

Grant Agreement No.: 760941

Project acronym: RESISTANT

Project title: Large riblet surface with super hardness, mechanical and temperature resistance by nano functionalization

Call (part) identifier: H2020-NMBP-PILOTS-2017

Topic: PILOTS-03-2017 Pilot lines for manufacturing of nanotextured surfaces with mechanically enhanced properties

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WP 10 – Dissemination

Deliverable D10.5 – Report on Dissemination and Communication activities II

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Dissemination Level		
CO	Confidential, only for members of the consortium (including the Commission Services)	
PU	Public	X

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List of abbreviations / Nomenclature

Abbreviation	Definition
WP	Work package
GA	General Assembly

1 Introduction

The present document constitutes Deliverable D10.5 in the framework of the project “Large Riblet Surface with Super Hardness, Mechanical and Temperature Resistance by Nano Functionalization” (Project Acronym: ReSiSTant; Contract No.: 760941). This document is the result of the activities performed within the framework of work package 10 (WP10): “Dissemination”, and more specifically of Task 10.1 “Dissemination strategy and implementation” and Task 10.2 “Release and maintenance of a public website” led by IDONIAL (aka PRODINTEC) and in collaboration with the rest of the consortium partners.

ReSiSTant intends to develop, upscale and industrially demonstrate up to TRL7 reliable manufacturing processes to obtain nanostructured riblet surfaces to be applied in Aircraft Turbofan Engines and Industrial Compressors (two demonstrators) to reduce drag and the related fuel consumption and emissions. In this sense, the main aim of the dissemination activities – reported in the present document - is to create a suitable framework for awareness following a coherent strategy, including:

- ▶ To spread ReSiSTant project results and its deliverables beyond the consortium among relevant stakeholders, scientific and industrial community.
- ▶ To perform networking actions that foster dialogue inside and outside RDI and industrial communities to facilitate cooperation among other NMBP Pilot topic projects.
- ▶ To improve awareness of the potential and environmental benefits when nanocoatings/materials are used in turbomachinery manufacturing, as well as the existing European knowledge, capabilities and developments among stakeholders

The website will be updated during the project and will be active for at least a year after the project. All partners from the consortium will provide content to update the website. A methodology for a regular collection of content will be provided.

This document describes in detail the set of Dissemination and Communication activities during the second year of the project (Month 13 (January 2019) to Month 24 (December 2019)).

2 Online activities

This section includes all the online activities carried out by ReSiSTant consortium for project dissemination.

2.1 Updates of the website, project identity and public image

As detailed on Deliverable D10.2. *Public Website online*, the WP10 Leader (IDONIAL, aka PRODINTEC) was responsible of project identity and public identity, as well as, the creation of the website. All partners contributed to create the content (text and images). The project website is accessible through [1] and it is valid for PCs or laptops as well as for mobile devices. Figure 1 shows the web appearance under both types of devices. During this year, the website content was updated.

