



## Digital Manufacturing and Design (DiManD)

European Training Network.

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## Summary

The objective of this deliverable is to present the dissemination plan of the DiManD project over the project's period. It is divided into the sections of: Scientific publications, participation in fairs and workshops, press releases, non-scientific and non-peer-reviewed publications (popular publications, exhibitions and trade fairs, websites, social media, communication campaign, realisation of videos and films), the creation of dissemination material as posters, flyers as well as newsletter for external dissemination, brokerage events, pitch events, participation in activities organised jointly with other H2020 projects and other activities.

**Team involved in deliverable writing:** All beneficiaries

## 1 Introduction

This deliverable presents the dissemination and communication plan to ensure that the results of the DiManD programme are effectively communicated to European industry, associations, stakeholders (including universities, research and technology organisations), and the public domain.

Dissemination includes scientific dissemination explained in section 1, other dissemination and communication activities for stakeholders in section 3. Public dissemination is explained in section 1 and outreach activities (public engagement) to be performed by each beneficiary are specified in section 1.

The dissemination and outreach work (public engagement) across the DiManD network and is led by the Dissemination and Exploitation Coordinator (DEC) who will work with the stakeholders to ensure that research is properly disseminated and any new Intellectual Property is adequately protected.

## 2 Planned Scientific Publications

Scientific dissemination for the ESR PhD studies will include major papers in high impact open access journals and presentations at leading national and international conferences.

Table 1: Planned scientific publications

Type of publication:	Title of the Scientific Publication	DOI	Authors	Title of the Journal or equivalent	Publisher	Place of publication	Year of publication (planned)	Peer-review	Open access	Partner involved	ESR Number (if related to one ESR)
<ul style="list-style-type: none"> <li>• Article in Journal</li> <li>• Publication in conference proceedings/Workshop</li> <li>• Publication in conference</li> <li>• Books / Monographs</li> <li>• Chapters in books</li> <li>• Thesis/Dissertation</li> <li>• ...</li> </ul>											
Journal article	Open Evolvable Assembly Systems Architecture (working title)		ESR1, Jack C Chaplin, Brian Logan, Svetan Ratchev.	International Journal of Computer Integrated Manufacturing	Taylor Francis		2021	Yes	Gold		ESR 1
Journal Article	Implementation of Open Evolvable Assembly		ESR1, CAM Partner, Jack C Chaplin, Brian Logan,	The International Journal of Advanced	Springer		2022	Yes	Gold	Nottingham Centre for	ESR 1

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	Systems for Aerospace Manufacturing Applications (working title)		Svetan Ratchev.	Manufacturing Technology						Aerospace Manufacturing	
Journal Article	Implementation of Open Evolvable Assembly Systems for Aerospace Manufacturing Applications (working title)		ESR1, CAM Partner, Jack C Chaplin, Brian Logan, Svetan Ratchev.	The International Journal of Advanced Manufacturing Technology	Springer		2022	Yes	Gold	Nottingham Centre for Aerospace Manufacturing	ESR 1
Journal Article			ESR1, CAM Partner, Jack C Chaplin, Brian Logan, Svetan Ratchev.	Journal of Intelligent Information Systems			2022		Gold		ESR1
Conference paper (and presentation)	Multi-Agent Systems for Intelligent, Open, Evolvable		ESR1, Brian Logan, Jack C Chaplin,	International Conference on Autonomous Agents and Multiagent			2022	Yes	Gold		ESR 1

	Assembly Systems (working title)		Svetan Ratchev.	Systems (AAMAS)							
Conference paper (and presentation)	Layered Semantic Model for Open Information Exchange in Evolvable Assembly Systems (working title)		ESR1, Jack C Chaplin, Brian Logan, Svetan Ratchev.	IFAC Symposium on Information Control Problems in Manufacturing (INCOM)	IFAC		2021	Yes	Gold		ESR 1
Publication in Conference	Towards intelligent adaptive control systems using Reinforcement Learning (working title)		ESR2, G Martinez Arellano, Atanas Popov, Svetan Ratchev	CIRP Conference on Intelligent Computation in Manufacturing Engineering	Elsevier		2021	Yes	Gold		ESR 2
Publication in Conference	Individual and collective self-learning approach for		ESR2, G Martinez Arellano, Atanas Popov,	International Conference on Machine	IEEE		2021	Yes	Gold		ESR 2

