

Grant Agreement N°857191

Distributed Digital Twins for industrial SMEs: a big-data platform

DELIVERABLE 8.12 – DISSEMINATION PLAN AND REPORT (III)



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Executive summary

This document is the third release of the "Dissemination Plan and report" of IoTwins project. It includes updates about "Partners' networks and initiatives" and "Partners' media channels", as well as the list of the activities performed by the partners in the period from M19 (March 2021) to M30 (February 2022).

The IoTwins Dissemination Plan plays an essential role in involving and informing the research and industrial communities, attracting and engaging SMEs in the manufacturing and service sector. It is a 'living document', enriched and improved as the project unfolds and progresses, answering to the needs of partners and stakeholders, to facilitate the flow of information about the project among all actors involved.

Its main **objectives** are to:

- inform on the objectives and intermediate and final results of the project and disseminate the results towards potential users and beneficiaries
- reach national and international networks and organisations
- build participation and consensus around it.

Dissemination is focused on results and moves around the main IoTwins assets:

- the Big Data platform, along with all its technological components (including its Machine Learning based services and Quality of services policies)
- the 12 testbeds, organized in the 3 categories: manufacturing, facility management, replicability.

The IoTwins Dissemination target groups include both internal and external ones.

- As for internal targets, a great relevance is given to project partners, that are involved in
 dissemination actions along with the local ecosystems and networks they belong to, and the
 relations they hold in turn at local, national and European level.
- As for *external ones*, Industries, SMEs and the broader Scientific Communities are identified as crucial for reaching dissemination objectives.

Concerning the **channels and tools** that are used for dissemination activities, the plan identifies:

- Partners' own channels and tools, that will function as amplifier of dissemination actions.
- Scientific publications as main tool to share research results, make them available and ready-to-use
 to others when possible, and to inspire brand new research activities, thus multiplying EU support's
 impact.
- Open Science platforms; Project website; Twitter account, that can be profitably used also during technical and scientific events.
- Press and Media relations; Events, that include a special section dedicated to an ad hoc Dissemination
 events kit for partners, Company guided tours, conferences and technical workshops; Trade Fairs and
 other Exhibitions to be thought as virtual due to the pandemic.



1 Introduction

According to the EC Research & Innovation Participant Portal Glossary/Reference Terms, **dissemination** can be referred to as "the public disclosure of the results by any appropriate means (other than resulting from protecting or exploiting the results), including scientific publications in any medium", whose objective is **transferring knowledge and results with the aim to enable others to use and take up results**, stimulating further research activities, thus maximizing the impact of EU-funded research.

Dissemination and communication are tied with each other, and sometimes a communication action can end up with producing a dissemination outcome; in this sense, communication actions can often overlap and cross with dissemination ones.

The Dissemination Plan plays an essential role in involving and informing the research and industrial communities, attracting and engaging SMEs in the manufacturing and service sector.

The IoTwins dissemination plan is a 'living document', enriched and improved as the project unfolds and progresses. It is necessary to review the strategy periodically to see what has worked, and what did not, what we should do more of or less of. The plan should answer to the communication needs of all partners - and stakeholders, too - and facilitate the flow of information about the project among all actors involved.

The Dissemination Plan includes:

- 1. the overall scope and specific dissemination objectives to achieve
- 2. the description of the project assets (what to disseminate)
- 3. the target groups (who will be informed and engaged)
- 4. the communication tools for different audiences

This Plan is yearly updated to ensure the alignment with the project timing and results.

Due to the COVID-19 pandemic outbreak, dissemination activities had to be re-shaped so that all foreseen in-presence ones could be run in a virtual mode.



2 Objectives

IoTwins **Dissemination Plan** is conceived to provide due relevance to research results and create pathways towards different target groups all along the project life.

It includes a list of actions and tools, toward all partners involved in the implementation of the activities, designed to:

- inform on the objectives and intermediate and final results of the project and disseminate the results towards potential users and beneficiaries
- reach national and international networks and organisations
- build participation and consensus around it.

The IoTwins project is composed by many groups that are involved at different levels across the project organizational hierarchy, namely:

- Consortium level: the 23 IoTwins partners.
- **Network of stakeholders:** organisations that, without being partners in the project, have expressed their deep interest in supporting and being updated on project activities.
- **Interested audience:** relevant audience that IoTwins partners will keep informed during the project lifetime, that will be better detailed throughout the document.

In the next section IoTwins project assets are introduced and they represent the main "objects" we are going to communicate with the specific actions described in section 3 and 4.



3 Description of the project assets

IoTwins is a European project that aims to build a reference architecture for the development of efficient and distributed digital twins for specific manufacturing and facility management domains. 12 dedicated large-scale testbeds will collect large amounts of data to generate and refine the associated digital twins, including optimized models of resources, systems and processes involved. IoTwins digital twins will be used to improve the efficiency of production processes and of facility management, as well as to demonstrate the replicability of the achieved results in similar scenarios and to determine new application areas and business models.

All the IoTwins testbeds share the same methodology, grounded on the concept of distributed IoT-/edge-/cloud-enabled hybrid twins, to replicate complex systems, with the ambition of predicting their dynamics and temporal evolution.

Key technological elements of the IoTwins approach are:

- A full-fledged platform enabling easy and rapid access to heterogeneous cloud HPC-based resources for advanced big data services.
- Intelligent services to simplify and accelerate the integration of advanced Machine Learning algorithms, physical simulation, on-line and off-line optimization into distributed digital twins.
- Advanced edge-oriented mechanisms, tools, and orchestration to support Quality of Service in the runtime execution of the distributed digital twins.

The **12 testbeds** are grouped in **three categories**:

MANUFACTURING TESTBEDS

4 industrial pilots providing predictive maintenance services that exploit sensors data to forecast the time to failure and produce maintenance plans that optimize maintenance costs:

- Wind turbine predictive maintenance Bonfiglioli Riduttori and KK Wind Solutions
- Machine tool spindle predictive behaviour FILL and TTTECH COMPUTERTECHNIK AG
- Predictive maintenance for a crankshaft manufacturing system ETXE-TAR
- Predictive maintenance and production optimization for closure manufacturing GCL International

FACILITY MANAGEMENT TESTBEDS

3 testbeds for identification of criticalities, optimization techniques to provide efficient facility management plans, operation optimal schedules, and renovation/maintenance plans:

- CAMP NOU Sport facility management and maintenance FUTBOL CLUB BARCELONA and BARCELONA SUPERCOMPUTING CENTER
- EXAMON Holistic supercomputer facility management CINECA
- Smart Grid facility management for power quality monitoring SIEMENS

REPLICABILITY TESTBEDS

5 testbeds to demonstrate the replicability and the scalability of the IoTwins platform and of the former manufacturing and facility management testbeds:

- Patterns for smart manufacturing for SMEs CETIM
- EXAMON replication to other data centre facilities CINECA, INFN and BARCELONA SUPERCOMPUTING CENTER
- Standardization/homogenization of manufacturing performance GCL International
- CAMP NOU replicability towards smaller scale sport facilities FUTBOL CLUB BARCELONA
- Innovative business models for IoTwins PaaS in manufacturing MARPOSS



4 Target Groups

In general, the main dissemination target can be summarized as follows:

- Scientific community
- Industrial partners
- Policy makers

In the table below the project's specific audience are introduced. Based on this, the appropriate dissemination channels will be identified along with the most suitable tools. Due to the pandemic, the initiatives will be organised mainly through digital technologies, using new dedicated tools, while they will be in presence only if possible.

| TARGET | | HOW TO REACH THEM | | |
|--|--|---|--|--|
| WHO | FIELD OF ACTIVITY | INITIATIVES | OTHER CHANNELS | |
| SMEs keen to implement Industry 4.0 platforms | Manufacturing | Events Pilots' (testbeds) visits Meetings Conferences and workshops Open Days EC specific initiatives, such as I4MS, ICT Innovation for Manufacturing SMEs and Enterprise Europe Network Open innovation initiatives Brokerage events | Online and traditional media coverage Social networks IoTwins website Partners' and stakeholders' websites E-newsletters | |
| All actors along specific value chains, including OEMs and owners/operators of facilities | Value chain within the wind, automotive, sports' events, aeronautic sectors Wind, Automotive, Sports Events, Aeronautic Sectors Value Chains Energy and manufacturing | Events Meetings Conferences and workshops Testbeds visits organisation Fairs/exhibitions Events organized by entrepreneurial associations Pilots' (testbeds) visits Ad hoc meetings Open innovation initiatives Brokerage events | Online and traditional media coverage Social networks IoTwins website Partners' and stakeholders' websites E-newsletters | |
| SMEs, Research Centres, Universities developing Industry 4.0 initiatives, including IoTwins Partners | Distributed edge/cloud, Big Data and IoT Industry 4.0 | Open Days Fairs/exhibitions National/EU level events on ICT Entrepreneurial associations' events Scientific Congresses Open innovations initiatives Brokerage events | Publications in scientific journals LinkedIn threads, discussions | |



| TARGET HOW TO REACH THEM | | | |
|--|--|--|---|
| TARC | | | |
| WHO | FIELD OF ACTIVITY | INITIATIVES | OTHER CHANNELS |
| Broader scientific community (including universities and R&D centres, R&D teams, Ph.D.s, post-doc candidates) | | Seminars and webinars within UNIBO, BSC, FOKUS, TUB, INFN and CINECA Open innovations initiatives Brokerage events | Publications in scientific journals Post-doc courses that will be started during the project LinkedIn threads, discussions Research Gate OpenAIRE Other European Platforms and initiatives |
| IoTwins Partners and stakeholders | | Conferences Brokerage events (e.g. Enterprise Europe Network initiatives) Events related to the following organisations: Big Data PPP (BDVA), of which CINECA, BSC, ESI, FOKUS, and UNIBO are already members ETP4HPC: of which CINECA, BSC, FOKUS, INFN and UNIBO are already members | Communication among partners that are already members of these platforms |
| Policy Makers and EC directorates, i.e. relevant departments of the EC Standardization bodies | DG ENER DG DIGIT DG CONNECT DG RTD DG MOVE DG CLIMA DG ENV | Direct contacts and networking initiatives Workshop organisations with industries and public institutions Conferences Events | |
| Regional, National authorities and general public | i.e. CEN and CENELEC | Approached through national press releases, pilots' visits workshops, summer schools, etc. | |



