



# *Alternative Bearers for Rail*

## *Hosting and AB4Rail dissemination*

*Romeo Giuliano*

*Università degli Studi Guglielmo Marconi  
(USGM)*

***AB4Rail Online Workshop  
Organized by GSOA, RADIOLABS, and  
Università degli Studi "G. Marconi" (USGM)***

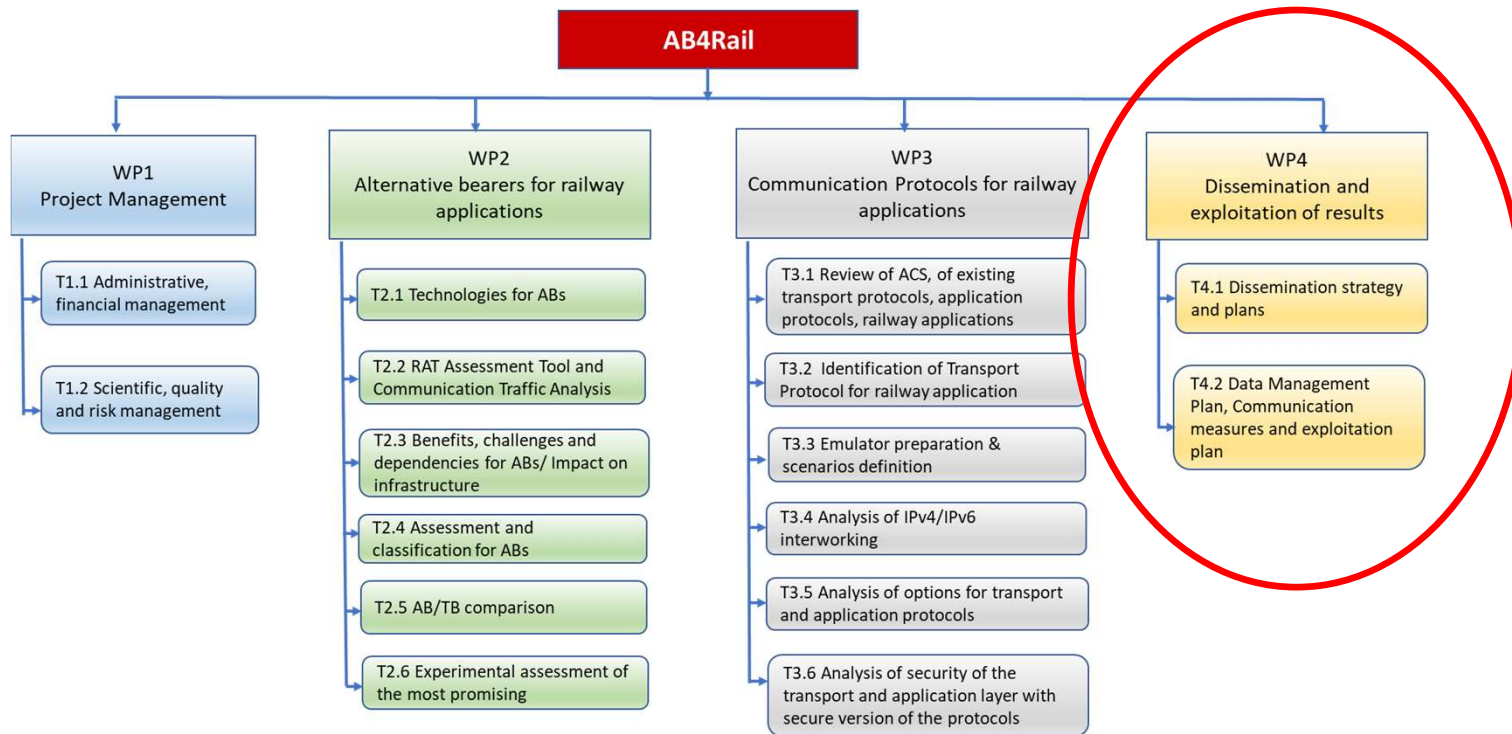
***"Aerial technologies as Alternative Bearers for railway"  
21<sup>st</sup> March 2022***



