collaborate to tackle challenges and drive innovation in diverse fields
- Computational facilities
Accessing advanced computing resources owned or connected to our national node

KEEP IN CONTACT

- www.sobigdata.eu
- twitter.com/sobigdata
- linkedin.com/company/sobigdata
- info@sobigdata.eu

RESEARCH NODES

Italy	Germany	Netherland
Austria	Estonia	Poland
Belgium	Spain	Finland
Bulgaria	France	Sweden
Switzerland	Greece	

COORDINATED BY

Figure 19: Brochure back