



Technical Report on JRC and RMIS experts Meetings

30 April 2022

Report

Partner responsible for the document: STRATAGEM



This project has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement N°869529

Project Information

Grant Agreement Number	869529
Project Full Title	A Human-centred Internet of Things Platform for the Sustainable Digital Mine of the Future
Project Acronym	Dig_IT
Funding scheme	RIA - H2020-SC5-2019-2
Start date of the project	1 May 2020
Duration	48 months
Project Coordinator	María García Camprubí (ITAINNOVA)
Project Website	www.digit-h2020.eu

Deliverable Information

Deliverable n°	D 7.3
Deliverable title	Technical report on JRC and RMIS experts meetings
WP no.	7
WP Leader	STRATAGEM
Contributing Partners	
Nature	Report
Authors	Ms Stavroula Panagiotidou
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Contractual Deadline	1 May 2022
Delivery date to EC	

Dissemination Level

PU	Public	X
PP	Restricted to other programme participants (incl. Commission Services)	
RE	Restricted to a group specified by the consortium (incl. Commission Services)	
CO	Confidential, only for the members of the consortium (incl. Commission Services)	

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Document Log

Version	Date	Author	Description of Change
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1.0	27/03/2022	Stavroula Panagiotidou	Initial version
2.0	10/04/2022	Stavroula Panagiotidou	After review from ITAINNOVA

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1. Introduction

The present report refers to the actions took place From M1 until M24 of Project's running to facilitate an effective outreach of the project through the Raw Materials Information System (RMIS)¹. This report has been elaborated within the framework of the Dig_IT project which is funded by the European Union's Horizon 2020 Research and Innovation programme under Grant Agreement No 869529.

Dig_IT is an EU-funded project aimed at developing an Industrial Internet of Things platform (IIoTp) that collects data from the mining industry (data sources: humans, machines, environment, and market) and transform them into knowledge and actions aimed at improving the worker health and safety, improving the operations efficiency and minimizing the environmental impact of mining.

The Raw Materials Information System (RMIS) is the European Commission's reference web-based knowledge platform on non-fuel, non-agriculture raw materials from primary (extracted/harvested) to secondary (recycled/recovered) sources, along their entire value/supply chains.

In this context, Dig_IT Project's visibility will be enhanced through the connection with the EC RMIS platform aiming to an effective outreach of the academia and the scientific community. To achieve this goal, it is required a communication with JRC experts to exchange guidelines and experience. As the Project is progressing, the gained Project's knowledge will be shared to the RMIS library prepared according to the guidelines and templates shared by the RMIS experts.

1.1. Document structure

For achieving the task's goal, the process started by facilitating the communication between the RMIS platform and the Dig_IT project. All the possible ways for making the Project visible to a broader scientific community have been examined.

Considering the RMIS expert advice, the dissemination of the Project through the RMIS platform has already been established by the development of the dedicated website space on the Raw Materials Knowledge Gateway (RMKG) analysed on subchapter 2.1, according to the provided guidelines and templates.

The second suggested dissemination method to be followed for achieving better visibility of the Project, was to publish the project's most important outcomes and results to the RMIS Library according to the guidance of the RMIS experts. In this way the Dig_IT Project will be part of the RMIS network of knowledge providers in the area of raw materials.

Chapter 2.2 mentions the meeting that STRATAGEM and ITAINNOVA participated, representing the Project.

In the future, interested results and outcomes, such as the results regarding the "Real-time assessment of ventilation of mines" will be published on the RMIS library. The interactive activities with the RMIS experts after M24 will be documented on the dedicated deliverables.

¹ [Raw Material Infotation System \(RMIS\)](#)

2. Interaction with RMIS experts

In this regard, Dig_IT project outcomes and results could undoubtedly contribute to broaden the spectrum of knowledge on RMIS and therefore they will be considered to facilitate the transfer of Project's knowledge to the platform. Dig_IT project has already started working towards the RMIS further development and more details can be found on the below chapters. Moreover, the Project was invited to participate to the event organized from RMIS/HaDEA.

