

MULTIDIMENSIONAL INTEGRATED QUANTITATIVE APPROACH TO ASSESS SAFETY AND SUSTAINABILITY OF NANOMATERIALS IN REAL CASE LIFE CYCLE SCENARIOS USING NANOSPECIFIC IMPACT CATEGORIES

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Author(s)	Stopponi C., Truffa S.

D6.1 First PDER including communication activities, and updates







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1	01/02/2024	Stopponi C. Truffa S.	First draft to be shared
1.1	25/03/2024	Stopponi C., Truffa S.	First review
1.2	29/03/2024	Stopponi C., Truffa S.	Final review, file uploaded in F&T portal

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Abstract

The Task 6.1 Developing, updating and implementing the INTEGRANO PDER, included in the Work Package dedicated to Stakeholders engagement, communication and dissemination, is led by PRJ and aims to defined the activities related to dissemination, communication and exploitation of the project and of its results. The communication and dissemination activities are based on the visual identity developed for INTEGRANO including the logo, colour palette and typography. The materials developed in this task include brand manual, brochures, roll-ups, social media posts, newsletters and events planning to disseminate INTEGRANO and its results.

The main communication channels have been created by PRJ such as website and social media profile on LinkedIn, as a way of promoting the project and engaging with its stakeholders. Newsletters are planned to be released every 4 months of the project.

Scope of the present document is to provide the first version of the PDER of the project to be implemented on M18 with any prospective interesting and useful information of the project consortium. Furthermore, it is intended to be a support for the project partners, in terms of guidelines on Communication, Dissemination and Exploitation activities.

List of abbreviations and acronyms

Abbreviation / acronym	Meaning
EC	European Commission
PDER	Plan for the Dissemination and Exploitation of Results
C&D	Communication and Dissemination
ux	User experience

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Objectives and timeline

The main objective of dissemination and exploitation activities is to give great visibility to INTEGRANO results in identified sectoral communities (national and European regulation institutions, standardization bodies, EC agencies and initiatives) and specific target groups in the international industrial context (i.e., manufacturers implementing NMs, chemicals, advanced materials industrial associations, incubators). In order to enhance direct and rapid dissemination and effective exploitation of project results to relevant identified stakeholders, the dissemination and exploitation (D&E) strategy will have three key features: (1) to identify key users and cluster mapped stakeholders according to relevance of reach for each result, associating the most appropriate method for directly reaching and engage each stakeholder group (see graph on the right); (2) periodic reviews throughout the project duration in order to assess effectiveness of implemented dissemination activities, allowing for ongoing adjustment of the strategy, (3) to identify key "multipliers" among the mapped stakeholders e.g., National Contact Points (NCPs), scientific academies and industry associations, Responsible Research and Innovation (RRI) networks, incubators and accelerators, EC partnerships and Initiatives platforms etc. The identified key multipliers will be directly contacted and engaged in INTEGRANO Think Tank, and a selected group will be involved to participate to an International Advisory Board to promote co-creation of the novel methodology and enhance impact of D&E activities. A group of experts from different organisations, who would provide advice and guidance to INTEGRANO in every stage of the project will be set as an advisory board.

The development of "Plan for Dissemination and Exploitation of Results (PDER) including communication activities, and updates" will be carry out throughout the project duration and in particular will be reported in three phases as the following:

- i. First PDER including communication activities, and updates (M3).
- ii. Second PDER including communication activities, and updates (M18).
- iii. Final PDER including communication activities, and updates (M36).

This document includes the synthesis of the first phase of the development of the PDER with the aim of maximising the visibility, sharing and diffusion of the project results. The plan includes three different packages of activities as indicated by the European Commission, that have been customized and detailed to respond the specific needs of the INTEGRANO project. The first package is communication, which aims at informing, promote and communicate the activities and result of the project to citizen, larger public and the media from the beginning to the end of the project.

The second is related to dissemination which aim is to make knowledge and result publicly available free of charge to inform all who can benefit from the results such as scientist, public entities, industry, civil society. The third package includes the exploitation activities to make concrete use of results for commercial, societal and political purposes, addressing all the entities and individuals who can take advantage form the results and invest on them such as companies, stakeholders, researchers, spin off.

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Figure 1 Communication, Dissemination, Exploitation (source: European Commission).

