

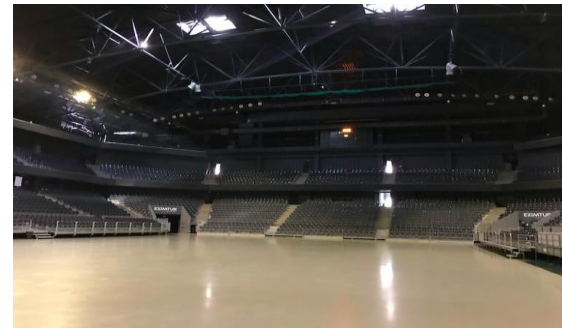


## EU Vulnerability Assessment Checklist – Practical Use

### DG HOME Unit D2

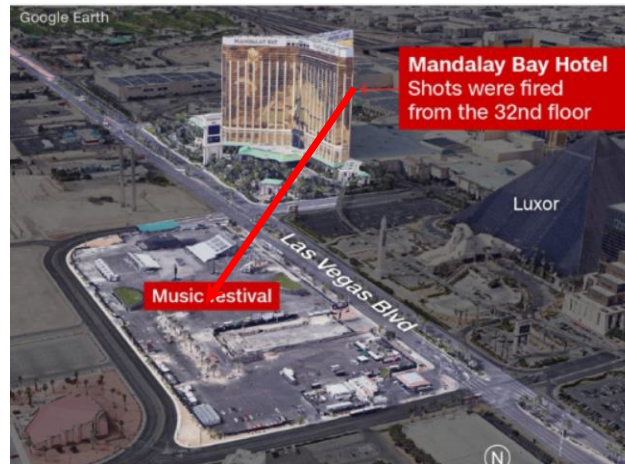
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## Where Can I Use the EU VAC tool






# Analysis of the detected vulnerabilities



## EU Vulnerability Assessment Checklist

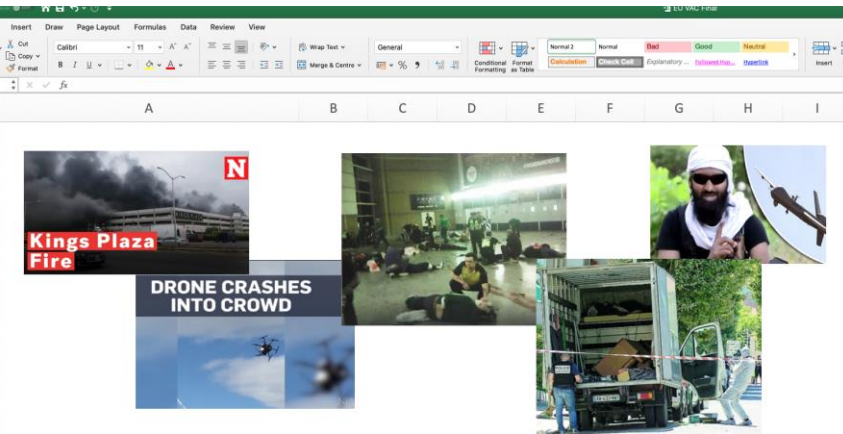
Fire arms attack - small caliber pistol or semi-automatic rifle (ing M40)	Sharp object attack - knives, machetes, other sharp and blunt objects	Vehicle Attack - use of vehicle as a weapon by ramming large crowds	IED (explosives) - left/controlled in objects or goods based on home-made or commercial explosives	PRIED (explosives) - explosive devices concealed on a person (sleeve or pocket)	SAVED (thrown) - remote controlled device - explosive CBR threats carried and delivered by a drone	attack - threat object concealed in goods or carried items (ex. Litvinenko case)	Chemical attack	Biological attack	Radiological attack - threat
<p><b>ILLUSTRATION EXAMPLE</b></p>  <p>Probability: 1 - m - h Consequence: 1 - m - h / risk: P x C ex. the shooter holding the high ground has an overview on his targets, difficulty to escape, possible stampede, ...</p>	<p>Probability: 1 - m - h / consequence: 1 - m - h / risk: P x C ex. the shooter holding the high ground has an overview on his targets, difficulty to escape, possible stampede, ...</p>	<p>Probability: 1 - m - h / consequence: 1 - m - h / risk: P x C ex. the shooter holding the high ground has an overview on his targets, difficulty to escape, possible stampede, ...</p>	<p>Probability: 1 - m - h / consequence: 1 - m - h / risk: P x C ex. the shooter holding the high ground has an overview on his targets, difficulty to escape, possible stampede, ...</p>	<p>Probability: 1 - m - h / consequence: 1 - m - h / risk: P x C ex. the shooter holding the high ground has an overview on his targets, difficulty to escape, possible stampede, ...</p>	<p>Probability: 1 - m - h / consequence: 1 - m - h / risk: P x C ex. the shooter holding the high ground has an overview on his targets, difficulty to escape, possible stampede, ...</p>	<p>Probability: 1 - m - h / consequence: 1 - m - h / risk: P x C ex. the shooter holding the high ground has an overview on his targets, difficulty to escape, possible stampede, ...</p>			
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## SECURITY MEASURES AND ACTION OPTIONS - TO BE CONSIDERED FOR EACH TYPE of SCENARIO

### APPROACH TO EVENT VENUE

- 1. ALERT.** Visual signs alerting public from parking or driving or approaching the specific zones, large signs alerting the public of approaching security controls (deterrent)
- 2. SURVEIL.** Placement of identifiable and covert Police vehicles. Use of Police UAV in the areas which have the largest vulnerability as a deterrent and surveillance tool.
- 3. RESPOND.** Deployment of special sniper units and other rapid response force. Deploy mobile patrols using unpredictable patterns. Place First Responder vehicles and teams.
- 4. PROTECT.** Placement of movable barriers to shelter the view of the public areas, placement of concrete barriers to mitigate against vehicle threats
- 5. DETECT.** Set up temporary explosive detection checkpoints to randomly search persons, use of mobile CBRN-E detection, use of explosive detection dogs and metal detection WMTD
- 6. OVERCOME.** If certain measures not available, use temporary solutions (ex. temporary deployment of CCTV (cameras) in the critical areas - even "fake" CCTV can result in deterrence)
- 7. IMPROVISE.** If physical protection (blocks, barriers) not available, use heavy Police or Security vehicles to mitigate against vehicle borne attacks (use of special patterns)
- 8. RESTRICT.** Closing off certain parts of road (closing the nearest lane) to prevent drive-by attacks using vehicle or motorcycles.
- 9. ADAPT.** Place nets over the vulnerable/bottleneck areas adjacent to the road to prevent that object (explosives, corrosives, etc.) can be thrown from passer-by vehicles (or UAV attacks)
- 10. Other measures**

# EU Aide Memoire - EU Vulnerability Assessment Checklist



EU Vulnerability Assessment Checklist for Public and Security Authorities

This document is EU Classified when forms are answered and completed.

