

Regional Cooperation in the field of Disaster Management within the Danube Macro-Region

Zsolt KELEMEN

Chairman of EUSDR SG PA5 DM-WG
Budapest Firefighter Association President
Hungarian Firefighter Association VP



Action Plan of PA5, Action 3.

Strengthen disaster prevention and preparedness among governmental and non-governmental organizations

3.1 Support **joint preparedness activities** of disaster response actors (professionals and volunteers at operational, tactical and strategic level)
PROFOUND

3.2. **Harmonized training and capacity building** of civil protection units (based on UCPM) to improve coordination, interoperability, procedures and self-sufficiency DiMaND

3.3. Support **disaster risk reduction** at regional and local level, raising public awareness (Tailing Management Facilities?)

3.4. **Innovation and technology** to support disaster response (VR, drone, IT solutions, mapping) MobilApp



Objectives:

- trigger discussions and activities concerning disaster preparedness and response elements in the management of environmental risks;
- work on the development of recommendations for volunteer organizations involved in disaster response in the Region;
- support this initiative at policy level by developing “*Minimum standards for civil protection organizations and fire and rescue services involved in international or cross-border disaster response in the Danube Region*”;
- identify existing practices and procedures to minimize duplications;

DM WG Members 25 from 10 countries



- ▣ Austria (3): 2 LTPs

Raphael Koller Austrian Fire Brigade Association

Konrad Stania Ministry of Agriculture, Regions and Tourism

Thomas Seltsam Austrian Red Cross
- ▣ Bulgaria (4): Beneficiary + LTP

George Vlaykov National Association of Volunteers in Bulgaria

Svetlin Stanev Department Fire Safety and Civil Protection DG

Yuliyann Grancharov Department Fire Safety and Civil Protection DG

Maria Raevska Department Fire Safety and Civil Protection DG
- ▣ Croatia (3): Beneficiary + 2 LTPs

Zrinka Raguž Dubrovnik, Administrative Department for EU Funds

Josip Granić Mountain Rescue Service Croatia

Mario Starčević Croatian Firefighting Association

DM WG Members 25 from 10 countries



▣ Czech Republic (2):

Marie Adámková Ministry of Environment, Sendai Framework DRR

Pavel Danihelka VSB – Technical University of Ostrava

▣ Hungary (4): Lead Partner + Beneficiary + 3 LTPs

Tamás TÍMÁR Békés County Disaster Management Directorate

Bendegúz PAPP Hungarian Civil Protection Association

Brigitta SÁFÁR Hungarian Red Cross

Imre SZABJÁN Hungarian Charity Service of the Order of Malta

▣ Romania (1+1?): Beneficiary + LTP

Csaba ALBERT Harghita County Volunteer Firefighter Association

▣ Serbia (2): Dragan Ćapin President, Firefighting Association of Serbia

Mateja Živadinović Volunteering Support Association (LTP)

DM WG Members 25 from 10 countries



- Slovakia (2): 2 LTPs
Péter Tóth Obec Brestovec Beneficiary
Ministry of Interior, Section of Crisis Management LTP
Slovakian Firefighter Association
- Slovenia (2): Neža Strmole Gasilska zveza Slovenije Beneficiary
Ludvik Orban Slovenian Firefighter Association
- Bosnia & Herzegovina (2):
Samir Huseinbasic Head of Department for Structure and Training in the
Sector for Protection and Rescue of the
Ministry of Security of Bosnia and Herzegovina
Aleksandra Malinovic Civil Protection Administration Republic of Srpska
- Montenegro? Moldova? Bavaria in Germany? Ukraine?

DM-WG Concept, chairman and members



5 Dec 2019: 1st version sent to SG

18 Dec 2019: Discussion of document on 16th SG Budapest, HU

20 Dec 2019: 2nd version and nomination for chairman sent to SG

3 March 2020: Final version sent to SG w/ DM-WG nominations

15 May 2020: Direct invitation of experts (DL: 26 May 2020)

18 June 2020: Live webinar on the topic of just-in-time training

24 Nov & 2 Dec 2020: DAREnet – EUSDR PA5 DM WG 2nd APF

24 Feb 2021: Profound & DiMaND Project Launch Meeting

28-30 June 2021: DiMaND Project Management Meeting Dubrovnik

15-18 Sept 2021: DAREnet Project Meeting in Budapest-Balatonföldvár

28-29 Sept 2021: DAREnet Project Meeting in Zagreb (Rakitje)

20-21 Oct 2021: ICPDR 40th Meeting Flood Protection EG on-line

4-5 Nov 2021: DiMaND Project Meet and Conference in Békéscsaba

20-21 Oct 2021: ICPDR 40th Meeting Flood Protection EG on-line

4-5 Nov 2021: DiMaND Project Meet and Conference, Békéscsaba

25 Nov 2021: TMF workshop

DM-WG Concept, chairman and members



- 17 March 2022:** DAREnet & DiMaND project & DM WG meetings
- 26 April 2022:** EUSDR & ITM workshop at Széchenyi 2020
- 24 June 2022:** DAREnet EoE & DiMaND project at Interschutz
- 31 Aug 2022:** Profound project FSX briefing in Budapest
- 19 Sept 2022:** CTIF Volunteer Commission in Ljubljana
- 17 Nov 2022:** DAREnet & Profound – EUSDR PA5 DM WG
Safety4TMF & InDiMaND Interreg DRP proposals
- 26-27 Jan 2023:** DAREnet Panel discussion in Belgrade
- 15-16 Feb 2023:** DAREnet Final Event in Bratislava
- 19 June 2023:** Hamburg & CBSS EUSDR PA5 DMWG LoI
- 24 Nov 2023:** Hungarian Science Day – MTA NSKI in Debrecen
- 8 April 2024:** European Summit of Firefighters in Paris
- 4 June 2024:** European CP Forum in Brussels
- 22-25 Aug 2024:** Budapest ROPE Rescue co-funded by Hungary Helps
- 29 October 2024:** Interreg HUHR project generation meeting in Siklós
- 16 Nov 2024:** Hungarian Science Day – MTA NSKI in Székelyudvarhely (RO)

