



WP2 – NA1 update

Communication, dissemination, exploitation and training

Ennio Capria (ESRF)



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101008126

Annual meeting

Deliverables

- Deliverable D2.1: Communication and Dissemination plan
 - Uploaded on European Commission portal on 31 August 2021

- Deliverable D2.2: Exploitation and Data Management plan
 - Uploaded on European Commission portal on 30 September 2021



Grant Agreement No: 101008126
RADNEXT
 Radiation facility Network for the Exploration of effects for industry and
RESEARCH
 Horizon 2020 Research Infrastructures project RADNEXT

DELIVERABLE REPORT

**COMMUNICATION AND
DISSEMINATION PLAN**

DELIVERABLE: D2.1

Document identifier:	RADNEXT-Del-D2.1-v1.0
Due date of deliverable:	End of Month 3 (August 2021)
Report release date:	31/08/2021
Work package:	WP02/NA1: Communication, Dissemination, Exploitation and Training
Lead beneficiary:	KUL
Document status:	Final

Abstract:
 This document details the project communication and dissemination plan for RADNEXT, including all actions that will be taken by the consortium to maximize visibility and increase the project impact.

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DELIVERABLE REPORT

**EXPLOITATION AND DATA MANAGEMENT
PLAN**

DELIVERABLE: D2.2

Document identifier:	RADNEXT-Del-D2.2-v1.0
Due date of deliverable:	End of Month 3 (August 2021) – deadline extended by one month, to end of September 2021
Report release date:	30/09/2021
Work package:	WP02/NA1: Communication, Dissemination, Exploitation and Training
Lead beneficiary:	ESRF
Document status:	Final

Milestones

- MS8: Project website launched → David
- MS9: Appointing the Industrial Advisory Panel (IAP) → Ennio
- MS10: List of commercial components of interest
- MS11: First RADNEXT-to-industry event finished



[title of event]

MS9: Industrial Advisory Panel (IAP)

The IAP is composed of external members, appointed by the PCB based on their expertise in the activity areas of the RADNEXT project. The IAP is responsible for advising the PCB on technical and strategic matters related to the project.

Members:

- Renaud Mangeret, *Radiation Senior Expert, Airbus Defence and Space*
- Magali Haussy, *Space Radiation Manager and Industrial Property Manager, Thales Alenia Space in Belgium*
- Christian Chatry, *CEO and founder, TRAD*
- Jens Verbeeck, *CEO, MAGICS Instruments NV*
- Tudor Chirila, *Project Manager for HiRel Products, Infineon Technologies AG*
- Gerald Soelkner, *Physicist, Senior Principal, Infineon Technologies*
- Philippe Roche, *Company Fellow Radiation, R&D Technical Director High Reliability, Co-Head Ecosystem & Explorations for Technology R&D, STMicroelectronics*
- Gilles Gasiot, *Principal Engineer, Member of the Technical Staff, STMicroelectronics*



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[title of event]

MS10: List of commercial components of interest

Status: in progress

- We are currently creating a survey where we ask about which components they would like to see tested, target radiation environments, radiation tests of interest ...
- The survey is to be distributed across e.g. the Scientific and Advisory panel, plus the RADNEXT partners who are component users
- On top of the survey, we are also creating a structured list of parts that have been tested (or are planned to be tested) through the RADNEXT TA beam time proposals



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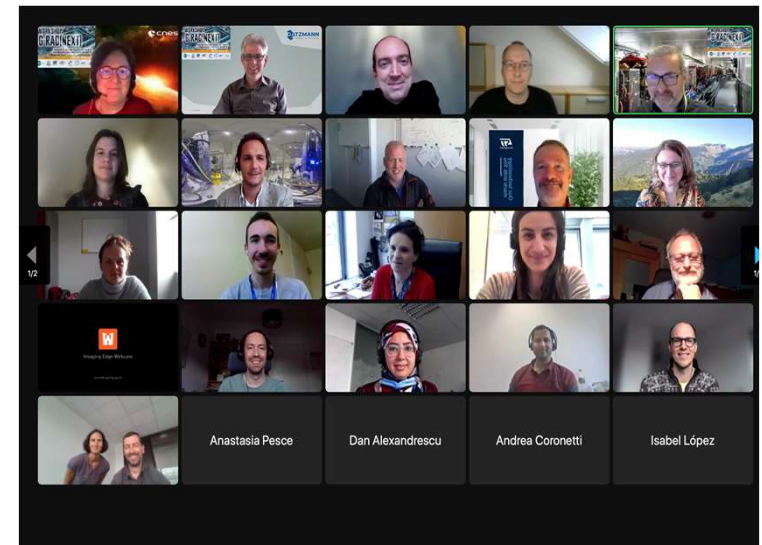
MS11: G-RAD(NEXT) – 4 May 2022