Co-funded by the Horizon 2020 programme  
of the European Union

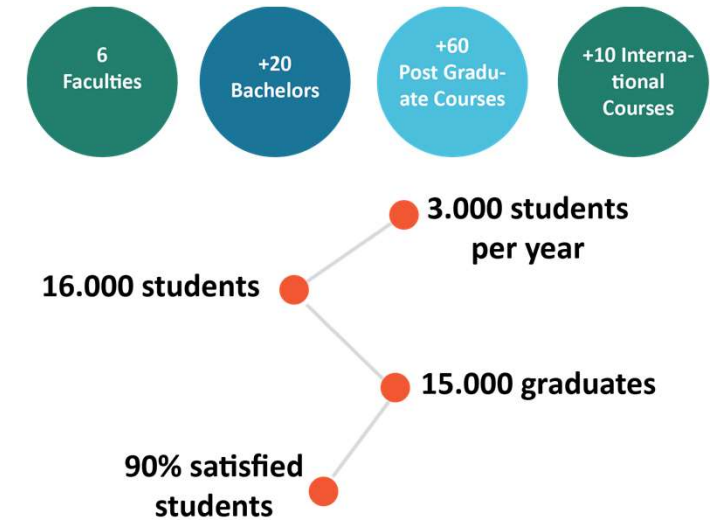
*This project has received funding from the Shift2Rail Joint Undertaking (JU) under grant agreement No 101014517. The JU receives support from the European Union's Horizon 2020 research and innovation programme and the Shift2Rail JU members other than the Union.*

- USGM background
- Dissemination activities in WP4



# USGM background

- Università degli Studi Guglielmo Marconi (USGM), leading WP4
- Open University – Expertise in distance education
  - Virtual Campus



[http://video.unimarconi.it/webtv/MDPC/USGM\\_LAB\\_DID\\_0024.mp4](http://video.unimarconi.it/webtv/MDPC/USGM_LAB_DID_0024.mp4)

- International R&D projects
- Expertise and assets
  - Multimedia & Creative production department
  - Guglielmo MARCONI University Studios
  - 3D Virtual and Remote laboratories



