



Dependable Real-time Infrastructure for Safety-critical Computer

Project number: 869945

Project acronym: De-RISC

<http://www.derisc-project.eu/>

D5.1 Communication and Dissemination Plan

Work Package	WP5	Lead Beneficiary	BSC
Type	Report	Dissemination level	Public
Due Date	31/12/2019 (updated April 2021)	Version	1.4

Brief description

This document outlines a well-defined and customised De-RISC dissemination and communication plan, and sets out target audiences, dissemination tools and strategies and planned interaction with similar projects. It also includes the policy for result dissemination. It is a “live” document that should be revised periodically by the WP5 team over the course of the project.

In order to achieve this, the dissemination strategy aims to raise awareness and interest in the technologies and solutions developed during the project among the general public, scientific community and end users, and focusing on industrial domain targets such as avionics, space, automotive and railway industries.



Document control page

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The De-RISC Consortium comprises the following partners:

#	Partner legal name	Short name	Acronym	Country
1	FENT INNOVATIVE SOFTWARE SOLUTIONS SL	fentISS	FEN	Spain
2	BARCELONA SUPERCOMPUTING CENTER - CENTRO NACIONAL DE SUPERCOMPUTACIÓN	BSC	BSC	Spain
3	THALES SA	THALES	TRT	France
4	COBHAM GAISLER AB	COBHAM GAISLER	CB	Sweden



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1. Introduction

The main purpose of the Dissemination and Exploitation work package (WP5) is to maximise the visibility of the project to multiple target audiences in order to foster possible uptake and support De-RISC partners in the exploitation of the project results.

For that purpose, the general objectives of WP5 are to:

- ◆ Identify and perform communication and dissemination activities in order to maximise the impact of the project, in collaboration with other EU research activities, scientific audiences, and industry forums.
- ◆ Identify the exploitable results of the project and define the potential commercial products and commercial strategies for these results (target market, business model(s), distribution channels and promotional strategy) to reach the market.

In this document, the first objective will only be planned, following task T5.1 in the [DoA].

2. Applicable and reference documents

[Applicable] DoA: De-RISC Consortium, GRANT AGREEMENT NUMBER 869945 — De-RISC, 2019

3. Terms, definitions and acronyms

3.1. Terms and definitions

Term	Definition
Document of Agreement	Also known as Grant Agreement. It is a contract signed between the Consortium and the European Commission memorializing the terms and conditions of the funding from the European Union's Horizon 2020 Programme.
Horizon 2020	It is the biggest EU Research and Innovation programme ever with nearly €80 billion of funding available over 7 years (2014 to 2020) – in addition to the private investment that this money will attract. The purpose of Horizon 2020 is to foster the growth of breakthrough technologies, inventions and advanced developments by the promotion of scientific ideas from the laboratories to the market.
RISC-V	Pronounced "risk-five". It is an open-source hardware instruction set architecture based on established reduced instruction set computer principles.

Table 1: Terms and definitions.

3.2. Acronyms

Acronym	Definition
BSC	Barcelona Supercomputing Center
BW	Black & White
CG	Cobham Gaisler
DoA	Document of Agreement
EC	European Commission
EU	European Union
ESA	European Space Agency
FEN	fentISS
GA	Grant Agreement
H2020	Horizon 2020
HPC	High Performance Computing
HW	Hardware
IAB	Industrial Advisory Board
ISA	Instruction Set Architecture
KPI	Key Performance Indicator
NoC	Networks-on-Chip
RISC	Reduced Instruction Set Computer
RISC-V	Reduced Instruction Set Computer Five
SoC	System-on-Chip
SW	Software
TC	Telecommand
TM	Telemetry
TRL	Technology Readiness Levels
TRT	Thales Research & Technology
WP5	Work Package 5

Table 2: Acronyms.