- **VAC is an element of the Risk Assessment Process**
- **Individual tool for aid in assessment of different soft targets by operators**
- **Not an APP ! Yet....**
- **Graphical illustrations and ideas how to identify and measure vulnerabilities**
- **Full range of different threats and mitigation measures**
- **Concepts of the checklist were tested during NATO Security Summit and other Public Events 2017, 2018 and 2019. Distributed in April 2019.**

EU Aide  
Memoire



# EU Aide Memoire - EU Vulnerability Assessment Checklist - Content

Venue Security- Open Access														EU Vulnerability Assessment Checklist													
<p>This EU Vulnerability Assessment Checklist is for use only when Member State national authority competent for protection of public space recommends the use of such checklist or some of its content. The classification of assessed areas or any content pertaining to identified vulnerabilities becomes classified material and must be protected according to EU or National rules for handling of classified information.</p>														<p>This EU Vulnerability Assessment Checklist is for use only when Member State national authority competent for such checklist or some of its content. The classification of assessed areas or any content pertaining to identified vulnerabilities becomes classified material and must be protected according to EU or National rules for handling of classified information.</p>													
SUB-SET OF QUESTIONS														Threats and Attack Modes													
ILLUSTRATIONS EXAMPLES																											
CROWD DENSITY Considerations and Impact (PPSM - Persons Per Square Meter) Timing of Activity and Impact																											
ILLUSTRATIONS EXAMPLES																											
Are the location of controls posing a vulnerability and lead to high density of crowds? Could the design of such areas be re-designed by forcing the people movements into different channels? Could the location of the control points be located earlier on? In case vulnerable areas are identified, could such areas be sheltered by barriers or other objects/decoration etc?																											
Applicable Crowd Density Level 2 - 3 - 4 - 5 (circle)																											
Could any type of attack be carried out there the access points or at the main site (without accessing the site) with great loss of life by use of weapons/drones/other remotely controlled vehicles to attack or inspire panic? Could a Suicide attack be the potential mode? The Las Vegas attack resulted in the 51 victims died as result of a single bullet shot from 450 meters distance and therefore consider not just immediate buildings in your assessment. The attack lasted 11 minutes																											
Applicable Crowd Density Level 2 - 3 - 4 - 5 (circle)																											
Could any type of attack be carried outside the venue with a greater loss of life? Observe the Manchester Concert (and Turkey football attack) where the attack occurred at the end of the concert outside of security area? Could attack be facilitated by insider who could carry in and hide the tools to be used in the attack (ie. weapons, explosives, chemicals, automobile/truck etc.)? What are the controls for access for other visitors?																											
Applicable Crowd Density Level 2 - 3 - 4 - 5 (circle)																											
Could an attacker gain access to the main event site with a heavy vehicle by posing as a service staff (ie. pretends to deliver ice cream/fish to local restaurants) and use the vehicle as either as a weapon or to deliver threats (explosives, chemicals, firearms)? Could the vehicle be pre-positioned in the event area before the Police/security controls are established? Could such attack be possible? What are the controls for access to the event venue? Have you established a temporary vehicle parking registration regime for the area around the event?																											
Applicable Crowd Density Level 2 - 3 - 4 - 5 (circle)																											
The French authorities told German authorities that the terrorists might strike using an explosives-laden vehicle with official access to the football stadium, such as an ambulance, TV crew van or security patrol car.																											
Applicable Crowd Density Level 2 - 3 - 4 - 5 (circle)																											
DG HOME Cover Note														Threats Listings													
Phase 1 - Access roads to venue														Phase 2 - parking and transport													
Phase 3 - Approach to venue														Phase 4 - Arrival at venue													
Phase 5 - Venue no access ctrl														Phase 6 - Venue with access ctrl													
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# EU Aide Memoire - EU Vulnerability Assessment Checklist - Training

Excel Format - Paper and Laptop **version** not most practical

Tablet excel version more useful

EU Training on use of checklist is required





## EU Vulnerability Assessment Checklist Support



- Existing national pre-assessment activities (conducted prior to event as part of National standards)
- National threat assessment review
- Approach to venue
- Entry areas
- Within the arena
- Exit areas
- Authorized Vehicles staging areas
- Transportation connection points

Process Support

# EU Vulnerability Assessment Checklist – Content

Question Number	Pre-Assessment Questions	Detail if available
1	have there been any activities recorded/or reported by either the venue operator or other parties (tenants or users or general public) which appeared suspicious by nature and which have been reported either internally or to public authorities ? Have any public authorities investigations been carried out in respect of such reports ?	
2	have there been any activities near any/or connected to any areas which are being subject of the the assessment (any areas such as approach, arrival at venue, venue itself) ? Can you identify more critical hot zones that are of concern ?	
3	Have there been any attempts or activities to test the security measures, either accidental or appeared made on purpose ?	
4	Have there been any threats made against any of the operator or the parts/areas (ex. public garage used by the shopping mall or metro) ?	
5	Have there been any attempts to surveil any of the activities of the target venue that could be surveilled by UAV or other types of physical or electronic surveillance ?	
6	Have there been any labour associated actions that may cause the target venue be subject of a hostile action (change of security companies or maintenance or other labour disputes)?	
7	Are there any procedures that would allow detection of hostile surveillance at the target venue or areas outside which may be prone to a possible attack ?	
8	Have there been reports of hoax events that may have prompted deployment of crisis response or security measures ?	
9	Are there any known points near the critical person movement areas where know terrorist operatives or radicalised individuals are present ?	
10	Are you aware if the venue operator includes presence of individuals or entities representing a higher risk and which for that reason may be targeted (ex. shops associated with US or other high(er) risk countries ?	
11	Are there any areas which may be more exposed due to organised crime ?	
12	What type of electronic surveillance and alert mechanism exist to monitor the hot zones ? Are these tools effective enough to allow for live identification of potential threats or post incident investigations ?	
13	What types of temporary electronic (ex. UAV surveillance ) or physical surveillance could be effective (ex. human posting etc?)	
14	What types of awareness and alert mechanism exist that could identify potential threat (ex. human reporting, electronic apps, alarm mechanisms ?)	
15		



# EU Aide Memoire - EU Vulnerability Assessment Checklist - Content



Threat Type

Which Threats Should be Considered if Baseline Threat Level is Observed ?