Way forward

Framework of Co-operation



■ Establishment of DM WG



Invitation and integration of members



Organizing first DM WG meeting

■ Defining milestones of work progress

■ Development of Rules of Procedures

■ Development of RoP based on SG RoP and other existing examples from EUSDR



■ Development of Terms of Reference



and Roadmap



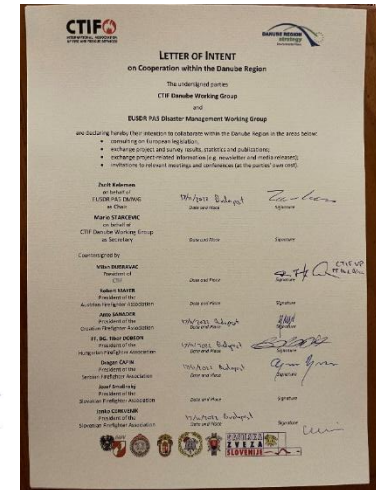
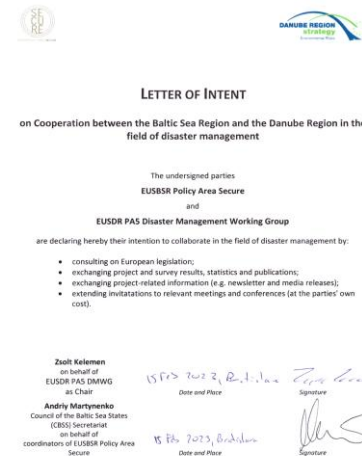
■ Partnership-building, knowledge-sharing ICPDR, DAREnet, Indima-DiMaND LoI



– CTIF LoI



& Baltic Region LoI



Way forward

Framework of Co-operation



▣ TMF (Tailings Management Facility)



Concept



Pillars and Horizontal Dimension

- Potential Partners

▣ Refugee Crisis

- Experiences and Good Practices in Hungary and Romania
- Gaps Identified
- Potential Regional Cooperation in Humanitarian Response

▣ DARescue organisation: www.darescue.eu www.darescue.net



The Quality Assurance Cycle

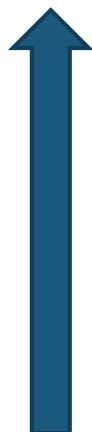
Fire Prevention



Firefighting



Fire Investigation



Training & Exercising



Interventions



Revision / ICT and R&D
(MobilApp, eLearning, hybrid trailers)



Training of Trainers / Commanding of Commanders

Training materials and methods:
collected, harmonised & developed

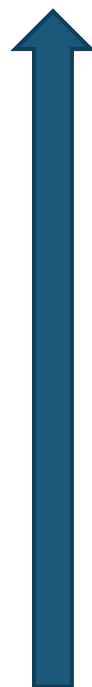
Exercising (incl. ExCon):
individually, locally & up