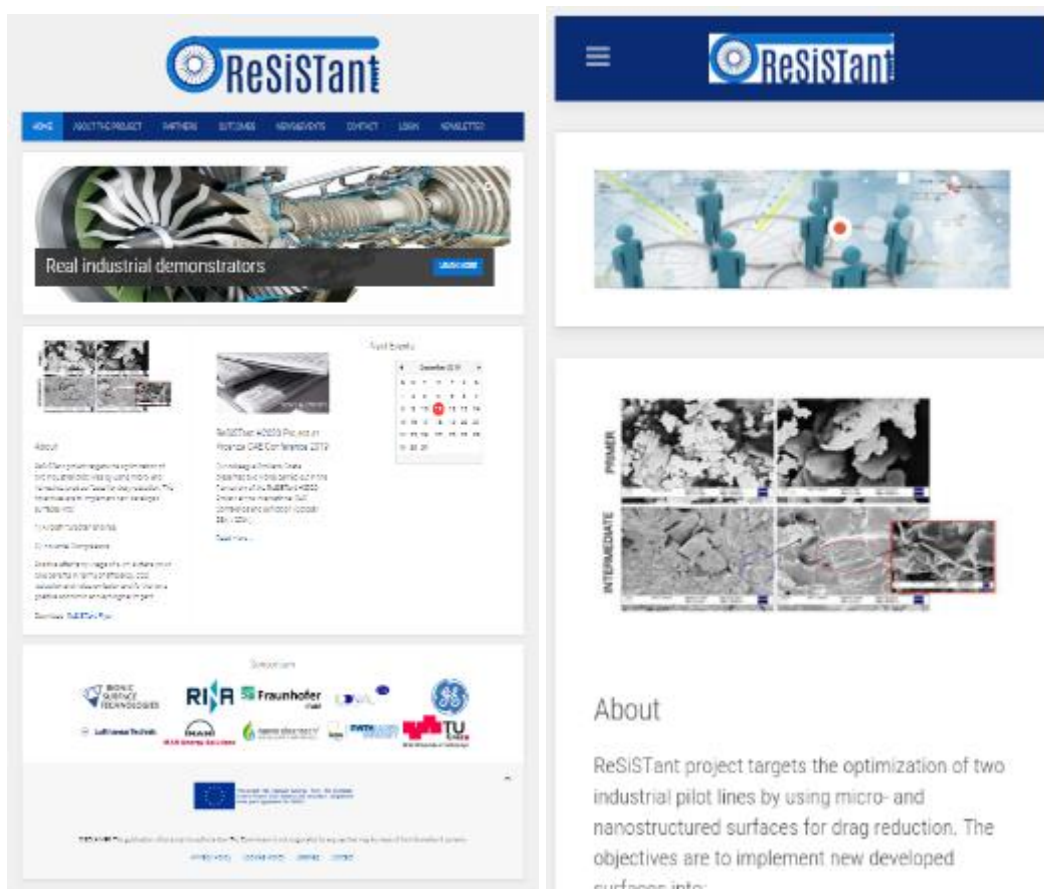


Figure 1. ReSiSTant website: Screenshot from PC/Laptop (left) and from mobile (right)

The website is user friendly and is structured on the following sections: (1) *Home*, (2) *About*, (3) *Partners*, (4) *Outcomes*, (5) *News&Events*, (6) *Contact*, (7) *Login* and (8) *Newsletter*. The website was updated with regular information and several changes were required, such as:

- *Home* section includes updates on the latest news and events (calendar). → updates on consortium logos due to changes on public image of some partners (BIONIC, LUFTHANSA and IDONIAL (aka PRODINTEC)). It also affected other sections such as *About the project* or *Partners*.
- *Outcomes* section includes public project deliverables. → New deliverables were uploaded.
- *News&Events* section details related project news. → Four news from 2019 were created.
- *Next events* includes a calendar where relevant events are updated. → The calendar

included project related events (8) during the year.

- *Newsletter* includes the register to be part of project distribution list. → It was updated regarding legal framework.

There is also a Member area which is private and exclusive for project partners. It is accessible through *Login* section and its content was regularly refreshed.

2.2 Project promotional materials / communication toolkit

Since the project beginning some promotional materials and a communication toolkit have been prepared as presented below:

- **Project promotional material:** at this moment, a poster / flyer (Figure 2) has been created for a general audience. It includes general information of the project such as objectives, roadmap, consortium or website. During the project, new versions will be created according to target audiences. During the period Month 13 to Month 24, this flyer was updated due to changes on partner's logo (BIONIC, LUFTHANSA and IDONIAL (aka PRODINTEC)).



Figure 2. ReSiSTant flyer / poster (most recent version)

This flyer/poster can be found in an electronic manner, through the project website (section Outcomes:[2]).

- **Communication toolkit:** this is an exclusive set of documents for the consortium and it is accessible through the Member area. It includes project logo, presentation template and project flyer/poster. This communication toolkit is updated when new versions of the documents are created. At this moment, four versions of the communication toolkit were created due to changes of partner's logos.
- **Other documents:** related project documents (templates for meeting minutes or project

reports) include the project logo in order to provide a unique project image. A new version was created due to changes of partners' public image.

2.3 Project media presentations and distribution of press release

In September 2018, WP10 Leader (IDONIAL aka PRODINTEC) provided the **first project press release** to ReSiSTant partners (English version), agreed and reviewed by all partners. The translation of press release to official languages of the rest of partners was responsibility of each partner.

During 2019, some partners (e.g. IDONIAL) include this press release on their website in order to maximize project impact. More details on section 2.5.