# USGM facilities



ADMINISTRATIVE OFFICES,  
Via Plinio, 44



MULTIMEDIA PRODUCTION  
OFFICES,  
Via Vittoria Colonna, 11



LECTURING AND EVENTS  
SPACE  
Via Vittoria Colonna, 11



CLASSROOMS &  
LABORATORIES  
Via Paolo Emilio, 29



MARCONI STUDIOS  
Via Gregorio VII, 414/424

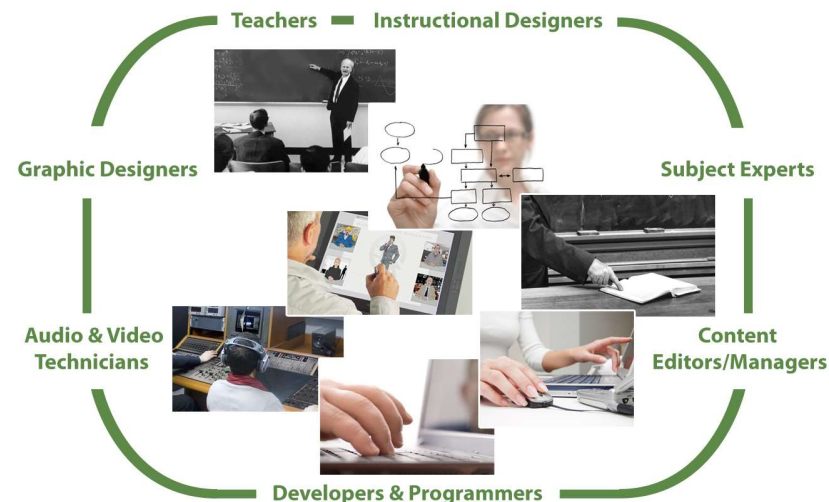


*just to cite a few*

- **LIFE3H** – Hydrogen demonstration in city, port and mountain area to develop integrated hydrogen valleys, H2020, [www.life3h.eu](http://www.life3h.eu)
- **GICO** – Gasification Integrated with CO2 capture and conversion, H2020, <https://www.gicoproject.eu/>
- **PROFIC** – Professional Development in Intercultural Competence in Higher Education Institutions, Mexico, El Salvador, Argentina, Program: Erasmus + KA2 - Cooperation for innovation and the exchange of good practice - Capacity building in higher education - <http://www.profic.org/>
- **KUTEL** – Kazakh Universities to foster quality assurance processes in Technology Enhanced Learning, Kazakhstan, Program: Erasmus + KA2 - Cooperation for innovation and the exchange of good practice - Capacity building in higher education - <https://www.kutel-project.eu/>
- **BLAZE** – Biomass - Low cost, Advanced and Zero Emission small-medium scale integrated gasifier - FUEL CELL CHP PLANT, Europe – Horizon 2020 - BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE. <http://www.blazeproject.eu/>
- **DAMOC** – Smart Grid Energy - Tanzania, South Africa - Program: Erasmus + KA2 - Cooperation for innovation and the exchange of good practice - Capacity building in higher education - <https://damoc.eu/>
- **BEEHIVE** – Entrepreneurship, Industry 4.0, Indonesia, Philippines, ASEAN - Program: Erasmus + KA2 - Cooperation for innovation and the exchange of good practice - Capacity building in higher education - <http://beehive-erasmusplus.eu/>

- MULTIMEDIA & CREATIVE PRODUCTION DEPARTMENT
  - It includes more than 50 professional profiles with specific competencies in both technological and educational fields
- Guglielmo MARCONI University Studios
  - 2000 square meters, 5 TV studios, audio and post production rooms, voice and recording studios in order to create thousands of different virtual scenarios

[http://video.unimarconi.it/WebTV/USGM/USGM\\_IST\\_0115/USGM\\_IST\\_0115\\_450k.mp4](http://video.unimarconi.it/WebTV/USGM/USGM_IST_0115/USGM_IST_0115_450k.mp4)