5 Dissemination channels and tools

For information to circulate with ease among partners, a set of tools was prepared. It includes:

5.1 Partners' channels and tools

This plan takes into account that all organizations involved in the IoTwins project are part of bigger innovation ecosystems, at the centre of local, national and international relations and are, in turn, members of different **networks**, associations and hubs active at various levels in the fields of the project. Single organizations can thus act as **amplifiers and multipliers of the project's results** towards these networks and their own local territories as well.

As for their own communication channels, all partners can count on corporate websites and social media pages, that could be profitably exploited as further channels to multiply the impact of project dissemination actions.

The tables that follow include a mapping of all partners' communication channels, through which IoTwins partners can contribute to disseminate project's results:

- The first table maps the network and initiatives where the partners are involved in.
- The second table maps the media channels: websites, social media, IoTwins web pages.

| PARTNER | NETWORKS AND INITIATIVES |
|---------|--|
| BSC | Partnership for Advanced Computing in Europe (PRACE) has 26 member countries whose representative organisations create a pan-European supercomputing infrastructure, providing access to computing and data management resources and services for large-scale scientific and engineering applications at the highest performance level. Spanish Supercomputing Network (RES) is a distributed infrastructure that consists of the interconnection of 14 supercomputers with the aim of offering high-performance computing resources to the scientific community, and from now on, the RES also offers data resources. The RES is coordinated by BSC. |
| | - High Performance Embedded Architecture and Compilation (HiPEAC) is the premier focal point for networking, dissemination, training, and collaboration activities in Europe for researchers, industry, and policy related to computing systems. Today, its network, the biggest of its kind in Europe, numbers over 2,000 specialists. |



PARTNER NETWORKS AND INITIATIVES

FCB

- Digital Innovation Hubs (DIHs) though Barcelona Innovation Hub (BIHUB): BIHUB is an ecosystem that drives knowledge and innovation. BIH ecosystem works to boost cutting edge technology and innovation generating relevant impact in the sports industry working closely with key partners, such as brands, universities, research centers, start-ups, entrepreneurs or large enterprises. FCB has a sponsorship networks ecosystem with brings international and leading companies such as Nike, Rakuten, Beko, 1xBET, Estrellla Damm, Konami, CUPRA, OPPO, STANLEY Black& Decker, Gatorade, Chiliz, FBS, Thom Browne, Caixa Bank, Assistència Sanitària, Allianz, Shiseido, SK Lubricants, Scotiabank, Yunnan Balyao, Taiping Life Insurance, Coca Cola, Rakbank, Sebang/Rocket, Maybank, SHB, Banco BMG, H&S, Nichiban Cannon Medical Systems, Serveto, Reno and Naulover
- FCB Universitas: FCB's centre for the creation and transmission of knowledge and innovation. It promotes an open and collaborative ecosystem with brands, universities and research centres from around the world (MIT, Stanford, Hardvard, Georgetown, ESADE, IESE and University of Beijing) and aims to position FCB as a leading referent in knowledge dissemination in the sports world, through activities such as online streaming of workshops held by the Club, the launch of innovation challenges on a global scale, and online courses, which are all tools for sharing the Club's knowledge
- Sports Tomorrow Congress: For over 10 years FCB has brought leading experts to inspire coaches, analysts, doctors, nutritionists, physiotherapists, sports scientists, marketers, and business executives to this two-week event to discover, learn and trigger the next innovation in sports industry. IoTwins project had its presence at this congress at the Sports Technology and Sports Business tracks, that put together more than 1,000 attendees and captured the spotlight of the global sports industry for 2 weeks.

MARP

- Ucimu UCIMU-SISTEMI PER PRODURRE is the Italian machine tool, robots, automation systems and ancillary products (NC, tools, components, accessories) manufacturers' association. The value and the long-standing tradition of member companies, characteristic of one of the sectors that best represents the whole manufacturing chain, and the capabilities of the association network, make UCIMU one of the most influential representatives of Sistema Confindustria (General Confederation of Italian industry System). MARP is even a "Confindustria Emilia Romagna Area Centro" Partner.
- <u>Er Amiat</u> Emilia-Romagna Advanced Mechanics and Industrial Automation Technology (E.R.-AMIAT) is a non-profit association that operates on the international level to promote the needs of Emilia-Romagna industrial automation cluster and foster its competitive development.
- Cluster Fabbrica Intelligente Cluster Fabbrica Intelligente is an association recognized with the aim of implementing a strategy based on research and innovation for the competitiveness of Italian manufacturing. It is the only table at which all the stakeholders involved in the fate of Italian industry sit at the same time: companies, business associations, regions, universities and research bodies, institutions.
- <u>Bi-Rex</u> A Competence Center in Bologna for Industry 4.0 Bi-Rex Competence Center intends to be a strategic and operational player to support companies interested in digitalization of industrial processes, within Industry 4.0 framework: from design to production, from R&D to supply chain, from security to blockchain.
- <u>EIT Manufacturing</u> (under registration) EIT Manufacturing is an Innovation Community within the <u>European Institute of Innovation & Technology (EIT)</u> that connects the leading manufacturing actors in Europe. Fueled by a strong interdisciplinary and trusted community, we will add unique value to European products, processes, services and inspire the creation of globally competitive and sustainable manufacturing.



| | ·II. IOIWIIIS |
|-----------|---|
| PARTNER | NETWORKS AND INITIATIVES |
| UNIBO | - Seminars and Workshops held at the university, both for master and PhD students |
| | - BDVA |
| | - BI-REX (Competence center - Digital Innovation Hub) |
| | - European Institute of Innovation (EIT) Manufacturing |
| | - Industrial Internet Consortium |
| | - Other related IoT and Big Data EU projects: Change2Twin and Terminet |
| INFN | - High Energy Physics Communities; |
| | - Astroparticle Communities; |
| | - Europea e-Infrastructures (EOSC); |
| | - Italian and European Universities; |
| | - European and Worldwide Research Datacenters and Supercomputing Centers; |
| | - National and International Research Institutes |
| CINECA | BDVA ETP4HPC |
| ART-ER | Data Valley and the whole Emilia-Romagna Innovation Ecosystem: |
| ANT-LN | |
| | - Big Data Association |
| | - Big Data and Artificial Intelligence for Human Development |
| | - High Technology Network |
| | - Clust-ERs Associations |
| | - S3 Platforms "Traceability & Big Data" and "Artificial Intelligence & Human machine |
| | interface" |
| | - Vanguard Initiative |
| ETXE | - Industrial Internet Consortium |
| | - Digital Twin Consortium |
| KK Wind | - Wind Denmark |
| Solutions | - Danish Wind Export Association (DWEA) |
| | - American Wind Energy Association (AWEA) |
| | - APQP4Wind |
| | - Engineer The Future |
| BEWG | Warrant Hub (WG), Linked Third Party of BEWG, has a customer portfolio of more than 6.000 |
| | companies, most of them are manufacturing SMEs. The company newsletter illustrating, |
| | among alia, the latest achievements and events related to the H2020 projects in which BEWG |
| | and/or WG are involved is periodically sent them. |
| | Several collaborations are in place with local innovation districts and main associations |
| | representing manufacturing and service companies in Italy, as well as with national |
| | associations promoting collaborative and industrial research activities. |
| CETIM | EFFRA founding member, Manufuture HLG member, Carnot Art, Quatrium Platform Member, |
| | 6500 affiliated members to CETIM. |
| ENSAM | - Carnot Arts |
| | - Digital engineering initiative |
| SIEMENS | EM related fairs, Distributech, European Utility Week |
| (SAG+SA | MindSphere Application Center (MAC): this is a co-creation platform, along with customers |
| GOE) | "Industrial IoT@Siemens" conference series in Nuremberg |
| TTT/TIAG | https://www.iiconsortium.org |
| • | |
| | |
| THALES | Thales group internal technical seminars, that will occur at least once per year during the |
| | project, and probably during one year after project ending. |
| FILL | EFRA, Social Media (YouTube, Instagram, LinkedIn, Facebook, Twitter), Homepage, CORE |
| I | Smartwork internal employee communication tool |