2.4 Periodic e-newsletter

Periodic e-newsletters have been created during the second year of the project. This year, one e-newsletter was created and distributed:

- 3rd e-newsletter: this was the third newsletter and it was distributed among partners. Based on the impact of the first and second newsletter, several improvements were implemented as detailed below. This newsletter is similar to the second one and it is shown on Figure 3.
 - Project logo: by clicking it, the user is redirected to project website.
 - Title: "eNewsletter – May'19".
 - Latest news: informing about project 3rd project meeting in Tel Aviv and a link to the related entry on the project website. Information about past events where project partners presented the project (BTS in Messe München, IFAM in European Coating Show and NCT in NANO.IL).
 - Recent project outcomes: the deliverables which were published or updated recently, can be found on this section, through a link to the project website where they can be downloaded.
 - Where can you find us?: information about coming events which will be attended by project partners and where ReSiSTant project will be presented somehow. It includes direct links to website calendar where such events are detailed.
 - Do you want to be updated?: instructions about how the interested audience can register themselves within the newsletter distribution list
 - Consortium: logos of the partners, to show an overview of its potential.
 - "Visit us" button: easy and user friendly manner to increase website accesses.
 - EC logo and project information: mandatory information about EC funding and project information according to Grant Agreement.
 - Social Media sharing tools: some direct links to share the newsletter through Twitter or by e-mail were included at the end of the newsletter.



eNewsletter - May 19

Latest news

3rd ReSiSTant Meeting in Tel Aviv!

3rd Progress and General Board Meeting of ReSiSTant project was hosted by our partner Nanto Cleantech in Tel Aviv. [More](#)





ReSiSTant Project presented on expoAIR!

Our colleague Peter Leiti, CTO of Bionic Surface Technologies (BST), held a speech at expoAIR, trade fair for aerospace supply chain industry. During this event in Messe München, he made a presentation of our Project. [More](#)



ReSiSTant Project presented on European Coatings Show 2019

During her speech, our colleague Yvonne Kowalik, from IFAM, presented our Project. Also our partner IFAM had a booth where ReSiSTant flyer was displayed. [More](#)



Our partner Nanto Cleantech on NANO.IL.2018

Roberto Cafagna, CEO of Nanto Cleantech, delivered a presentation about his company and ReSiSTant project on the leading nanotechnology conference in Israel. [More](#)

Recent project outcomes

An updated flyer (D10.3) of the project has been published recently.

[Download it](#)

Where can you find us?



On May 2019, Andreas Flanschger, CEO of Bionic Surface Technologies (BST), will present ReSiSTant Project at INTAIRCOAT.



On June 2019, IDONIAL will present ReSiSTant Project on its stand at ADDIT3D.

Do you want to be updated?



Don't forget to subscribe to our newsletter by adding your e-mail on "Newsletter" tab!

Consortium



[Visit us!](#)

 This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 742094.

 Twitter - ReSiSTant project
  eMail - ReSiSTant project

Figure 3. 3rd ReSiSTant e-newsletter

The newsletter has been shared through social media as detailed on section 2.5. The next newsletter will be prepared during the first months of year 2020 in order to disseminate public deliverables which will be ready at the end of year 2019 (December 2019).

2.5 Social networking tools

All partners have contributed to make the project is present on social media. Next, a review of activities carried out, using social networking tool selected on the project dissemination plan.

Table 1. List of ReSiSTant activities in social networking tools

#	Type	Date	Description	URL
1	RINA LinkedIn	January 2019	Information about ReSiSTant project	[3]
2	RINA Twitter	January 2019	Information about ReSiSTant project	[4]
3	NCT Twitter	February 2019	Information about ReSiSTant meeting in Tel Aviv	[5]
4	NCT Twitter	February 2019	Information about ReSiSTant project and meeting in Tel Aviv	[6]
5	NCT Twitter	February 2019	Information about ReSiSTant meeting in Tel Aviv	[7]
6	NCT Twitter	May 2019	Information about ReSiSTant project	[8]
7	NCT Twitter	July 2019	Information about ReSiSTant meeting in Brussels	[9]
8	NCT Twitter	July 2019	Information about ReSiSTant project	[10]
9	IKDG website	July 2019	Information about ReSiSTant meeting in Brussels	[11]
10	RINA website	October 2019	New related to the presentation of ReSiSTant on CAE Conference 2019	[12]
11	RINA website	October 2019	New related to the presentation of ReSiSTant on the 1 st Conference on Sustainable Mobility	[13]
12	IDONIAL Twitter	November 2019	Twit about ReSiSTant project: RINA presented the use of microstructures to increase turbine performance and CAE Up: digital twins at the service of manufacturing processes at CAE Conference and Exhibition	[14]
13	IDONIAL LinkedIn	November 2019	Publication about ReSiSTant project: RINA presented the use of microstructures to increase turbine performance and CAE Up: digital twins at the service of manufacturing processes at CAE Conference and Exhibition	[15]

Next, an overview of main activities of the project related to social networking tools. Figure 4 shows a sample of ReSiSTant publications done in **LinkedIn**.

