SAFE STADIUM

Integrated large sport facilities protection system supporting the CBRN security of mass events



Integrated large sport facilities protection system supporting the CBRN security of mass events (Safe Stadium)

Objectives, aims, ambitions, role of FPG

Justyna Karolina Kielar on behalf of

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Basic information

- Duration: 24 months (1.06.2021 31.05.2023)
- Budget: 3 326 880 EUR
- Call: Internal Security Fund Police ISFP-2020-AG-CT-PROTECT
- Website: https://safe-stadium.eu/
- 14 partners form 5 European countries:





Research & technology experts

- University of Lodz, PL (leader)
- International Security and Emergency Management Institute; SK
- Dynamic Safety Corporation, PL
- Università Cattolica del Sacro Cuore, IT
- National Institute of Aerospace Technology, ES

Sport facilities

- Real Madrid FC, ES
- Lech Poznan, PL
- MSK Zilina, SK
- City Arena of Culture and Sport, PL

LEA, security, training experts

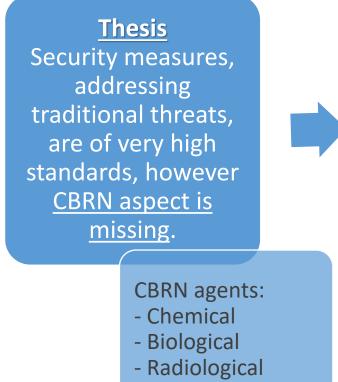
- SERIS Konsalnet, PL
- Hochschule f
 ür den öffentlichen Dienst in Bayern, DE
- Spanish National Police, ES
- Lodz Regional Police, PL
- Warsaw Metropolitan Police, PL







Project rationale and aims



- Nuclear

<u>Thesis verification</u>: desk study & regulatory research, working visits and surveys with representatives of sport facilities. <u>Solution</u> Improving the CBRN protection of large sports facilities by applying the best available practices & newest technologies.

Proposal of:

- regulatory changes & procedures
- training activities
- best practices in management& infrastructure





Real Case Scenarios to need to consider – CBRN Safety and Security

Coronavirus: Champions League match a 'biological bomb' that infected Bergamo 19 FEB 2020



Coronavirus: Champions League match a 'biological bomb' that infected Bergamo, experts say

Atalanta's home game with Valencia was held two days before the first case of locally transmitted COVID-19 was confirmed in italy.

By Russell Hope, news reporter

③ Ihursday 26 March 2020 13 14, UK



Chlorine leak at the London Aquatics Centre 23 MARCH 2022



Olympic Park: Major gas leak incident at London Aquatics Centre



Twenty-nine people were taken to hospital with breathing problems and a major incident was declared following a gas leak at the London Aquatics Centre. Unauthorized Drone during football match – English League; Brentford – Wolwerhampton 22 JAN 2022

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Brentford vs Wolves: Drone stops play at Premier League match for 20 minutes in first half

Players at Brentlord Community Stadium had to be taken off the pitch due to a drone hovering above the stadium; game was suspended for around 20 minutes before it resumed with the drone having flown off

(1) Setturday 22 January 2022 19-10, UK







Research & Analysis (WP2)



SearchGate NATO OTAN Project on Ninimum Standards and Non-Binding Guidelines First Responders Regarding Planning, Training, Procedure and Equipment for the Manager Petroary 2015 Healths OOT 10 108m 20140 Planning, Training, Procedure and Equipment for Chemical, Biological, Radiological and Nuclear (CBRN) Incidents THE IN Well Catter Petroary Point Center UEFA Stadium Infrastructure Regulations

Desk research

- Analysis of best practices
- Over 100 documents (law, regulations, training schemes, EU projects)



Surveys

- Project partners (initial + in-depth)
- Additionally: 95
 EU responders & 14 Polish sport facilities



Study visits

- Observation of procedures during events
- 5 football stadiums
- 1 multipurpose arena
- 1 motocross arena







Research & Analysis - study visits









Research & Analysis – general conclusions

Gaps in the area of prevention, preparedness and response to a CBRN attack/incident and recovery from such attack/incident:

- There is **no audit tool** for identifying weaknesses focused on CBRN risks.
- Policies, plans and procedures are sometimes not required by law and are frequently simply not there.
- CBRN knowledge and awareness is low.
- CBRN training and exercising is **minimal** and the level of capabilities is generally **low**.

The project report include comprehensive list of gaps, needs as well as set of over 30 recommendations.





Project solutions



Procedures, tools, plans and guidelines (WP4)

- CBRN procedures, tools, plans and guidelines
- Evacuation & crowd management guidebook
- CBRN-MED for sport facilities
- Guidelines for recovering the facility after CBRN act

CBRN Safety system solutions

- Infrastructure, ICT, equipment (WP5)
- Guide to evaluate and improve sport facilities infrastructure
- ICT solutions analysis applicable for sports facilities
- Manual to define the needs of detection and protection equipment on site in mass events

- → Epidemiological response (WP7)
- Operating procedures,
- Contamination zones,
- Disease spreading models





FPG main contribution: Preparing guidelines for medical treatment, during and after the attack including triage of mass casualties of CBRN

From limitations

- Medical training for stewards is not the same in all EU;
- Some manouvers require certifications (at least in some countries);
- Good Samaritan laws vs.
 Duty to Rescue;
- Stewards can be victims too

Through objectives

- Suspect/recognize a Chemical event inside a Stadium;
- Inform correctly or as correctly as possible the Control Room or their Manager;
- Protect themselves and don PPE;
- Use a simple triage algorithm;
- Provide first aid

→ To the document

- Historical overview Cevents and Trauma in stadiums and arenas
- What can happen and the early management on the scene
- Triage and First aid by lay people
 - Airway
 - Breathing
 - Circulation
 - Major bleeding
- START Triage





Project solutions



Training materials (WP6)

Flexible training materials, addressed to staff responsible for security in the objects, but also to staff of national and international organizations. Three modes:

- (1) training curriculum supplemented with trainer's book and trainee booklets for regular training;
- (2) eLearning course combined with VR simulations and
- (3) blended learning.



Integrated CBRN protection system (WP3 & WP9)

A complete solution for sport facilities.







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https://safe-stadium.eu/



Project consortium









Thank you



The content of this presentation represents the views of the author only and is his/her sole responsibility. The European Commission does not accept any responsibility for use that may be made of the information it contains. This project is funded by the European Union's Internal Security Fund — Police. Project number: 101034226 — SAFE STADIUM — ISFP-2020-AG-PROTECT

Research & Analysis – Gaps



- 1. Missing policies, plans and procedures to prevent, prepare and respond to a CBRN attack/incident and to recover from such a CBRN attack/incident at stadiums / sport facilities.
- 2. Lack of a minimum requirement of having policies, plans and procedures to prevent, prepare and respond to a CBRN attack/incident and to recover from such a CBRN attack/incident at sport facilities by law / regulation (governmental, public, sport, football).
- **3. Very low level** and frequency of organisation and conduct **of training sessions** or exercises **about a CBRN** attack/incident at the stadiums/sport facilities.
- 4. Only a minimum of CBRN training has been organised for all target groups at the stadiums / sport facilities.
- 5. Level of CBRN capabilities at stadiums / sport facilities is low.
- 6. Level of CBRN knowledge and awareness of target groups, who are responsible for safety and security at stadiums / sport facilities is low.
- 7. Lacking a security audit form focused on CBRN risks to identify gaps in the protective security plans, systems, procedures and trainings.
- 8. Only minimal training to provide basic knowledge about CBRN threats, equipment recommendations, procedures on prevention identification, responding and recovery to CBRN incidents.