Table 1 – Partners' network and initiatives



| | | | | 11. 101111111 |
|---------|--------------------------|----------------------------------|--------------------|-----------------------|
| PARTNER | Website | Social Media | Newsletter | IoTwins Page |
| BRI | https://www.bo | https://twitter.com/Bonfiglioli_ | | https://www.bon |
| | nfiglioli.com/en | https://www.linkedin.com/comp | | figlioli.com/italy/i |
| | | any/bonfiglioli-riduttori-spa | | t/news/Horizon2 |
| | | | | 020-loTwins- |
| | | https://www.youtube.com/chann | | news |
| | | el/UC8xvq7lt0om0vzFrDl0bRBw | | |
| | | https://www.instagram.com/bon | | |
| | | figlioli group | | |
| | | | | |
| BSC | www.bsc.es | http://twitter.com/bsc_cns | Monthly newsletter | https://www.bsc. |
| | | https://www.linkedin.com/comp | Weekly bulletin | es/research-and- |
| | | any/barcelona-supercomputing- | Treem, building | development/pro |
| | | center | | <u>jects/iotwins-</u> |
| | | | | <u>distributed-</u> |
| | | https://www.facebook.com/BSCC | | <u>digital-twins-</u> |
| | | <u>NS</u> | | industrial-smes- |
| | | http://www.youtube.com/BSCCN | | <u>big-data</u> |
| | | <u>S</u> | | |
| | | | | |
| | | https://www.instagram.com/bsc | | |
| | | _cns/ | | |
| ESI | https://www.esi | https://twitter.com/ESIgroup | | |
| | -group.com/ | https://www.linkodin.com/comp | | |
| | giodpicomy | https://www.linkedin.com/comp | | |
| | | any/esi-group/ | | |
| | | https://www.facebook.com/ESIgr | | |
| | | <u>oup</u> | | |
| | | https://www.youtube.com/user/ | | |
| | | esigroup | | |
| | | | | |
| FOKUS | https://www.fo | https://twitter.com/fraunhoferfo | | |
| | kus.fraunhofer. de/en | <u>kus</u> | | |
| | | https://www.linkedin.com/comp | | |
| | | any/fraunhoferfokus | | |
| | | | | |
| | | https://www.facebook.com/frau | | |
| | | nhoferfokus | | |
| | | https://www.youtube.com/user/ | | |
| | | <u>FraunhoferFOKUS</u> | | |
| TUD | https://www.t | | | hatana //www |
| TUB | https://www.tu. | https://twitter.com/TUBerlin | | https://www.av.t |
| | berlin/ | https://www.linkedin.com/school | | <u>U-</u> |
| | | /technische-universitaet-berlin | | berlin.de/researc |
| | | https://www.facebook.com/TUR | | h_development/ |
| | | https://www.facebook.com/TU.B | | projects/iotwins/ |
| | | <u>erlin</u> | | parameter/en/ |
| | | https://www.youtube.com/tuberl | | |
| | | <u>intv</u> | | |
| | | https://www.instagram.com/tu_ | | |
| | | | | |
| | | berlin/ | | |



| | | | | loiwiiis |
|---------|--|---|---------------------------------|---|
| PARTNER | Website | Social Media | Newsletter | IoTwins Page |
| FCB | https://barcainn ovationhub.com /ca/ | https://twitter.com/BarcaInnoHub https://www.linkedin.com/comp | N/A | N/A |
| | https://www.fc barcelona.com/ en/ | any/barca-innovation-hub https://www.facebook.com/fcbu | | |
| | https://www.fc barcelona.es/es / | niversitas https://www.youtube.com/chann el/UCHfk-pApk5etPPFHCLrD9bw https://www.instagram.com/barc auniversitas/ | | |
| MARP | https://www.m arposs.com | https://twitter.com/Marposs/ https://www.linkedin.com/comp any/marposs/ | | https://www.mar poss.com/eng/bi g-data-platform- |
| | | https://www.facebook.com/Mar poss/ | | iotwins |
| | | https://www.youtube.com/c/Mar possGroup | | |
| | | https://www.instagram.com/mar possgram/ | | |
| UNIBO | https://www.un ibo.it | https://twitter.com/UniboMagazi ne | Newsletter delivered monthly | |
| | http://informati ca.unibo.it | https://www.linkedin.com/school /unibo/ | | |
| | | https://www.facebook.com/unib o.it | | |
| | | https://www.youtube.com/user/ UniBologna | | |
| | | https://www.instagram.com/unib o/ | | |
| INFN | http://home.inf | https://twitter.com/INFN_ | | https://dbproget |
| | n.it/en | https://www.facebook.com/page s/INFN-Istituto-Nazionale-di- Fisica-Nucleare/45086217578 | | ti.dsi.infn.it/dbpr ogetti/modificaPr ogettoGODiVA/2 061 |
| | | https://www.youtube.com/user/comunicazioneINFN | | <u>501</u> |
| | | https://www.instagram.com/infn _insights/ | | |



| | | | | iolwins |
|---------|---|--|--|---------------------------------|
| PARTNER | Website | Social Media | Newsletter | IoTwins Page |
| CINECA | <u>www.cineca.it</u> | https://twitter.com/cineca1969 | | https://www.cine |
| | www.hpc.cineca .it | https://it.linkedin.com/company/cineca | | ca.it/en/hot- topics/loTwins |
| | | https://www.facebook.com/Cine ca1969/ | | |
| | | https://www.youtube.com/user/ CINECA1969/ | | |
| ART-ER | https://www.art | https://twitter.com/Arter_ER | Weekly newsletter | |
| | -er.it/ | https://www.linkedin.com/comp any/art-er/ | on R&D funding opportunities in | |
| | https://www.facebook.com/arter Emilia-Romag | Emilia-Romagna region | | |
| | | https://www.youtube.com/channel/UCMIPaepIFW9G6DXnSRzEaxQ | https://first.aster.it / aster /registrazi one | |
| | | https://www.instagram.com/arteremiliaromagna/ | | |
| ETXE | https://www.et xetar.com/en | https://www.linkedin.com/comp any/26206399 | Monthly newsletter | |
| | www.ainguraiio t.com | https://www.youtube.com/channel/UCpSJT737TWF7EqzMJSJuOhQ | | |
| KKWS | www.kkwindsol utions.com | https://www.linkedin.com/comp any/kk-wind-solutions | Newsletter is published semi- | |
| | | https://www.youtube.com/channel/UCTA3KnHMfF2YkcsEDKWIEIQ | annually with approximately 250 subscribers | |
| BEWG | https://www.ef dbewarrant.eu | https://www.linkedin.com/comp any/bewarrant/ | https://www.warra nthub.it/news/?cat | |
| | https://www.wa rranthub.it | https://twitter.com/warranthub? lang=en | egoria=newsletter | |
| | | https://www.linkedin.com/comp any/warranthub/ | | |
| | | https://www.facebook.com/warr anthub | | |
| | | https://www.youtube.com/channel/UC69dsrdwDWVuEdmBE7ZyuBw | | |
| | | https://www.instagram.com/war ranthub/?hl=en | | |



| | | | | 11. 101111113 |
|-----------------|-------------------------------------|--|--------------------------------------|--|
| PARTNER | Website | Social Media | Newsletter | IoTwins Page |
| ENSAM | https://artsetm etiers.fr/en | https://www.twitter.com/Artset Metiers | | |
| | | https://www.linkedin.com/school /arts-et-m-tiers-paristech/ | | |
| | | https://www.facebook.com//AM ParisTech | | |
| | | https://www.youtube.com/ARTS ETMETIERSCOM | | |
| | | https://www.instagram.com/art setmetiers_ensam | | |
| GCL | https://www.gu alaclosures.com | https://www.linkedin.com/comp any/guala-closures-group/ | | |
| | https://www.ne | https://www.youtube.com/user/ Gualaclosuresgroup | | |
| | stgate- gualaclosures.co m/ | https://www.instagram.com/gual aclosuresgroup | | |
| | https://www.gcl technologies.lu/ | | | |
| SIEMENS | https://www.sie | https://twitter.com/siemens | Quarterly Siemens | |
| (SAG+SA GOE) | mens.com/glob al/en.html | https://www.linkedin.com/comp any/siemens | internal newsletter (Austria + 20 | |
| | https://hitech.at | https://www.facebook.com/Siemens | Countries) | |
| | | https://www.youtube.com/user/ Siemens | | |
| | | https://www.instagram.com/sie mens/ | | |
| TTT/TIAG | https://www.ttt ech.com/ | https://www.linkedin.com/comp any/tttech | | https://www.ttte |
| | | https://www.youtube.com/user/ TTTechGroup | | /research- projects/eu- h2020/iotwins/ |
| THALES | https://www.th | https://twitter.com/thalesgroup | | |
| | alesgroup.com/ en | https://www.linkedin.com/comp any/thales | | |
| | | https://www.facebook.com/thale sgroup | | |
| | | https://www.youtube.com/user/t hethalesgroup | | |



| PARTNER | Website | Social Media | Newsletter | IoTwins Page |
|---------|---------------------------|---|------------|---|
| CETIM | https://www.ce tim.fr/ | http://twitter.com/#!/CetimFrance | | |
| | | http://www.facebook.com/pages /Cetim-Centre-Technique-des- Industries- M%C3%A9caniques/2294994537 76590 | | |
| FILL | https://www.fill | http://www.twitter.com/fillgurte | | https://www.fill.c |
| | .co.at/ | n http://www.linkedin.com/compa ny/fill | | o.at/en/fill/resea rch-/horizon- 2020/1455.html |
| | | http://www.facebook.com/fillma schinenbau | | |
| | | http://www.youtube.com/user/fi Ilmaschinenbau | | |
| | | https://www.instagram.com/fillm aschinenbau/ | | |

Table 2 - Partners' media channels

5.2 Scientific publications

IoTwins scientific results are being widely disseminated by the research partners through **peer-reviewed journals and other scientific publications**. The addressed journals cover all the relevant project's topics: Al, IoT, Big Data, Cloud, Edge/Fog Computing, Simulation and Data Management.