The three packages described above represent the baseline for the INTEGRANO plan for the dissemination exploitation and of the project results (PDER), already featured in its preliminary version in the project proposal, that will be updated during the implementation of the Project, with proper reference to the specific outcomes to be adopted according also to evolution of the activities (namely Deliverable D6.2 "Second PDER including communication activities, and updates "(M18), D6.3 "Final PDER including communication activities, and updates" (M36), D6.5 "Project visual identity and website" M3).

Background information – Communication, Dissemination and Exploitation

According to EC guidelines and actual best practices, a project strategy for the Communication, Dissemination and Exploitation of the INTEGRANO results should provide directions on how to handle the following packages:

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1.1 Communication package

Communication can be defined as "Taking strategic and targeted measures for promoting the action itself and its results to a multitude of audiences, including the media and the public, and possibly engaging in a two-way exchange". It aims at describing and making available the proper information about the project, its activities and outcomes, and the benefits of EC-funded research to a target audience specifically segmented.

Deliverable D6.5. "Project visual identity and website" provides information on the INTEGRANO main communication elements such as logo, templates and website.

Visual identity elements and communication materials have been generated during this first phase:

- Project logo, which represents the visual identity of the project
- First version of the website of the project (<u>www.integrano.eu</u>)
- Social media posts to introduce the project and the consortium (www.linkedin.com/company/integrano-project/)
- Templates to be used in presentations and deliverables

In the first communication plan, several implementations will be carried out on the communication material:

- **Website**: represent the main channel for external and internal communication, it will be regularly updated, at least 12 times per year. The website will be implemented with in-depth content, calendar events, news and internal documentation (this last one available only for project partners, within the private area on the website).
- Social media: LinkedIn posts will be published at least weekly and will include information related to consortium, project meetings, articles, publications and news, dissemination events and any other relevant topics developed during the project. A detailed editorial plan will be developed and constantly updated.
- **Brochure**: a first version of the project brochure will be released by M12, including project general information, consortium, and first available results.

1.2 Dissemination package

The Dissemination package executes "The public disclosure of the results by any appropriate means, including by scientific publications in any medium", pursuing: 1) transfer of knowledge and results to the ones that can best make use of it; 2) maximization of the impact of research, enabling the value of results to be potentially wider than the original focus.

Dissemination to the international scientific and technological community will be achieved through scientific publications and presentations at relevant conferences and events, leading events at national as well as international level, to address different audiences.

While disseminating the project results, partners are expected to select the most convenient means like e.g., scientific publication, website publication, in accordance with the conditions set forth in the Consortium Agreement and in other specific confidentiality agreements. Publications will to be proposed to high impact papers in open access.

Conferences and events.

The INTEGRANO project has already been successfully presented at two major international events.

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- On 5 March 2024, PRJ introduced the project goals at the "Advanced (Nano)Materials and Technologies: science, research & innovation for safety and sustainability" Summit 2024 (ANTHOS 2024) in Vienna.
- 2. On 21-22 March 2024 PRJ presented the project at "Cosmoprof Worldwide Bologna", the world's leading trade fair for the entire cosmetics industry.

INTEGRANO's participation through consortium partners is also planned for the following events:

- 1. On 5-9 May 2024 "SETAC Europe Annual Meeting" in Seville, Spain (UNIMIB, PRJ).
- 2. On 17-21 June 2024 "MaterialWeek 2024" in Limassol, Cyprus (PRJ).
- 3. On 23-25 September 2024 "NanoTox 2024" in Venice, Italy (PRJ, UNIMIB, CNR).

The following events have been identified as matching the potential project audience:

- 1. On 14 November 2024 "European Summit of Industrial Biotechnology (esib) 2024" in Graz, Austria.
- 2. On 10-15 November 2024 "SSbD24 Conference" in Monte Verità, Switzerland.
- 3. On 9-11 March 2025 "NANO.IL.2025 The International Nanotechnology Conference" in Jerusalem, Israel.

Journals and newspapers.