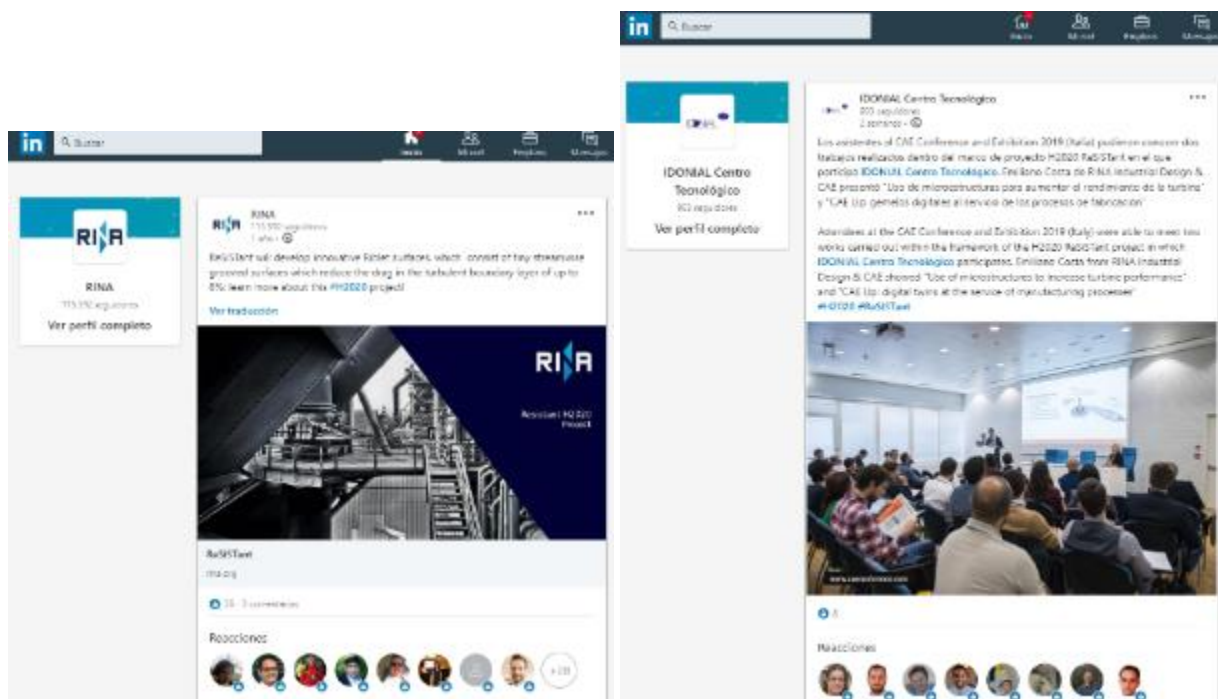


Figure 4. Samples of ReSiSTant publications on LinkedIn

Likewise, ReSiSTant is also present in other social media such as Twitter. Figure 5 shows a sample of project publications carried out on **Twitter**.



Figure 5. Samples of ReSiSTant publications on Twitter

2.6 Project information distribution and related news

The **partners** have already distributed the project **through their own website** during 2018 and this information is still present on their websites. Updated information during 2019 is also considered:

- **BST** has included information about the project on their updated website [21].
- **IFAM** has included information about the project on their own website, on a section related to its R&D projects [19].
- **IDONIAL** on its new website, has published information about the project, where the flyer and the press release can be found [16].
- **NANTO** has published information about this project within the section Horizon 2020 found on its website but also related news [18].
- **RINA** has published information about the Project on their Case Study section within RINA website [20].

Figure 6 shows a selection of main ReSiSTant project publications that can be found on partners' website.