WP8 is in charge of the dissemination of such knowledge to mainstream channels, which will also be subject to a reformulation of the main concepts into a widely understandable and suitable language.

All papers published by partners in the framework of IoTwins project must include the following sentence:

ACKNOWLEDGEMENT

This research was partly (or fully) supported by the H2020 IoTwins project (Distributed Digital Twins for industrial SMEs: a big-data platform) funded by the EU under the call ICT-11-2018-2019, Grant Agreement № 857191.

Moreover, any dissemination of results must indicate that it reflects only the author's view and that the European Commission is not responsible for any use that may be made of the information it contains.

In section 6.2 the list of IoTwins related scientific publication delivered by project partners is reported.

5.3 Open Science platforms

Each beneficiary must ensure open access (free of charge, online access for any user) to all peer-reviewed scientific publications relating to its results.

Rather than keeping data and materials (and ideas) within the confines of academic research labs, open science invites anyone to observe, contribute, and create. Researchers are part of a society composed mostly of nonscientists who fund, participate in, benefit from, and in some cases are the subjects of their research.



At the heart of the open-science movement is the conviction that research in all fields must be performed in dialogue with society - a responsibility that predicates "openness" as the core organizing principle for scientific practices. In order to make research results more accessible and transparent, platforms such as Research Gate and OpenAIRE could be used to submit scientific articles and disseminate project's results towards the scientific community.

5.4 Project website

IoTwins website (<u>www.iotwins.eu</u>) is one of the dissemination tools. In particular, the **News and events** sections (the whole project website structure is described in the Deliverable 8.5 - Communication tools) is used as an online tool to inform the audience concerning new achievements or dissemination events.

Also, IoTwins website has a section dedicated to **the project main goals and activities**, a space where all important reports concerning project achievements will be published.

This page can represent an agile tool to tell about the project when no leaflet or other paper material is available.

5.5 Twitter account

Project has a Twitter account, <u>@iotwins_EU</u>. It is managed by ART-ER - as WP8 leader - with contributions from all partners. Tweets are used:

- As a hook to the project website
- To tell in real time about very important events
- To promote dissemination initiatives

Social media is an invaluable tool when it comes to connecting with people and staying updated on events, including conferences. Twitter represents an opportunity to interact with the conference's targeted audience.

GUIDELINES FOR USING TWITTER DURING EVENTS AND CONFERENCES:

- Follow the conference hashtag to see what people are talking about and to join the conversation.
 Partners can also use it to find out about sessions, social events, and anything else they may have missed.
- Inform people that IoTwins partners are attending by using the conference hashtag. This will give the opportunity to connect with people prior to the conference.
- Share photos, videos, and quotes from the conference. According to Twitters Media Blog, posts with
 photos get a 35% boost in retweets, videos get a 28% boost, and quotes get a 19% boost compared
 to regular tweets.
- Twitter is a very good channel for sharing experiences from the conference, but before posting
 anything, be clear on the policy of sharing information. Some speakers do not want their unpublished
 work to be tweeted or shared.
- Partners should use LinkedIn as well. After meeting new people at the conference, adding them on LinkedIn is a great way to connect and stay in touch. The function "Find Nearby" on LinkedIn is an easy way to connect with people at conferences.



5.6 LinkedIn account

The project LinkedIn account (https://www.linkedin.com/company/iotwins) has been created in October 2021, with the purpose of supporting engagement around project activities, providing a landing page for project stakeholders. The page is also used to deliver project related content, e.g. the short video interviews produced and reported in D8.10 Communication tools (III) (link).

The page is managed by ART-ER - as "WP8 - Outreach activities – dissemination and communication" leader – together with BeWarrant/Warrant Hub - as "WP7 - Exploitation and knowledge management" leader.

5.7 Press and Media relations

All important achievements and project's milestones will also be announced through press releases during the lifetime of the project. In this period, press releases will include information on specific deliverable accomplishments, events, key results and important announcements. A press release can act as a hook to stimulate companies and researchers to go more in depth through the project activities, that means that also the press can be an effective dissemination tool.

Press releases will be sent not only to common media, but also to specialized business, innovation and research themes magazines. It is important to inform media about the newsworthy events and results. Special attention should be directed towards raising media awareness of the project activities and results, engaging their interest in the subject. Press releases will also be published on the project website and promoted through project social media accounts. Press releases should always include a link to the project website.

5.8 Events

The term "event" refers to private or public events, scientific conferences and congresses, meetings, technical workshops, open days, political level events, events organized by the European Commission or its Directorates, trade fairs and exhibitions, in digital or in presence.

Due to Covid-19 pandemic, all necessary means are put in place by ART-ER, in order to implement the activities according to a proactive approach, through the use of digital tools. Since 2020, all necessary preparations to switch from in-presence to online seminars/events/fairs B2B (using Microsoft Teams, Zoom, Google Meet, Lifesize, Brella platforms) have been put in place. Although online seminars do not allow the same kind of benefits (i.e. team-building, social networking, live experiences, etc.) to partners and stakeholders as in-presence meetings do, on the other hand they make it possible to enlarge the number of participants from all over the world.

Events represent an effective channel of communication and dissemination, since the possibility to meet in person with the targeted audience allows for a more proper presentation and explanation of project results, and to go more in-depth on details. They can be the perfect way to arrange also digital one-to-one meetings with other attendants or speakers, or to open up to new networks that are relevant for project activities. Preparing a 30-seconds speech on the object of project's activities can be a good way to introduce themselves during this kind of initiatives.

When talking about events, it should always be considered that their lifetime also includes an amount of time **before** and one **after**.



Before an event, whether a technical workshop or a scientific conference, a promotion activity should be started: partners should work on selecting the proper audience, the message to be conveyed, the timing for sending invitations, and all other activities needed for the specific case, according with WP8 coordinator and Outreach team.

After the event, some **follow-up** actions should be undertaken, so as to keep the audience attention alive and to schedule any further contacts or meeting with people who showed interest in the project's activities.

Events can be both virtual and in presence, public and private, and can be organized by:

- IoTwins Consortium
- Single IoTwins partners
- Third parties

There can be different levels of participation. A full description is included in D8.4- Communication Plan and report (I) (<u>link</u>) in the related Events section.

In case of Scientific Conferences or other types of events, partners will evaluate on a case-by-case basis the actions to be put in place to participate; it can be a speech during a panel session, a poster: these depends on the goals to attain.

5.8.1 Dissemination events kit

| TOOL | TO BE USED DURING |
|--|---|
| Project logo + EU flag | Fairs/exhibition catalogues |
| | Website pages and other events' promotion materials |
| Project presentation official template | Speeches |
| | Meetings |
| Project rollup | Workshops and other events |
| | Video-interviews |
| Project leaflet | Workshops and other events |
| Project poster | Workshops and other events |
| | Video-interviews |
| Project videos | Workshops and other events |
| Project Twitter account | Events |

All the materials are available in the WP8 folder of the Microsoft Teams platform activated for the project.

5.8.2 Company guided tours and technical workshops

IoTwins can count on a rich consortium composed by renowned and important manufacturing industries, companies in the service and ICT sectors, excellent research centres, universities, and large data centres highly visible in big data research.

This represents a great chance to reach a specific audience and disseminate research achievements in a particular way, as it is actually a strong communication and marketing factor.

Due to the uncertainty given by the COVID-19 pandemic the guided tour has to be planned as virtual ones as well, also taking into account the opportunity of capitalizing upon the experience of some partners in this field. A dedicate format will be thought and shared for this action.



Virtual guided tours of the companies and research centre sites will be completed by virtual demonstrations of the specific testbeds. Technical workshops will also be organized and delivered by IoTwins partners in charge of the vertical development of project's distributed digital twins.

According to the "Description of the action" of IoTwins project,

- one Virtual Open Day event per each company that implemented an industrial testbed will be organized. That means that BRI, FCB, CINECA, ETXE, GCL, SAGOE, FILL, CETIM and BSC will be directly involved.
- 3 Technical online workshops will be organized by UNIBO, FOKUS and ESI. The workshop of ESI will be organized with the support of BEWG. These events are addressed to ICT SMEs, highlighting the possibility for SMEs to open up new opportunities for the creation of new intelligent services based on IoTwins distributed digital twins and platform.

Each partner will be responsible for the organization. The events will also be supported by the communication material developed in the project, with specific tools and press release; ART-ER prepared a set of guidelines - **Deliverable 8.11 Open Day and Technical Workshop guidelines** - on how to carry out these activities.