4. Target audience

In order to achieve the dissemination objectives, an identification of target audience and potential stakeholders have been made:

- ◆ Industrial Advisory board (IAB)
- ◆ Industry

- ◆ Scientific community
- ◆ Public authorities
- ◆ General public

Below are the target audiences along with the key messages that the project aims to pass to them and the value that they add:

Target audience	Key messages	Value to target audience
Industrial Advisory board (IAB)	De-RISC delivers a commercially ready RISC-V platform for their critical systems, and they have the opportunity to influence it.	Their platforms need increased performance, reliability, limited multicore interference, no export/use restrictions. De-RISC HW/SW platform meets those goals and allows them influencing the design for a better suitability for their future systems.
Industry	De-RISC offers a powerful and flexible platform on which to deploy their future safety critical TSP systems.	While several platforms adhere to some extent to industry requirements, none of them offers together freedom from export/use restrictions, flexibility to add components, high performance, limited and easy-to-test multicore interference, and high reliability. De-RISC platform meets all those goals, so it is a key enabler to build industry systems during decades.
Scientific community	De-RISC brings the first space- and avionics-ready RISC-V platform to the market leveraging some of the latest research findings.	By building on an open ISA (RISC-V), De-RISC platform is suitable for any company. Hence, research institutions can do research on their own or collaborating with any company building on the De-RISC platform without particular de-facto limitations. Moreover, by delivering new observability knobs (extended Performance Monitoring Unit), the De-RISC platform opens the door to investigating better methods to ease V&V of safety critical related systems.
Public authorities	De-RISC delivers a commercially-ready new fully-European flexible and scalable space and avionics platform.	Key sectors such as space and avionics need guarantees to develop future systems without export or use limitations that may be imposed by proprietary ISAs, or by technology not owned by European industry. De-RISC brings a complete solution for space and avionics industries avoiding those issues by construction. Moreover, European industry and research communities can easily contribute to the software and hardware ecosystem of this platform with the increasing interest and investments in RISC-V technologies.
General public	The equivalent for Linux in hardware design is RISC-V and Europe will have the first commercially-ready RISC-V based space and avionics platform.	An increasingly higher number of services and knowledge relies on space missions and satellites, as well as on avionics technology (from planes to drones). De-RISC technology is a key enabler for those services and knowledge creation, and builds upon a fully-European platform based on RISC-V, thus being released in the right time to catch the RISC-V wave, which is becoming the de-facto standard ISA, and before competition (specially from outside Europe) is ready to compete.

Table 3: Target audience.

5. Dissemination team

Role	Partner	Responsible	PMs
WP leader	FEN	Vicente Nicolau Gallego Ana Rísquez Navarro	30
Task 5.1 leader	BSC	Dayana Fernandes Muzzetto Renata Giménez Binder	15
Task 5.2 leader	CG	Jan Andersson	15
Participant	TRT	Jimmy Le Rhun	4

Table 4: Dissemination team.

6. Corporate image

A common graphic identity in all dissemination tasks allows better visibility and recognition. All dissemination materials are consistent with the brand guide developed (colours, typography, composition, logo) and include the name, website, logo, and disclaimer of the De-RISC project. The WP leader will make sure that this brand is applied correctly.

6.1. Logo

A project logo has been designed by Cobham Gaisler with the purpose of communicating technological feelings together with space applications. As the use case of the project will be an TM/TC application of a satellite, the main figure of the logotype is a (cubed) satellite, which draws in two of its borders the letter V, linking to RISC-V architecture. Colors blue and yellow were selected to match the main colors of the RISC-V logo, also to strengthen the relationship with the RISC-V architecture:



Illustration 1: RISC-V logo.

The project logo suffered an evolution from their initial draft. Some of them are reported in the illustrations 2 and 3 to highlight the progress made before reaching the final version.



Illustration 2: De-RISC logo evolution (1).



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Illustration 3: De-RISC logo evolution (2).

Finally, after several rounds of voting, the following versions were selected as official project logo (rectangle, flattened and squared versions):



Illustration 4: De-RISC logo rectangle version.



Illustration 5: De-RISC logo flattened version.



Illustration 6: De-RISC logo squared version.

Illustration 4 shows the primary and preferred version of the logo (in terms of color and shape). There are some other variants, useful in other situations, like a printing version for ink saving (BW), or a white background to make more contrast when placed in dark areas (reversed). Illustrations 7 and 8 show all the variants:



Illustration 7: Other variants (flattened) of De-RISC logo.