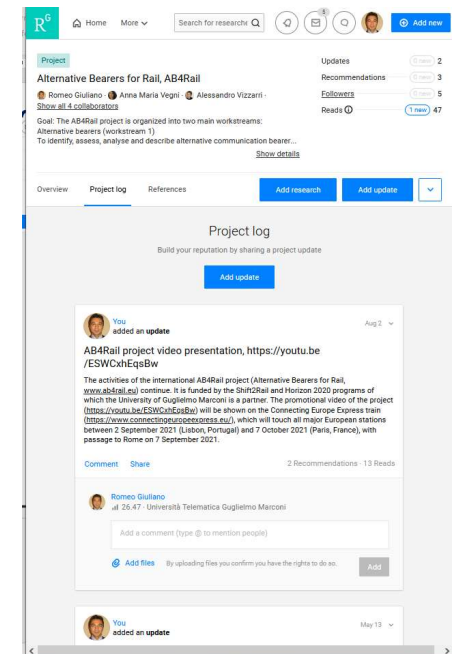
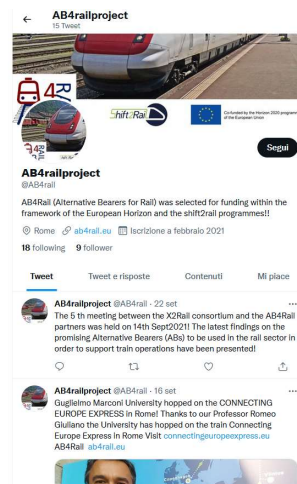
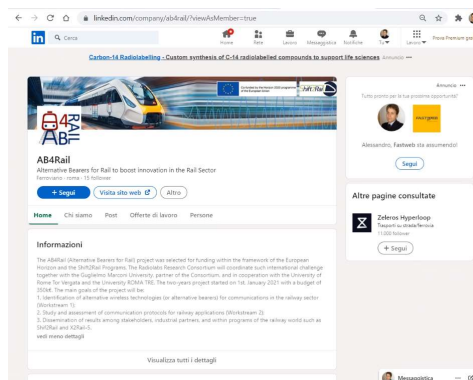
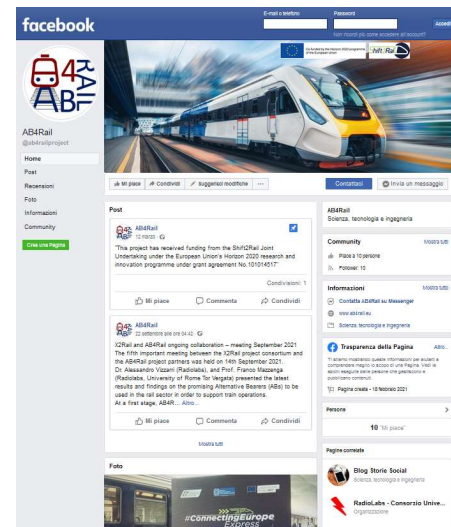
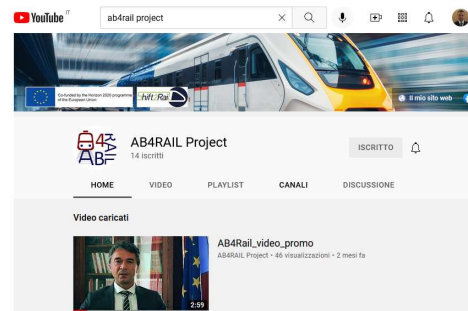
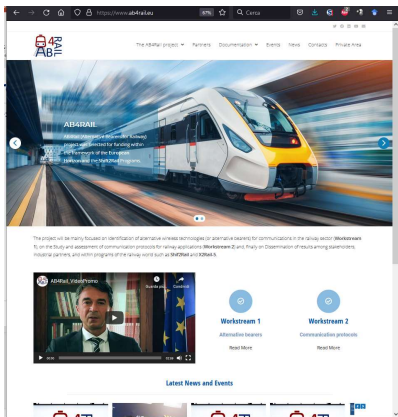




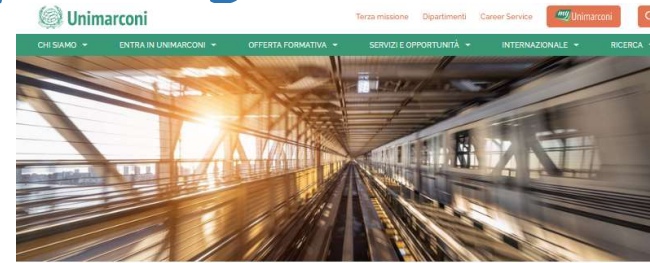
# AB4Rail project, official social media



- Project website: [www.ab4rail.eu](http://www.ab4rail.eu)
- YouTube channel: <https://www.youtube.com/channel/UCqSQE2wwD6627DuICJ8-A5w>
- Twitter: <https://twitter.com/AB4rail>
- LinkedIn: <https://www.linkedin.com/company/ab4rail/about/?viewAsMember=true>
- Facebook: <https://www.facebook.com/ab4railproject>
- Researchgate: <https://www.researchgate.net/project/Alternative-Bearers-for-Rail-AB4Rail>



- Newsletter, February 2022
- Brochure, March 2022
- GMU Magazine, 5 articles in 2021
- USGM website,
- USGM LinkedIn, Facebook, Instagram, ...
- Personal LinkedIn



Chi siamo > News > Workshop online progetto AB4Rail "Aerial technologies as Alternative Bearers for railway"

16 Marzo 2022

## Workshop online progetto AB4Rail "Aerial technologies as Alternative Bearers for railway"

21 Marzo 2022, ore 9:35 (CET)

Siamo lieti di invitarvi al workshop online "Aerial Technologies as Alternative Bearers for railway".