5.8.3 Conferences and workshops

Due to COVID-19 pandemic, participation to relevant conferences will be scouted and, also depending on the organizers' proposals, an online participation will be evaluated case by case.

Here following a list of relevant international conferences of interest for IoTwins:

| CONFERENCE | PLACE AND DATE | DESCRIPTION | WEBSITE | REF. PARTNER |
|---|--|--|--|-----------------|
| EMO metalworking fair | Hannover 16-21/11/19 (next on Sept. 2023) | EMO Hannover is one of the world's premier trade fairs for the metalworking industry. It is a key showcase for innovations and an essential driver of global production technology. | http://www.em o-hannover.de | ETXE |
| ML4CPS - Machine Learning for Cyber Physical Systems and Industry 4.0 | Berlin, 12- 13 March 2020 | The event will be dedicated to the topics of machine learning, industrial analytics and the use of machine learning (ML) in production. | https://www.io sb.fraunhofer.d e/servlet/is/51 152/ | |
| IDTechEx | Berlin, 13- 14 May 2020 | The IDTechEx Show! presents the latest emerging technologies at one event, with nine concurrent technologies and a single exhibition covering 3D printing, electric vehicles, energy harvesting, energy storage, graphene, internet of things, off grid energy independence, printed electronics, sensors & wearable technology. | https://www.id techex.com/eu rope2020/sho w/en/ | |



| | | | 11. | |
|---|---|--|--|-----------------|
| CONFERENCE | PLACE AND DATE | DESCRIPTION | WEBSITE | REF. PARTNER |
| Smart Manufacturin g Summit | Indianapolis, 2-4 June 2020 (next on May 17-18, 2022 Detroit, MI and Online) | The Only Event for Mid-Market Manufacturers | www.smartma nufacturingsum mit.com | |
| European social simulation association events | Cracow, 20- 24th September 2020 | The European Social Simulation Association (ESSA) promotes the development of social simulation research, education and application in Europe. Founded on a manifesto signed by many social simulation researchers in 1993, the basis of the ESSA's Constitution was formed. ESSA has become the most important hub of social simulation worldwide. By collaborating with CSSSA, the Computational Social Science Society of the Americas, and PAAA, the Pacific Asian Association for Agent-based Approach in Economic & Social Complex Systems, ESSA has promoted international initiatives to build a bridge between regional groups and associations. | http://www.ess a.eu.org/events / | BSC |
| III International Triple Helix Summit | Bologna, 24- 26 November 2020 | The 2020 Summit will focus on the theme "Designing globally connected regional innovation ecosystems: overcoming barriers and opening pathways". New models of cooperation among Government, Industry and Academia steering the opportunities and reducing the hurdles in the right direction for our society at large. | https://www.tr iplehelixassocia tion.org/news/ bologna-will- host-the-iii- international- triple-helix- summit-on-24- 26-november- 2020 | ART-ER |
| Big data value association forum | Online+Berli n, 3-5 November 2020 Online+ Ljubljana, 29/11- 3/12/2021 | The Big Data Value Association (BDVA) is an industry-driven international not—for-profit organisation with 200 members all over Europe and a well-balanced composition of large, small, and medium-sized industries as well as research and user organizations. BDVA is the private counterpart to the EU Commission to implement the Big Data Value PPP program. BDVA and the Big Data Value PPP pursue a common shared vision of positioning Europe as the world leader in the creation of Big Data Value. | https://www.e uropean-big- data-value- forum.eu/ | BSC, CINECA |



| | | | 11. | |
|--|---|--|---|-----------------|
| CONFERENCE | PLACE AND DATE | DESCRIPTION | WEBSITE | REF. PARTNER |
| Sports Tomorrow | Online, 8-20 November 2020 (next on November 7-11, 2022) | Sports Tomorrow is a new two-week online event, which includes 8 different tracks. For over 10 years FCB has brought leading experts to inspire sports professionals to a two-week event to discover, learn and trigger the next innovation at the sports industry. IoTwins project had its presence at this congress at the Sports Technology and Sports Business tracks, that put together more than 1,000 attendees and captured the spotlight of the global sports industry for 2 weeks. | https://sportst omorrow.fcbar celona.com/ | BSC, FCB |
| CAE | Online, 30 | This annual conference focuses on the | http://www.ca | CINECA |
| conference (digital twins) | November - 4 December 2020 | business and technology issues in the Simulation-based Engineering Sciences (SBES) arena and draws delegates from worldwide industry sectors, ranging from aerospace and oil and gas to civil engineering, manufacturing, and automotive. An innovation this year was the launch of an independent exhibition associated to the conference and focusing on all the technologies, service providers and applications that are interconnected with the digital transformation of businesses as they move towards Industry 4.0. | econference.co m | CINECA |
| ICT 2020 (canceled) | Cologne, 1-3 December 2020 | The event, co-organized by the European Commission and the German Presidency of the Council of the European Union, will have the following elements: a high-level conference on digital policies, an exhibition of EU-funded research and innovation projects in the field of ICT; a series of networking activities and many more. | | ART-ER |
| HEPiX - High energy physics community conferences | Online, 15- 19 March 2021 (next on April 25-29, 2022) | The HEPiX forum brings together worldwide Information Technology staff, including system administrators, system engineers, and managers from the High Energy Physics and Nuclear Physics laboratories and institutes, to foster a learning and sharing experience between sites facing scientific computing and data challenges. Participating sites include BNL, CERN, DESY, FNAL, IHEP, IN2P3, INFN, JLAB, Nikhef, RAL, SLAC, TRIUMF and many others. The HEPiX organization was formed in 1991, and its semi-annual meetings are an excellent source of information and sharing for IT experts in scientific computing. | https://www.h epix.org/# | |



| CONFERENCE | PLACE AND | DESCRIPTION | WEBSITE | REF. |
|--|--|--|---|----------------|
| CONFERENCE | DATE | DESCRIPTION | WEDSHIE | PARTNER |
| Hannover Messe, Home of Industrial Pioneers | Online, 12- 16 April 2021 (next on May 30- June 2, 2022) | HANNOVER MESSE is the most important international platform and hot spot for industrial transformation - with excellent innovations or unusual products. | http://www.ha nnovermesse.d e | |
| North American Manufacturin g Research Conference (NAMRC) 49 | Cincinnati, June 21-25, 2021 | SME's North American Manufacturing Research Conference (NAMRC) is recognized as North America's preeminent and longest- running international forum for applied research and industrial applications in manufacturing and design with its presentations and publication of original, basic and applied research in advanced manufacturing. An annual event since 1973, NAMRC advances the scientific foundation of discrete-parts manufacturing leading to next-generation applications of emerging and innovative technology in material removal, forming and additive manufacturing processes and machines, and cyber-physical systems. The conference attracts global academicians, government and industry researchers, engineers, students and leaders in manufacturing to interact with each other and advance the field. NAMRC features peer- reviewed papers, keynotes, special opportunities for networking and collaboration, and recognition of research implementation, service and achievements. | http://www.sm e.org/namrc/ | ETXE |
| R2B - Research to Business | Bologna, 8-9 June 2022 | 17th edition of the annual International Exhibition on Industrial Research and Skills for Innovation, organized by Emilia-Romagna Region in collaboration with ART-ER. | https://www.rd ueb.it/ | ART-ER |
| Isc High Performance 2021 Digital | Online, 24 June – 2 July 2021 (next on May 22- June 2, 2022) | The ISC Exhibition, consisting of over 160 exhibitors, caters to the hardware and software demands of global research centers and businesses in the fields of HPC, artificial intelligence, machine learning and data analytics. | https://www.is c-hpc.com | BSC, CINECA |
| Mobile world yearly congress | Barcelona, 28 February – 03 March 2022 | The GSMA MWC series (formally known as Mobile World Congress) is the world's largest exhibition for the mobile industry, and incorporates a thought-leadership conference featuring prominent executives representing global mobile operators, device manufacturers, technology providers, vendors, and content owners. | https://www.m obileworldcong ress.com | BSC |



| | | | • | |
|--|--|---|--|-----------------|
| CONFERENCE | PLACE AND DATE | DESCRIPTION | WEBSITE | REF. PARTNER |
| IMTS, International Manufacturin g Technology Show | September 12 - 17, 2022 | IMTS 2022 will be the 35th edition of the Premier Manufacturing Technology show in North America. Industry professionals from all over the world visit IMTS to see and experience more than 15,000 new machine tools, controls, computers, software, components, systems and processes that will solve their manufacturing challenges and improve their efficiency. | https://www.i mts.com/ | ETXE |
| IoT Week | Dublin, June 20-23, 2022 | loTWeek is a one of a kind day conference where leaders from the worlds of business, tech and science shed light on the future of technology and its impact on business and life. | https://iotweek .org/ | |
| MLDT-CSE | San Diego, 26-29 September 2021 | 1ST IACM CONFERENCE ON MECHANISTIC MACHINE LEARNING AND DIGITAL TWINS FOR COMPUTATIONAL SCIENCE, ENGINEERING & TECHNOLOGY | https://mmldt. eng.ucsd.edu/ | ENSAM |
| IoT Solutions World congress | Barcelona, May 10-12, 2022 | Part of the IoT World Series, the event focuses on providing attendees with the knowledge needed to activate the IoT opportunity and execute IoT enabled transformation. Acting as a global meeting point for 2,000+ enterprises and vendors, IoT World Europe is the go-to event for business leaders to discover investment priorities and implementation strategies. | https://www.io tsworldcongres s.com/ | BSC |
| NWC 2021 | 2529. October 2021, Salzburg | NAFEMS World Congress, a world of engineering simulation | https://www.n afems.org/cong ress/ | FILL |