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	adaptive control		Svetan Ratchev	Learning and Applications							
Journal publication	Self-learning for adaptive control systems (working title)		ESR2, G Martinez Arellano, Atanas Popov, Svetan Ratchev	Journal of Manufacturing Science and Technology	Elsevier		2022	Yes	Gold		ESR 2
Publication in conference				CIDIP2021			2021	Yes	No	MGEP	ESR 3
Publication in conference proceedings/Workshop				EADE 2021			2021	Yes	No	MGEP	ESR 3
Publication in conference				<b>CIDIP2022</b> <b>IEEE ICSC : International Conference on Semantic Computing</b> <b>INDIN</b> <b>ACM CHI Virtual</b>			2022  2023	Yes	No	MGEP	ESR 3





				<b>Conference on Human Factors in Computing Systems</b>							
Publication in conference proceedings/Workshop				EADE 2022			2022	Yes	No	MGEP	ESR 3
Article in Journal				<b>International Journal on Semantic Web and Information Systems (IJSWIS)</b>	<a href="#">IGI Publishing</a>		2022	Yes	Yes	MGEP	ESR 3
Article in Journal				<b>Journal of Data Semantics</b>	<a href="#">Springer International Publishing AG</a>		2023	Yes	Yes	MGEP	ESR 3
Publication in conference				CIDIP2021			2021	Yes	No	MGEP	ESR 4
Publication in conference proceedings/Workshop				EADE 2021			2021	Yes	No	MGEP	ESR 4
Publication in conference				CIDIP2022			2022	Yes	No	MGEP	ESR 4

Publication in conference proceedings/Workshop				EADE 2022			2022	Yes	No	MGEP	ESR 4
Article in Journal							2022	Yes	Yes	MGEP	ESR 4
Article in Journal							2023	Yes	Yes	MGEP	ESR 4
Journal Article	<i>Human-Centered Design in Industry 4.0: Case study review and opportunities for future research</i>	NA	Ganix Lasa Erle Ion Iriarte Azpiazu Nguyen Ngoc Hien	Journal of Intelligent Manufacturing	SpringerLink	NA	<b>Plan:</b> Dec, 2020  <b>Actual:</b> Nov, 30 2020	Yes	Yes	MGEP	ESR4
Journal Article	<i>The conceptual framework of new HCD methodology, taking into account the industrial partners' specification requirements</i>	NA	Ganix Lasa Erle Ion Iriarte Azpiazu Nguyen Ngoc Hien	NA	NA	NA	Aug, 2021	Yes	Yes	MGEP	ESR4
Journal Article	<i>The configurable HCD for industrie 4.0: Advanced service innovation - 2</i>	NA	Ganix Lasa Erle Ion Iriarte Azpiazu	NA	NA	NA	Dec, 2022	Yes	Yes	MGEP	ESR4

	<i>Industrial Case Studies</i>		Nguyen Ngoc Hien								
Project conference	<i>HCD for Industrie 4.0 presentation on the conference</i>	NA	Ganix Lasar Erle Ion Iriarte Azpiazu Nguyen Ngoc Hien	CIDIP2021   EADE 2021	NA	NA	Aug, 2021	Yes	No	MGEP	ESR4
Publication in conference proceedings/Workshop	<i>Human -Centred Design in the context of Servitization in Industry 4.0. A Collaborative Approach</i>	NA	Ganix Lasar Erle Ion Iriarte Azpiazu Nguyen Ngoc Hien	30th RESER International Congress	NA	NA	<b>Plan:</b> Mar, 2021  <b>Actual:</b> 18, Dec, 2020	Yes	No	MGEP	ESR4
Publication in conference proceedings/Workshop	<i>Human-Centred Design for Servitization Reengineering. A case study in digital machinery</i>	NA	Ganix Lasar Erle Ion Iriarte Azpiazu Nguyen Ngoc Hien	CIDIP2021   EADE 2021	NA	NA	Mar, 2022	Yes	No	MGEP	ESR4
Publication in conference proceedings/Workshop	<i>The configurable HCD for industrie 4.0: Advanced service innovation - 2</i>	NA	Ganix Lasar Erle Ion Iriarte Azpiazu	CIDIP2022   EADE 2022	NA	NA	Dec, 2022	Yes	No	MGEP	ESR4

	<i>Industrial Case Studies</i>		Nguyen Ngoc Hien								
Publication in conference/workshop proceedings	Towards a DevOps approach in Cyber Physical Production Systems using Digital Twins		Miriam Ugarte, Leire Etxeberria, Goiuria Sagardui	Safecomp DepDevOps 2020 workshop	Springer		2020	Yes	Yes	MGEP	ESR 5
Publication in journal	A digital twin framework for the simulation and optimization of production systems		Itziar Ricondo, Alain Porto, Miriam Ugarte	CIRP Journal of Manufacturing Science and Technology			2021	Yes	Yes	MGEP, IDEKO	ESR 5
Publication in conference proceedings				IEEE International Conference on Software Testing, Verification and Validation (ICST)			2022	Yes	Yes	MGEP	ESR 5

