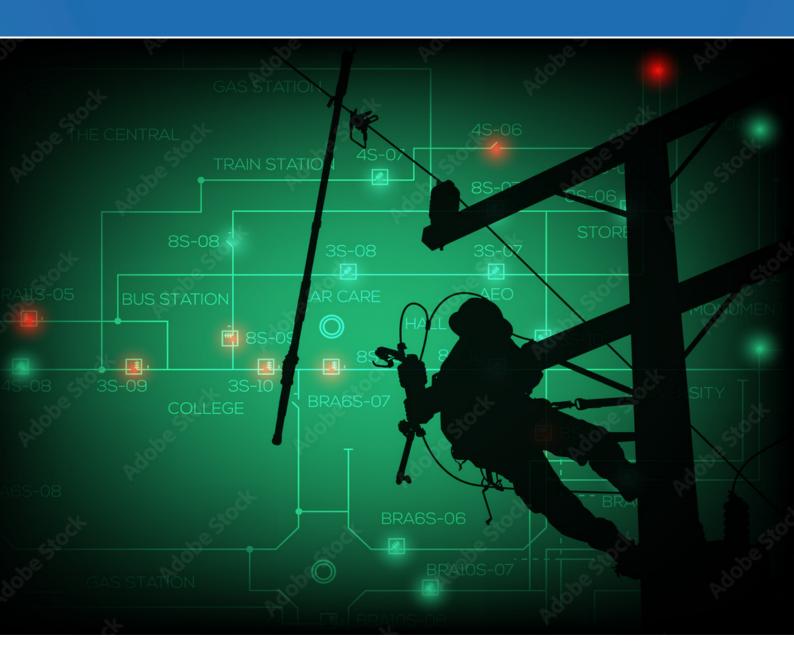
5IMEX 2022 23. - 25. March 2022 Project INDIMA



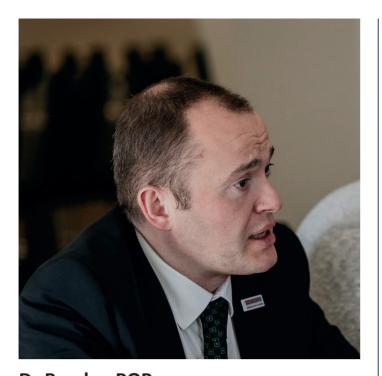












Dr Bogdan POP Deputy General Director Department for Emergency Situations, Romania

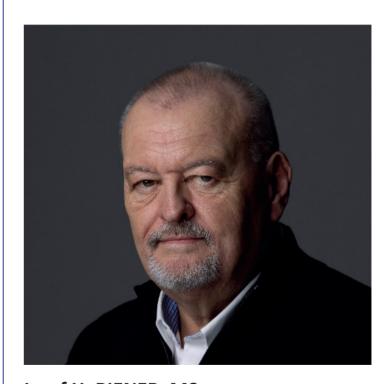
"The simulation exercise to be held in March 2022 in Timisoara, Romania, is the test of the network concept, one of the main results of the project INDIMA, funded by the European Union.

We strongly believe that the SIMEX will bring very important inputs, not only to the project INDIMA, but also for the improvement of the information management in Disaster Risk Reduction."

"The landscape of Disaster Risk Management has significantly changed within the last decades. Civil Protection autho-rities had to deal with some state-owned enterprises, but nowadays a lot of providers of critical infrastructure and private stakeholders need to be integrated.

Developing a process to manage disasters and crises effectively is the objective of project INDIMA.

We researched needs and stakeholders, drafted the network concept, test it now in a simulation exercie and confirm it at the final workshop."



Josef H. RIENER, MSc INDIMA Project Manager, publiComm GmbH



























SIMEX Report



As of 31 March 2022

Work package	Work package 6	
Number	D6.7 SIMEX eval report	
Means of verification	Report	
WP lead:	MINISTRY of INTERNAL AFFAIRS GENERAL DIRECTION FOR MEDICAL EMERGENCIES (COO)	
Implementing entities	Hungarian Red Cross, (BEN) iHELP Institute, Poland (BEN) Publicomm GmbH, Austria (BEN)	
Due Date	M15	
Description	SIMEX report, PDF file and Brochure, Min. 6 pages A4, English.	