| | | | 11. | | | |
|--|-------------------|--|------------------------------|-----------------|--|--|
| CONFERENCE | PLACE AND DATE | DESCRIPTION | WEBSITE | REF. PARTNER | | |
| EOSC -hub - Services for the European Open Science Cloud | | EOSC-hub brings together multiple service providers to create the Hub: a single contact point for European researchers and innovators to discover, access, use and reuse a broad spectrum of resources for advanced datadriven research. For researchers, this will mean a broader access to services supporting their scientific discovery and collaboration across disciplinary and geographical boundaries. The project mobilises providers from the EGI Federation, EUDAT CDI, INDIGO-DataCloud and other major European research infrastructures to deliver a common catalogue of research data, services and software for research. EOSC-hub collaborates closely with eInfraCentral, EOSCpilot, GÉANT 4.2, OpenAIRE-Advance and the RDA Europe 4.0 projects to deliver a consistent service offer for research communities across Europe. EOSC-hub is funded by the European Union's Horizon 2020 research and innovation programme under grant agreement 777536. The generous EU funding received by the project is complemented with a contribution from the EGI Foundation and its participants, and in-kind contributions made available by | https://www.e osc-hub.eu/ | CINECA | | |



| CONFERENCE | PLACE AND DATE | DESCRIPTION | WEBSITE | REF. PARTNER | | |
|--------------------------------------|-------------------|--|----------------------------------|-----------------|--|--|
| Complex systems society events | | The purpose of the Society is to promote the development of all aspects of complex systems science in the countries of Europe, as well as the whole international scientific community. See CSS Statutes and CSS By-Laws. The Society aims to promote complex systems research pure and applied (What are Complex Systems?), assist and advise on problems of complex systems education, concern itself with the broader relations of complex systems to society, foster the interaction between complex systems scientists of different countries, establish a sense of identity amongst complexity scientists, and represent the complexity community at all international levels. It is regulated by a CSS Council and by a CSS Executive Committee. The Society was first launched at a European level on 7th Dec 2004 during The European Conference on Complex Systems at Foundation ISI in Torino, Italy. It became an international society in 2006 during the ECCS06 Conference in Oxford. Since 2004, the Conference on Complex Systems organized by the CSS, is the most important annual meeting for the complex systems research community. | https://cssociet y.org/events | BSC | | |

5.8.4 Trade Fairs and other Exhibitions

Project achievements, included final results, will be showcased during a selected International Exhibitions at the end of the project. The focus will be both on the **IoTwins platform and the 12 testbeds**.

Potentially addressed exhibitions are:

| FAIR | PLACE AND DATE | DESCRIPTION | WEBSITE |
|-------------------|-------------------------------------|---|---------------------------------|
| Hannover Messe | Hannover, May 30-June 2, 2022 | The GSMA MWC series (formally known as Mobile World Congress) is the world's largest exhibition for the mobile industry, and incorporates a thought-leadership conference featuring prominent executives representing global mobile operators, device manufacturers, technology providers, vendors, and content owners. | http://www.hannovermess e.de |
| BIMU | Milan, Oct 2022 | Metal cutting, metal forming and additive machines, robots, digital manufacturing and automation, enabling technologies, subcontracting | http://www.bimu.it |



| FAIR | PLACE AND DATE | DESCRIPTION | WEBSITE |
|-------------------------------|-----------------------|--|--------------------------------|
| MECSPE | Parma, June 2022 | MECSPE is the greatest event focused on innovations for the manufacturing industry | https://www.mecspe.com/ it/ |
| R2B Research to Business | Bologna, June 2022 | 17th edition of the annual International Exhibition on Industrial Research and Skills for Innovation, organized by Emilia-Romagna Region in collaboration with ART-ER. | www.rdueb.it |

Actual addressed exhibitions will be selected also taking into account the timing of project activities. Participation to these events will be also **promoted via social media and the website**.

Also, participation to these kinds of events can include hiring a booth (also virtual) or not, as an example project partners can be hosted within other organizations' or projects' booths, or even hiring a booth as organization and take that as an opportunity to disseminate project's results. Let's see how many situations can occur.

PROJECT BOOTH

Having a project booth implies:

- Having a proper graphical layout of the stand with:
 - o project logo clearly visible
 - IoTwins PROJECT as front head
- Including a brief project description in the official event catalogue together with project logo and EU funds contribution acknowledgement
- Distribute project leaflet and any other relevant informative materials
- Project rollup has to be exposed
- If a screen is available, show the project video

In case a virtual booth is bought, given the diversity of online platforms currently available, it could be necessary to get ready with a kit of embeddable materials such as:

- A short presentation
- A video
- A branded background image
- A full package with a brief project description, project logo end EU flag with EU funds acknowledgement

Also, someone representing the project could be asked to attend the online event to answer to possible questions via the platform chatbox.

OTHER ORGANIZATIONS' OR INITIATIVES' SPACES INSIDE EXHIBITIONS OR TRADE FAIR

In such situations, partners should take care of exposing the project rollup or poster, that depends on what is allowed. Project leaflet should also be available, as well as a project description on the initiative catalogue. A short standard presentation of the project is also something to have.

WORKSHOP OR SPEECH DURING A WORKSHOP INSIDE A TRADE FAIR OR EXHIBITION

Partners can also decide or be invited to organize a workshop during the exhibition, or to give a speech during initiatives organized by third parties. Partners should make sure the right visibility is given to the project, as described in the general rules (see section 5.8 Events).



6 Report on dissemination activities performed in M19-M30

In the following pages a list of activities performed by partners in the period M19-M30 (March 2021 - February 2022) is reported.

Activities are organized in three groups: dissemination activities, scientific publications and official project website and twitter account news and events.



6.1 Dissemination activities performed by partners

| Partner | Title of the activity performed | Type of audience | Date | Description of the activity | Link | Type of activity | Place of the activity | Countries addressed | Audience reached through the activity |
|-------------------------------|---|---|---|---|---|----------------------------------|-----------------------------|------------------------|---|
| ART-ER | Social Media Campaign | Industry Civil society Policy makers Media General public | March 2021- February 2022 | Share on ART-ER's twitter profile IoTwins posts on twitter | https://twitter.co m/Arter_ER | Social Media | Online | Italy | N/A |
| ART-ER | YouTube channel | Industry Civil society Policy makers Media General public | March 2021 - February 2022 | Creation of an IoTwins playlist under the ART-ER YouTube channel, to show case all the IoTwins videos | https://www.yout ube.com/watch?v =tWL7FMSfC2I&lis t=PLhEHq_mDApP tINVFoPX5LPg6Xnj bSoZVe | Social Media | Online | International | N/A |
| ART-ER | Sustainable Places Conference 2021 | Scientific Community Industry | September 29, 2021 | Presentation of the project at the Sustainable Places Conference | https://www.sust ainableplaces.eu/ | Participation to a conference | Online | International | N/A |
| BRI, UNIBO, GCL, FCB | BDVA Forum (EBDVF 2021) | Industry Civil society Policy makers Media General public | November 29, 2021 – December 3, 2021 | Presentation of the project in the session "INDUSTRIAL AND TRUSTWORTHY AI" | https://european- big-data-value- forum.b2match.io /agenda | Participation to a conference | Online | International | N/A |



| Partner | Title of the activity performed | Type of audience | Date | Description of the activity | Link | Type of activity | Place of the activity | Countries addressed | Audience reached through the activity |
|-----------------|---|---|---|---|---|----------------------------------|-----------------------------|------------------------|---|
| ART-ER | BDVA Forum (EBDVF 2021) | Industry Civil society Policy makers Media General public | November 29, 2021 – December 3, 2021 | Presentation of the IoTwins testbed in the BDVA marketplace | https://european- big-data-value- forum.b2match.io /participations/94 296/opportunities | Participation to a conference | Online | International | N/A |
| ART-ER, BEWG | BDVA Forum (EBDVF 2021) | Industry Civil society Policy makers Media General public | November 29, 2021 – December 3, 2021 | Management of the IoTwins Virtual Booth during the EBDVF event | https://european- big-data-value- forum.b2match.io /participations/94 296/opportunities | Participation to a conference | Online | International | N/A |
| UNIBO | Digital twins per la manutenzio ne prescrittiva sfruttando tecniche e modelli di Intelligenza Artificiale | Scientific Community, Industry | 14 December 2021 | Participation to an Industry 4.0 focus, with presentation of IoTwins project and the developed solution | https://eventi.cine ca.it/en/hpc/digita l-twin- lindustria/bologna -20211214 | Participation to a workshop | Bologna | Italy | 30 |