2.1. Email Communication with RMIS

From the beginning of the Project since M24, STRATAGEM has a continuous communication with the JRC experts. The communication started on 18th of May 2020, some days after the Project's Kick off. In the first communication email, STRATAGEM explained the reason for contacting the JRC and the project's scope and goal. On the same day, the expert replied back to the email and informed us on the different ways to manage the information exchange. Additionally, the expert registered STRATAGEM's e-mail address in the RMIS database. As a result, STRATAGEM receives RMIS newsletter which shares them directly with Dig_IT consortium through the TEAMS shared folder. Moreover, on this first contact, RMIS expert apprise us on the other benefits that our email registry could offer; such as receiving invitations to stakeholder event, as for example the RMIS annual workshop and/or the EU RM Knowledge Base Day, usually organized in frame of the RM Week, as well as invitation to the co-organized annual event with EASME for the selected RM projects.

Furthermore, to the first communication, the RMSI expert let us know that the most important mean of the co-operation is to develop a portfolio at [RMIS/RM Knowledge Gateway](#). For this reason, template and guide to be followed were also shared with us. RMIS's expert advice STRATAGEM to let the consortium know that when delivering Project outputs, it is worthwhile to consider the RMIS Library. The library offers a long-standing searchable archive and service for reports and important outcomes. The expert encourage STRATAGEM to share with them any complex on-line application that the consortium has concerns and might need an in-depth analysis and talks on the potential technical solutions.

On the 6th of October 2020, STRATAGEM contacted again the RMIS's expert to let him know about the Dig_IT's Advisory Board that it was under development and to check if it would be possible and valuable for the Project to have them as a member on the board. The expert made it clear that although our invitation to become a member of the AB is an honour, they cannot accept such nominations according to the current internal policy.

On the end of November 2020, and after several internal revisions of the documents, the portfolio was finalized and send to the expert for receiving the first feedback/thoughts. The expert replied that the content of the Project fits the content of the RMIS Knowledge Gateway and that it could be uploaded it on the website. The tile Raw Materials Knowledge Gateway (RMKG) serves as an access point to raw materials knowledge produced in a European context. The RMKG covers an extensive list of the most relevant and recent knowledge on raw materials – especially with respect to the outputs from EU funded projects on raw materials. Through RMIS, the JRC supports the longevity, mapping, structuring and further understanding of

this knowledge in order to rapidly and systematically meet the raw material knowledge needs identified by EU policy.²

The same day, the expert send us materials to learn more about the RMIS library, type of information that could be published as well as the appropriate formats. All the materials were shared with the consortium via the TEAMS shared folder.

On the end of January 2021, Dig_IT's portfolio was up on the RMIS website (<https://rmis.jrc.ec.europa.eu/?page=rmkg>). However, a small typo was found, and STRATAGEM send an email to RMIS to let them know about the mistake. As always, RMIS's expert promptly solved the issue. Additionally, STRATAGEM asked the expert for some clarifications regarding the materials shared previously concerning the RMIS library. The expert advice the consortium that only major scientific and technical reports should be considered for uploading to the RMIS library. Journal articles are out of libraries scope because of the copyright issues.

During November 2021, Project Coordinator ITAINNOVA produced some very interested results regarding "Real-time assessment of ventilation of mines". The methodology and results were presented by ITAINNOVA on the worldwide 9th OpenFOAM conference held on the 19th and 20th of October 2021. After internal discussions, STRATAGEM contacted the RMIS's expert and discussed about the possibility of uploading this type of information in the RMIS library and if such wok/results could be within their interest. For this reason, STRATAGEM shared with the RMIS expert a video from ITAINNOVA's conference presentation. The expert ensured us that this information is within RMIS's scope and to contact them again when the technical report will be released. The technical report is under preparation, however, the plan is to reform the technical report (as soon as it will be released) according to the guidelines shared from the RMIS.