Publications are planned on the following journals and newspapers:

- 1. NanoImpact
- 2. Advanced Materials
- 3. Frontiers in Bioengineering and Biotechnology
- 4. Nano Today
- 5. Environmental Science and Pollution Research
- 6. ACS Applied Nano Materials
- 7. Environment International
- 8. Sustainability
- 9. Chemosphere

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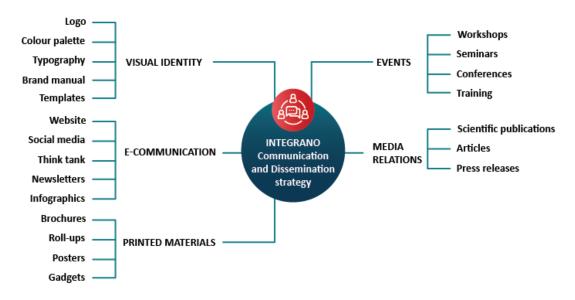


Figure 2 INTEGRANO Communication and Dissemination strategy

Stakeholders' engagement and development of a shared support and platform.

A communication platform will be set up for the continuous interaction of stakeholders involved the value chains and in public authorities and standard bodies. An IT portal will be set to invite different participants to share their vision, data, needs relate to SSbD approach and will serve as Think Tank also for sharing experience, expertise and public results for the EU funded projects, periodic webinar will be organized to assess needs, requests, insight related to possible conflict of interest and potential impact affecting each stakeholders group. At least one f2f workshop dedicated to each involved value chain and industrial sectors (cosmetics, water treatment, textile) will be organized and a general event dedicated to SSbD applied to chemicals and advance materials, involving representatives from different industrial sectors, international governing and standardization organizations, academia and JRC and PARC representatives. The platform will serve also for training dedicated to students, PhD, young researchers and industry representatives. Presentation and participation to major sectorial events and conference in EU will support the engagement and the involvement in the SSbD Think Tank platform.

Table 1 Preliminary stakeholders mapping and analysis (enabler, multiplier, leader)

Sub- set	Stakeholders' categories	Key role	Preliminary mapping
I	International standardization bodies, regulatory agencies, EC agencies, platform and Initiatives	Leader	European Chemical Agency (ECHA), European Partnership on Assessment of Risks from Chemicals (PARC), EFSA, International Standard Organization (ISO), Organisation for Economic Co-operation and Development (OECD), European co-operation for Accreditation (EA), Joint Research Centre (JRC), European Institute of Innovation & Technology (EIT)
II	National authorities and public agencies for	Multiplier	National Institutes of Health, European Agency for Safety and Health at Work (EU-OSHA) national focal points

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	health and safety research		
III	National and International authorities on regulation for chemical and advanced materials	Leader	EC, Observatory on Nanomaterials (EUON), European Agency for Safety and health at Work (EU-OSHA), National standard organizations, International Association of Advanced materials (IAAM), European Network of the Heads of Environment Protection Agencies (EPA Network)
IV	Cross-sectoral associations, incubators, other EU-funded projects	Multiplier	Global Coalition for Regulatory Science Research (GCRSR), Italian Association for Industrial Research (AIRI), RRI Practice, European Business and Innovation Centre Network (EBN)
V	Relevant industrial sectors and associations	Enabler	European Chemical Industry Council (Cefic), Cosmetic Europe, European Apparel and Textile Confederation (EURATEX), Water Europe
VI	Sustainability impact assessment associations	Enabler	Life Cycle Initiative, Global Compact, Rete Italiana LCA, EU Environment Agency (EEA), European Platform on LCA, EPD international
VII	Scientific communities and committees, RTO	Multiplier	Universities, Scientific Committee on Consumers Safety (SCCS), NanoSafety Cluster (NSC), European Federation of Academies of Sciences

The stakeholder engagement activities will be supported by the development of the IT platform serving as the INTEGRANO and trough the following activities, including Dissemination channels and means addressing the Target Audience in a specific way according to what described above and, in the table, below.

