

Radio-communication system in Zadar county improved

Final Version of June/2023

Deliverable number 4.2.1.

Project Acronym	STREAM
Project ID Number	10249186
Project Title	Strategic Development of Flood Management
Priority Axis	2 - Safety and Resilience
Specific objective	2.2 - Increase the safety of the Programme area from natural and man-made disaster
Work Package Number	4
Work Package Title	Development of innovative technologies and systems of flood forecasting and early warning system
Activity Number	4.2.
Activity Title	Response system improvement - communication technologies improvement
Partner in Charge	PP6
Partners involved	PP3, PP12
Status	Final
Distribution	Public

Summary

1. Introduction	3
2. Radio-communication system in Zadar County	4
3. Conclusion.....	6

1. Introduction

As part of A.4.2. Response system improvement – communication technologies improvement, radio-communication system in Zadar County was improved. Equipment for the radio communication system was purchased and 4 repeaters were installed at four locations in Zadar County.

2. Radio-communication system in Zadar County

ZADRA NOVA contracted an external expert to create a radio communication system project in Zadar County in order to create professional technical specifications for the equipment and to determine the locations where the repeaters will be installed. A radio system of mobile connections covering the territory of Zadar County was built, for which the necessary equipment and works were specified, and the procedure for testing and putting the system into operation was described. Projecting, among other things, also created the documentation required for obtaining permits for the use of the RF spectrum¹. This included the planning and calculation of radio links and the determination of geographical areas covered by the signal.

After the procurement was carried out, the equipment for the radio communication system was acquired. The radio communication system was acquired to facilitate communication among operational forces in inaccessible areas. Repeaters were installed at four locations in Zadar County: Križ Hill, Pašman Island (Jakovljevi Vrh), Pag Island (Kršina Peak), and Bruvno. Additionally, 60 radio stations (40 DMR handheld radio stations, 10 DMR handheld radio stations with screen, 10 DMR mobile radios with screen, microphone, mounting bracket and power cable) were procured. The equipment for the radio communication system was delivered, assembled and put into operation for the Zadar County Civil Protection Headquarters in May 2023.





Figure 1. Equipment for radio-communication system

Repeaters were installed at four locations in Zadar County: Križ Hill, Pašman Island (Jakovljevi Vrh), Pag Island (Kršina Peak), and Bruvno.



Figure 2. Repeaters installed at 4 locations in Zadar County

3. Conclusion

Radio-communication system will improve communication between members of civil protection. Acquired equipment for the radio communication system and repeaters placed in 4 locations will improve risk monitoring and increase the management capabilities of the headquarters for protection and rescue, and the early warning system and communication system will be improved.