Publication in conference proceedings				ACM/IEEE International Conference on Model Driven Engineering Languages and Systems (MODELS)			2022	Yes	Yes	MGEP	ESR 5
Publication in conference proceedings				ACM SIGSOFT International Symposium on Software Testing and Analysis (ISSTA)			2023	Yes	Yes	MGEP	ESR 5
Article in Journal				Information & Software Technology			2023	Yes	Yes	MGEP	ESR 5
Thesis dissertation							2023	-	Yes	MGEP	ESR 5
Article in a journal	Cyber-Physical System and Robotic Disassembly technologies	-	Trunal Patil (ESR 6), Lara Rebaioli, Irene Fassi	Journal of Cleaner Production	Elsevier	-	2021	Yes	green open access	STIIMA	ESR 6

	for End-of-Life management of Printed Circuit Boards and Mechatronics products in Home Automation										
Article in a journal	Real time material characterization and Sorting techniques for End-of-Life management in Home Automation products	-	Trunal Patil (ESR 6), Lara Rebaioli, Irene Fassi, and Elisabetta Ceretti	International Journal of Precision Engineering and Manufacturing-Green Technology  OR Journal of Material Cycles and Waste Management	Springer  OR Springer	-		Yes	green open access	STIIMA	ESR 6
Publication in conference proceedings	Simulation of Corona Electrostatic	-	Trunal Patil (ESR 6), Lara	ASME IDETC/CIE - International		-	2021	Yes	green open access	STIIMA	ESR 6

	Separator for End-of-Life management in PRINTED CIRCUIT BOARDS		Rebaioli, Irene Fassi	Design Engineering Technical Conferences & Computers and Information in Engineering Conference							
Publication in conference proceedings	Validation of Cyber physical framework in a real case scenario and in collaboration with the industry.	-	Trunal Patil (ESR 6), Lara Rebaioli, Irene Fassi, and Elisabetta Ceretti	TBD		-	2022	yes	yes	STIIMA	ESR 6
Article in a journal	Improvement in EOL management of Printed circuit boards & mechatronics products with the help of	-	Trunal Patil (ESR 6), Lara Rebaioli, Irene Fassi, and Elisabetta Ceretti	International Journal of Advanced Manufacturing Technology or	Springer  Elsevier	-	2022	Yes	green open access	STIIMA	ESR 6

	Cyber physical systems.			Journal of Manufacturing Processes							
Thesis		-	Trunal Patil		UNIBS		2022	-	-	STIIMA and UNIBS	ESR 6
Publication in conference proceedings				WCMNM - World Congress on Micro and Nano Manufacturing						STIIMA	ESR 7
Article in a journal				International Journal of Advanced Manufacturing Technology or Precision Engineering	Springer  Elsevier			yes	green open access	STIIMA	ESR 7
Thesis										STIIMA	ESR 7
Review paper											ESR 8



Journal paper											ESR 8
Licentiate Thesis Dissertation											ESR 8
Journal paper											ESR 8
Journal paper											ESR 8
Publication in Conference											ESR 8
Conference	CARV 2021		ESR9, Mariam Nafisi, Mikael Hedlind, Antonio Maffei.				2021	Yes		-	ESR9
Journal										KTH	ESR9
Conference										KTH	ESR9
Journal										KTH	ESR9
Journal	Current status of self- adaptable Cyber Physical Production		Luis Estrada- Jimenez, Jose Barata,	IEEE Access or Computers in Industry or Robotics and Computer-	IEEE Elsevier Elsevier		2021	Yes	Yes Gold Gold	UNINOVA	ESR10

	Systems (working title)			Integrated Manufacturing							
Publication in Conference Proceeding	Self-learning techniques for improving self- adaptable Cyber Physical Production Systems (working title)		Luis Estrada- Jimenez, Jose Barata	DoCEIS 2021	Springer		2021	Yes	No	UNINOVA	ESR10
Publication in Conference Proceeding	Implementation of self-learning techniques in self-adaptable Cyber Physical Production Systems (working title)		Luis Estrada- Jimenez, Jose Barata	DoCEIS 2022	Springer		2022	Yes	No	UNINOVA	ESR10
Journal	Self-Learning Cyber Physical Production Systems (working title)		Luis Estrada- Jimenez, Jose Barata	IEEE Access or Computers in Industry or Robotics and Computer- Integrated Manufacturing	IEEE Elsevier Elsevier		2023	Yes	Yes Gold Gold	UNINOVA	ESR10