L'evento sarà incentrato sulla presentazione del progetto europeo AB4Rail ([www.ab4rail.eu](http://www.ab4rail.eu)) e sui principali risultati ottenuti sulle tecnologie alternative in settori del trasporto.

Workshop online di AB4Rail avrà opportunità di ricevere tecnologie di comunicazione come satelliti LEO, aerostati, tem, HAPS) e Free Space Optics (FSO) di interesse nei ferroviario.

**partecipanti:** Romeo Giuliano (USGM), Franco AB4Rail, Lea Paties (Europe's Rail Joint Undertaking, tron, X2Rail, programmat)



MAGAZINE FOR INTERNATIONAL COMMUNITY

N°1 - JANUARY/FEBRUARY 2021

### Kick-off Meeting to launch the AB4RAIL European Project!



The open University Guglielmo Marconi is glad to announce the official start of the European Project AB4Rail (Alternative Bearers for Rail) in January 2021. The Project has been founded within the framework of the Horizon and the Shift2Rail European Programs. The kick-off meeting a main scope to introduce remarks coming from event.



MAGAZINE FOR INTERNATIONAL COMMUNITY

N°4 - SEPTEMBER 2021



## Glance at the Future

Guglielmo Marconi University hopped on the CONNECTING EUROPE EXPRESS in Rome!



Guglielmo Marconi University is glad to sustain and join a great European initiative. Thanks to our Professor Romeo Giuliano the University has hopped on the train Connecting Europe Express, stopping in Rome for one day. Connecting Europe Express will travel in 26 countries, 40 railway partners, 100 cities and for 20,000 kilometres to promote RAIL transport. The train started from Lisbon and will arrive in Paris on 7 October. It will crisscross Europe to promote rail as a sustainable and innovative mode of transport. The aim is to encourage the use of trains by both people and freight, thus reducing the carbon footprint. The University strongly sustains the European rail sector's challenges and goals, in academic path and in the research challenges. USGM is in fact partner in the AB4Rail project, led by Professor Franco Mazzenga of Radiocore, with the objective to investigate and assess the Adaptable Communication System (ACS) in terms of Alternative Bearers and Communication Protocols for railways applications. Through the identification and testing of possible alternative communication technologies AB4Rail will support the rail as a sustainable and innovative mode of transport worldwide, thus contributing to the EU Green Deal goal.

Hop on the CEE train  
<https://www.connectingeuropeexpress.eu/> and AB4Rail initiative too <https://www.so-free.eu/>

