



**Australian Institute of Criminology** 

Understanding and Reducing the Risk of Terrorist Attacks at Passenger Terminals: Workshop Introduction

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**November 2016** 



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#### What's coming up



#### 1. Introduction

- Background to the PReEMPT Project what works against terrorist attacks in complex stations
- The shortfall of evidence of what works
- Methods introducing the Conceptual Attack Framework
- Illustrations from the Fieldwork
- Handling the evidence rating quality of evidence, quality of practice, organising the findings
- Introducing the toolkit

#### 2. Understanding threat

- Basic CAF model threat, risk, opportunity, security
- Classification of terrorists' tactical attack methods
- Attack procedure the stages of planning and execution

#### 3. Reducing risk

- Security action framework and findings a process-based, detailed characterisation of Protective and Preparatory action to reduce risk of attacks
- Putting security action together in practice outline of a toolkit
- 4. Policy issues and future work

#### **PReEMPT Project Aims**



#### **Process Review and Evaluation of Multi-Modal Passenger Terminal Security**

#### For EU DG Mobility and Transport

- To understand how MMPTs operate and tactical security challenges they face
- To identify 'best practice' solutions to secure MMPTs from terrorist attacks and serious crime
- To produce an indicative toolkit
- To inform the development of a pan EU Land Transportation Security Strategy

#### **How to identify What Works?**



- Originally EU asked us for meta-analysis of evaluation literature
- But we had read Lum's (2005-9) systematic review of CT evidence
  - Scanned some 20000 studies representing billions of \$£€
  - Only 7 passed a 'relaxed' methodological quality filter
  - These were very general and not necessarily relevant to land transport MMPTs e.g. 'screening of passengers at airports is cost-effective'
- And we know that evaluating impact of interventions on very rare events is very difficult
  - RCT and quasi-experimental designs impossible

# What to do instead of conventional Systematic Review?

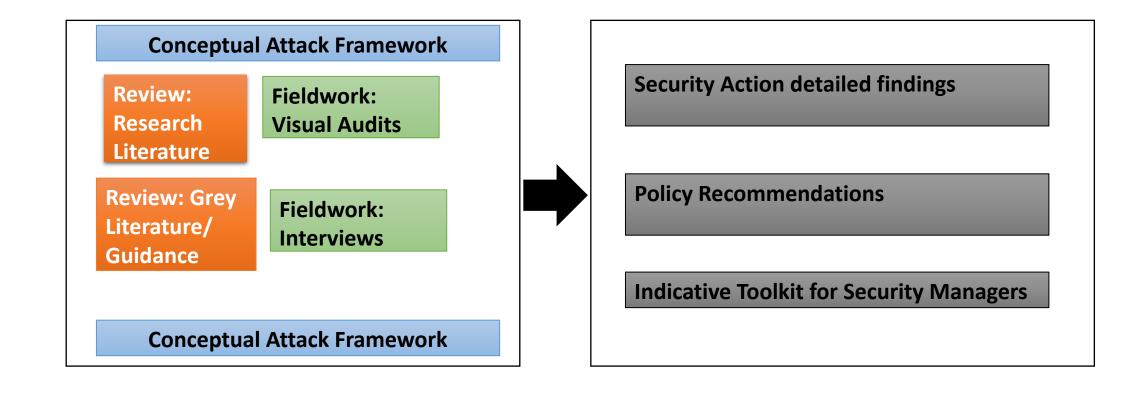


- So a conventional meta-analysis not feasible
- Nor can 'EMMIE'-type guidance (Systematic+Realist Review) be produced in same way
  - Effect the impact on crime
     Mechanism how it works
     Moderators where it works best
     Implementation how to do it
     Economic assessment what it costs
- But practitioners and policymakers ASAP!
- How then to make the best of what knowledge exists
- Developed an alternative approach based on Mixed Methods and a Scientific Realistic approach to knowledge emphasis on how it works, in what contexts