Thesis	Self-Learning Cyber Physical Production Systems (working title)		Luis Estrada				2023	Yes	Yes	UNINOVA	ESR10
Publication in Conference				International Conference on Industrial Informatics						UNINOVA	ESR 11
Publication in Conference				Doctoral Conference on Computing, Electrical and Industrial Systems						UNINOVA	ESR 11
Article in a journal				Computers in Industry	Elsevier					UNINOVA	ESR 11
Article in a journal				Robotics and Computer- Integrated Manufacturing	Elsevier					UNINOVA	ESR 11
Thesis dissertation										UNINOVA	ESR 11

Article in JCR	A novel method for trajectories generation in industrial robots	ISSN: 0736-5845	Ali El Khatib Itziar Cabanes Estibaliz Garrote	Robotics and Computer integrated Manufacturing	Elsevier		June 2021	Yes		Tecnalia UPV/EHU	ESR 12
Conference Proceedings	Deep Learning in flexible trajectories of industrial robots		Ali El Khatib Estibaliz Garrote Itziar Cabanes	European Conference in Computer Vision		Springer	March 2022	Yes		Tecnalia UPV/EHU	ESR 12
Article in JCR	A Machine Learning-based approach for predicting product quality parameters in refineries.	ISSN: 0098-1354		COMPUTERS & CHEMICAL ENGINEERING	Elsevier		2022	Yes	Gold	Petronor Tecnalia UPV/EHU	ESR13
Article in JCR	A new Deep learning semi supervised approach for	ISSN: 1568-4946		APPLIED SOFT COMPUTING	Elsevier		2023	Yes	Gold	Petronor Tecnalia	ESR13

	enhancing the product quality of refineries.									UPV/EHU	
Conference Proceedings	Towards a semi-supervised learning scheme for modelling product quality-related variables in refineries.			International Conference on Soft Computing Models in Industrial and Environmental Applications. Advances in Intelligent Systems and Computing book series	Springer		2022	Yes	Gold	Petronor Tecnalia UPV/EHU	ESR13
Journal Paper	Manufacturing Adaptation Strategies for Intelligent Products (working title)		Hamood ur Rehman, Leszek Zarzycki, UoN Partner, and Mark Jones	Journal of Advanced Manufacturing Technology	Springer		2022	Yes	Gold	TQC, University of Nottingham	ESR14
Journal Paper	Data Models for In-Process Testing of		Hamood ur Rehman, Leszek	Journal of Manufacturing	Elsevier		2021	Yes	Gold	TQC, University of Nottingham	ESR14

	Intelligent Products (working title)		Zarzycki, UoN Partner, and Mark Jones	Science and Technology							
Publication in Conference	Intelligent Testing Processes with Cloud-Based IoT Devices (working title)		Hamood ur Rehman, Leszek Zarzycki, UoN Partner, and Mark Jones	TBC			2022	Yes	Gold	TQC, University of Nottingham	ESR14
Publication in Conference	Open Data Models for Leak Testing Quality Data		Hamood ur Rehman, Leszek Zarzycki, UoN Partner, and Mark Jones	IFAC Symposium on Information Control Problems in Manufacturing (INCOM)	IFAC		2021	Yes	Gold	TQC, University of Nottingham	ESR14

### 3 Other dissemination and communication activities for stakeholders

Organization of conferences and workshops, press releases, other publications include articles for professional and educational journals, a DiManD newsletter and industry Fact Sheets.

#### 3.1 Newsletters

With reference to the newsletter, it is planned that every twelve months updates of the project’s achievements will be sent to relevant contacts of the consortium and published in the website, in order to inform potentially interested stakeholders (research organizations, universities and companies) of technical developments and achievements.

The foreseen content of the newsletter generated by the project will be the following:

*Table 2: Planned newsletters*

Newsletter no	Date	Planned Content	Related WP	Status
1	April 2020	<ul style="list-style-type: none"> <li>• General information</li> <li>• Recruitment information</li> </ul>	WP 1	Submitted
2	April 2021	<ul style="list-style-type: none"> <li>• Information about individual Research Projects</li> <li>• Info about training events and schools celebrated</li> </ul>	WP 2, WP 3-5	On-going
3	April 2022	<ul style="list-style-type: none"> <li>• Progress of the individual projects and technical work packages</li> <li>• Information about training events and schools celebrated</li> </ul>	WP 2, WP 3-5	
4	April 2023	<ul style="list-style-type: none"> <li>• Final DiManD conference</li> <li>• Results of the technical work packages and individual research projects</li> </ul>	WP 2, WP 3-5	

### 3.1 Industry Fact Sheets

Industry Fact Sheets related to Industry 4.0 industry will be also developed each year starting in 2021.