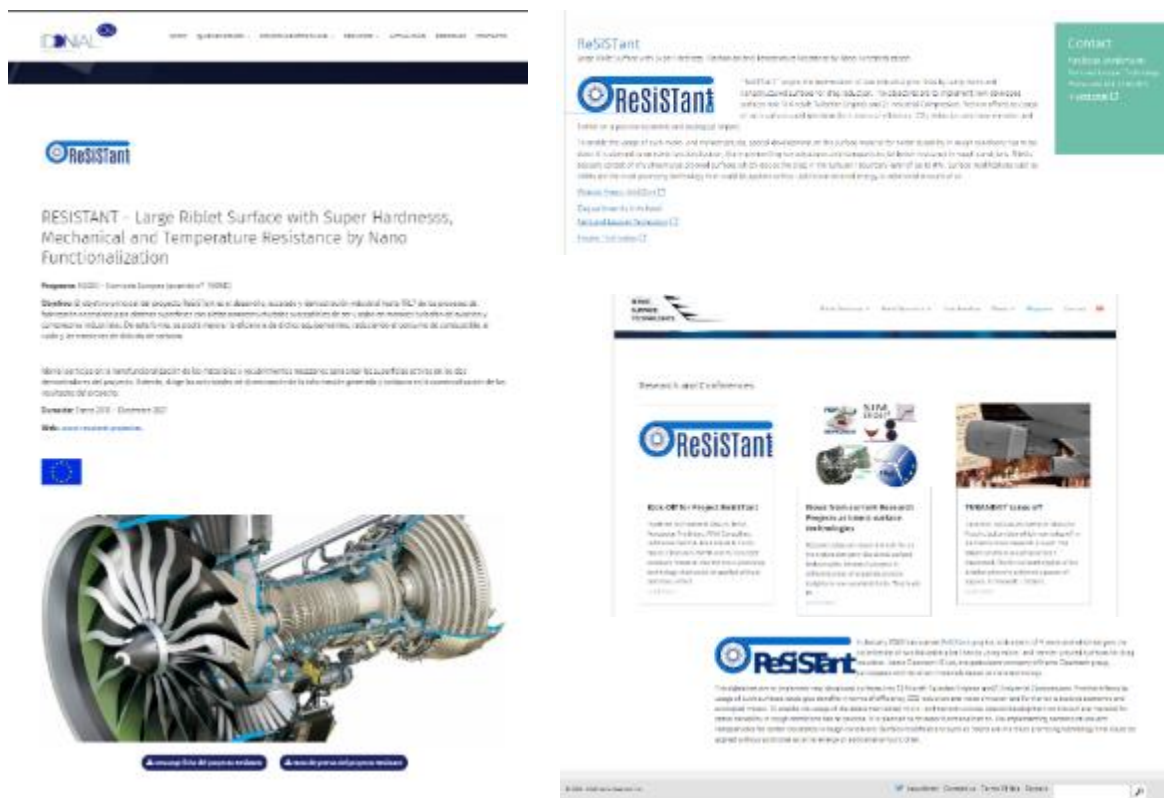


Figure 6. Selection of ReSiSTant publications on partners' websites

The project can be found on **CORDIS** website, provided by European Commission [17], and it was updated with information provided during first reporting period. It is shown on Figure 7.



Figure 7. ReSiSTant information on CORDIS website

The **EPPN project** [22] is oriented to create a European Network for Pilot Production Facilities and Innovation Hubs. This project aims to collect and centralise the information of other pilot lines related projects funded by European Commission. ReSiSTant pilot lines are still registered on such website as well as the project, as shown on Figure 8. The content was not provided by PRODINTEC (IDONIAL).