Table 2 Stakeholders clustering by expected outcomes and correlated dissemination & exploitation strategy

Activity	Description	Output
Training activities	Didactive initiatives will be carried out implementing seminars and courses on impact assessment and SSbD criteria and framework for University Bachelor, Masters and PhD students, young research and representative form industrial sectors, with seminar, webinar and realization of didactic videos.	At least 10 training
Academic publications	Peer-reviewed publications in scientific journals covering areas of Chemistry, Material sciences, engineering, environmental and social sciences, toxicology (e.g. Nanomaterials journals, Journal of Analytical & Bioanalytical Techniques, International journal of cosmetic science, Environmental Science Nano, NanoImpact, Chemosphere, Ecotoxicology and Environmental Safety, Journal of Cleaner Production, The International Journal of Life Cycle Assessment, etc)	At least 10 Open Access publications
Events	The project will be presented in public local events, national expos and TV	At least 3
targeting	shows and other thematic business fairs. Internationally important events	public

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Industrial sectors and	are: Cosmoprof, international cosmetic industry fair (annual, Bologna) - International Conference and Expo on Nanosciences and Nanotechnology -	-
end-users	3rd Global Summit and Expo on Nanotechnology and Nanomaterials	
National and international scientific conferences	Active participation international scientific conferences including: Tribology International Conference - Plasma Processing and Technology International Conference - Material Science And Nanotechnology Conference - International Conference on Nano Research and Development - International Conference on Polymer Science and Nanotechnology - Global Experts Conference on Nanotechnology and Nanoscience - World Conference on Materials Science and Nanotechnology, , conference of European Society of Toxicology and Chemistry (SETAC), Nanotox	At least 10 contributions delivered
-	The INTEGRANO Think Tank IT platform will be employed in order to allow the attendance to virtual meetings such as e-learning courses, webinars, workshops and training events. The main objective is to allow a better understanding of SSbD framework, INTEGRANO methodology, sustainability assessment along the value chain, MCDA application to complex decision, LCA, S-LCA, regulatory framework and policy at EU level. The seminars and events will be directed to professionals from involved value chain: at least one event for each sector (cosmetics, textile, energy and water treatment) at least 2 events for involving all transversal stakeholder such as standardization bodies	At least 3 workshops, 8 webinar and 2 open events
Synergy with other EU projects	Annual meeting/event on line or f2f, during relevant conference or other international events to exchange results, best practices and approaches with other EU funded project	AT IPAST 4

1.3. Exploitation package

The Exploitation package executes "The use of results in further research and innovation activities other than those covered by the action concerned, including among other things, commercial exploitation such as developing, creating, manufacturing and marketing a product or process, creating and providing a service, or in standardisation activities".

In general terms this package aims at making use of the INTEGRANO outcomes for commercial results or public policymaking, for scientific, societal, or economic purposes by a target audience specifically segmented.

INTEGRANO will produce a range of outputs with industrial applications that may be exploited by the partners within the consortium. Exploitation by research partners will be addressed towards knowledge transfer to stakeholders, whereas exploitation by industry partners will focus on the industrialisation and commercialisation of research outputs. The activities performed within INTEGRANO will deliver new knowledge, innovate methods, patentable processes and know how.

Exploitable results

Key exploitable results already identified for INTEGRANO are focussed on (1) the INTEGRANO database and Multicriteria decision algorithmic model for obtaining SSbD NMs solutions, (2) nanomaterials and nano-enabled products and (3) European advanced characterisation servicing infrastructure.

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(1) INTEGRANO database and Decision Support Tool: INTEGRANO will result in the establishing and curation of a database of curated high-quality data and metadata for application in a Define-Measure-Analyze-Design-Validate/Verify (DMADV) design for six-sigma (DFSS) method for SSbD. Central to the DMADV method is the multicriteria decision algorithmic model for obtaining SSbD NMs solutions, via the sorting of the set of multi-optimal design cases.

Exploitation plan: the INTEGRANO database can be seen as a constantly growing object which will be populated with data on industrially relevant case studies of nanomaterials and nano-enabled products. The exploitation of the database is envisaged on several fronts, including supporting regulators, policy makers, and industrial R&D departments in facilitating the industrial uptake of NMs and commercialization of NEPs. The exploitation pathways of the multicriteria decision algorithmic model for obtaining SSbD NMs solutions, applied within INTEGRANO in the form of a Digital Support Tool (DST), comprises several routes, including: (i) consultancy services to companies promoting codesign (ii) innovation managers (iii) application of the INTEGRANO DST to NMs and NEPs manufacturing processes, commissioned by industrial manufacturers (iv) consultancy services to public authorities and policy makers (v) researchers in academia and research centres. **Partners involved:** All **Relevant WPs:** WP1, WP2, WP3, WP4, WP5 **Relevant deliverables:** D1.3, D2.2, D2.3, D4.2, D5.2 **Exploitable result manager:** PRJ.