1












Fire Arms attack (FAA) - small caliber pistol or semi/full-automatic rifle (eg AK47)	Bladed Weapon attack (BWA) - knives, machete, other sharp and blunt objects	Vehicle as Weapon Attack (VWA)- use of vehicle as a weapon by ramming large crowds	Explosives - Carried or concealed (IED)- left/concealed in objects or goods (based on home- made or commercial explo)	Explosives - Person borne (PBIED) - explosives concealed on a person (suicide or carrier)	VBIED (explosives) - explosives concealed inside a vehicle (or its cargo)	UAVIED (drone) as weapon/drone borne CBRNE threats carried and delivered by a UAV	Chemical attack - threat object concealed in goods or carried items	Biological attack - threat object concealed in goods or carried items	Radiological attack - threat object concealed in goods or carried items
CRITICAL	BASIC	ELEVATED	MODERATE	HIGH	MODERATE	BASIC	BASIC	BASIC	BASIC

Sample Illustration ONLY

Legend

Basic	Moderate	Elevated	High	Critical
an attack is unlikely	an attack is possible, but not likely	an attack is a strong possibility	an attack is highly likely	an attack is expected imminently

# EU Vulnerability Assessment Checklist Support- Threat Cases

A	Past Threat Listing			EU Vulnerability Assessment Checklist	
	<p>This EU Vulnerability Assessment Checklist is for use only when Member State national authority competent for protection of public spaces recommends the use of such checklist or some of its content. The classification of assessed areas or any content pertaining to identified vulnerabilities become classified material and must be protected according to EU or National rules for handling of classified information.</p>				
	<p><b>Fire Arms attack (FAA)</b></p> <p>Fire Arms attack (FAA) - small caliber pistol or semi/full-automatic rifle (eg AK47)</p>	<p><b>Bladed Weapon attack (BWA)</b></p> <p>Bladed Weapon attack (BWA) - knives, machete, other sharp and blunt objects</p>	<p><b>Vehicle as Weapon Attack (VWA)</b></p> <p>Vehicle as Weapon Attack (VWA)- use of vehicle as a weapon by ramming large crowds</p>	<p><b>Explosives - Carried or concealed (IED)</b></p> <p>Explosives - Carried or concealed (IED)- left/concealed in objects or goods (based on home-made or commercial exolo)</p>	<p><b>Explosives - Person borne (PBIED)</b></p> <p>Explosives - Person borne (PBIED) - explosives concealed on a person (suicide or carrier)</p> <p><b>Explosives - Vehicle borne (VB-IED)</b></p> <p>VBIED (explosives) - explosives concealed inside vehicle (or its cargo)</p>
A1	  <p>Germany knife attack: 1 killed, 4 injured in supermarket knife attack in Hamburg - police</p>				
					

# EU Aide Memoire - EU Vulnerability Assessment Checklist - Content

	A	A1	A2	A3	B	B1	B2																																																
	<p><b>Access Roads to Event Venue</b></p> <p>This EU Vulnerability Assessment Checklist is for use only when Member State national authority competent for protection of public spaces recommends the use of such checklist or some of its content. The classification of assessed areas or any content pertaining to identified vulnerabilities become classified material and must be protected according to EU or National rules for handling of classified information.</p> <p>Public road system or facility (ex parking lot or parking garage) that give access/lead to main activity area (museum, hotel, shopping mall, exhibition, airport, sport stadium, theatre) where medium-large concentration of public occur. What are the lines when the increased number of public is present (predictable or unpredictable)?</p> <p><b>SUB-SET OF QUESTIONS</b></p>	<p><b>CROWD DENSITY</b> Considerations and Impact (PPSM - Persons Per Square Meter) Timing of Activity and Impact</p> <p>Applicable Crowd Density Level 2 - 3 - 4 - 5 (circle)</p> <p>Crowd density (light and light)</p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>EU Vulnerability Assessment Checklist</b></p> <p>Fire Arms attack (FAA)</p> <p>Bladed Weapon Attack (BWA)</p> <p>Explosives - Carried or concealed (EC)</p> <p>Explosives - Person borne (PBEC)</p> <p>Explosives - Vehicle borne (VBEC)</p> <p>Drive as Weapon (DAW) / Drive borne (DBW) / Drive borne Agents (DBA) / IED CHM 4</p> <p>Chemical Agent attack (CA)</p> <p>Biological Agent attack (BA)</p> <p>Radiological Agent attack (RAA)</p>	<p><b>Threats and Attack Modes</b></p> <p>Fire Arms attack (FAA)</p> <p>Bladed Weapon Attack (BWA)</p> <p>Explosives - Carried or concealed (EC)</p> <p>Explosives - Person borne (PBEC)</p> <p>Explosives - Vehicle borne (VBEC)</p> <p>Drive as Weapon (DAW) / Drive borne (DBW) / Drive borne Agents (DBA) / IED CHM 4</p> <p>Chemical attack (CA)</p> <p>Biological attack (BA)</p> <p>Radiological attack (RAA)</p>	<p><b>Parking and Transport Facilities</b></p> <p>This EU Vulnerability Assessment Checklist is for use only when Member State national authority competent for protection of public spaces recommends the use of such checklist or some of its content. The classification of assessed areas or any content pertaining to identified vulnerabilities become classified material and must be protected according to EU or National rules for handling of classified information.</p> <p>Public access areas used for parking or gathering places with connection to local transport which result in medium-large concentration of public</p> <p><b>SUB-SET OF QUESTIONS</b></p>	<p><b>EU Vulnerability Assessment Checklist</b></p> <p>Fire Arms attack (FAA)</p> <p>Bladed Weapon Attack (BWA)</p> <p>Vehicle as Attack (VA)</p> <p>Explosives - Carried or concealed (EC)</p> <p>Explosives - Person borne (PBEC)</p> <p>Explosives - Vehicle borne (VBEC)</p> <p>Drive as Weapon (DAW) / Drive borne (DBW) / Drive borne Agents (DBA) / IED CHM 4</p> <p>Chemical Agent attack (CA)</p> <p>Biological Agent attack (BA)</p> <p>Radiological Agent attack (RAA)</p>																																															
	<p>Review the access road network to the event venue and consider how an attack on the either the motorized roadway or foot traffic paths may impact on the event site activities. Consider how a safety event (purposeful automobile accident or a vehicle fire can alter the route network). Consider also how demonstrators (political or environment motivated) can affect the access network. Develop alternative approaches ahead of time. Test the alternative routes to see if the traffic routing will allow for such paths to be viable and good alternatives.</p>	<p>Could the road(s) serving the main site be used to block or otherwise seriously disrupt the the commercial activities of the event site (main site) by attack or sabotage. Could demonstrators or saboteurs affect the site access. Consider if the intention accident or spill with chemical substance would severely impact the access to the venue. Is there a plan to mitigate the safety hazards so the clearing up of the area of disabled vehicles will not impede the access to the event (consider that a burning vehicle or an exploded vehicle will have similar impact on the public perception of event safety). How many road access points are available? Would loss of one disabled or seriously disrupt main site operations?</p>	<p>Consider attack scenario (develop table top exercise to practice for such different attack scenarios) and its impact on the road network leading to the event and possible consequences. Consider how negative event may impact on the flow of traffic (bottlenecks) on the road network and what possible mitigation measures can be placed to ensure return to normal operational scale after an event (ex. vehicle fire, chemical spill from a tanker).</p>	<p>Consider if the road access network, or the main event site could be easily accessible due to proximity to major road infrastructure (major national/EU road).</p> <p>Could mitigation be considered for such access points (eg. positioning police vehicles near such junction points)?</p> <p>Can the street controls placed to separate the</p>	<p>Are any roads that lead to the entry of the Main Event Site (ex. between the parking lot and the site) that may offer more exposure to sudden attacks. Is pedestrian traffic forced to pass a tunnel or other confined spaces while traversing from the parking or transport connection points (required to take a shuttle or metro connection etc) before arriving at the main event venue (ex. shopping mall, hotel, sport stadium, train etc)</p>	<p>Does the public road system or facility (ex parking lot or parking garage) give access/lead to other event activity areas other than the main event (ex. adjacent museum, restaurants, hotel, shopping mall, railway station etc) where medium-large concentration of public occur. What are the times when the increased number of public is present (predictable or unpredictable)?</p>	<p>Transport facilities. Could transport parking and other facilities be used to launch attacks against public utilising such areas when the crowd concentration index is high?</p> <p>Public transport. If public transport system is closely supporting the public access to the main site, could attack on a such public transport, reduce impact on the on-site</p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>	<p><b>ILLUSTRATIONS EXAMPLES</b></p>