The future communication between RMIS expert and STRATAGEM will be reported on the Deliverable 7.7 "Final technical dissemination report on RMIS" which will be submitted on M48.

2.2. Meeting

Due to COVID-19 pandemic, meetings in person were not feasible and therefore meeting with the RMIS expert could be impossible, considering that that the first physical consortium meeting between partners took place on M18 in Finland where some of the restrictions were lifted. However, as the COVID-19 infections were increasing and restrictions were again in place, it was decided to hold virtually the Project's first review meeting so as avoid any incident.

However, the very good collaboration through emails proved that such a restriction did not harm or affect the incorporation of Dig_IT into the RMIS platform. The RMIS experts learn about the project, discussed with STRATAGEM for more ways of incorporating Dig_IT in RMIS system, and most importantly developed Dig_IT's dedicated portfolio on the official website. RMIS expert believes that Project's results and outcomes are valuable for the Project and encouraged us to send them our outcomes so as to feed the library.

² Hamor T., d'Elia E., Manfredi S, JRC Technical Report, "RMIS Roadmap 2021-A mid-term progress report, roadmap and analysis of knowledge management options for the Raw Materials Information System (RMIS)", 2021

During August of 2021, STRATAGEM received for the first time an invitation from the RMIS which invited the project to the JRC/HaDEA Technical Workshop named as “[Channelling knowledge from European projects into the Raw Materials Information System \(RMIS\)](#)”. This event was held online on the 3rd of December 2021. This workshop aimed to continue the well-established dialogue with project consortia in order to discuss the most relevant knowledge needs and how the RMIS could facilitate their fulfillment as well as to increase awareness over the most important projects’ outputs and discuss whether these could support the RMIS development priorities. Another aim of this report was to facilitate a technical dialogue (IT and content-wise) that could support efficient knowledge transfers.

After receiving more details about the event, it was agreed that a representative of STRATAGEM and the Project’s coordinator will participate to the event. Materials the RMIS/HaDEA shared with us after the event completion were uploaded to the TEAMS shared folder so the consortium could have access and follow the event.



Figure 1. Screenshot of the meeting- Introductory presentation

The event consisted of a plenary session and a technical session that aims to facilitate technical dialogue related to knowledge transfer from H2020 projects into the RMIS. During the technical session, 18 H2020 projects (out of which 16 are managed by HaDEA) presented their key outputs. The projects' participants had also the occasion to interact among themselves and with the HaDEA and DG JRC representatives.

An event similar to the aforementioned took place in the 3rd of December of 2020 and a [report](#) was released outlining the detailed minutes of the event. It is expected a similar report to be released soon regarding the recent technical workshop that DIG_IT project participated.

STRATAGEM aims is to participate again next year in 2022 to this workshop and present the Project scope as well as, interested outcomes.

The future meetings between RMIS expert and STRATAGEM will be reported on the Deliverable 7.7 “Final technical dissemination report on RMIS” which will be submitted on M48.

3. Conclusion

Deliverable 7.3 is aimed at reporting any communication/meeting between RMIS experts and Dig_IT's representative-STRATAGEM (who is the partner responsible for the task) that took place from the beginning of the Project since M24. The communication aimed at exchanging guidelines and experience as well as for achieving an increased level of communication between the two parties (RMIS and the Dig_IT Partner representative) and disseminate more the project through the platform.

The communication between Dig_IT and RMIS team facilitated some days after the official launch of the Project. During the communication, materials, guidelines and advice were shared from RMIS expert. The Dig_IT portfolio-dedicated page on the RMIS platform- was developed and published. Additionally, Dig_IT consortium receives RMIS news and events.

In the near future, the first results related to "Real-time assessment of ventilation of mines: will be presented on the RMIS library as agreed with the expert of the library. Fortunately, more results and outcome will be presented in the Library as this is our intention. Information on this process will be found in the Deliverable 7.4 "Technical report on Dig_It data in RMIS platform" which will submitted on M48 and will list and describe the results and outcomes shared with RMIS.