There are 2 SIMEX reports:

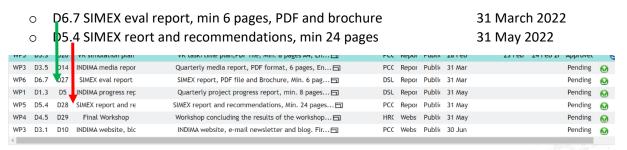


Photo credits © 2022:

- ✓ Tamara Vukov Photography, tamifoto.hu
- ✓ Laurențiu Lazea Inspectoratul pentru Situații de Urgență "Banat" al Județului Timiș













1. Setup of the SIMEX

At the two pre-exercise meetings of the project (one scheduled and one additionally conducted) the exercise could be prepared as good as possible.

PEM1: 25. – 28. October 2021, Békéscsaba

PEM2: 3. – 4. February 2022, Timișoara

Virtual Reality supported simulation table-top exercise

- ✓ with all relevant actors,
- ✓ Wednesday, Thursday, Friday,
- ✓ to simulate the mission cycle in a "Blackout" situation.

No 24/7 exercise setup and no testing or validating of Civil Protection staff and participants in any way.

The aim of the SIMEX is

- ✓ to test the implementation of the developed checklists,
- √ find improvements for the checklists, processes and handbook,
- ✓ to gain knowledge for the practise.

The consortium partners contributing to the SIMEX:

DSU: administration, organisation, VIP service, venue and evaluation
SMURD-F: scenario and VR injects
iHELP: EXCON, injects cell and supervision
ISU Timiș: participants
HRC: role-player and trainer
PCC: project and exercise support, social media and documentation

Covid and war in Ukraine

On one hand, the Covid-19 pandemic made it necessary to hold a second PEM on short notice in February in Timişoara to clarify the safety measures and possible restrictions on-site.

The second unexpected risk was the war in Ukraine, beginning three weeks before the SIMEX. DSU, HRC and the experts of iHELP, most professional members of the Polish State Fire Service, were active in the response activities. Therefore, many pre-planned participants of the SIMEX were not able to be in Timiṣoara, because they were working in different roles to cope with the refugee crisis.













2. INDIMA network concept and matrix

The aim of the project INDIMA is to develop a network concept and checklists to integrate the "new stakeholders" in DRM:

The aim of the network concept is:

- ✓ Identify/Reduce Risks, Critical Infrastructure, stakeholders,
- ✓ Integration of all relevant actors in DRM management,
- ✓ Preparedness of all actors and operational readiness,
- ✓ Integrated Response in accordance with Strategic Priorities,
- ✓ Recovery and restoring or continuing operations,
- ✓ Develop checklists for a Disaster Risk Management Handbook.

The realisation of the SIMEX in Romania and the translated network concept:

To avoid misunderstandings due to language deficits, we translated the network concept into Romanian language, done by an experienced field officer, Col Artur Vladimir Sedei.







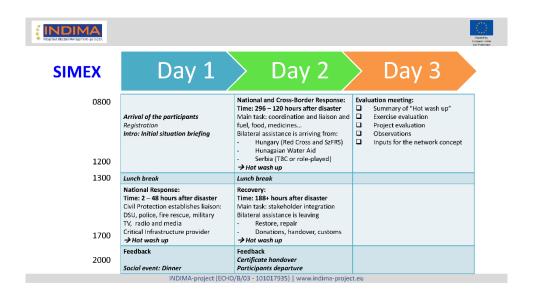




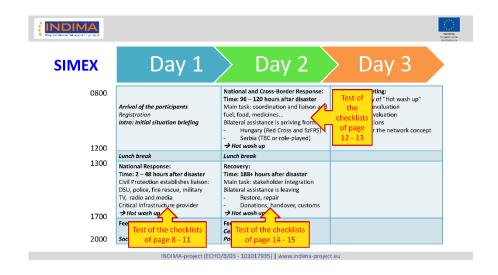




3. Schedule of the SIMEX



These steps of the DM cycle will be simulated to test the network concept



Scenario update to "freezing rain"

The scenario of the SIMEX was changed due to a negative TV report about a blackout situation. Nevertheless, the Project Director and the Project Manager agreed, to change the initial situation to a severe weather scenario.