| Partner | Title of the activity performed | Type of audience | Date | Description of the activity | Link | Type of activity | Place of the activity | Countries addressed | Audience reached through the activity |
|---------|--|--------------------------------------|------------------------|--|--|-------------------------|-----------------------------|------------------------|---|
| BEWG | Social media | General public | 15 November 2021 | Post on LinkedIn (Warrant Hub European Funding Development) - Sharing of a LinkedIn post published by IoTwins LinkedIn profile | https://www.linke din.com/posts/eur opean-funding- development talki ngaboutiotwins- artificial- intelligence- based-activity- 686598408485058 9696-7AOR/ | Social Media | LinkedIn | Europe | 91 views |
| BEWG | Social media | General public | 03 November 2021 | Post on LinkedIn (Warrant Hub European Funding Development) - Sharing of a LinkedIn post published by IoTwins LinkedIn profile | https://www.linke din.com/feed/upd ate/urn:li:activity: 686159935732667 5968/ | Social Media | LinkedIn | Europe | 67 views |
| BEWG | Social media | General public | 24 January 2022 | Post on LinkedIn (Warrant Hub European Funding Development) - Sharing of a LinkedIn post published by IoTwins LinkedIn profile | https://www.linke din.com/feed/upd ate/urn:li:activity: 689140864713874 2272/ | Social Media | LinkedIn | Europe | |
| THALES | Presentatio n of IoTwins project to AI4EU TGB | Scientific community, Industry | 16 April 2021 | General presentation of IoTwins to European project AI4EU | | Project presentation | Remote | Europe | Unknown |



| Partner | Title of the activity performed | Type of audience | Date | Description of the activity | Link | Type of activity | Place of the activity | Countries addressed | Audience reached through the activity |
|---------|---|--|-------------------|--|--|---|-----------------------------|------------------------|---|
| THALES | A Protocol for Secure Verification of Watermark s Embedded into Machine Learning Models | Scientific community | June 2021 | Presentation of a new secure protocol for watermarking ML model verification | https://dl.acm.org /doi/10.1145/343 7880.3460409 | Organization of a conference | remote | European | Unknown |
| THALES | Counterfact ual example dedicated to local machine learning explanation | Scientific community | September 2021 | Presentation of xai dash component. Internal presentation at THALES | - | Participation to an event other than a conference or workshop | remote | International | Unknown |
| MARP | Promotion during the EMO fair, which is the world's premier metalworking trade fair. | Industry, General public, Customers | October 2021 | Promotion during the fair with roll up, flyer and dedicated people able to exhibit the project to visitors | - | Exhibition | Milan | | |



| Partner | Title of the activity performed | Type of audience | Date | Description of the activity | Link | Type of activity | Place of the activity | Countries addressed | Audience reached through the activity |
|---------|--|---|----------------------|--|--|------------------|-----------------------------|------------------------|---|
| MARP | Promotion during the MECSPE fair, which is a reference fair for the manufactur ing industry. | Industry, General public, Customers | November 2021 | Promotion during the fair with roll up, flyer and dedicated people able to exhibit the project to visitors | - | Exhibition | Bologna | | |
| MARP | Repost of the IoTwins posts on LinkedIn and retweet on Twitter | Industry, General public, Customers | All the 2021 year | Repost and retweet of the IoTwins social media posts on our social media pages | - | Social Media | | | |
| BSC | News about IoTwins on BSC website | Scientific Community, media, investors, customers | 06 May 2021 | News of IoTwins paper on BSC website | https://www.bsc.e s/news/bsc- news/bsc- captures-the- local-patterns- human-mobility- barcelona-the- collaboration-the- barcelona-city | Website | Online | Spain | 119 |



| Partner | Title of the activity performed | Type of audience | Date | Description of the activity | Link | Type of activity | Place of the activity | Countries addressed | Audience reached through the activity |
|---------|---------------------------------|--|----------------|---|--|------------------|-----------------------------|------------------------|---|
| BSC | Social Media post | Scientific Community, industry, general public | 06 May 2021 | Tweet about IoTwins paper on BSC Twitter | https://twitter.co m/BSC_CNS/statu s/1390230587907 137538 | Social Media | Online | Spain | 2.735 |
| BSC | Social Media post | Scientific Community, industry, general public | 06 May 2021 | Facebook post about IoTwins paper on BSC Facebook | https://www.face book.com/BSCCNS /posts/385022687 8387815 | Social Media | Online | Spain | 258 |
| BSC | Social Media post | Scientific Community, industry, general public | 06 May 2021 | LinkedIn post about IoTwins paper on BSC LinkedIn | https://www.linke din.com/posts/bar celona- supercomputing- center el-bsc- traza-los- patrones-de- movilidad- humana-activity- 679599803623032 0128-nB8S | Social Media | Online | Spain | 9.608 |
| BSC | Social Media post | Scientific Community, industry, general public | 06 May 2021 | Instagram post about IoTwins paper on BSC Instagram | https://www.insta gram.com/p/COhr ThYjhtz/ | Social Media | Online | Spain | 521 |



| Partner | Title of the activity performed | Type of audience | Date | Description of the activity | Link | Type of activity | Place of the activity | Countries addressed | Audience reached through the activity |
|---------|--|---|-------------------------|---|---|---|-----------------------------|------------------------|---|
| BSC | loTwins on BSC's Summary 2020 | Scientific Community, industry, policy makers, media | 21 May 2021 | Mention about Io Twins in the Summary 2020 of BSC | https://www.bsc.e s/sites/default/file s/public/annualRe ports/BSC- Summary- 2020.pdf | Non-scientific and non-peer reviewed publications (popularised publications) | Online | Spain | 631 |
| BSC | News about IoTwins on BSC website | Scientific Community, media, investors, customers | 24 September 2021 | News about the work process in Camp Nou in the framework of loTwins | https://barcainno vationhub.com/es /comienzan-en-el- camp-nou-los- trabajos-sobre-el- terreno-para-el- piloto-del- proyecto-iotwins/ | Website | Online | Spain | |
| BSC | Social Media post | Scientific Community, industry, general public | 29 November 2021 | Twitter post about Fernando Cucchietti participation at the European Big Data Value Forum 2021 | https://twitter.co m/BSC_CNS/statu s/1465278273676 525571 | Social Media | Online | Spain | 853 |
| BSC | Social Media post | Scientific Community, industry, general public | 29 November 2021 | Facebook post about Fernando Cucchietti participation at the European Big Data Value Forum 2021 | https://www.face book.com/BSCCNS /posts/446995907 6414589 | Social Media | Online | Spain | 225 |
| BSC | Social Media post | Scientific Community, industry, general public | 29 November 2021 | LinkedIn post about Fernando Cucchietti participation at the European Big Data Value Forum 2021 | https://www.linke din.com/feed/upd ate/urn:li:activity: 687104471861301 2481/ | Social Media | Online | Spain | 1.670 |



| Partner | Title of the activity performed | Type of audience | Date | Description of the activity | Link | Type of activity | Place of the activity | Countries addressed | Audience reached through the activity |
|---------|---------------------------------|-------------------|-------------------------|-----------------------------|---|------------------|-----------------------------|------------------------|---|
| FCB | Post on Twitter | General Public | 15 April 2021 | Twitter post | https://twitter.co m/BarcalnnoHub/ status/138261975 0220566532 | Social Media | Twitter | Worldwide | 7324 |
| FCB | Post on Twitter | General Public | 15 April 2021 | Twitter post | https://twitter.co m/BarcaInnoHub/ status/138263794 0220776453 | Social Media | Twitter | Worldwide | 3591 |
| FCB | Post on Twitter | General Public | 24 April 2021 | Twitter post | https://twitter.co m/BarcaInnoHub/ status/138586616 9563893763 | Social Media | Twitter | Worldwide | 5117 |
| FCB | Post on Twitter | General Public | 16 June 2021 | Twitter post | https://twitter.co m/BarcaInnoHub/ status/140518755 9584677889 | Social Media | Twitter | Worldwide | 4997 |
| FCB | Post on Twitter | General Public | 16 June 2021 | Twitter post | https://twitter.co m/BarcaInnoHub/ status/140518792 3994087425 | Social Media | Twitter | Worldwide | 2808 |
| FCB | Post on Twitter | General Public | 20 September 2021 | Twitter post | https://twitter.co m/BarcalnnoHub/ status/144002810 7289686021 | Social Media | Twitter | Worldwide | 2751 |
| FCB | Post on Twitter | General Public | 27 September 2021 | Twitter post | https://twitter.co m/BarcaInnoHub/ status/144241443 6648587268 | Social Media | Twitter | Worldwide | 2486 |



| Partner | Title of the activity performed | Type of audience | Date | Description of the activity | Link | Type of activity | Place of the activity | Countries addressed | Audience reached through the activity |
|---------|---|---------------------|-------------------------|---------------------------------|--|------------------|---------------------------------|------------------------|---|
| FCB | Post on Twitter | General Public | 29 September 2021 | Twitter post | https://twitter.co m/BarcaInnoHub/ status/146536047 7865885700 | Social Media | Twitter | Worldwide | 2140 |
| FCB | Post on Twitter | General Public | 20 September 2021 | Facebook post | https://www.face book.com/168225 157393165/photo s/a.171680683714 279/84681715953 3958?type=3 | Social Media | Facebook | Worldwide | 354 |
| FCB | Post on Twitter | General Public | 15 April 2021 | Facebook post | https://www.face book.com/168225 157393165/photo s/a.171680683714 279/75190697235 8311 | Social Media | Facebook | Worldwide | 256 |
| FCB | Article: Artificial intelligence to improve stadium security. | General Public | 12 April 2021 | Publication on BIHUB website | https://barcainno vationhub.com/ar tificial- intelligence-to- improve-stadium- security/ | Website | Barça Innovation Hub Blog | Worldwide | TBD |



| Partner | Title of the activity performed | Type of audience | Date | Description of the activity | Link | Type of activity | Place of the activity | Countries addressed | Audience reached through the activity |
|---------|---|-------------------|-------------------------|---------------------------------|---|------------------|---------------------------------|------------------------|---|
| FCB | Article: Fieldwork has started at Camp Nou for the loTwins pilot project. | General Public | 24 September 2021 | Publication on BIHUB website | https://barcainno vationhub.com/co nstruction-works- to-be-performed- at-camp-nou-as- part-of-the- iotwins-pilot- project/ | Website | Barça Innovation Hub Blog | Worldwide | TBD |
| FCB | Post on Instagram | General Public | 15 April 2021 | Instagram post | https://www.insta gram.com/p/CNrn 0_9J88j/ | Social Media | Instagram | Worldwide | 2338 |
| FCB | Post on Instagram | General Public | 20 September 2021 | Instagram post | https://www.insta gram.com/p/CUD e1lyMoIZ/ | Social Media | Instagram | Worldwide | 1628 |