Interventions (incl. Supervision)
by trained commanders and crews



Revision / ICT and R&D



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International Level



(Macro) Regional Level



National Level



County Level



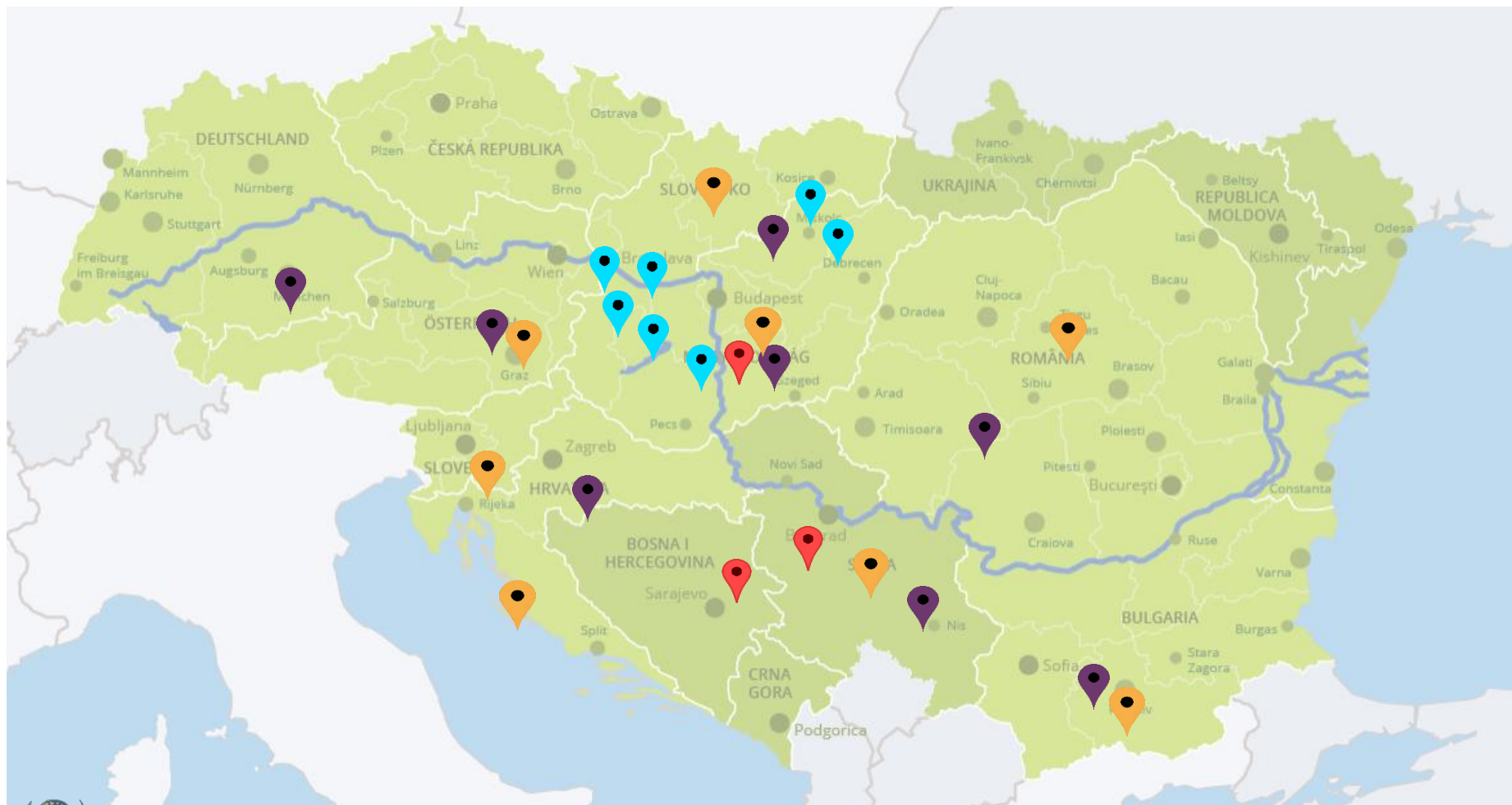
District Level



Local Level

DM WG PROJECTS

Where?



DM WG Projects

What funds?

1.8 million EUR in 2021-2023

Project ID	Project Title	Funds	Total Project Budget	Partner Countries and Organisations (#)
DAREnet	DAnube river region Resilience Exchange network	DG HOME	248 000 €	Hungary (2), ...
DiMaND	Disaster Management Network in the Danube Region	DG ECHO	341 608 €	Hungary (2), Slovakia (1), Slovenia (1), Romania (1), Bulgaria (1), Croatia (1)
Profound	Procedures of Rescue Organisations in Flood Operations in the Danube Region	DG ECHO	631 954 €	Hungary (2), Slovakia (1), Romania (2),
RISKHUB	Reducing Risks by Improving Interoperability between Slovenia and Hungary for better preparedness	Interreg CBC SKHU	395 129 €	Hungary (4), Slovakia (3),
WILDFIREX	Joint preparedness activities for wildfires in Komarom-Komarno region	Visegrad Fund	26 980 €	Hungary (1), Slovakia (1),
PREP-R	Preparedness for climate change related risks in Western Balkan region	WBGC	149 398 €	Serbia (2), BiH (1), Hungary (2)