# EU Aide Memoire - EU Vulnerability Assessment Checklist - Content

## UAV Risk Assessment Matrix - TRANSPORT



This UAV assessment matrix has been developed by European Commission (DG HOME) as part of 2017 *EU Action Plan to Enhance Protection of Public Spaces* which includes emerging threats such as UAV. This document contains information aimed to build awareness of UAV capabilities and under no circumstances can information or instructions in this document be considered to replace Member States National authority national security measures dealing with UAV threats. This information is a part of the EU Vulnerability Assessment Check List on protection of public spaces.



Type: MICRO quadcopter unmodified (below 300 gr)  
Lift capacity: N/A (except UAV itself)  
Range/endurance: 00-500 meter/10-20 min

Type: MINI quadcopter unmodified  
Lift capacity: **Max 1 kg?**  
Range/endurance: up to 13000 meter/ max 30 min

Type: MINI quadcopter modified  
Lift capacity: Explosive/pyrotechnic charge (max 1000 gr), chemical substances (max 1000 gr/300 ml), etc.  
Range/endurance: Up to 11000 meter/ max 30 min

Type: Fixed wing unmodified  
Lift capacity: max 1700 kg  
Range/endurance: approx. 1000 km/24 hours

Type: Fixed wing modified  
Lift capacity: Explosive/pyrotechnic charge (max 2000 gr), chemical substances (max 2000 gr/500 ml), etc.  
Range/endurance: Varies by model

Type: XX-COPTER unmodified  
Lift capacity: Explosive/pyrotechnic charge (max 4000 gr), chemical substances (max 4000 gr/4 l), etc.  
Range/endurance: XXX

Type: XX-COPTER modified  
Lift capacity: Explosive/pyrotechnic charge (max 20 kg), chemical substances (max 20 l), etc.  
Range/endurance: XXX