The night before the SIMEX all injects were adapted to the new initial situation of freezing rain. This could be managed by the SMURD foundation and the PCCmedia manager.













4. SIMEX participants

76 registered persons (participants, staff and role-player) attended from 4 EU states

Austria	1
Austria	4
Hungary	6
Poland	2
Romania SIMEX participants	39
Romania VIP	5
Romania staff	11
Romania evaluators	3
Romania VR team	6









The participants at the certificate handover















5. SIMEX preparations:

SIMEX, the simulation exercise of the INDIMA project has the aim to prepare the participants for challenges in disaster management and the integration of all relevant stakeholders. The use of contemporary tools like virtual reality injects and situations and the newly developed network concept makes the exercise very realistic and cost-effective.





The SIMEX was supported by VR (Virtual reality) simulations of scenarios and injects to test the network concept. The two-day table-top exercise was going from phase I (national response) to phase II (national and cross-border response) to phase III (recovery), followed by day 3 (SIMEX evaluation).





SIMEX, the simulation exercise of the INDIMA project has the aim to prepare the participants for challenges in disaster management and the integration of all relevant stakeholders.





Two clear innovations have been presented at the SIMEX: the network concept and the full-on VR relying "dynamic" inject management for the simulation.





☐ The IESJ TM (local CP) radio network and e-mail is OK, but overloads can occur



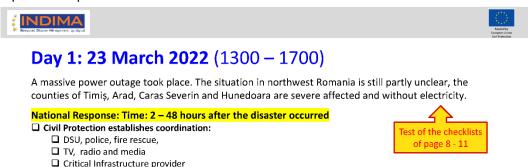






6. Day 1 – national response:

In the SIMEX the disaster managers from ISU (Inspectorate for Emergency Situations, Timis County) have to cope with a series of disaster situations to test the network concept and find inputs for improvement.



Expected outcome: Early warning/alert of the population Outcome: Situation overview and management Initial decisions o Emergency actions: save lives Coordination meeting w. Damage mitigation stakeholders and utilities o Frequent coordination and update with DSU ops-centre's priorities Establish liaison w. o Establish liaison cell/persons stakeholders o Identify safe routes and staging areas **Networking with ALL**

Start of the SIMEX: briefing of the participants for the simulation exercise of the INDIMA project. There will be three sessions, today we start with the response phase to test the network concept in a severe weather-related emergency.

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From 1200 UTC on we had a live stream of this event on our Facebook page.

















7. Day 2 – cross border response:

The SIMEX runs at two levels: on-site the commanders of Inspectorate for Emergency situations, Fires rescue, SMURD and Salvarea (ambulance service) are leading the incidents. On the level of Timis county, the CJCCI (Country Center for Intervention Command and Control) is working with the general common operational picture and implements the inputs from the on-site commanders. There they are testing the usefulness of the INDIMA network concept.





Day 2: 24 March 2022 (0800 – 1200)

The Northwest of Romania is still partly since one day without electricity, the counties of Timiş, Arad, Caras Severin and Hunedoara are severe affected and working to fulfil the basic needs...

Cross-Border Response: Time: 96 - 120 hours after the disaster occurred

- ☐ Main task: National: coordination, liaison and fuel, food, medicines...

 Cross-Border: integration of bilateral assistance arriving from:
 - ☐ Hungary (Red Cross and SzFRS)☐ Serbia (TBC or role-played)

Test of the checklists of page 14 - 15

Expected outcome:

- Establish liaison with cross-border assistance forces and liaison persons
- Traffic control
- Secondary threats
- o Anticipated evolution, short and mid-term developments
- o Restore public services and security
- o Frequent situation updates
- o Documentation

Outcome:

- Clarification w. cross
- border assistance offers
- Coordination meeting w. stakeholders and utilities
- Coordination meeting w.
- cross border assistances
 Networking with ALL

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A cross-border response inject is simulated. Liaison officers from a joint Hungarian and Austrian Red Cross EMT 1 are arriving at the CJSU and discussing options for assistance.