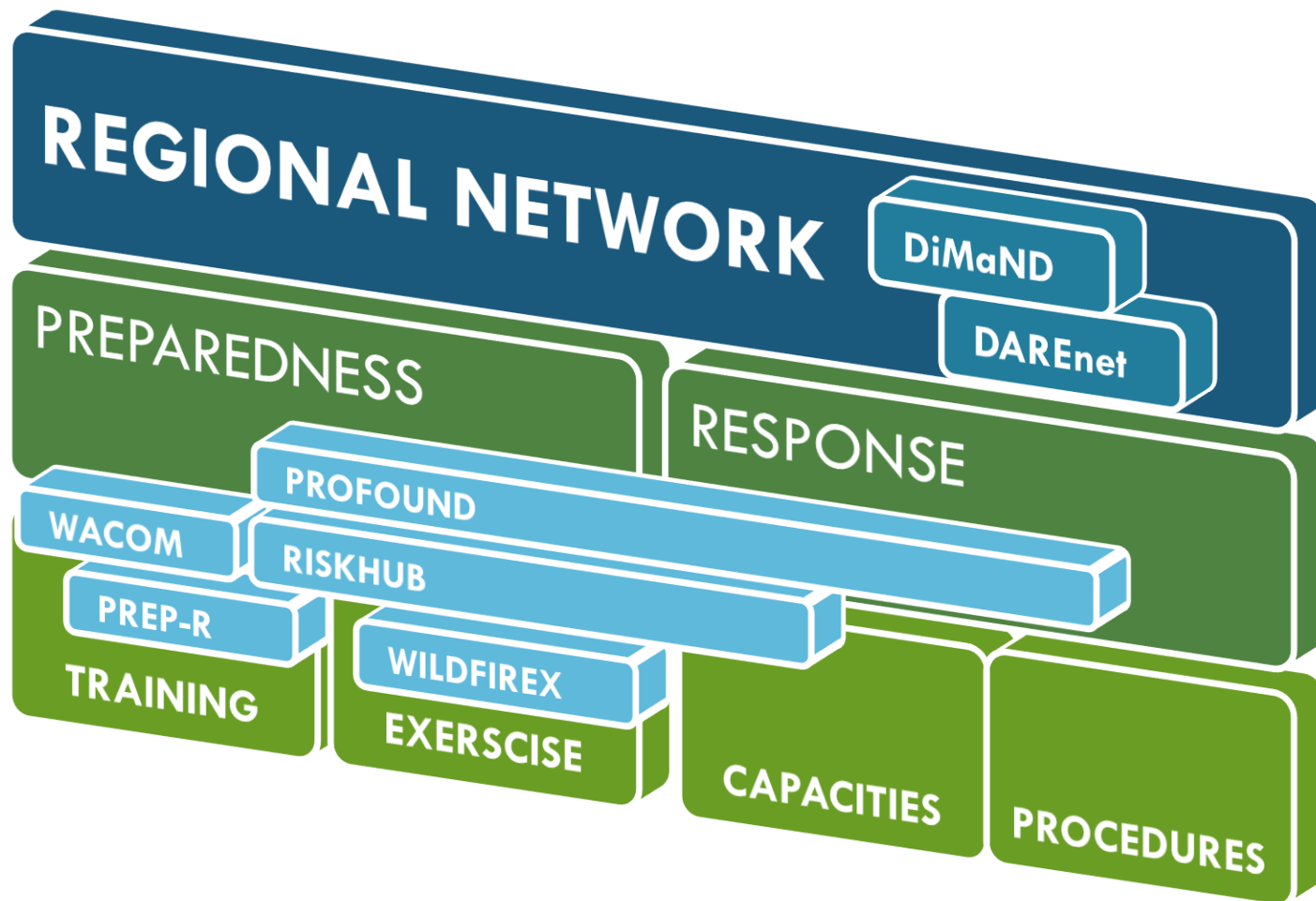
DM WG Projects

What funds?

8.1 million EUR in 2024-2026

Project ID	Project Title	Funds	Total Project Budget	Partner Countries (Number of Organisations)
Safety4TMF	Coordinated prevention and disaster management activities on Tailings Management Facilities by authorities, municipalities and other stakeholders for solutions reducing transnational risks and hazards	Interreg DRP	2 460 000 €	Romania (3), Hungary (5), Slovakia (1), Csehország (2), Szerbia (1), Bulgaria (1), Slovenia (1), Croatia (1)
InDiMaND	Integrated Disaster Management Network in the Danube Region	Interreg DRP	1 915 120 €	Romania (3), Hungary (5), Slovakia (1), Czech Republic (1), Serbia (1), Bulgaria (4), Slovenia (1), Croatia (3), Austria (1), BiH (1)
RISKHUB II	Kockázatok csökkentése a Slovenia és Hungary közötti interoperabilitás fejlesztésével a katasztrófa-készenlét	Interreg CBC SIHU	789 705 €	Slovenia (3), Hungary (4)
HUSKRISK	Reducing weather risks in the Hungarian-Slovak border region	Interreg CBC HUSK	425 116 €	Slovakia (2), Hungary (2)
ERGODIC	Reducing risks by improving ground support of aerial firefighting	Interreg CBC HUSK	620 048 €	Slovakia (1), Hungary (3)
CB RISKOP	Cross-border risk management cooperation	Interreg CBC HUSK	1 018 730 €	Slovakia (4), Hungary (4)
PRESAFE	Együttműködés a jobb felkészültség és a határokon átnyúló katasztrófamegelőzés érdekében	Interreg CBC HUSKROUA	765 368 €	Slovakia (1), Ukraine (2), Romania (1), Hungary (2)
NADIREX PREVCOM	Natural Disaster Response Exercise in Komárom-Komarno A katasztrófák elleni védekezés rendszerének közös nevezői	Visegradi Fund	34 307 € 26 431 €	Slovakia (3), Hungary (1)

DM WG Projects How?



DM WG PROJECTS

What type?



DAREnet
(Danube) ✓

PROFOUND
(Danube, Tisza) ✓

WACOM
(Sava) ✓

RISKHUB II
(SIHU Mura)
Safety4TMF
(Danube)

**WILDFIREX +
NADIREX +
PREVCOM**
(SK-HU) ✓

PREVCOM
(SK-HU) ✓

PRE-SAFE
(HUSKROUA)

ERGODIC
(HUSK)

RISKHUB
(SK-HU) ✓

PREP-R
(W-Balkan) ✓

HUSKRISK
(HUSK)

CB RISKOP
(HUSK)

InDiMaND
(Interreg DRP)

iProve ?

Interreg HUHR ?

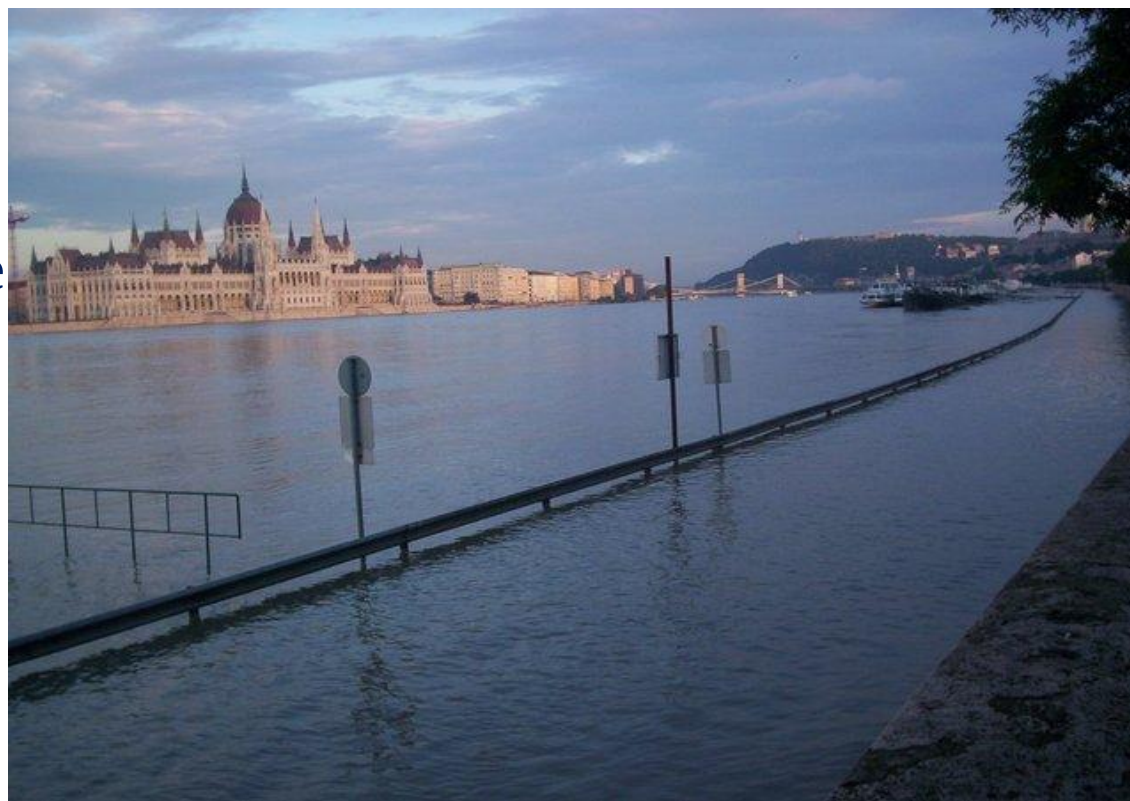
Interreg ATHU ?