Illustration 8: Other variants (rectangle) of De-RISC logo.

Finally some guidelines for the logo usage have been written to get coherence when using the corporate image (illustration 9).



Illustration 9: Logo guidelines.

6.2. Font

The official language of the De-RISC project is British English. However, the dissemination material should be translated into the different partners' languages, where possible. Each partner should ensure that the material is adequately translated into local languages, e.g., in the case of the press releases for the local media. Funding for this is not included in the dissemination budget.

6.3. Project templates

A set of designed templates are used in the project:

6.3.1. Presentation template

The presentation template is used in all presentations done by all partners and is included in the internal repository for all partners to use. This template provides design guidelines by defining common layouts, font sizes, etc. The presentation template is available in Open Office in 16:9 format. The file is available in the project's repository.

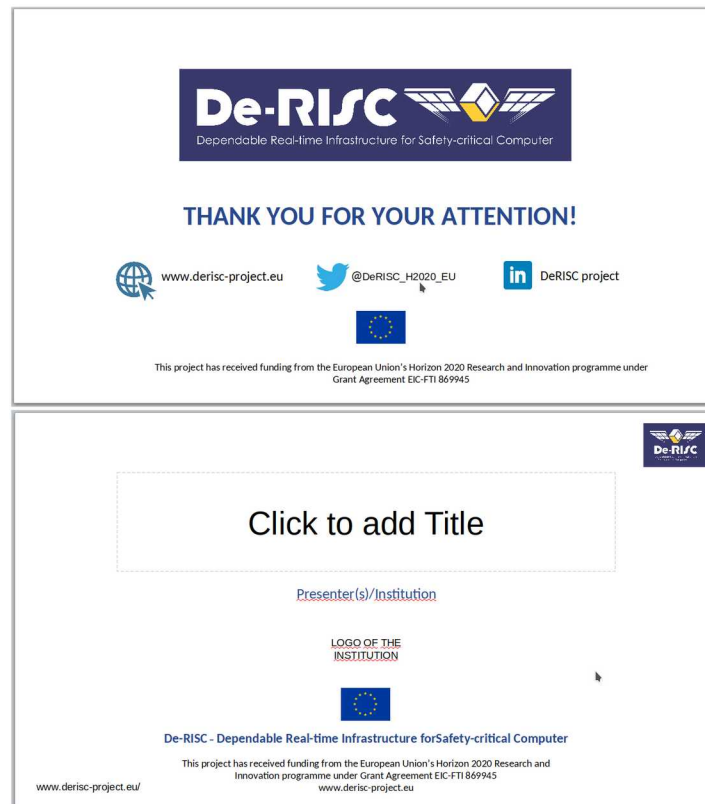


Illustration 10: Screenshot of the presentation template (first and last slide).

6.3.2. Deliverable template

The dissemination team prepared a template for all deliverables with the logo and its structure. The font used is Liberation Serif. The template is uploaded on the internal repository for partners to use.