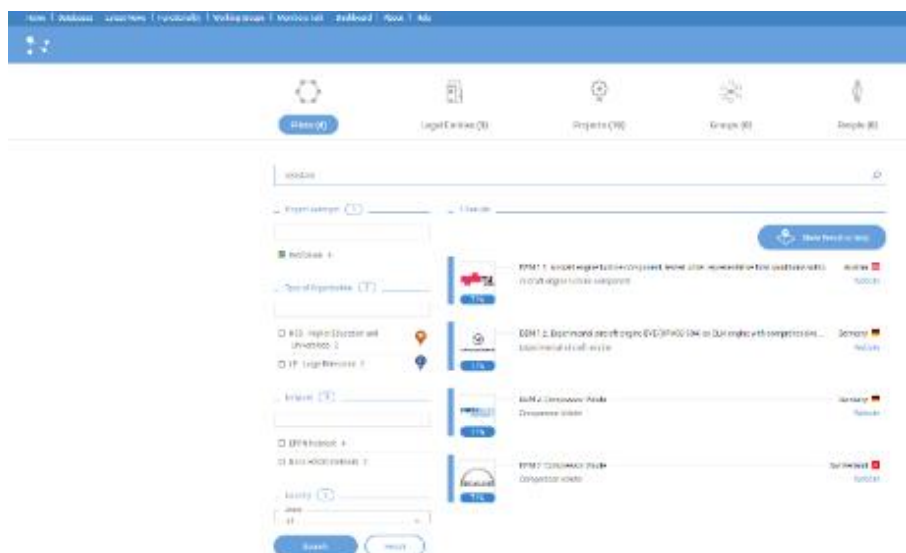


Figure 8. ReSiSTant pilot lines shown on EPPN

Likewise, there is also information about ReSiSTant project as shown on Figure 9.

3 Onsite activities

This section collects all onsite activities carried out within and outside the consortium. Next a summary of each type:

- **Internal meetings:** it refers to meetings between project partners. Table 2 details the complete list of such meetings.

Table 2. ReSiSTant internal meetings

#	Date	Venue	Title of Meeting	Partners
1	10th January 2019	Online	Riblet structures size	IFAM; BST
2	25th January 2019	Online	Riblet coating development Status and Simulation Riblet geometry status	BST IFAM
3	12th February 2019	Tel Aviv (Israel)	3rd Progress and GA Meeting	ALL
4	May 2019	Online	Riblet Coating Status	IFAM; NCT
5	4th July 2019	Online	Status structural mechanics and dynamics assessment	GEDE, TUG
6	10th – 11th July 2019	Brussels (Belgium)	4th Progress and GA Meeting	ALL
7	27th August 2019	Hamburg (Germany)	Technical Meeting LHT Demonstrator	LHT, IFAM
8	4th September 2019	Bremen (Germany)	Application Pre-trails for Demonstrator Aachen	RWTH, IFAM
9	10th – 11th September 2019	Graz (Austria)	Project status	GEDE; TUG
10	26th September 2019	Online	Structural mechanics and dynamics assessment, summary	GEDE; TUG
11	29th October 2019 (ongoing)	Graz (Austria)	Weekly review meetings	TUG
12	August – September 2019	Online	7 x TelCo Meeting: Structural Mechanics Rotor Disk	GEDE; TUG
13	28th November	Graz (Austria)	Status and Instrumentation	GEDE; TUG

- **Other meetings:** it refers to other types of meetings where project partners have presented ReSiSTant project. Table 3 includes the complete list of such meetings from month 13 to month 24.

Table 3. Other ReSiSTant meetings

#	Date	Venue	Title	Organizers	#Attendees	Content
1	1st February 2019	Graz (Austria)	Manufacturing	TUG	N/A	Discussion about the manufacturing of the test rig.
2	20th November 2019	Glinde (Germany)	Supplier selection Riblet Mould	IFAM	IFAM, MLT	Discussion about production and quality control Riblet mould with potential supplier

- **Oral communications (including conferences) and conference or journal papers:** it includes oral communications of ReSiSTant project. The complete list can be found on Table 4.

Table 4. ReSiSTant Oral Communications and conference or journal publications

#	Reference	Author	Status	Url	Description
1	International CAE Conference	Emiliano Costa (RINA)	Done	[23]	Title: "Use of Micro Structures to Increase Turbomachine Performance" Title: "CAE Up: digital twins at the service of manufacturing processes" Date: 28 th – 29 th October 2019.
2	"A&C - Analisi e Calcolo"	E. Ferrante (RINA), G. Piscitelli (RINA), E. Costa (RINA), M.L.G De Albeniz (BST), P. Leiti (BST), A. Flanschger (BST)	Done	[24]	Title: Incremento delle prestazioni di un compressore mediante microstrutture Date: September – October 2019
3	1st Conference on Sustainable Mobility	Emiliano Costa (RINA)	Done	[31]	Title: "Increase of Compressor Performance through the Use of Microstructures" Date: 14 th -15 th October 2019

For example, International CAE Conference was disseminated through the website where photos can be checked [25].

- **Attendance to fairs and others:** it includes the attendance to fairs and others where ReSiSTant partners presented the project.