### 3.2 Conferences and workshops

Table 3: Conferences and Workshops

Type of activity:	Date (planned)	Venue / Country	Event	URL	Audience targeted / Size	Partner involved
<ul style="list-style-type: none"> <li>• Organization of conference</li> <li>• Organization of workshop</li> <li>• Participation to a conference</li> <li>• Participation to a workshop</li> <li>• ...</li> </ul>						
Participation to a conference	2020, 2021, 2022		ASME IDETC/CIE - International Design Engineering Technical Conferences & Computers and Information in Engineering Conference		Academic and stakeholder	STIIMA
Participation to a conference	2020, 2021, 2022		WCMNM - World Congress on Micro and Nano Manufacturing		Academic and stakeholder	STIIMA





Organization of workshop	2021	Mondragon (Spain)	DIMAND Dreamworks		Companies / 25-50 people	MGEP
Organization of workshop	2022	Mondragon (Spain)	M4Future Dreamworks		Companies / 25-50 people	MGEP
Organization of conference	2022	Bilbao (Spain)	Design Konferentziak		Companies and professionals	MGEP
Regional Network Meeting	TBC (about 5 times per year)	Nottingham, UK	Nottinghamshire Manufacturing Network	<a href="http://n-m-n.co.uk/">http://n-m-n.co.uk/</a>	Regional companies and academics Size:40	TQC
Seminar	Biennial 2022& 2024	TBC	International Precision Assembly Seminar (IPAS)	<a href="https://www.ipas-seminar.com/">https://www.ipas-seminar.com/</a>	Academics and manufacturers Size:40	TQC
Workshop	TBC	University of Nottingham, UK	Aerospace Sector Seminar	<a href="https://www.aerospace-technology-institute.com/">Aerospace Technology Institute</a>		UNOTT, TQC

### 3.3 Press releases

Press releases are short articles published in the industrial magazines (mostly local editions), to rapidly inform the industrial stakeholders about the DiManD project.

Table 4: Press releases

Date	Title	Publisher	Link	Audience targeted / Size	Country	Partner involved
20/05/2019	El Proyecto Europeo DiManD ofrece 14 tesis doctorales en Industria 4.0	Website of Mondragon Unibertsitatea	<a href="https://www.mondragon.edu/es/-/el-proyecto-europeo-dimand-ofrece-14-tesis-doctorales-en-industria-4-0">https://www.mondragon.edu/es/-/el-proyecto-europeo-dimand-ofrece-14-tesis-doctorales-en-industria-4-0</a>	General public	Spain	MGEP
Summer 2018	Proyecto 'Dimand'	Muniversitas, Nº39	<a href="http://ebiltegia.mondragon.edu:8080/xmlui/handle/20.500.11984/1451">http://ebiltegia.mondragon.edu:8080/xmlui/handle/20.500.11984/1451</a> Page 16	General public	Spain	MGEP
20/05/2019	DiManD project: call for 14 PhD positions in Industry 4.0	Website of the MEDIS group of CNR-STIIMA	<a href="http://cms.itia.cnr.it/medis/news/">http://cms.itia.cnr.it/medis/news/</a>	General public	Italy	STIIMA

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21/05/2019	Progetto DiManD ITN: bando per 14 dottorati su Industry 4.0	Website of CNR-STIIMA	<a href="http://www.stiima.cnr.it/it/index.php?sez=4#notizia107">http://www.stiima.cnr.it/it/index.php?sez=4#notizia107</a>	General public	Italy	STIIMA
21/05/2019	Progetto DiManD ITN: bando per 14 dottorati triennali su Industry 4.0	Twitter account of Cluster Fabbrica Intelligente	<a href="https://twitter.com/fabbricaintelli/status/1130837952991551488">https://twitter.com/fabbricaintelli/status/1130837952991551488</a>	General public	Italy	STIIMA
21/05/2019	Bando per 14 dottorati su Industry 4.0	Website of Meccanica Plus (technical magazine)	<a href="http://meccanica-plus.it/bando-per-14-dottorati-su-industry-4-0_106299/">http://meccanica-plus.it/bando-per-14-dottorati-su-industry-4-0_106299/</a>	General public	Italy	STIIMA
21/05/2019	Progetto DiManD ITN: bando per 14 dottorati su Industry 4.0	Website of Tecnomiera (technical magazine)	<a href="https://www.techmec.it/progetto-dimand-itn-bando-per-14-dottorati-su-industria-4-0/">https://www.techmec.it/progetto-dimand-itn-bando-per-14-dottorati-su-industria-4-0/</a>	General public	Italy	STIIMA
24/05/2019	Industry 4.0: al via un bando per 14 dottorati	General website of CNR – Consiglio	<a href="https://www.cnr.it/it/news/8751/industry-4-0-al-via-un-bando-per-14-dottorati">https://www.cnr.it/it/news/8751/industry-4-0-al-via-un-bando-per-14-dottorati</a>	General public	Italy	STIIMA