Interreg SRBHU ?



1371 volunteer firefighters of **158** volunteer fire brigades
from within the Carpathian Basin

Highest water level
of the River Danube
at **891 centimetres**





To provide trained first responders and engaged third parties with **situation-specific** and relevant **safety and security** guidelines on the spot (and in advance)

Target group:

▣ trained first responders:

- career first responders,
- volunteer first responders;

▣ engaged third parties:

- career practitioners (public utilities, industrial/technological foremen)
- spontaneous volunteers





- **situation-specific**, relevant **safety and security** guidelines
- **in advance**: prior to briefing (via individual learning, preferably eLearning)
- **on the spot**: prior to entering **work** or **danger zone**
- Verification (testing/MobilApp)

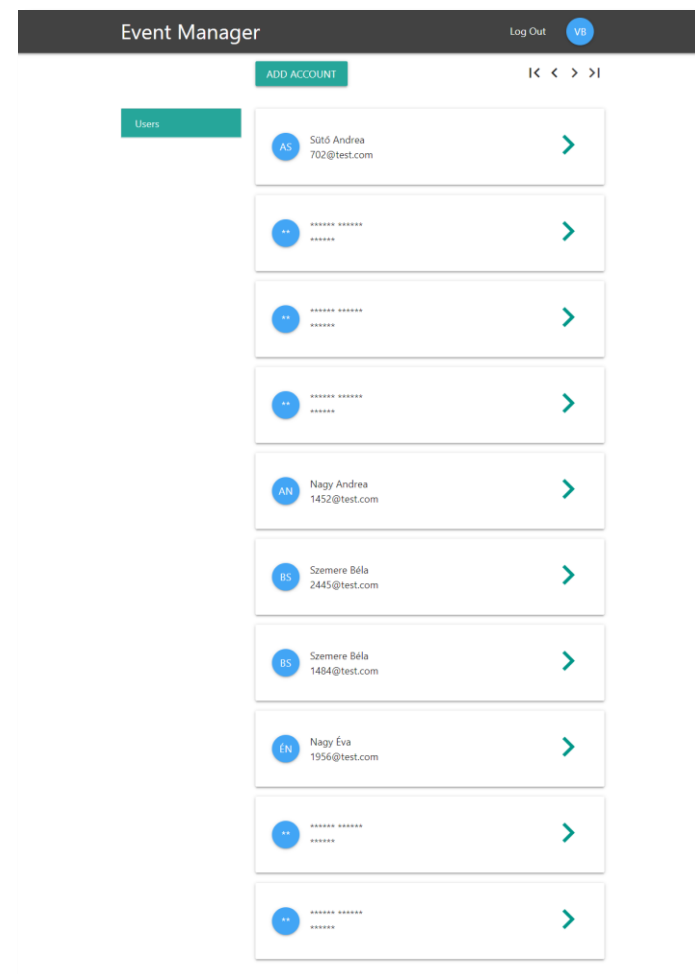


Critical Infrastructure Work Safety Log

- Standardized just-in-time training for **situation-specific** and **safety and security** guidelines
- Knowledge sharing
- Identifying good practices
- Develop recommendations



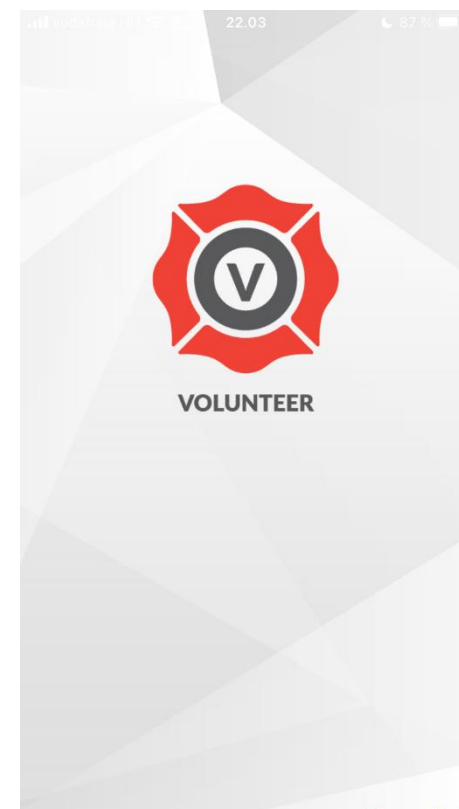
**Disaster Management Network
in the Danube Region (DiMaND)**



Volunteer Event Manager is a mobile application and related web application to

- ☐ create and publish events
- ☐ manage participants
- ☐ manage capabilities
- ☐ manage notifications

Currently available in English,
Hungarian, Romanian and Slovakian
Coming up in Slovenian



The application handles:

- Different types of events
like mission, training and conference
- Organizations in fixed hierarchy
following the chain of command
- Predefined capabilities
both personal and organizational