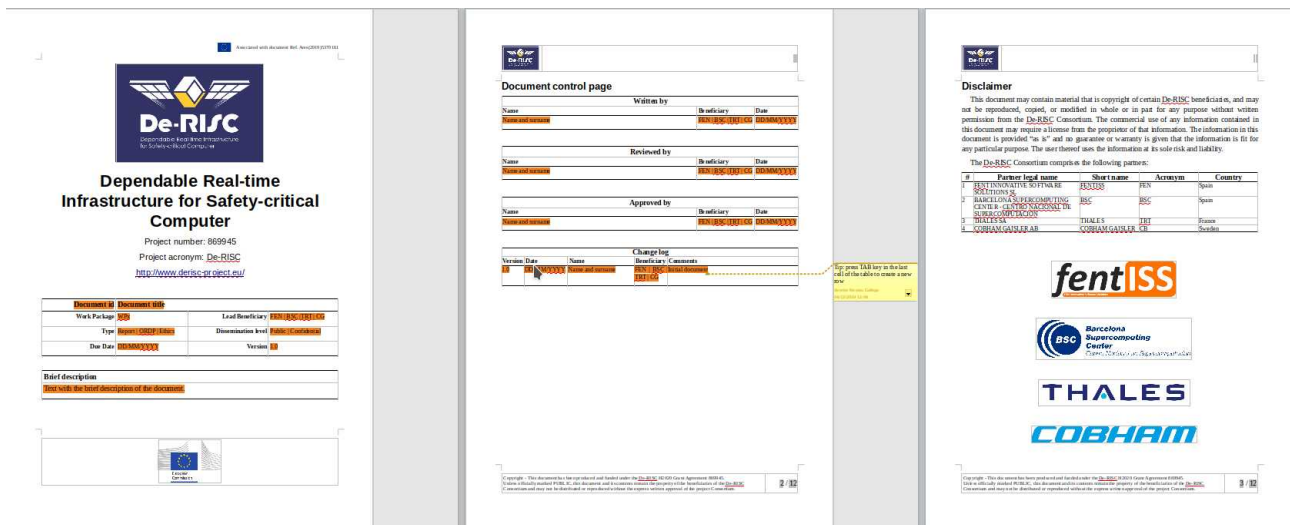


Illustration 11: Screenshot of the first pages of the template.

6.3.3. Poster template

The poster template is in Open Office format and is used in all poster presentations in different events. It is a basic layout template which the partners fill in with different scientific and technical content depending on the presentation objective and audience. It is included in the internal repository for all partners to use.

7. Publications

The consortium is committed to providing at least “green” open access publications wherever feasible. The dissemination team has reviewed the provisions of “[The Guidelines on Open Access to Scientific Publications and Research Data](#)” in Horizon 2020 and defined a strategy for knowledge management and protection. The team has also prepared appropriate publications guidelines that explain the EC publication and Open Access requirements and shared these with all the partners. The guidelines were uploaded on the intranet.

Green open-access defines that the author, or a representative, archives (deposits) the published article or the final peer-reviewed manuscript in an online repository before, at the same time as, or after publication. Some publishers request that open access may be granted only after an embargo period has elapsed.

Green access allows beneficiaries to deposit the final peer-reviewed manuscript in a repository of their choice. They must ensure open access to the publication within six months at the most after publication to a third party publisher. To provide support concerning compliance with Horizon 2020 embargo periods, the Commission offers a model amendment to publishing agreements, which are

often signed between authors and publishers. This model is not mandatory but reflects the obligations of the beneficiary under the H2020 grant agreements. It can be supplemented by further provisions agreed between the parties, provided they are compatible with the Grant Agreement. The Commission/Agency takes no responsibility for the use of this model.

All publications from the project (publications, white papers, technical reports, etc.), as well as dissemination materials, have to include the following sentence:

The research leading to these results has received funding from the European Union's Horizon 2020 Programme under the De-RISC Project (<http://www.derisc-project.eu/>), grant agreement n° 869945.

8. Dissemination tools

In order to efficiently reach the targets for dissemination and to maximize the visibility of the project, a broad spectrum of communication channels and dissemination tools are used. The role of the dissemination tools or activities should ensure that the different target audiences are aware of the De-RISC project and the strategic relevance and impact of this project for Europe. This also includes intensive communication with researchers and industrial partners.

The public website and the social media channels (Twitter and LinkedIn) are the first points of contact and play a significant role in dissemination followed by a carefully chosen list of scientific conferences, as well as the rest of the external communication tools.

8.1. Project Website

The public website (<http://www.derisc-project.eu/>) plays a central role as it is the most important medium for disseminating the project's results and activities and it will provide general information about the project objectives, current activities, publications and achievements of the project. The website is designed to be responsive and can adapt to all commonly used devices: desktops, laptops, smartphones and tablets.

The WP5 leader, in collaboration with the dissemination team, is the primary person responsible for editing the website content, website deliverables, feedback and statistics.

The website will be regularly updated with information about the project's innovations about hardware and software of De-RISC developments for the space and aeronautical applications by fentISS, the partner responsible for the website management. This section will be updated with information related to the project from an informational but also technical point of view. To achieve this, the consortium will create an editorial plan based on contributions from all partners.