Table 5. Attendance to fairs and events

#	Exhibit	Date	Venue	Type of Audience	Organizer	Description
1	European Coatings Show 2019	19-21 March 2019	Nürnberg (Germany)	Industry / Scientific	Vincent Network	IFAM had a booth, ReSiSTant flyer and (if applicable) sample was presented. This Exhibition was visited by approx. 30500 visitors from 124 countries. They showed their competence in adhesives and coatings and discussed with visitors about finished, current and future projects and displayed the project flyer of Resistant. [26]
2	EPPN Network	May 2019	Dormagen (Germany)	Industry / Scientific	EPPN Consortium	IDONIAL (aka PRODINTEC) presented ReSiSTant pilot lines as part of its presentation on the EPPN Network project event.
3	ADDIT3D	4-6 June 2019	Bilbao (Spain)	Industry	ADDIMAT	IDONIAL (aka PRODINTEC) had a stand where ReSiSTant flyers were distributed [27].
4	International Paris Air Show -	17-23 June 2019	Paris (France)	Industry / Scientific	SIAE	Andreas Flaschger (BST) took part at the Paris Air Show with a small booth within the Austrian trade agency booth. There

	SIAE Le Bourget					flyers/info with me from ReSiSTant were distributed [28].
5	SUPEHR Conference	4-6 September 2019	Savona (Italy)	Industry / Scientific	TPG	RINA team distributed the project promotional material at the conference. BST also attended the event and presented the project. [29].
6	1st Conference on Sustainable Mobility	14-15 October 2019	Catania (Italy)	Industry / Scientific	Università Niccolò Cusano	Emiliano Costa (RINA) presented the paper entitled "Increase of Compressor Performance through the Use of Microstructures" and showed the application of a numerical procedure to support the design of riblets over the surfaces of an industrial compressor in order to increase its efficiency [30].
7	CAE Conference 2019	28-29 October 2019	Vicenza (Italy)	Industry / Scientific	CAE	Emiliano Costa (RINA) presented the paper entitled "Increase of Compressor Performance through the Use of Microstructures" and showed the application of a numerical procedure to support the design of riblets over the surfaces of an industrial compressor in order to increase its efficiency. [31]
8	Metal Madrid	27 – 28 November 2019	Madrid (Spain)	Industry	Easyfairs Iberia	IDONIAL (aka PRODINTEC) had a stand where ReSiSTant flyers were distributed. [32]

Next some images showing some examples of ReSiSTant in fairs and other events.



Figure 10. IFAM and ReSiSTant at European Coatings Show 2019



Figure 11. IDONIAL (PRODINTEC) and ReSiSTant at ADDIT3D



Figure 12. BST at SUPERH Conference



Figure 13. ReSiSTant flyers at the entrance of IDONIAL Headquarters

4 Impact

This section includes an overview of the achieved values related to ReSiSTant Key Performance Indicators. Such values can be found on Table 6.

Table 6. ReSiSTant dissemination and communication Key Performance Indicators

KPI ID	KPI Title	Value (M1- M24*)	Target value (Accumulative values)
			M24
1	Web visits	<ul style="list-style-type: none"> 10.501 total 9.479 excluding member area 1425 users + 197 returning users. Total sessions 2.044 Average visit time: 4' 00" Total: 10.501 visits	5.000
2	(Electronic) Material downloads / distribution (website outcomes section)	<ul style="list-style-type: none"> Flyer: 340 D1.3 data management Plan: 328 1st Press release: 219 1st e-newsletter: 173 2nd e-newsletter: 215 3rd e-newsletter: 63 Report of Dissemination and Communication activities – 2018: 9 Total: 1346	500
3	Brochure / Leaflet distribution	<ul style="list-style-type: none"> ~450-> visits to IDON (PROD) stand in GREXpo + BIEH + other partners 340 electronic downloads Total : ~800	30
4	Project e-newsletters downloads / distribution	<ul style="list-style-type: none"> 1st eNewsletter sent to 27 + downloaded from website by 173 2nd eNewsletter sent to 32 + downloaded from website by 215 3rd e-newsletter sent to 21 and downloaded from website by 63 1 new subscriber¹ Total: 451	3
5	Conference presentations	<ul style="list-style-type: none"> International CAE Conference: 2 presentations CAE Conference 2019: 1 presentation 	3

		Total: 3	
6	Published releases	press <ul style="list-style-type: none"> • 1st press release (September 2018) • Electronic downloads: 219 • Sent to key media. • Published by 1 regional newspaper (Spain). • Working on a new publication on high impact scientific magazin. • Total: 1 	4

* Values until start mid M24

¹ Distribution list was updated to new regulations and some contacts did not register again. However, a new subscriber (who was not registered before) was included on the updated list.