Budapesti Tűzoltó Szövetség 🔍

- ▼ Kárpát-medence
 - ▼ Magyar Tűzoltó Szövetség
 - ▼ Budapesti Tűzoltó Szövetség
 - Inkvizítor
 - Budapest ÖTE
 - > MAGOR Egyesület
 - Román Tűzoltó Szövetség
 - Szlovák Tűzoltó Szövetség



In the web application

Administrator manages members and capabilities

Event Manager Events Organizations Users EN ▾

Budapesti Tűzoltó Szövetség ▾ + Add new child org. ▼ Show details Capabilities Members

+ Add capability

Category	Description	Valid from	Valid to	pcs		
személyszállítás (9-18 fő)	18 fős busz	2021-07-05	2022-07-05 🔔	10	Edit	Delete
személyszállítás (9 főig)	Renault Traffic kisbusz	2021-06-15	2022-07-05 🔔	3	Edit	Delete



In the web application

Organizer manages events by

- ☐ creating and publishing events (sending invites to selected audience);
- ☐ accepting/refusing participants and capabilities allocated to their event;
- ☐ allocating capabilities to events of others;
- ☐ escalating the event to a higher level, if needed.



In the mobile application

Users/Volunteers:

- ❑ Get notification & alerts of events
- ❑ Confirm participation with one click
- ❑ Define when they can arrive and how long they can be available in case of a mission

The screenshot shows the MobilApp interface on a mobile device. At the top, the status bar displays 'vodafone HU', signal strength, Wi-Fi, time '18.14', and battery '27%'. The app header is blue with a back arrow, 'Events', and the event title 'Wild fire in Bakony'. Below the header, there's a bell icon, the event title 'Wild fire in Bakony', the date and time '2021.09.27. 18:13 – 2021.09.28. 22:13', and the organizing body 'Magyar Tűzoltó Szövetség'. A section titled 'Register as a member of' contains three radio button options: 'Magyar Tűzoltó Szövetség', 'Budapest ÖTE', and 'Budapesti Tűzoltó Szövetség'. Below this, there are two sliders: 'Arriving in 6 hours' with a slider set to approximately 6 hours, and 'Available for 12 hours' with a slider set to approximately 12 hours. At the bottom, there are two buttons: 'I WILL ATTEND' (green) and 'I WON'T ATTEND' (red).



Practice-oriented eLearning platform for firefighters

<https://training.darescue.net/login/index.php>

12 modules available in English, Hungarian, Romanian, Slovakian (6 in Serbian): Medic 1 and 2, Work Safety, HNS, International disaster response basic and advanced, Command system for eliminating forest fires and floods Training methods, Small Machinery, Water rescue, Diving, Flood response in practice (Slovenian coming up in 2024)

Coming up in 2024: 2 modules in Interreg SIHU and

Coming up in 2025: 2 modules in Interreg DRP Safety4TMF (Tailings Management Facilities)

Practice-oriented eLearning platform for first responders

<https://training.darescue.net/login/index.php>

eLearning modules	En	Hu	Sk	Srb	Slo	Cz	Ukr	Ro
International Disaster Response 1	✓	✓	✓	✓	✓	✓	✓	✓
International Disaster Response 2	✓	✓	✓	✓	✓	✓	✓	✓
Tactics	✓	✓	✓					✓
Medic 1	✓	✓	✓	✓				✓
Medic 2	✓	✓	✓					✓
Work Safety	✓	✓	✓					✓
Rescue Diver	✓	✓	✓					✓
Water rescue	✓	✓	✓					✓
Wildfires	✓	✓	✓	✓				✓
Small Machinery	✓	✓	✓	✓				✓
Training Methodology	✓	✓	✓	✓				✓
Flood response	✓	✓	✓	✓				✓

Understanding each other in the Danube Region 679 terms

Glossary	En	Hu	Sk	Srb	Slo	Cz	Ukr	Ro	Bg	Cro	Ge	Bosni an	Characters	Terms
Internal Disaster Response (59)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	18200	59
Climate change related risks (104)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	31700	104
Flood response (109)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	29300	109
Water rescue (32)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11300	32
Work Safety (26)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8100	26
Rescue Diver (20)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4400	20
Small Machinery (228)		✓												228
Tactics (36)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8300	40
Medic (36)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7700	36
Training Methodology (28)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6800	28

<https://disastermanagement-danube.net/glossary/>

The Future: eLearning



Browser tabs: RISKHUB II - j... (238) TAYLOR... Vevői fiók - JU... Vevői fiók - JU... Vevői fiók - JU... Vevői fiók - JU... Angol nyelvű... +

Address bar: Nem biztonságos <https://training.darescue.net/mod/h5pactivity/view.php?id=36> Újrindítás a frissítéshez

Search bar: Minden könyvjelző

Language: magyar (hu) Budapesti Tűzoltó Szövetség

Left sidebar:

- Angol nyelvű anyagok
- Résztvevők
- Készségek
- Osztályzatok
- General
- Learning materials**
- Irányítópult
- Portál kezdőoldala
- Naptár
- Saját állományaim

Table of contents:

- International disaster r...
- Opening screen
- Table of content
- 1. Introduction
- 2. Disaster mana...
- 2.2 Civil protecti...
- 2.3 Humanitarian...
- 3. Actors on the ...
- 3.2 UN OCHA
- 3.3 International ...
- 4. Disaster respo...

Course content:

Welcome to the course!

Time required to complete the lesson: 3 hours

We wish you a good time!

A tananyagok az Európai Biztonság Polgári Védelemért és Humanitárius Ügyekért Felelős Főigazgatósága (DG ECHO) által támogatott, 101017998 kódszámú PROFOUND „Procedures of Rescue Organizations in Flood Operations Unified in the Danube Region” című projekt keretén belül készültek.