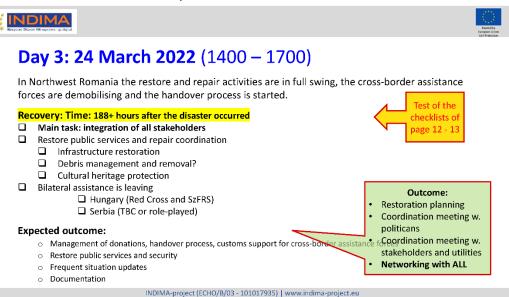






8. Day 2 – recovery:

Discussions in the County Committee for Emergency Situations. Police officers, authorities, ambulance service, county government and private companies as stakeholders are working with the INDIMA network concept



The cooperation between Civil Protection authorities, emergency services, utilities NGO and private stakeholders is increasing to restore critical infrastructure and protect cultural heritage.





















9. Evaluation:

From the proposal:

In March, the two-day lasting SIMEX will be conducted, due to have enough time for the evaluation and interpretation of the findings and lessons learnt. This VR supported simulation table-top exercise with all actors will simulate the disaster risk management process, test the implementation of the checklists and gain knowledge for the practise.









The evaluation phase includes a formal exercise evaluation, an integrated analysis, and an evaluation report that identifies strengths and areas for improvement, as observed during the exercise. This also includes the opportunity for participants to provide dynamic feedback on the exercise.

10. Day 3 -Evaluation meeting:

- ☐ Summary of "Hot wash up"
- Exercise evaluation
- Project evaluation
- Observations
- ☐ Inputs for the network concept

11. The final workshop in May

In 16.May 2022, the final recommendation workshop will be conducted as the meeting. From the findings of the workshops and the SIMEX, the final workshop will be organised as a hybrid workshop with the opportunity to have independent experts and consortium members as participants.

The aim is to validate the projects results and finalize and publish the final INDIMA concept and recommendations out of the lessons identified from the former conducted workshops and simulation exercise. The release the final network concept will be confirmed by experts at this final workshop to be published as the outcomes of the project.













12. Exercise Control Team

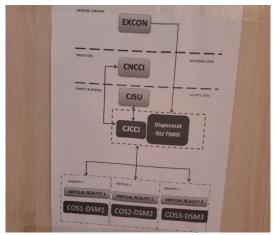
The consortium will provide a professional exercise control (EXCON) team that will assist the Chief Exercise Controller during the SIMEX.

The exercise management is a component of the overall project management used to carry out the activities needed to execute the SIMEX successful. The used exercise management cycle involves four phases, which are collectively known as the exercise cycle.

Conduct of The SIMEX:

Exercise conduct involves scenario planning, managing injects, and conducting immediate exercise wrap-up activities. Throughout these efforts, the engagement of elected and appointed officials by practitioners will ensure that the exercise is addressing the guidance and intent of civil protection officials. Injects will stimulate the dynamic of emergency activities and will test the coordination and interoperability of all actors involved.

37 exercise staff and 39 participants is not a bad relation even in a tabletop exercise. But given the circumstances, that this exercise played in three phases and exclusively with VR based injects it was an outstanding result for the approach of the project INDIMA: **going digital**









The inject simulation stations:

The graph shows the exercise organisation with 3 VR simulation inject cells. These cells were manned by two experienced VR operators with much field experience. Opposite them were a commander (fire officer from ISU) a doctor from SMURD (Romanian EMS and extrication team), and an incident commander from Salvarea (Romanian ambulance service) to make decisions on-site and report to the County Committee for Emergency Situations. The CJCCI took their decisions using the assistance, given by the INDIMA network concept.













13. Exercise Support Team

Not one event would be successful if there were no invisible actors, to keep any exercise running. That starts at the hotel and participants management, decoration, safety and security, venue cooperation, preparations of the certificates and service for VIP and staff management.