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		Nazionale delle Ricerche				
24/05/2019	Industry 4.0 al via un bando per 14 dottorati triennali nell'ambito del progetto europeo "Digital Manufacturing and Design"	Twitter account of CNR	<a href="https://twitter.com/StampaCnr/status/1131943381817593856">https://twitter.com/StampaCnr/status/1131943381817593856</a>	General public	Italy	STIIMA
03/06/2019	Progetto DiManD ITN: bando per 14 dottorati su Industry 4.0	Website of Tec'nè (technical magazine)	<a href="https://www.tecnelab.it/news/attualita/progetto-dimand-itn-bando-per-14-dottorati-su-industry-4-0">https://www.tecnelab.it/news/attualita/progetto-dimand-itn-bando-per-14-dottorati-su-industry-4-0</a>	General public	Italy	STIIMA
10/06/2019	14 Early-Stage Researcher (ESR) 3-year PhD positions in Industrie 4.0 (MSCA-ITN)	Website of Ulma	<a href="http://www.ulmaembedded.com/en/noticias/14-early-stage-researcher-esr-3-year-phd-positions-in-industrie-40-msca-itn/no-130/">http://www.ulmaembedded.com/en/noticias/14-early-stage-researcher-esr-3-year-phd-positions-in-industrie-40-msca-itn/no-130/</a>	General public	Spain	Ulma Embedded Solutions

29/05/2019	Applications open for 3 year funded PhD position	TQC	<a href="http://www.tqc.co.uk/news/news-dimand-applications.php">http://www.tqc.co.uk/news/news-dimand-applications.php</a>	TQC contacts	UK	TQC
2019	Welcome event				Spain	MGEP
2020	Virtual Welcome event					
2020-2022	TULANKIDE				Spain	MGEP

### Proyecto 'Dimand'

EL PROYECTO 'DIMAND' (DIGITAL MANUFACTURING AND DESIGN TRAINING NETWORK) PERSIGUE DESARROLLAR UN MARCO INVESTIGADOR Y FORMATIVO QUE MEJORE LA COMPETITIVIDAD INDUSTRIAL DE EUROPA MEDIANTE EL DISEÑO Y LA IMPLEMENTACIÓN DE UN PROGRAMA INTEGRADO PARA FORMAR A LOS FUTUROS PROFESIONALES DE LA INDUSTRIA 4.0.



**Escuela Politécnica Superior** | Este proyecto, liderado por la Escuela Politécnica Superior, tiene como objetivo la formación a nivel de doctorado de jóvenes investigadores por medio de una red internacional. En concreto, se van a formar *14 Early Stage Researchers* que serán contratados por las 8 empresas beneficiarias del programa, de 5 países europeos. Además, el proyecto cuenta con otros 19 participantes internacionales que intervienen en la red de formación.

"DiManD" rompe con los enfoques tradicionales de investigación y se basa en tres desafíos clave que son el núcleo de la visión de Industria 4.0: análisis de big data, sistemas ciberfísicos y sistemas autónomos de control.

Figure 1: Press note about DiManD project in MUniversitas

### 3.4 Non-scientific publications

Table 5: Non-scientific and non peer-reviewed publications (popularised publication)

Date	Title	Publisher	Link	Audience targeted / Size	Country	Partner involved
Winter 2019		Ikertzen, Muniversitas	<a href="http://ebiltegia.mondragon.edu:8080/xmlui/handle/20.500.11984/1396">http://ebiltegia.mondragon.edu:8080/xmlui/handle/20.500.11984/1396</a> Pages: 12-13	University / 10000	Spain	MGEP
Summer 2020		Tecnia's Blog	<a href="https://computervision.tecnalia.com/es/">https://computervision.tecnalia.com/es/</a>	All public	Spain/Europe	Tecnia UPV/EHU
Summer 2021		Campusa	<a href="https://www.ehu.eus/es/campusa">https://www.ehu.eus/es/campusa</a>	All public	Spain	UPV/EHU Tecnia

### 3.5 Exhibitions – Trade Fairs

Table 6: Exhibitions – Trade Fairs

Date	Title	Venue	URL	Audience targeted / Size	Partner involved
May 2022		BIEMH- International Machine Tool Exhibition	<a href="https://bilbaoexhibitioncentre.com">https://bilbaoexhibitioncentre.com</a>	Private Companies	Tecnalia
Exhibition	Annual	Coventry, UK	Made in the Midlands Expo	<a href="https://www.madeinthemidlandsexpo.co.uk/">https://www.madeinthemidlandsexpo.co.uk/</a>	TQC
Conference/Exhibition	Annual (TBC)	TBC	East Midlands Engineering and Manufacturing	<a href="https://www.emc-dnl.co.uk/connecting-you/industry-focused-events/manufacturing-event2/">https://www.emc-dnl.co.uk/connecting-you/industry-focused-events/manufacturing-event2/</a>	TQC