A monitoring tool has been implemented (Google Analytics) in order to obtain relevant information about target audience behaviour and drive better decisions regarding its contents if

necessary. This analytics tool helps the dissemination team to ensure dissemination effectiveness and results of monitoring will be included in the deliverables D5.2 and D5.3 (initial, intermediate and final communication and dissemination reports, respectively).

8.2. Social Media

Social media is important to boost dissemination activities as well as engage the target audience with the project. The dissemination team has selected two main social media channels: Twitter and LinkedIn, since they are the most frequently used by the targeted audience.

De-RISC experts and partners will contribute to the social media strategy by creating content and posting information to influence the scientific community. The relevant technical and project news that are posted on the De-RISC website are also shared and disseminated on the De-RISC social media in order to engage a wider audience. The De-RISC experts will contribute by influencing in the above mentioned sectors.

Dissemination deliverables (D5.2, D5.3 and D5.4) will include a detailed Social media performance and analysis.

8.2.1. Twitter

Twitter will be used as a platform to create synergies with other similar stakeholders and influencers in order to boost the impact of the project's dissemination activities. Through this channel the objective is to reach academia, industry and general public.

The Twitter activity is monitored via Twitter Analytics, which show general information on followers, visitors and visitor demographics with reporting purposes.

8.2.2. LinkedIn

De-RISC will create a LinkedIn group page as the industry is one of the main target audiences. It is used to share project related content as well as other sector related content. The goal is to share technical discussions with industry-related stakeholders in order to engage with the project. The LinkedIn activity is monitored via LinkedIn Analytics, which includes general information on followers, visitors, and visitor demographics, such as their sector background.

9. Events

Another important dissemination activity is attendance and presentations at high-level peer-reviewed conferences in order to achieve fast time to market with the innovative solution. Presenting the latest updates of the project at such events, meetings or workshops is an effective means of involving industry leaders in standards discussions early on.

The De-RISC will focus on several main conferences and exhibitions, included (but not limited to):

- ◆ 4 times at aerospace exhibitions and conference
 - ▶ Data Systems in Aerospace (DASIA) conference
 - ▶ IEEE Digital Avionics System Conference (DASC)
 - ▶ European Congress on Embedded Real-Time Systems (ERTS2)
 - ▶ Embedded World
 - ▶ Paris Space Week (PSW)
 - ▶ Innovation and leadership in aerospace (ILA)
 - ▶ RISC-V Summit
 - ▶ International Conference on Systems & Concurrent Engineering for Space Applications (SECESA)
- ◆ 3 workshops with other research projects developing similar technologies
 - ▶ ESA Workshop on Avionics, Data, Control and Software Systems (ADCSS)
 - ▶ Workshop on Mixed Critical Systems - Dependable Artificial Intelligent CPS in Continuum development (together with HiPEAC conference)
 - ▶ Potential joint workshop with highly-related projects such as H2020 SELENE, ECSEL FRACTAL, H2020 EPI, etc.
 - ▶ Chips Alliance Workshop on Open Source Design Verification
- ◆ 5 presentations to large space companies and key stakeholders
 - ▶ CNES (<https://www.cnes.fr/>)
 - ▶ ESA (<http://www.esa.int/>)
 - ▶ SENER (<http://www.aeroespacial.sener/>)
 - ▶ AIRBUS Defence and Space (<https://www.airbus.com/>)
 - ▶ NanoXplore (<http://www.nanoxplore.com/>)
 - ▶ Sodern (<http://www.sodern.com/>)
 - ▶ ASTC (<https://www.astc-design.com/>)
- ◆ 4 participations in open public events, such as:

- ▶ GR740 User Day (ESTEC)
- ▶ BRAVE FPGA Day (ESTEC)
- ▶ TEC-ED & TEC-SW Final Presentation Days (ESTEC)
- ▶ Science week in City of Arts and Sciences (Valencia, Spain)

10. Dissemination pack

10.1. Project brochure

The general brochure provides information about the De-RISC project, its objectives and future achievements and its impact and benefit to society. The format of the brochure will be a DinA4 flyer so that interested project partners can easily download and print for their own dissemination purposes. It is distributed in all events or local actions to scientific and industrial contacts defined by each partner. It has also been uploaded on the De-RISC branding page.