by Maria Reggiani

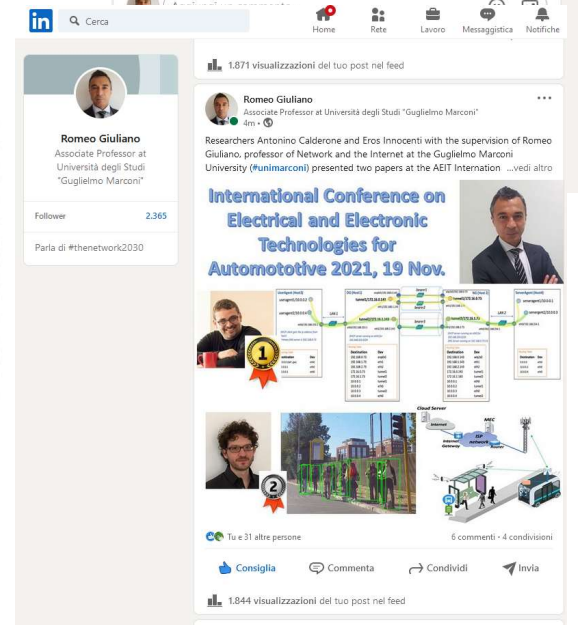
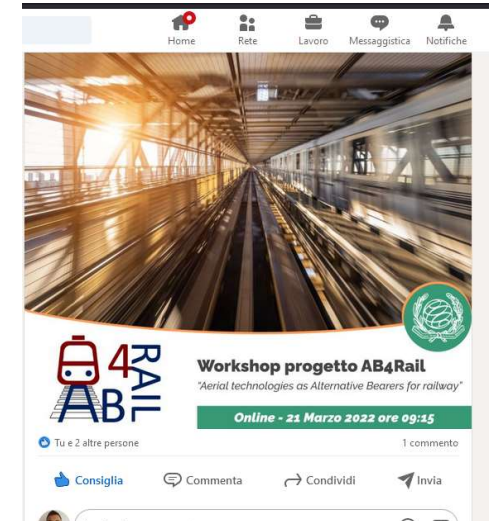


FEBRUARY 2022 | N. 1

## AB4RAIL NEWSLETTER

Alternative Bearers for Rail

[www.ab4rail.eu](http://www.ab4rail.eu)



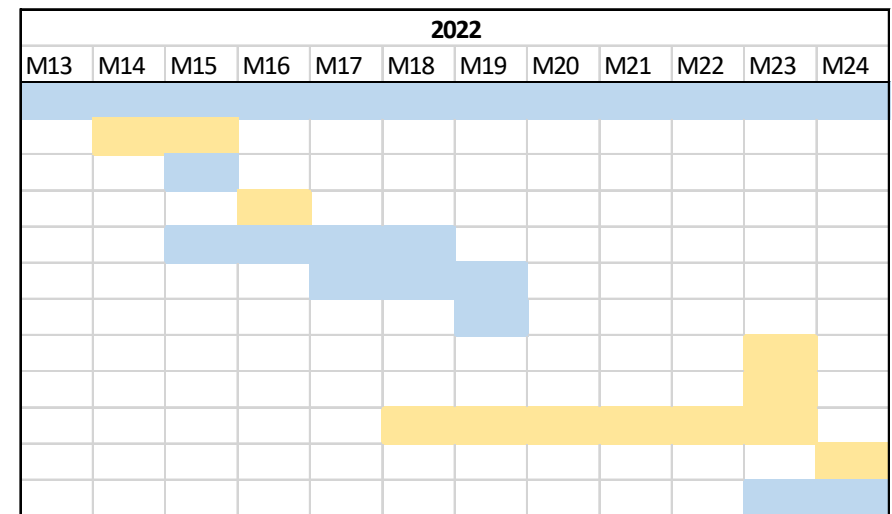


Digital Communication tools	How to measure/ indicators	Objective	Measured (31 Dec. 2021)
AB4Rail Web Site	Number of views	1500 per year	<b>2212</b> views
	Number of news/ articles	15 per year	<b>17</b> news/articles: - 12 articles published in "News" page - 5 articles published in "Events" page
AB4Rail Facebook page	Number of views	200 per year	<b>637</b>
	Number of news/ articles	15 per year	<b>23</b> articles published
AB4Rail Twitter account	Number of views	200 per year	<b>983</b> views
	Number of news/ articles/Tweets	15 per year	<b>17</b> news/tweets
AB4Rail LinkedIn page	Number of followers	30 per year	<b>24</b> Followers <b>147</b> page views
	Number of news/articles	15 per year	<b>21</b> articles published
LinkedIn of Dissemination Manager (personal)	Number of views related to AB4Rail project	Not defined in D4.1.	<b>2885</b> views
	Number of news/ articles related to AB4Rail project	Not defined in D4.1.	<b>3</b> post/news
USGM/GMU Magazine/website	Number of articles to promote AB4Rail	4 per year	<b>4</b> articles published in the magazine <b>3</b> articles published in GMU website
	Number of website views	1500 per year	<b>2698</b> views
YouTube Channel Video Promotion	Number of videos to promote AB4Rail	2 per year	<b>3</b> videos published
	Number of video views	50 per year	<b>132</b> views
Research Gate Project page	Number of views	50 per year	<b>70</b> (at 22 February 2022)
USGM Guglielmo Marconi University Facebook page	Number of views	1500 per year	<b>18000</b> views
	Number of news/ articles	10 per year	<b>9</b> articles published <sup>1</sup>
USGM Guglielmo Marconi University Website IT	Number of views related to AB4Rail project	Not defined in D4.1.	<b>6.436.657</b> views
	Number of news/ articles related to AB4Rail project	Not defined in D4.1.	<b>6</b> articles published