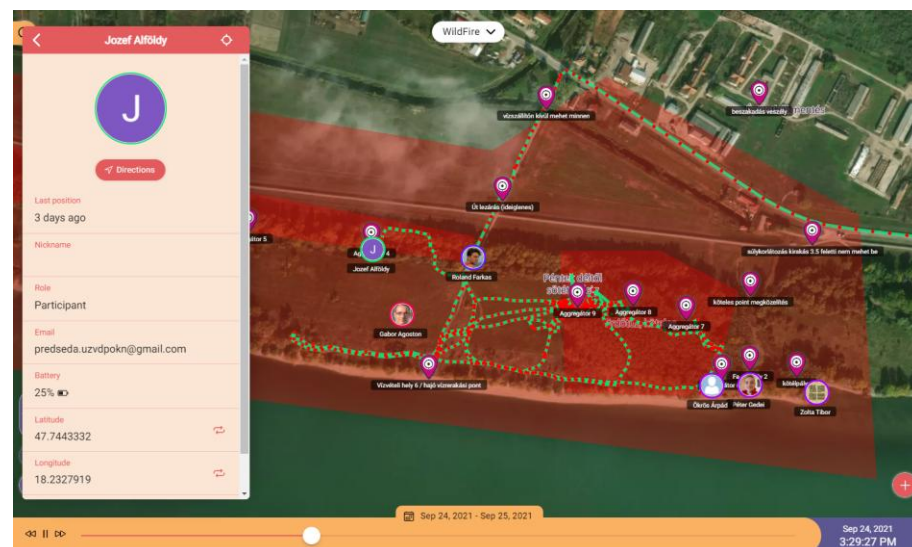
A projekt az Európai Unió támogatásával valósul meg.

Funded by the European Union

Taskbar: Írjon ide a kereséshez, 100%, 9°C, 6:37, 2024. 03. 01.

Exercise control (started)

- Scenarios: floods, wildfires, storms
- Target organizations:
 - ▣ governmental and non-governmental
 - ▣ civil protection/fire&rescue + humanitarian / charity
- Method: participant-driven, continuous



The Future: eLearning



Browser tabs: RISKHUB II - j... (238) TAYLOR Vevői fiók - JU Vevői fiók - JU Vevői fiók - JU Vevői fiók - JU Angol nyelvű

Address bar: Nem biztonságos <https://training.darescue.net/mod/h5pactivity/view.php?id=46#h5pbookid=157&chapter=h5p...>

Navigation bar: Budapesti Tűzoltó Szövetség magyar (hu) Budapesti Tűzoltó Szövetség

Left sidebar menu:

- Angol nyelvű anyagok
- Résztvevők
- Készségek
- Osztályzatok
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Questions

Choose the correct answers among the personal conditions of risk management.

- ☐ proper physical and mental condition
- ☐ work safety knowledge
- ☐ personal protection equipment
- ☐ proper commandship
- ☐ driver's licence for trucks
- ☐ specialist knowledge

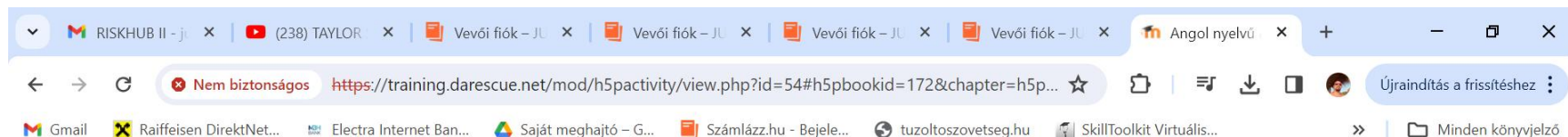
☒ Check

Choose the wrong answers among the technical conditions of risk management.

- work safety knowledge

Windows taskbar: 6:38 2024. 03. 01. 9°C

The Future: eLearning



Budapesti Tűzoltó Szövetség magyar (hu)

- Angol nyelvű anyagok
- Résztevők
- Készségek
- Osztályzatok
- General
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- Saját állományaim

- 9. Practical met...
- 10. Response t...
- 11. Protection o...
- 12. Elongated d...
- 13. Elongated d...
- 14. Elongated d...
- 15. Coffor-dam
- 16. Flood prote...
- 17. Protection a...
- 18. Leakage
- 19. Leakage types

Flutschutz double-chamber tube (T) 	Hydrobaffle (T)
Mobildeich (T) 	Öko-Tec tubewall (T)
Tiger Dam (T) 	AQUARIWA (B)
INDUTAINER(B) 	aqua defence (TR)

6:40
2024. 03. 01.

The Future: Hybrid Trailer



Capability to tackle

- floods and flashfloods
- emergency first aid
- wildfires
- storms



The Future: Hybrid Trailer 3.0



Experiences from Earthquake Response to Turkey

- Solar panels
+ inverter
+ storage capacity
- Rear panel with ramp
- Equipment hauled
on trolley cars
- Reinforced axle
(1 200 kg) but still max. 750 kg.