Next to mention is the role-player, from own structures, other organisations and neighbouring states.

Visibility of the project, the SIMEX itself and the funding body: European Commission, Civil Protection via photo documentation, video clips, social media has to be maintained.

Without VR the exercise would have been an "old style" tabletop, therefore, VR technicians and creators of scenarios get the honour.













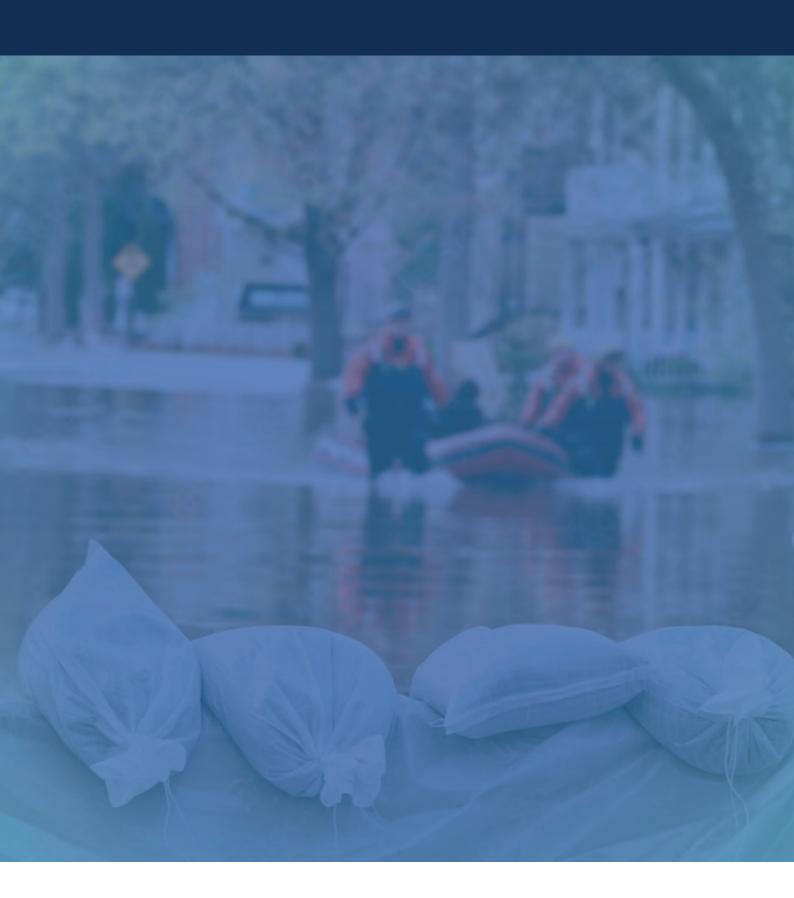
There is a lot of people to be thanked for their commitment and their contributions to the exercise, last but not least the participants who committed themselves and their experience to help to develop the project and the concept!

Partner Roles and Responsibilities

ATA, L	Ministry of Internal Affairs Department for Emergency Situations Coordinating Partner	GO: project lead, reports, representation, conduct and evaluation of the SIMEX
Publicomm GmbH Consortium Partner		SME: Planning and activities, communication, and visibility, Virtual Reality Simulation
MAGYAR VÖRÖSKERESZT HUNGARIAN RED CROSS	Hungarian Red Cross Consortium Partner	NGO: research, online survey, and workshops
iHELP INSTITUTE	iHELP Institute Consortium Partner	NGO: SIMEX scenario and schedule, EXCON staff
CONSIGNACY	Subcontracted expert	Quality and risk management
MURO	SMURD FOUNDATION Subcontractor	Virtual Reality Simulation Exercise setup and management

Linked Third Parties

+	Austrian Red Cross	LTP are supporting with their expertise, contributing experts, nominate	
EUDAPEST WATTOWNDAYS	Budapest Water Works		
	Szeged volunteer fire and rescue service	SIMEX participants and qualified role-players.	





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Project duration: 18 months
Programme: UCPM
Responsible Unit: ECHO/B/03