(2) INTEGRANO nanomaterials and nano-enabled products: Further INTEGRANO outputs may possess commercial value. For example, within the case studies (WP1) the project will result in the production of samples of NMs and NEPs. The case studies will utilise and develop industrially relevant NMs and NEPs, therefore the NMs to be synthesised/extracted are known and protected where applicable. The NEPs to be produced have potential commercial value, although this is not an explicit aim of the project. However, INTEGRANO will result in the extended profiling of NMs and NEPs above and beyond that previously performed which will reinforce ongoing and future exploitation efforts through provision of more complete performance data. In addition, unforeseen IPR which emerges during the project will be exploited by the relevant beneficiaries.

Exploitation plan: In cases where NMs or NEPs are produced with commercial value, the exploitation pathway would in general proceed via patenting improvements or novelties, enabling licensing to existing or new clients, or direct commercialisation by the beneficiary. More complete information on existing NMs and NEPs will be incorporated into existing and future exploitation initiatives by the relevant beneficiaries. **Partners involved:** CNR, BIU, UNITO, B4C, CENTI, AITEX, ROV **Relevant WPs:** WP1, WP2, WP3, WP4, WP5 **Relevant deliverables:** D2.1, D2.2, D2.3, D4.2, D5.2, D5.3 **Exploitable result manager:** each beneficiary will manage their own or joint exploitable results.

(3) European advanced characterisation servicing infrastructure: partners within INTEGRANO are contributing diverse expertise and facilities for the physiochemical and functional characterisation, toxicological (human and environmental) assessment and emission exposure profiling of NMs and NEPs. These quantitative measurements will be complemented by in silico modelling of the environmental fate of NMs.

Exploitation plan: The collective INTEGRANO characterisation capability will be leveraged to provide an on-demand sector-targeted service, with the result of enriching the INTEGRANO database to enhance NMs safety & sustainability assessment. **Partners involved:** All **Relevant WPs:** WP1, WP2, WP3, WP4 **Relevant deliverables:** D2.2, D2.3, D4.2.

Mechanisms considered for exploitation of project outputs include a selected series of initiatives aimed at industrial sectors and end-users: presentations at local public events, national expos, TV

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shows and other thematic business fairs. Important international events to be targeted are: Cosmoprof, international cosmetic industry fair (annual, Bologna), International Conference and Expo on Nanosciences and Nanotechnology, 3rd Global Summit and Expo on Nanotechnology and Nanomaterials. The INTEGRANO Think Tank IT platform will also be utilised to enable attendance at e-learning courses, webinars, workshops and training events with the main objective is to allow a better understanding of SSbD framework and on the INTEGRANO methodology.

The INTEGRANO project is fully aligned with ensuring **open access** and the **management of data** in line with **FAIR principles**, with the exceptions of when this would be against the beneficiary's legitimate interests, including regarding commercial exploitation. Therefore, the project will implement an open access policy and wide dissemination to enable data and findings to be made available to stakeholders as soon as possible. This approach reinforces the exploitation pathways to maximise the engagement of stakeholders to make use of results for commercial, societal and political purposes.

2. Internal and external communication

In the context of the INTEGRANO activities the following distinction between types of communication is provided:

2.1 Internal communication

Internal Communication conveys information among members of the consortium with a high frequency, and it may be formal or informal.

Internal communication for INTEGRANO, as defined at proposal level and considering several integrated activities, includes the following ones:

- Data Management plaTform (DMT): the set-up of a collaborative platform and repository for knowledge management to facilitate the exchange of larger project information (reports, data, etc.). The DMT, which has already been released to partners and will be periodically updated, is bespoke software with the aim of managing the demand for resources within the project to streamline data collection. The DMT will enable each case study manager to request provision of data collection resources for characterisation of the NMs and/or NEPs, enabling the demand for each service to be managed and allocated in a proportionate manner according to the time and financial resources allocated to each data collection element.
- Website: the establishment and management of communication procedures and tools for facilitating exchange among partners (internal communication) and with interested entities outside the consortium (external communication);
- Content management and maintenance of web-based project management tools /platform/ repositories;
- Consortium meetings organization (every 6 months): regular meetings at project level that are necessary "tools" for a common understanding and successful collaboration;
- Specific case studies meetings and internal WP technical meetings.
- Specific WP6 overall update meetings, to be held (tentatively) quarterly in order to align all the partners involved in Communication, Dissemination and Exploitation activities.