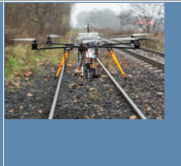





### UAV type and specifications

### Threats/attack scenarios

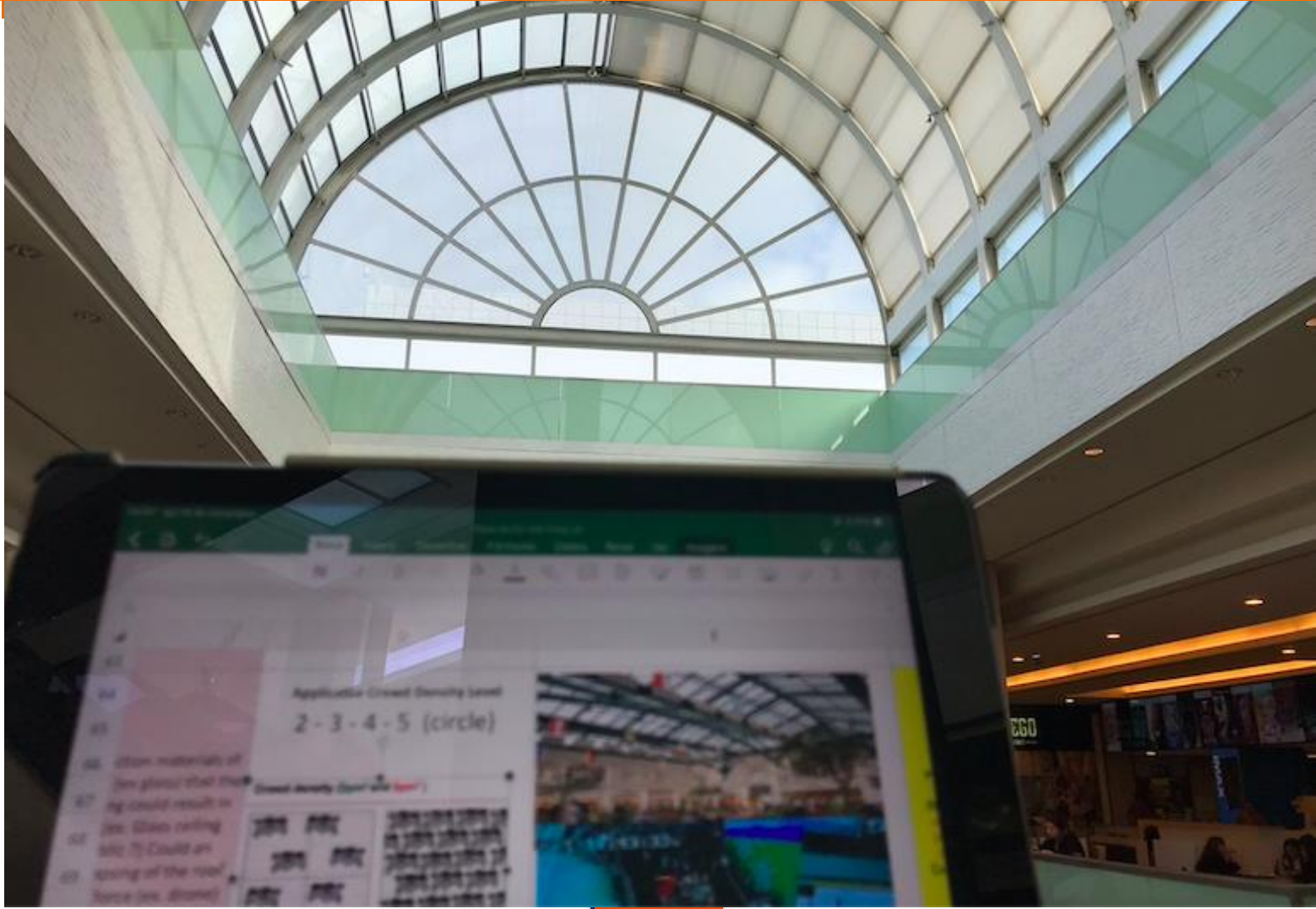
### Considerations

### Illustration of target

### Assessing the probability, risk to the target, and consequences

<p>Transport Hubs (non-aviation). Other transport hubs are also vulnerable to unauthorised UAV traffic. While rail and maritime hubs, would be less impacted by unauthorised traffic than aviation, such operation can nevertheless seriously distract rail and maritime operators which could potentially cause accidents and collision.</p>	<p>Could such areas be targetable by the UAV - are there any air obstacle (ex. trees, communication towers, antennas, buildings) near the cultural/event location that can make the attack more challenging for the operator/perpetrator?</p>		<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>
	<p>Could a UAV be easily identifiable against the skyline, or is the architecture of the transport infrastructure buildings (rail station, bus station, maritime passenger terminal) and the fences of such type (ex. nearby forest) that would make identifying of an approaching or operating UAV challenging?</p>		<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>
	<p>Prevention. Have authorities established specific UAV restriction in the area where the event activity takes place? Is this restriction applicable to all classes of UAV or just certain categories? What categories are exempted? What are the communications and enforcement tools that exist to monitor such no-fly restrictions?</p>		<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High Risk to target: ex. negative publicity/physical damage/commercial, etc. Consequence: Low/Medium/High</p>
	<p>Have the authorities established a process and allocated responsibilities how to respond when a UAV sighting is made? Have authorities established system for detection and tracking of UAV identified as posing a threat to the event or public areas? How well and rapid is the response mechanism? Is the system/process be able to launch during short time period?</p>		<p>Evaluation factor but not by itself a scenario for evaluation of vulnerability of the event or target area</p>	<p>Evaluation factor but not by itself a scenario for evaluation of vulnerability of the event or target area</p>	<p>Evaluation factor but not by itself a scenario for evaluation of vulnerability of the event or target area</p>	<p>Evaluation factor but not by itself a scenario for evaluation of vulnerability of the event or target area</p>	<p>Evaluation factor but not by itself a scenario for evaluation of vulnerability of the event or target area</p>	<p>Evaluation factor but not by itself a scenario for evaluation of vulnerability of the event or target area</p>	<p>Evaluation factor but not by itself a scenario for evaluation of vulnerability of the event or target area</p>
	<p>Response and capacity. Does the authority(s) have the capacity and capability to respond to more than 1 UAV identification? Can the</p>		<p>Question/Scenario Assessment Probability: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High</p>	<p>Question/Scenario Assessment Probability: Low/Medium/High</p>

# EU Aide Memoire - EU Vulnerability Assessment Checklist - Content





## EU Aide Memoire - EU Vulnerability Assessment Checklist - Content



**'We're watching you' ISIS tells Brit jihadis to use Google Earth to plot deadly attacks**

ISIS leaders are instructing their secret European (jihad) army to use Google Earth to help plan attacks and bring the continent and the world to its knees.



## Mitigation - Hostile Surveillance





# EU Aide Memoire - EU Vulnerability Assessment Checklist - Content



## Hostile Surveillance Review

Question  
Number

### Pre-Assessment Questions



1

Hostile surveillance can take many forms and means and can threaten not only the event but also the critical phases linked with the event (transport of persons to venue), therefore hostile surveillance should be investigated in any area associated with the event or site (ex. parking garage, transportation points, entry and exit points to the venue, event venue itself, vendors and suppliers operating in the venue etc)

2

Detecting any efforts to carry out hostile surveillance may be much more difficult in view of the available information on the social media and internet. Use of UAV can aid to reconfirm certain physical data which could be obtained from the internet site like "street view" and others sites

3

Have you verified which data concerning your facility (target) is available in the mainstream internet sources and if the media is current and up to date (it shows generally what is the present layout or conditions)

4

Can you (if not already in place) establish a hostile surveillance awareness and reporting programme with the entities along the route or in the main event area to aid the authorities in mapping potential hostile surveillance attempts.

5

Have there been any attempts to surveil any of the activities of the target venue that could be surveilled by UAV or other types of physical or electronic surveillance ?

6

Can you sweep the area for any webcams that may be present in the area using foot patrols or UAV monitoring ?

7

Are there any CCTV systems that can be hacked and become available to the perpetrator

8

Hostile surveillance can be performed by other individuals than the perpetrator, have there been cases that the individuals have conducted themselves in a suspicious manner ?

9

Can you establish before the event a hotline for reporting of suspicious surveillance ?

10

What types of awareness and alert mechanism exist that could identify potential threat (ex. human reporting, electronic apps, alarm mechanisms ?)

## Hostile Surveillance



# EU Aide Memoire - EU Vulnerability Assessment Checklist – Hostile Svclce

Facing East 03/01/2020 05:51:14 PM 7 minutes ago

Thiers

NICE

Massena

Vieux Nice

Sanctuaire Pelagos

Promenade des Anglais

New revelations have emerged about the man who killed 84 people on Bastille Day in Nice. Prosecutor Francois Molins said that one of his five alleged accomplices had filmed the crime scene on the day before the attack.