### 3.6 Other events

Table 7: Other events

Date	Title	Venue	Description	Audience targeted / Size	Partner involved
2020	MU telebista	Mondragon University	Weekly TV programm with news of the university	Students and workers of Mondragon Unibertsitate	MGEP
2020	Zientziaren Astea	Garaia Polo Innovación	Round table in the Science Week (online)	High school students and general public	MGEP
2021	Teknopolis (Basque regional Tv program)		Weekly TV programm with news of the Basque research institutions	General public	MGEP
TBC	Sales Meetings	TQC or Client's site	Approximately 4 per year for selected clients	Engineering company	TQC
TBC	Engineering Client Meetings	TQC or Client's site	Approximately 4 per year for selected clients	Engineering company	TQC

## 4 Public dissemination

Public dissemination includes a website designed to be user friendly and accessible to industry and the public, as well as academic and research professionals.

Professional network initiatives will include a LinkedIn group and twitter account and public orientated YouTube videos.

### 4.1 Website

A website was established to inform the general public as well as interested companies and institutions as well as candidates about the DiManD project. The project website can be found at <https://dimanditn.eu/>. The website was launched on 2019/05/17.

The website will be updated during the project to accommodate new required functionality. At the beginning of the project, the main goal of the website was to provide information about the project and allow the application of candidates to the ESR positions available.

Once the selected candidates are recruited and start working in the project, the application part will be disabled and new sections will be created for the following:

- Section with information about the schools and training events organized by the project
- Overview of academic publications and public deliverables
- A news feed, with short updates about the progress of the project
- Connection to the social media



Figure 2: Screenshot of the Home section of the website

## 4.2 Social media

Regarding social media, a LinkedIn group and Twitter account (see Figure 3) have been already created. And a YouTube Channel is planned.

Table 8: Social Media

Date	Channel	URL	Audience targeted / Size	Country	Partner involved
July 2019	Twitter account	DiManD@DiManDITN	General public	www	MGEP
May 2019	LinkedIn group	<a href="https://www.linkedin.com/groups/12250010/">https://www.linkedin.com/groups/12250010/</a>	General public	www	MGEP
2020	YouTube Channel		General public	www	MGEP

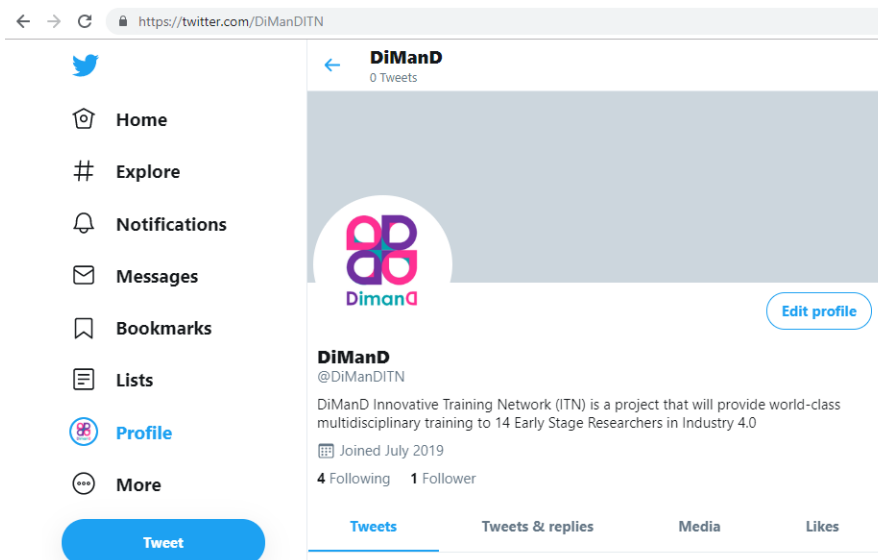


Figure 3: Screenshot of the Twitter account of DiManD

## 4.1 Communication campaign - Videos

Videos will be created for explaining the DiManD project and each of the individual research projects of the ESRs. The videos will be available in the YouTube channel of the project.

Table 9: Communication campaign - Videos

Date	Type	Description	Audience targeted / Size	Partner involved
2020	Video	A general video explaining the DiManD project	General public	MGEP
2020-2021	Video	A video for each ESR explaining their project	General public	All
2022	Video	A video for each ESR with results of their project	General public	All

## 4.2 Dissemination Materials (leaflet, roll-up, etc.)

Dissemination materials are being prepared for the wide spreading of the DiManD project. In particular, a poster/roll-up (see Figure 5) and a leaflet with recruitment purposes (see Figure 4) have been developed during the initial phases of the project, to be presented at events.