For the internal communication, the following tools have been defined:

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Table 3 INTEGRANO supporting tools for Internal communication

Tool	Scope	Where to find
Google Drive	This folder contains visual identity materials, presentations, DoA and other useful documents. If will be progressively replaced by the private area on the website.	<u>Link</u>
Mailing list	Internal communication among the consortium members.	<u>Link</u>
Website private area	This area has been set for internal communication and management purpose and accessible only for consortium members. It will contain private documents, deliverables, minutes from the meetings and presentations.	<u>Link</u>
Case Studies - Data Management plaTform (DMT)	The DMT provides a structured interface to ensure that data collection across the life cycle stages is complete with respect to what is required to achieve the goals of the project.	<u>Link</u>

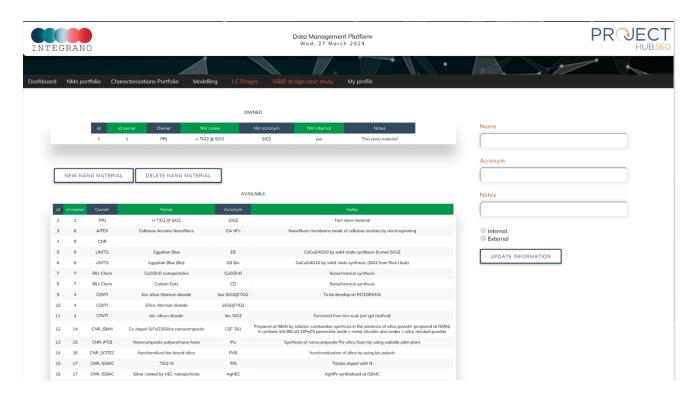


Figure 3 INTEGRANO DMT interface

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2.2 External communication

This type of communication occurs between INTEGRANO partners and external organizations / people. It is mostly formal, and its main objective is to maintain relationship or exchange information with the stakeholders.

Table 4 INTEGRANO supporting tools for External communication

Tool	Scope	Where to find
Website public area	The website will be the main tool for communication with the public. It will include project description and information, news, public deliverables etc.	<u>Link</u>
Think Tank	An IT portal set up for the continuous interaction of stakeholders involved the value chains and in public authorities and standard bodies. The platform will also serve for sharing experience, expertise and public result for the EU funded project and host webinars.	Coming soon (M8)
Social media	Posts on the LinkedIn project profile will be published constantly to explain the project, promote events participation, inform on the partners and their activities, and to inform about progresses.	<u>Link</u>
Newsletters	Newsletters will be disseminated by email to relevant stakeholders and they will include flash interviews, event recaps, announcement of upcoming events, publishable results, news etc.	Coming soon (M4)
Printed materials	Roll-up, brochure and poster will be used during events, conferences and meetings to increase the visibility of the project.	Digital formats can be downloaded from the website. Printed formats during the described events.

Project partners websites

In order to improve the project Communication, Dissemination and Exploitation activities, beside the INTEGRANO website, each project partner will use its website to share the most important objectives/outputs of the project. In the list below are reported the project partners websites that may be used accordingly.

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Table 5 INTEGRANO partners website

Partner	Website
UNIMIB	www.unimib.it
ARCHE	https://arche-consulting.be/
CENTI	www.centi.pt/
CNR	www.cnr.it
AITEX	www.aitex.es/
BIU	www.biu.ac.il/
VERL	www.venusroses-labsolutions.eu
UNITO	www.unito.it
PRJ	www.projecthub360.com
ROV	www.redofview.com
B4C	https://b4c.net/
DRT	https://dermatest.com/

Project partners LinkedIn pages

LinkedIn is the network of professionals, so it's eligible for more specific communication. It will be used in order to deliver INTEGRANO contents out of the network and to reach professional communities.