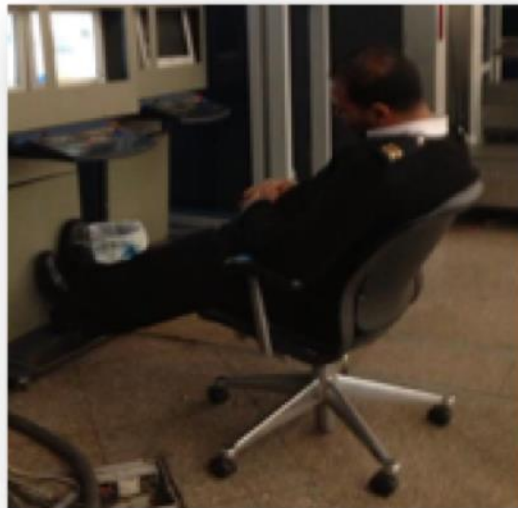
Surveillance footage revealed the man had made reconnaissance trips to the Promenade des Anglais beachfront where he would eventually carry out the attack. He also scouted out other sites in Nice and saved up money to be able to rent the truck on July 4.

- Some Webcams offer more than 2 year history review !
- What vulnerability does this create ?

## Internal and External Quality Control - Red teams Operations



- Self-assessments rarely provide the necessary insight into how well security measures are implemented inside the stadium.
- Every operator should establish own quality control programme which should objectively monitor implementation of the established operator security programme.
- Therefore, before and during a special event, quality control measures are being monitored according to a defined process and scope.
- Special quality control teams (red-teams) should be established consisting of law enforcement and operator security staff tasked with verification of the security measures in an unbiased manner.
- Operations should be randomly deployed and measure compliance with procedures before, during and after the event is concluded(during patrons leaving the event)
- The testing of the security measures should be carried out according to agreed principles, be objective and proportional. Any quality control measures must be carried out by experienced and properly trained staff on carrying out such quality control activities.
- Quality control manual procedures should ensure that retrieval of all quality control items used must be ensured. All quality control activities should assure recording of the quality control process.



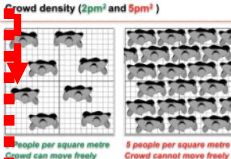
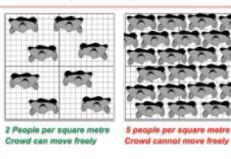





## EU VAC Resource – How to Use it ??



# EU Aide Memoire - EU Vulnerability Assessment Checklist - Content

## Guiding Questions – Suggestions and Examples

Scenario nr	Lead Question	Sub-Lead	Crowd density	Illustrations	Possible class
B1	Are any roads that lead to the entry of the Main Event Site (ex. between the parking lot and the site) that may offer more exposure to sudden attacks. Is pedestrian traffic forced to pass a tunnel or other confined spaces while traversing from the parking or transport connection points (required to take a shuttle or metro connection etc) before arriving at the main event venue (ex. shopping mall, hotel, sport stadium, train etc)	Flow Points. Could the parking area due to the density and proximity of cars become a safety hazard to the public if the fire would be started intentionally? Could the parking layout forcing pedestrians into narrow lanes be used to aid an attack and result in many victims. Could the pedestrians evade any attacks by use of vehicles by hiding between the parked vehicles or is the space between cars not sufficient for a large crowd?	<p>Crowd density (2pm<sup>2</sup> and 5pm<sup>2</sup>)</p>  <p>Applicable Crowd Density Level 2 - 3 - 4 - 5 (circle)</p> <p>Crowd density (2pm<sup>2</sup> and 5pm<sup>2</sup>)</p> 	  	<p>Safeguards Low - Medium - High</p> <p>Consequence: Low - Medium - High</p> <p>Probability: Low - Medium - High</p> <p>Safeguards Low - Medium - High</p> <p>Consequence: Low - Medium - High</p>
B2	Does the public road system or facility (ex. parking lot or parking garage) give access/lead to other event activity areas other than the main event (ex. adjacent museum, restaurants, hotel, shopping mall, railstation etc) where medium-large concentration of public occur. What are the times when the increased number of public is present (predictable or unpredictable?)	Transport facilities. Could transport parking and other facilities be used to launch attacks against public utilising such areas when the crowd concentration index is high?			

# EU Aide Memoire - EU Vulnerability Assessment Checklist - Content

## Which is My Facility?

### Parking and Transport Facilities

### EU Vulnerability Assessment Checklist

Access Roads to Event Venue				EU Vulnerability Assessment Checklist				EU Vulnerability Assessment Checklist			
<p>This EU Vulnerability Assessment Checklist is for use only when Member State national authorities competent for protection of public spaces recommends the use of such checklist or in case of the context. The classification of assessed areas or any content pertaining to identified vulnerabilities become classified material and must be protected according to EU or National rules for handling of classified information.</p> <p>Public road system or facility (ex parking lot or parking garage) that give access to main activity areas (shopping, hotel, shopping mall, exhibition, airport, sport stadium, theatre) where medium-large concentration of public occur. What are the times when the increased number of public is present (predictable or unpredictable)?</p>				<p>Public access areas used for parking or gathering places with connection to local transport which result in medium-large concentration of public</p>				<p>Fire Arms attack (FAA)</p> <p>Bladed Weapon attack (BWA)</p> <p>Vehicle Attack (VA)</p>			
<p>Review the access road network to the event venue and consider how an attack on the either the motorized roadway or foot traffic paths may impact on the event site activities. Consider how a safety event (purposeful automobile accident or a vehicle fire) could impact on the event site activities. Consider how a safety event (purposeful automobile accident or a vehicle fire) could impact on the event site activities. Consider how a safety event (purposeful automobile accident or a vehicle fire) could impact on the event site activities.</p>				<p>Are any roads that lead to the entry of the Main Event Site (ex. between the parking lot and the site) that may offer more exposure to sudden attacks. Is pedestrian traffic forced to pass a tunnel or other confined spaces while traversing from the parking or transport connection points (required to take a shuttle or metro connection etc) before arriving at the main event venue (ex. shopping mall, hotel, sport stadium, train etc)</p>				<p>Flow Points. Could the parking area due to the density and proximity of cars become a safety hazard to the public if the fire would be started intentionally? Could the parking layout forcing pedestrians into narrow lanes be used to aid an attack and result in many victims. Could the pedestrians evade any attacks by use of vehicles by hiding between the parked vehicles or is the space between cars not sufficient for a large crowd?</p>			
<p>Consider attack scenarios (develop table top exercise to practice for such different attack scenarios) and its impact on the main road leading to the event and possible consequences. Consider how negative event may impact on the flow of traffic, bottom the event site and what possible mitigation measures can be placed to ensure return to normal operational state after an event (ex. vehicle fire, chemical spill from a tanker).</p>				<p>Does the public road system or facility (ex. parking lot or parking garage) give access/lead to other event activity areas other than the main event (ex. adjacent museum, restaurants, hotel, shopping mall, rail station etc) where medium-large concentration of public occur. What are the times when the increased number of public is present (predictable or unpredictable)?</p>				<p>Public transport. If public transport system is closely supporting the public access to the main site, could attack on a such public transport seriously impact on the operation</p>			
<p>Could the road(s) serving the main site be used to block or otherwise seriously disrupt the commercial activities of the event site (main site by attack or sabotage. Could disruption or sabotage affect the site access. Consider if the intention accident or spill with chemical substance would severely impact the access to the venue. Is there a plan to mitigate the safety hazards on the clearing of the area of disabled vehicles will not impede the access to the event (consider that a burning vehicle or a exploded vehicle will have similar impact on the public perception of event safety). How many road access points are available? Would loss of one disable or seriously disrupt main site operation?</p>				<p>Can the street controls placed to separate the</p>				<p>1. ALERT: Visual signs alerting public from parking or driving or approaching the specific zones, large signs alerting the public of approaching security concerns (advised)</p> <p>2. SURVEIL: Placement of identifiable and covert Police vehicles. Use of Police Units in the areas which have the highest vulnerability as a deterrent and surveillance tool.</p> <p>3. RESPONSE: Deployment of special rapid units and other rapid response force. Deploy mobile patrols using appropriate barriers. Place first Response vehicles and teams.</p> <p>4. PROTECT: Placement of mobile barriers to shield the crowd of the public areas, placement of concrete barriers to mitigate against vehicle threats</p> <p>5. DETECT: Set up temporary explosive detection checkpoints to randomly search persons, use of mobile CBIR - E detection, use of explosive detection dogs and metal detectors. MDRS</p> <p>6. CONFINE: If certain resources not available, use temporary solutions (ex. temporary deployment of CCTV cameras) in the critical areas. "Main" CCTV can result in detection.</p> <p>7. REMOVE: If physical protection (barriers, barriers) not available, use heavy Police or security vehicles to mitigate against vehicle borne attacks (use of special patrols)</p> <p>8. REPAIR: Closing off certain parts of road during the event (use of barriers, using vehicle resources).</p> <p>9. ADAPT: Place only one the vulnerability/detention areas adjacent to the road to prevent that object (pedestrians, vehicles, etc.) can be thrown from passer-by vehicle (or UAV attack)</p> <p>10. Other measures</p>			