5 Conclusions

This document collects all activities which were detailed on the project dissemination strategy as part of dissemination and communication tasks related to the project. The monitoring of the activities was based on several Key Performance Indicators whose values for this period are collected on Table 6. In general terms, the project impact is even higher than expected as shown on such table.

Regularly, these activities were monitored and some improvements had to be performed in order to boost such impact when some weaknesses were discovered.

- **Newsletter tab:** due to the change of regulations on privacy data and its implementation in May 2018, a newsletter tab to collect contact lists for sending the e-newsletter was created. Its content was updated at the beginning of 2019.
- **New sections on 2nd and 3rd e-newsletter:** despite the newsletter tab of the website, there is a low number of subscribers out of the consortium. This is the reason why the second newsletter included a section related to “how to subscribe” and it remained on the following e-newsletter.
- **Outcomes section:** this section was initially designed to share public deliverables. However, in order to increase project impact, other project related documents (e.g. e-newsletters or press releases) can also be found on this section. This section helps to achieve project impact objectives so project relevant documents will be still disseminated through this section.
- **CORDIS and project information:** CORDIS website updated information according to first project reporting where project flyer was also included.
- **Project wide spreading from partners:** ReSiSTant partners have also shared the project information and website through their corporate website. IDONIAL has updates its website and has included a specific section with ReSiSTant project information including project flyer and press release. These activities have also helped to increase project impact.
- **Social media sharing and origin of website access:** additionally, the project information has been shared through Social Media to increase the project web impact (Figure 14). An analysis of website accesses (accumulative value from M1 to M24), shows that “organic search” has increased compared to the values from M1 to M12. During this period the access trends are similar to the ones of previous year: 1. Access through social media is the lowest one; 2. Referral access is the next one; 3. Organic search (from search engines earned, not paid) represents 14.9% (last year was 8.6%). This is particularly important if the web is well positioned on such engines; 4. The first type of access origin is direct (any traffic where the referrer or source is unknown). The problem for direct access is that cannot be controlled and it is complicated to obtain more details about where it comes from. Some possibilities for direct access are: people who enter our URL into their browser or find it via a bookmark, emails from particular email clients, mobile traffic, Secure (https) to non-secure sites (http), etc.

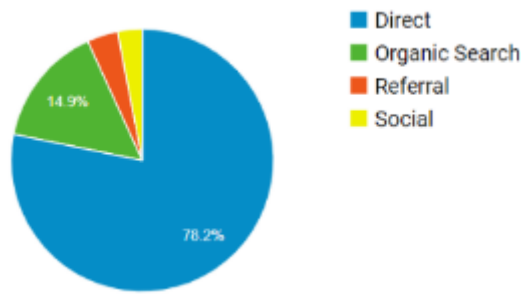


Figure 14. ReSiSTant website analytics (type of accesses) – Month M1 to M24

A deeper analysis was performed to determine the origin from Referral accesses and Organic accesses. Thus, Referral top accesses come from: 1. Prodintec.es (idonial.com), 2. Linkedin.com, 3. Facebook.com while Organic ones come from: Google, Bing or Yahoo. The 10 top accesses to the web come from: 1. Direct, 2. Google (Organic), 3. Prodintec.es (Referral), 4. Linkedin.com (Referral), 5. Facebook.com (Referral), 6. T.co (Referral), 7. Bing (Organic), 8. Baidu.com (Referral), 9. Lnkd.in (Referral) and 10. Yahoo (Organic).

The geographical origin of the website accesses is the following: 1. Spain, 2. Germany, 3. Canada, 4. Austria, 5. Japan, 6. USA, 7. Italy, 8. Brazil, 9. China and 10. Philippines. Many accesses come from partners' countries but there is a clear interest on other countries which are not involved in the project such as Canada, Japan, USA, Brazil, China or Philippines.



Figure 15. ReSiSTant website analytics (geographical origin) – Month M1 to M24

The public website was fully operational since May 2018 and since then, the website impact has been enormous (e.g. website visits are more than the double of target value). Now, it is well positioned in Google as “resistant project” or “resistant eu” are key words and project website is shown.

Based on this analysis, future actions are related to create the 4th e-newsletter at the beginning of year 2020 where presenting public deliverables (M24). Thus, project disseminates new content. On the other hand, during year 2020, it is expected to foster project publication on journals or magazines. It is important to highlight that during 2019, publications on technical magazines were performed.

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