The following LinkedIn profiles/pages are listed for prospective support to the project improve the project Exploitation, Dissemination and Communication activities:

Table 6 INTEGRANO partners LinkedIn page

Partner	LinkedIn page
UNIMIB	https://www.linkedin.com/school/university-degli-studi-di-milano-bicocca/
ARCHE	-
CENTI	https://www.linkedin.com/company/centicentre-for-nanotechnology-and-smart-materials/
CNR	https://www.linkedin.com/company/consiglio-nazionale-delle-ricerche/
AITEX	https://www.linkedin.com/company/centro-investigacion-innovacion-aitex/
BIU	https://www.linkedin.com/school/bar-ilan-university/
VERL	https://www.linkedin.com/company/venusroses-labsolutions-ltd/
UNITO	https://www.linkedin.com/school/universita-degli-studi-di-torino/

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PRJ	https://it.linkedin.com/company/project-hub-360
ROV	https://www.linkedin.com/company/redofview/
B4C	https://www.linkedin.com/company/b4ceramics/
DRT	https://www.linkedin.com/company/dermatest-gmbh/

Newsletters

The project foresees the publication of newsletters every 4 months of the project. The newsletter aims to inform the relevant stakeholders on the project's news, upcoming activities and events. The INTEGRANO newsletters will include flash interviews, event recaps, announcement of upcoming events, news on new synergies and requests for feedback. The INTEGRANO newsletters will be disseminated by email to a contact list of relevant stakeholders. A form to register for the request of the newsletter will be publish in the web site.

The INTEGRANO newsletters will be produced in collaboration with all partners and the first one will be sent out by April 2024. All newsletters will be also available on INTEGRANO website and social media will link to such contents.

3. Target groups

This section includes more detailed description of what defined in the proposal in relation to the project target groups, in order to engage them throughout proper communications channels and specific key messages and correct type of provided information.

Table 7 How target groups will be reached, through which comm. channels, providing which information in the C&D strategy.

Target groups	Communication channels	Type of information	Aim
Industries and SMEs: manufacturers implementing NMs, cosmetics, chemicals, automotive, textile. Industrial associations and representatives at the EU level.	 Website Workshops and seminars Conferences Printed materials Scientific publications Press releases 	 Case studies Prototypes SSbD requirement and methodology Decision Support Tool 	 Demonstrate use of the INTEGRANO framework for chemicals and advance materials impact assessment. Illustrate the potential integrated assessment and DST for reducing cost and time-to-market. Demonstrate proactive approaches to assess risks of impact of materials and chemicals application in order to protect workers, consumers and environment.
Research and Academia: European scientists,	Scientific journalsConferencesSeminarsWebsite	Scientific resultsTechnical reports	Build links between INTEGRANO and related projects, networks and clusters.

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research institutes, Universities	Social mediaOnline library	• LCA, LCC, S- LCA analyses	 Ensure that project results are peer reviewed and published on relevant journals. Participate in further education and training.
Innovation managers, Startup and Spin off, Open Innovation networks and players	 Conferences Seminars Website Workshops and seminars 	 Scientific results Technical reports Prototypes 	 Demonstrate use of the INTEGRANO framework for chemicals and advance materials impact assessment. Build links between INTEGRANO and related projects, networks and clusters.

4. Project meetings

4.1 Kick off Meeting

The meeting has been hosted in the Hotel Cavour in the meeting room "Aula Manzoni" and it has been organized by the coordinator UNIMIB. The KOM of the project has been organized in hybrid format both in presence and online in order to allow all partners to be present and participate with their contributions.

- The first day was dedicated to project introduction, partners presentation, welcome from the Project Officer and seminar on SSbD framework. An overall overview of the project was provided by Paride Mantecca from UNIMIB and Massimo Perucca from PRJ. Each partner was given 5 minutes to introduce the organization/company, the role in the project and the team that will be involved in the assigned tasks. At the end of the day a virtual tour of Milan has been organized by UNIMIB in collaboration with a city guide.
- The **second day** of the meeting has been dedicated to the presentation of each Work Package and related task and to the description of the planned activities for the following 6 months. A discussion on Nanoforms materials case studies has been delivered.

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Figure 4 INTEGRANO partners with roll-up during the Kick off Meeting

4.2 6M General Assembly Meeting

The following meeting will be hosted by Dermatest GmbH in Münster (Germany) on 17th and 18th June 2024. The agenda is currently under development and will be defined by the end of April.

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