10.2. Project presentation

A project presentation has been developed which includes a general overview of the project, its consortium, its objectives and future achievements and its impact and benefit to society. It will be regularly updated as the project goes forward. The presentation is available to download from the project website.

11. Press strategy

The press strategy will be consistent with the dissemination strategy and its objectives. As one of the most relevant dissemination activities, the press strategy will last for the complete duration of the De-RISC project.

Press releases are one of the most effective ways of communicating the existence of the De-RISC project to a specific target audience. Press releases attract attention to the project's progress and its achievements. During the project, different press releases will be launched. The initial press release is the most important one because it defines the De-RISC project objectives as well as its working plan. Ideally, in the middle of the project, there should be another press release in order to explain its progress and at the end of the project, a press release which will include the scientific results.

The first press release has been published and shared with various technical media, while all press releases will be included in the De-RISC media corner of the De-RISC News page. All partners have the opportunity to include them on their institutional websites (example: BSC on its

project website) in order to increase the click rates and referrals. In addition, all partners have been encouraged to write a press article about De-RISC to be shared with local media channels.

The press releases will be shared with key technical media in the field in order to make the project visible to the appropriate audiences. A press list will be prepared by the WP leader and used for all De-RISC press releases. All press impacts will be uploaded on the project website.

12. Collaborations with other initiatives or projects

Collaborations are expected to occur with other research projects, initiatives or potential companies, being those where some of the De-RISC partners are involved. Among those, the dissemination team has already identified the following collaborations:

Project /Initiative	Description	Link with De-RISC	Planned actions
<u>SELENE</u>	Self-monitored Dependable platform for High-Performance Safety Critical Systems.	Hardware/software platform for safety-related systems with some similarities with De-RISC. Both, Gaisler and BSC are partners in these two both projects.	Internal meetings to share potential collaborations. Leverage and adapt De-RISC technologies.
<u>ECSEL FRACTAL</u>	A Cognitive Fractal and Secure EDGE based on a unique Open-Safe-Reliable-Low Power Hardware Platform Node.	The development of highly flexible and adaptable platforms for safety-critical systems. BSC is a partner in both projects.	Internal meetings to share potential collaborations. Adopt De-RISC solutions as baseline components for the development of FRACTAL platforms.
<u>EPI</u>	European Processor Initiative	Commercial high-performance processor for HPC and automotive systems by 2021, and further released beyond that date. EPI's technology builds explicitly on RISC-V. BSC is partner of both, EPI and De-	Internal meetings to share potential collaborations. Provide De-RISC solutions so that the EPI processor can leverage existing technology.

		RISC.	
<u>SENER</u>	Private engineering and technology group.	Use of hypervisors in RISC-V processors.	Internal meetings to share potential collaborations.
<u>RISC-V</u>	Global nonprofit association based in Switzerland.	De-RISC project aims to commercialise a multicore RISC-V system-on-a-chip design already developed by Cobham Gaisler.	Interaction on social media. Internal meetings to share potential collaborations, and participation in their events.

Table 5: Collaborations with other initiatives or projects

13. Key Performance Indicators (KPI)

All dissemination activities and tasks are carefully monitored. Quality metrics will be monitored, and some quantitative indicators include the following:

KPI	Explanation	Total target by the end of the project
Press releases	At least 1 in a year	3
Press clippings	Articles appearing in the press about the project	30
Project presentation	General overview presentation regularly updated	1
Events and conferences attended	Events where project researchers participate, including conferences booths, workshops, tutorials etc. (with significant attendance, i.e. above 30 people)	25
De-RISC dedicated social media channels	Number of followers	200
De-RISC & partners social media channels	Number of tweets/posts in the partners' social media channels related to De-RISC	500
Website	Number of unique visitors in the website (personnel involved in the De-RISC project and/or people working on the website are not excluded from this figure)	1000
Scientific publications	Priority will be placed on having few scientific publications with strong contributions that may serve as reference for the community. The initial expectation is having one led by each partner	4

Table 6: KPIs.