Dissemination Events (F2F and Online)	How to measure/indicator	Objective	
Mid Term workshop	Target groups attendance	At least 50 (online and F2F attendees)	Not applicable (scheduled in March 2022)
Final Dissemination Event	Target groups attendance	At least 50 (online and F2F attendees)	Not applicable (scheduled in November/December 2022)
Thematic Webinars	Target groups attendance	At least 30 (online and F2F attendees)	Held on 6 Oct 2021, hosted by 113th AEIT 2021 International Annual Conference (no info on participants' attendance)
Lessons to students	Students' attendance	30% of students attended the lessons	29%
Other Dissemination tools (e.g., papers) (Digital/Hardcopy)	How to measure/indicator	Objective	
AB4Rail Brochure and Leaflet	Brochure & Leaflet worldwide distribution	200 brochures delivered/sent per year	Ready (March 2022)
AB4Rail Newsletter	Newsletters' worldwide distribution	Each Newsletter delivered to at least 200 stakeholders	Sent to about 250 contacts
	Newsletter designed and developed	N.3 Newsletters within the project lifecycle	Newsletter N.1 delivered in M14
Scientific Research Papers for journals and conference proceedings	Open/Non-open access (accepted)	1 per year	4 papers (non-open database)
	In case of open access publication	200 views in the Online Open access Journals/conference proceedings	Not applicable

# Updated Activities in the dissemination and exploitation plan for 2022

Event	Type	Date
Website and social networks	Online Dissemination	M1-M24
Scientific International Journal	Scientific paper	Mar.-Apr. 2022
AB4Rail mid term workshop	Mid-Term workshop	Mar. 2022
IEEE Future Network workshop, 2022	Webinar, Scientific paper	Apr. 2022
AB and transport/application protocols within AB4Rail	Lesson to students/to all	Mar.-Jun. 2022
AB4Rail project webinar/workshop	Webinar/Workshop	May-Jul. 2022
1st Workshop on Com. Tech. Sys. Automotive and Rail	International Workshop	Jul. 2022
AEIT AUTOMOTIVE 2022	Key Note	Nov. 2022
AEIT AUTOMOTIVE 2022	Scientific paper	Nov. 2022
Conference on rail (TRA, WCRR, InnoTrans 2022)	Scientific/Rail conference	Jun.-Nov. 2022
Research & Innovation Days, 2022	S2R initiative	Dec. 22
1-day AB4Rail dissemination event	Final conference	Nov. - Dec. 2022



■ Planned  
■ Participation depends on contribution acceptance



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Università degli Studi Guglielmo Marconi (USGM)**

***“Aerial technologies as Alternative Bearers for railway”  
21<sup>st</sup> March 2022***

***Romeo Giuliano,  
Università degli Studi Guglielmo Marconi  
r.giuliano@unimarconi.it***

**[www.ab4rail.eu](http://www.ab4rail.eu)**



Co-funded by the Horizon 2020 programme  
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