The Future: Mobile Camp



Mobility for crew of 40

- 4 minivans + 4 hybrid trailers
- 2 pickups + 3 tents for 8-12
- Mobile Comm Centre for 6-8



The Future: Hybrid Trailer Beta



Description	Qty
Chainsaw MS170	1
Chainsaw MS291	1
Generator Heron 25 kW	1
Pump Heron 300l/min	1
Pump Heron 600l/min	1
Pump Heron 1100l/min	1
Suction hose "B" m	10
Suction hose "C" m	10
Led reflector	4
Cable reel 30m	4
Axe L 90cm Hecht	1
Axe S 45cm Hecht	1
Branch cutter	1
Handheld saw	1
Backpack extinguisher 20 L Ermak	2
B 75 hose GH Titan 3F - 20m	8
C 52 hose GH Titan 3F - 20m	8
D25 hose GH Titan 3F - 20m	8
Distributor holder	2

Coupling B	4
Coupling C	2
Coupling end B	8
Coupling end C	8
Distributor C D D	2
Distributor B C C	2
Nozzle D	2
Nozzle D combined	2
Filter basket B	1
Filter basket C	1
Gorgui tool	2
Pulaski	2
Wildfire backpack	2
Shovel	5
Spade shovel	5
Fire hydrant key	2
Hose patch cuff C	2
Hose patch cuff B	2
Adaptor C-D	1
Board /nittrauma + 3 pairs of adjustable harnesses/ 150 kg (M/16005)	1
Medic bag	1

Refugees from the Ukraine (1)



Experiences and Good Practices in Hungary

- Outmost stakeholder willingness and readiness (NGOs, governmental agencies, municipalities, charities, civilians)
- Fragmented road structure in Szabolcs-Szatmár-Bereg
- Dynamically changing influx of refugees
- Local „strongholds” in Beregsurány and Kisvárda
- Minivans from 10 county firefighter associations



Refugees from the Ukraine (2)



Potential Regional Cooperation in Humanitarian Response (Hungary-Romania-Ukraine)

- Expedite customs clearance for humanitarian aid
- Improvised logistics
- Sharing logistics capacities
- Donation of BFA minivan



Earthquake in Turkey (1)



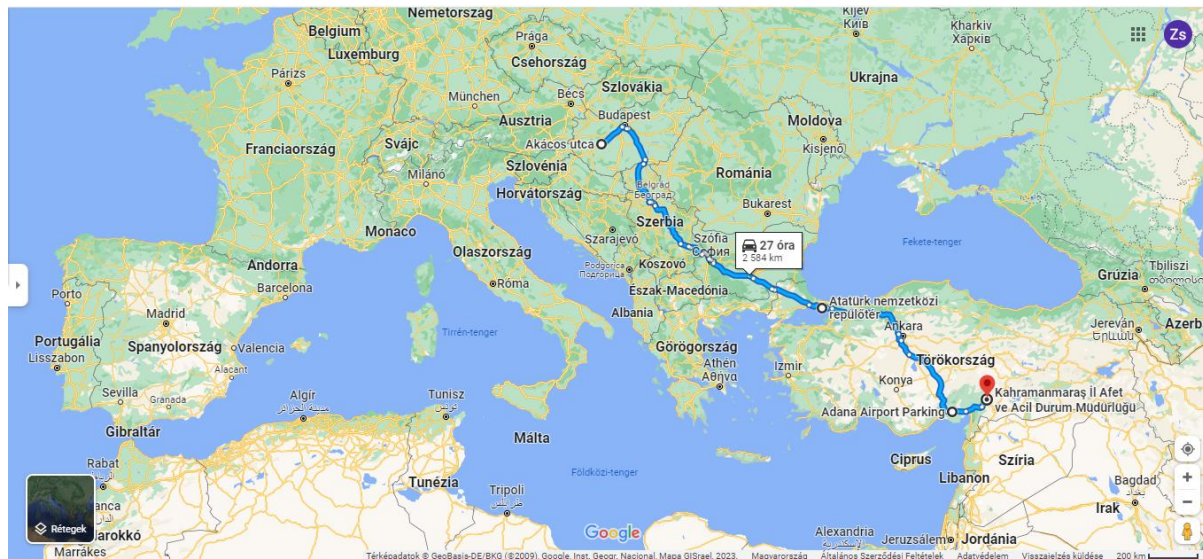
Turkey requested assistance via EU Emergency Management Centre online surface at 04:47 on 6 February 2023. HUNOR and Budapest Rescue Organisation with Assistance from Catholic Caritas as the largest volunteer rescue organisation responded from Hungary along other volunteer units totalling to 187 responders.



Earthquake in Turkey (2)



The journey, nearly 2600 km and 40 hrs - police escort in Bulgaria and Turkey (Tuesday)



Earthquake in Turkey (3)



Big Day. Thursday. Installation. Marking. H1 ASR 2 Hun-13 green (active)





Thank you for your attention!



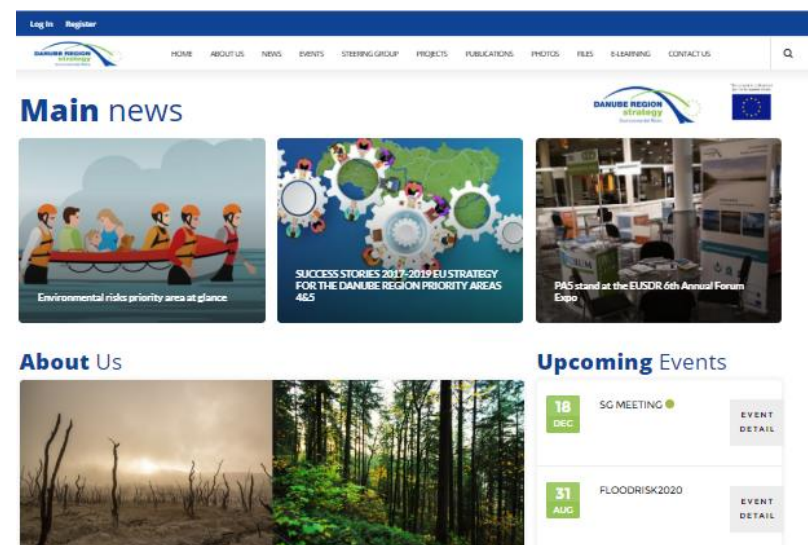
DARescue organisation:

www.darescue.eu

www.darescue.net

budapest@tuzoltoszovetseg.hu

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<https://environmentalrisks.danube-region.eu/>