# Actual Exercise Simulation Aid Memoire - EU Vulnerability Assessment



# Actual Exercise Simulation Aid Memoire - EU Vulnerability Assessment

## Parking and Transport Facilities

This EU Vulnerability Assessment Checklist is for use only when Member States national authority responsible for protection of public space recommends the use of such checklist as a means of its control. The identification of assessed areas or any content pertaining to identified vulnerabilities remains classified material and must be protected according to EU or National rules for handling of classified information.

**P**  
**P**  
In medium-large concentration of public

gathering  
which result

### SUB-SET OF QUESTIONS

### CROWD DENSITY

Considerations and Impact  
(PPSM - Persons Per Square Meter)  
Timing of Activity and Impact

### ILLUSTRATIONS EXAMPLES

Fire Arms attack  
(FAA) - small caliber  
pistol or semi/full-  
automatic rifle (eg  
AK47)

Bladed Weapon attack  
(BWA) - knives,  
machete, other sharp  
and blunt objects

Vehicle as Weapon  
Attack (VWA) - use of  
vehicle as a weapon  
by ramming large  
crowds

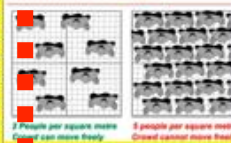
Explosives - Carried &  
concealed (IED) -  
left/concealed in  
objects or goods  
(based on home-made  
or commercial explo)

**B**  
**B1**  
Are any roads that lead to the entry of the Main Event Site (ex. between the parking lot and the site) that may offer more exposure to sudden attacks. Is pedestrian traffic forced to pass a tunnel or other confined spaces while traversing from the parking or transport connection points (required to take a shuttle or metro connection etc) before arriving at the main event venue (ex. shopping mall, hotel, sport stadium, train etc)

**Flow Points.** Could the parking area due to the density and proximity of cars become a safety hazard to the public if the fire would be started intentionally? Could the parking layout forcing pedestrians into narrow lanes be used to aid an attack and result in many victims. Could the pedestrians evade any attacks by use of vehicles by hiding between the parked vehicles or is the space between cars not sufficient for a large crowd?

Applicable Crowd Density Level  
2 - 3 - 4 - 5 (circle)

Crowd density (2ppsm and 5ppsm)



Consequence  
: High

Consequence  
: High

Consequence  
: High

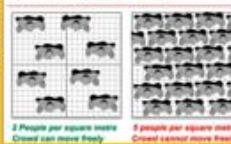
Probability:  
- Low  
- Medium  
- High  
- Very High  
- Extreme  
- Catastrophic

**B2**  
Does the public road system or facility (ex. parking lot or parking garage) give access/lead to other event activity areas other than the main event (ex. adjacent museum, restaurants, hotel, shopping mall, rail station etc) where medium-large concentration of public occur. What are the times when the increased number of public is present (predictable or unpredictable?)

**Transport facilities.** Could transport parking and other facilities be used to launch attacks against public utilising such areas when the crowd concentration index is high?

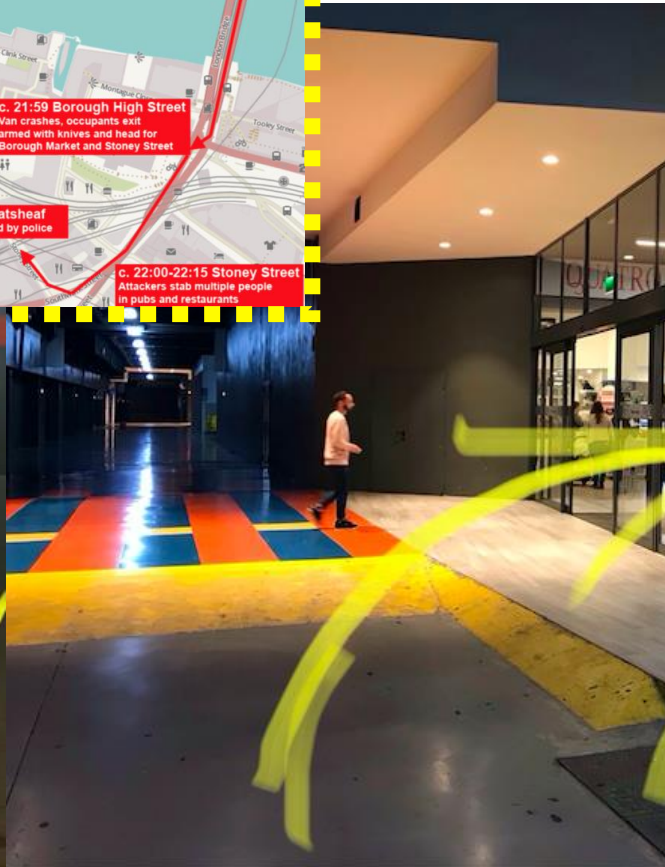
Applicable Crowd Density Level  
2 - 3 - 4 - 5 (circle)