A new leaflet is being prepared for presenting the project.



## 5 Other outreach activities

Table 10: Planned outreach activities per each beneficiary

Date	Planned outreach activity	URL	Audience targeted/Size	Country	Partner involved
2019-2022	Participation in Basque Industrie 4.0 initiative public days. DiManD will be represented.	<a href="https://basqueindustry.spri.eus/en/the-meeting-point/">https://basqueindustry.spri.eus/en/the-meeting-point/</a>	Industry / 1000	Spain	MGEP
2020	Participation in the open science week at the university. DiManD will be presented.	Garaia Polo Innovación	Schools / 100	Spain	MGEP
	Participation in public days at Farnborough International Airshow. DiManD will be represented at the UNOTT public engagement open day Wonder on two separate occasions.				UNOTT
	Participation in Basque Industry 4.0 initiative public days. DiManD will be represented in the related Basque events.				Petronor
	Participation in outreach activities as part of the Italian Technology Machines Tools association and of key European Initiatives such as ManuFuture and EFFRA. Participation to the European Researchers Night and to the public events annually organized by CNR for secondary school students.			Italy	STIIMA
	Participation in outreach activities organised at KTH including LiveScience, aimed at inspiring future generations of scientists and engineers. KTH will also link all actions with KTH active educational EU projects & actions (Platforms4CPS, openMOS, TYPHIS) and its national R&D centre XPRES (eXcellence in Production REsearch).				KTH
	Participation in Basque Industrie 4.0 initiative public days. DiManD will be represented in the related Basque events.				TECNALIA
2020-2022	Participation in outreach programme to local schools such as the UNOTT Academy of Science and Technology and the UNOTT Samworth Academy. TQC will use its membership of the Nottingham			UK	TQC

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	<p>Manufacturing Network and the Made in the Midlands Group to disseminate its achievements in this project. In addition, TQC works closely with many clients and will take these opportunities to disseminate innovations to a wider audience.</p>				
	<p>Engage young students (from elementary school to university) on science and trigger their enthusiasm and curiosity for science in general, showing that materials and processes can be designed to solve societal needs. Exploiting the result beyond Europe and use the courses as a flag for "science diplomacy" mainly in potential big markets such as MENA and more specifically emerging markets with potential industrial engagement for Europe such as Iran in collaboration with EPL (The European Project Leaders Network Society). This would be a new edition and alongside EPL previous works and achievements organizing three successful International Industry 4.0 Event in Iran with the support of European entities (&amp; European commission).</p>				<p>UNINOVA</p>





## 6 Schools and events of the project

During the project six Schools will be held. The schools will provide scientific and complementary skills training by both academic and industrial partners at the highest international standard.

Schools #2, #3, and #4, which will be **publically available**. They will focus on different technical themes critical to Digital Manufacturing:

- School #2, Distributed Agent Based Control: will cover areas of multi agent systems, architectures and include practical sessions.
- School #3, Cyber Safety and Security: will focus on robust and secure systems' architecture and design, bringing industrial perspectives and actions to this important area.
- School #4, Mixed Reality Systems: will look at the use of virtual environments and mixed reality systems.

A final Dissemination and Exploitation conference will be held as well at the end of the project where the project results will be disseminated.

We have made changes in the scheduling and the School #3 was hold in March 2021 and School #2 is planned to be held in June 2021. Due to COVID situation, School #3 was a virtual one and the same format will be used in School #2.

## 7 Involvement of ESR in dissemination activities

ESRs will participate in all the dissemination and communication activities described in this plan as they will participate in the dissemination and outreach activities of the project and their host institutions.

Each ESR will deliver presentations at local and national events, produce brief accessible summaries of their projects, and produce brief initial and final report on public engagement work. They will prepare videos about their research projects for the YouTube channel and provide contents for the social media and newsletters.

## 8 Conclusions

This deliverable presents the dissemination plan of the DiMand project.

The dissemination plan presented here is the third version of the document that the partners have planned. During the course of the project these activities will be monitored and updated continuously. Updates will be reflected in the D6.10 Updated Dissemination Plan deliverable document due in M30 (October 2021).

## 9 Versions

D6.2 Dissemination Plan	
Version - Date	Comments & Recommendations
V0.1 – 27/09/2019	Table of content
V0.2 – 21/10/2019	Inputs of partners added
V0.3 – 28/10/2019	New inputs of partners added
V1.0 – 15/11/2019	Final version
V2.0 – 05/10/2020	Intermediate version
V3.0 – 14/12/2020	Third version
V3.0 – 23/12/2020	Last version 2020
V4.0 – 15/03/2021	Fourth version
V5.0 – 01/05/2021	Fifth version