- First RADNEXT-to-industry event
- Due to covid: remote event
- 180 registered – 80 peak audience
- In collaboration with the IRT Nanoelec PAC-G (Platform for Advanced Characterisation – Grenoble)
- Format expert panel/round table:
 - Industrial testimonials on the need coupled with RADNEXT presentations to inspire the industrial audience and understand barriers and gaps, with the objective to better support/interact with industry
 - Focused toward 3 main sectors: space/avionics/ground level
 - 5 polls to test the audience opinion on strategic subjects
- Next event in 2023. Topic still tbd, but probably focused on some technical achievements from the consortium
- With the support of Gerd Datzmann

<https://indico.cern.ch/event/1095485/>



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Communication and dissemination

Newsletter

- Proposed platform was Spotler - <https://spotler.com>
- Tool was under pre-procurement by CERN and was approved end of March
- Account is shared with 5 other projects @ CERN
- Status:
 - We still need to have our onboarding session and templates still need to be made
 - Once this is finished, we can start
 - Goal is to send a newsletter every 3 months, future TA calls can also be distributed via Spotler
 - Topics: updates and interesting news on the project, research results, TA calls but also anything useful/interesting/educational related to Radiation Effects and Radiation Environments
 - A newsletter sign-up button was added to website homepage



RADNEXT training activities (1)

- 1st meeting (brainstorming session) on 12 October 2021
- 2nd meeting (with working group) on 1 February 2022 (co-lead by Arto and Paul)
- We will create a MOOC (individual modules combined in a full course)
 - Aimed at engineers/physicists seeking further personal education
 - And also aimed at MsC/PhD students seeking ECTS
 - MOOC is to be hosted on Edx under the account of KU Leuven
- Main goal of the training activities is:
 - to educate people on fundamentals of radiation effects in electronics
 - to lower the threshold for people with an interest in the radiation field
 - to attract more people to the field



RADNEXT training activities (2)

Contents

Possible chapters and subchapters of our MOOC are:

- a. Radiation Environments
- b. Radiation in Space
- c. Radiation-Matter Interactions
- d. Radiation Effects on Devices and Systems
 - i. This should maybe comprise a subchapter on how devices work? E.g. on band diagrams?
- e. Radiation Hardening by Design
- f. Modelling and simulations? (Monte Carlo etc.)
- g. RHA Testing
 - i. Methodologies
 - ii. Standards and guidelines
 - iii. How to select a facility (link to RADNEXT TA proposals)
 - iv. Videos on facilities
 - v. Dosimetry
 - vi. Lessons learned

Due to extremely busy schedules, this was put on hold for a while but a follow-up meeting will be scheduled after the summer.



Exploitation Plan

- The Exploitation plan describes the way the consortium will proceed for the valorisation of the key exploitable results taking the main target groups and stakeholders into consideration.
- The basic strategy presented in the proposal was substantially confirmed
- The expected project exploitation pathways has been outlined, subdivided into four categories, namely:
 - Beam access and complementarity amongst facilities and radiation sources (Table 1a);
 - Beam monitoring and user support (Table 1b);
 - Complementary simulation tools (Table 1c);
 - Component and system level irradiation results and methodology (Table 1d)
- For each-one of those categories we reported an analysis concerning: the impact attended, the KER and the exploitation pathway



Data Management Plan

The DMP is providing clarity about the following points considering the Consortium as a whole:

- DATA DEFINITION: what is data (metadata, raw data, accessory data)
- FAIR DATA: how to make the data findable, accessible, interoperable and reusable
- DATA SECURITY: no particular requirements
- ETHICAL ISSUES: mainly focused around the respect of GDPR

Due to the absence of standard in the reference discipline the main focus of RADNEXT DMP is on:

- Automatic generation of DOIs for each dataset produced within the project
- Upload of the dataset on ZENONDO database