Crowd density (2ppsm and 5ppsm)





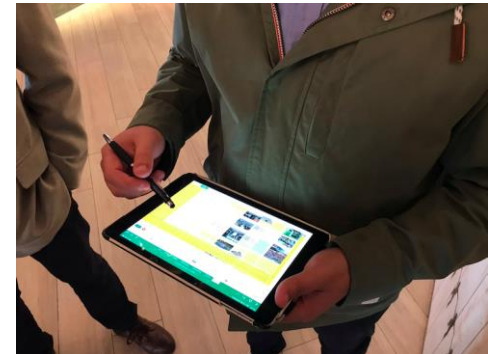
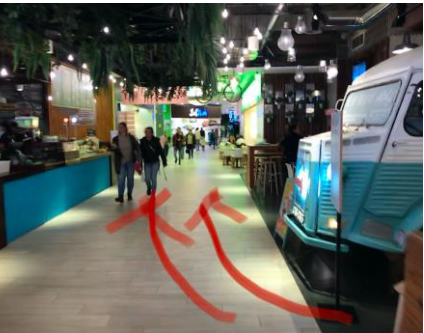
# EU Aid Memoire - EU Vulnerability Assessment Checklist - Content





## Joint Vulnerability Assessment of the Sonae Sierra Shopping Mall, Lisbon PT 13-15 November 2019

1. To prepare for Christmas 2019 activities Mega Shopping Mall in Lisbon was subject to joint vulnerability assessment
2. "EU vulnerability assessment checklist"(EUVAC) was used by the Security Management of Sonae Sierra, Securitas together with GNR Gandermerie and HOME to test how the private and public operators can perform the assessments.
3. Risk Assessment Process was carried out and different threats were identified.
4. The field use of the EU checklist was used successfully and the users found exercise a valuable lessons before conducting future assessments. The use of the checklist allowed the Sonae security management to pinpoint several vulnerabilities which were corrected





# EU Vulnerability Assessment "Untold" Musical Event (RO)

EU visit and Counter Terrorism support covered theoretical and practical elements.

1. EU presentations on use the "EU vulnerability assessment checklist"(EUVAC) were presented to all the authorities involved in the planning of the event
2. Evaluation and use of the EUVAC took place of the SRI and HOME
3. SRI and DG HOME designed a fictitious Assault Plan and tested the planned security measures
4. Field visits were carried out during the planning of the security measures and were verified during the field implementation.
5. Following the field visit by SRI and HOME and the use of the EU checklist, rectification suggestions were identified to amend and introduced additional security measures and provided to the other security services and planners
6. 100% of the EU (HOME) recommendations were implemented.



 A screenshot of the EU Vulnerability Assessment Checklist (EUVAC) table. The table has multiple columns with color-coded headers (yellow, orange, green, red) and rows containing various security-related items and their assessment status.

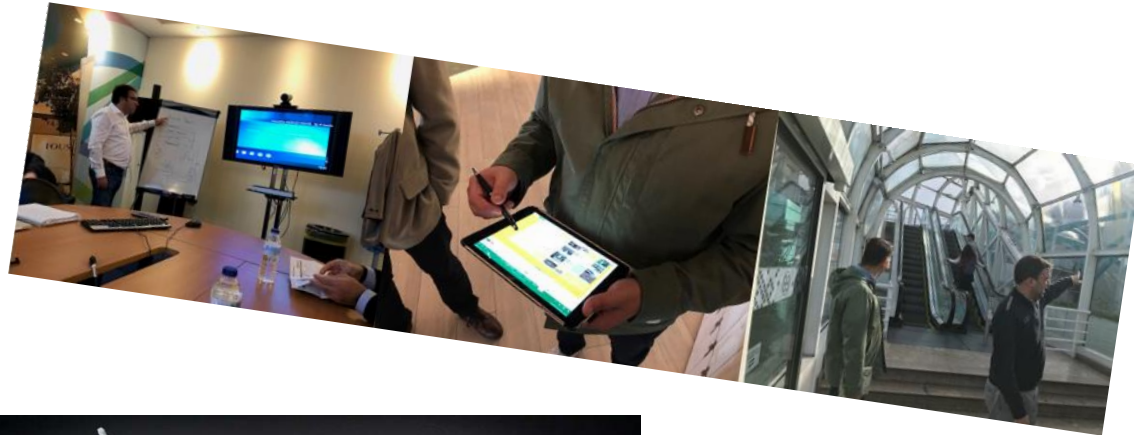
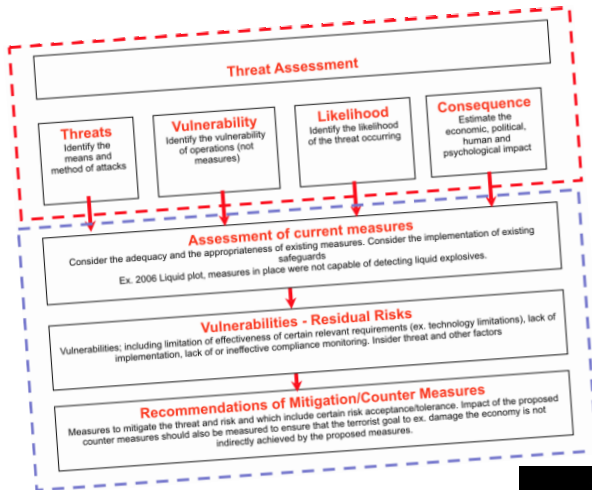



## Users – Lessons Learned - Challenges

1. EUVAC caters to most situations and event types. It highlights the different risk and situations that could impact on security
2. It is a living document subject to continues amendments
3. The "EU vulnerability assessment checklist" has been used in different events ranging from EU Political Summits, Cultural and sport events, critical infrastructures and other targets.
4. Interpretation of the threats and impacts on events or targets is not always interpreted the same by all parties
5. The tool needs training on its use
6. The tool has some limitation due to the amount of information stored – most practical in tablet application format
7. Local authorities and actors are crucial end-user of such products







ANY  
QUESTIONS  
?