Table 3 – Partners' dissemination activities



6.2 Scientific dissemination

6.2.1 Accepted Papers

| WP | Date of Publication | Partners Involved | Scientific | Title of the Scientific Publication | DOI | ISSN or eSSN | Authors | Title of the journal or equivalent | | Publisher | | Is available under open access? | |
|-----|------------------------|----------------------|--|---|-----|--------------------|--------------|-------------------------------------|-----|-------------------------------------|-----|---------------------------------|-----|
| WP4 | 25 October 2021 | FILL | Extended paper for peer reviewed publication | Analyzing the impact of different drive concepts on machine tool dynamics using mechatronic system simulation | N/A | N/A | Roman Binder | NAFEMS World Congress 2021 | N/A | NAFEMS World Congress 2021 | N/A | N/A | N/A |



| WP | Date of Publication | Partners Involved | Type of Scientific Publication | Title of the Scientific Publication | DOI | ISSN or eSSN | Authors | Title of the journal or equivalent | Num Publisher ber | Relevant Pages in the Issue | under open | Link |
|-----|------------------------|--|--------------------------------------|--|---------------|--------------------|---|---|----------------------|-----------------------------------|------------|--|
| WP2 | 10-13 May 2021 | UNIBO, SAGOE, INFN, FOKUS, ESI | Conference (Workshop) | | 021.000 75 | 1- 7281- | Andrea Borghesi, Giuseppe Di Modica, Paolo Bellavista, Varun Gowtham, Alexander Willner, Florian Kintzler, Stephan Cejka, Simone Rossi Tisbeni, Alessandro Constantini, Matteo Galletti, Marica Antonacci, Jean Christian Ahouangonou | 2021 IEEE/ACM 21st Internation al Symposium on Cluster, Cloud and Internet Computing (CCGrid) | 2101 IEEE 3912 | N/A | N/A | https://ieeexplo re.ieee.org/doc ument/9499575 |
| WP3 | 20-23 June 2021 | SAGOE | Conference | Re-enacting rare multi- modal real- world grid events to generate ML training data sets | | 1- 7281- | Daniel Hauer, Matthias Bittner, Stephan Cejka a , Ralf Mosshammer, Florian Kintzler, Thomas Leopold, Stefan Wilker | al Symposium on Industrial | N/A IEEE | N/A | N/A | https://ieeexplo re.ieee.org/doc ument/9576350 |



| WP | Date of Publication | Partners Involved | Type of Scientific Publication | Title of the Scientific Publication | DOI | ISSN or eSSN | Authors | Title of the journal or equivalent | | Publisher | Relevant Pages in the Issue | Is available under open access? | |
|-----|------------------------|----------------------|--------------------------------------|---|---------------------------|--------------------|---|--|---------------|-----------|-----------------------------------|--|--|
| WP3 | 20-23 June 2021 | SAGOE | Conference | Aware | | 1- 7281- | Daniel Hauer, Maximilian Götzinger, Axel Jantsch, Florian Kintzler | 2021 IEEE 30th Internation al Symposium on Industrial Electronics (ISIE) | N/A | IEEE | N/A | N/A | https://ieeexplo re.ieee.org/doc ument/9576488 |
| WP2 | 19 March 2021 | UNIBO | Journal | • • | /TII.202 1.30674 47 | | Paolo Bellavista, Carlo Giannelli, Marco Mamei, Matteo Mendula, Marco Picone | | 17, Issue: | IEEE | 7791 - 7801 | Under IEEE publishing guidelines | https://ieeexplo re.ieee.org/doc ument/9382113 |



| WP | Date of Publication | Partners Involved | Type of Scientific Publication | Title of the Scientific Publication | DOI | ISSN or eSSN | Authors | Title of the journal or equivalent | | Publisher | Pages in | Is available under open access? | Link |
|-----------------|------------------------|----------------------|--------------------------------------|---|--|--------------------|--|--|----------------------|-----------|----------------|---|--|
| WP5 | 14 March 2021 | UNIBO, CINECA | Conference (Workshop) | • | 10.1007 /978-3- 030- 71593- 9 22 | | Alessio Burrello, Daniele Jahier Pagliari, Andrea Bartolini, Luca Benini, Enrico Macii, and Massimo Poncino | Notes in | volu me 1248 | Springer | pp 277- 289 | Under Springer publishing guidelines | https://link.spri nger.com/chapt er/10.1007/978 -3-030-71593- 9 22 |
| WP3 / WP5 | 21 May 2021 | UNIBO, CINECA | Journal | | 10.1109 /TPDS.2 | | A Borghesi, M Molan, M Milano, A Bartolini | IEEE Transaction s on Parallel and Distributed Systems | me: 33, Issue: | IEEE | | publishing | https://ieeexplo re.ieee.org/doc ument/9439169 |
| WP3 / WP5 | 13 November 2021 | UNIBO, CINECA | Journal | Predictive Maintenance | /JIOT.20 21.3125 885 | | A Borghesi, A Burrello, A Bartolini | IEEE Internet of Things Journal | | IEEE | | | https://ieeexplo re.ieee.org/doc ument/9606215 |



| WP | Date of Publication | Partners Involved | Type of Scientific Publication | Title of the Scientific Publication | DOI | ISSN or eSSN | Authors | Title of the journal or equivalent | Publisher | Pages in | Is available under open access? | |
|-----|------------------------|----------------------|--------------------------------------|---|--|--------------------|--|---|-----------|----------|---------------------------------|--|
| WP5 | 13 November 2021 | UNIBO, CINECA | Conference | An Explainable Model for Fault Detection in HPC Systems | https:// doi.org/ 10.1007 /978-3- 030- 90539- 2_25 | | Marrin Molan, Andrea Borghesi, Francesco Beneventi, Massimiliano Guarrasi, Andrea Bartolini | Lecture Notes in Computer Science book series (LNCS, volume 12761) - ISC High Performanc e 2021 | Springer | 378-391 | No | https://link.spri nger.com/chapt er/10.1007/978 -3-030-90539- 2_25 |
| WP5 | 5 May 2021 | BSC | Journal | A city of cities: Measuring how 15-minutes urban accessibility shapes human mobility in Barcelona | https://doi.org/ 10.1371 /journal. pone.02 50080 | | Eduardo Graells-Garrido, Feliu Serra- Burriel,Francisc o Rowe, Fernando M. Cucchietti, Patricio Reyes | PLoS ONE | PLOS | | Yes | https://journals .plos.org/ploson e/article?id=10. 1371/journal.po ne.0250080#ref erences |



| WP | Date of Publication | Partners Involved | Scientific | Title of the Scientific Publication | DOI | ISSN or eSSN | | Title of the journal or equivalent | Publisher | Relevant Pages in the Issue | Is available under open access? | |
|-----|------------------------|----------------------|------------|--|--------------------|--------------------|---|--|-----------|-----------------------------------|---------------------------------------|---|
| WP5 | 12 October 2021 | BSC &FCB | Journal | The Camp Nou Stadium as a Testbed for City Physiology: A Modular Framework for Urban Digital Twins | 10.1155 /2021/9 | | Feliu Serra- Burriel, José C. Carrasco- Jiménez, Fernando M. Cucchietti, Carla Diví-Cuesta, Carlos García Calatrava, David García, Eduardo Graells-Garrido, | Advanced Computer Simulation Technology in Smart Cities | Hindawi | | Yes | https://www.hi ndawi.com/jour nals/complexity /2021/9731180 / |



6.3 News and events on IoTwins Website and Twitter

At the very beginning of the project, an online form aimed at collecting news and events to be promoted was prepared. Whenever a partner fills in the form, ART-ER check it and then publish the content on the website.

In order to assure a constant flow of fresh contents on the website, an editorial calendar was prepared, where news sent by partners were integrated with a series of news related to the project's topics that were found and selected from the web. The selection was made taking into account official and reliable sources. The most important ones were also posted via Twitter.

So far, 63 news and events items were published on the website.