# Mixed Methods Approach built around a Conceptual Attack Framework





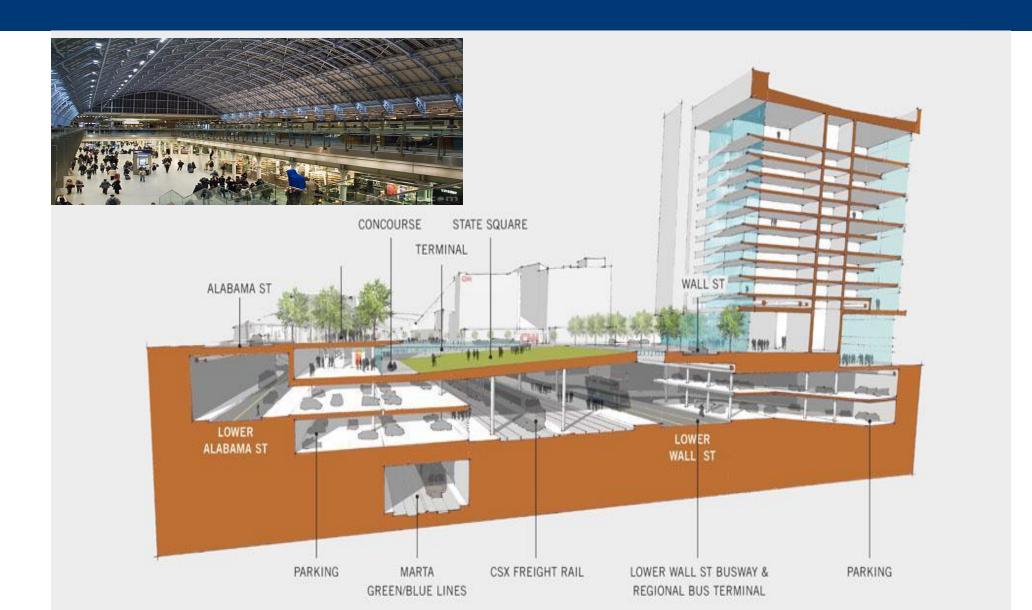
### The Challenge for CAF



- Conceptual Attack Framework (CAF) had to:
  - Handle complexity of MMPTs, and complexity/ diversity of terrorist attacks
  - Cope with huge variety of findings nature, scope, level, quality, origin, format
  - Connect with theory & terminology in SCP, security
  - Prime the planning of Realist Literature Review and Fieldwork
  - Facilitate synthesis of results at strategic, operational and tactical levels
  - Feed into/ help to structure (eventual) practical toolkit, beginning with outline version

### **Complexity of MMPT**





Transport, Infrastructure & Land Use	Integral/ Adjoining Retail/Leisure Facilities	What varies between MMPTs
Transport Mode  Over-ground Rail  Metro System  Tram System	Retail outlets	Environmental Design Opening/ Closing times Responsibility for security  Training of security staff Surveillance & communications (equipment &
Bus Station Taxi Rank	Supermarkets Pubs and Bars	Land & property ownership Jurisdictions for security staff (patrols)  Governance Structures
Infrastructure Waiting areas	Fast food establishments	Vetting of staff Site maintenance requirements /practices Partnership working
Concourses and platforms Walkways Escalators	Restaurants	Passenger flows by time Flows of other site users (employees, visitors, customers) Vehicles (passenger vs. freight trains)
Elevators Ticket & other barriers		Open and restricted areas for site users Entry and exit points Environmental Quality

### **Diversity of attacks & interventions**



- Rand study of terrorist attacks identified:
  - 13 attack methods (marauding, bombing, arson etc)
  - 14 **weapon** types (guns, bombs, chemicals etc)
- We identified 9 target types (passengers, security personnel, buildings etc)
- UK Police's Project Griffin identified 11 stages of generic attack procedure, each
  with a greater/lesser number of alternative script tracks
- We know from SCP that there are diverse interventions:
  - 25 Techniques, 5+ CPTED principles
  - 11 generic proximal causal factors for crime/terror events (Conjunction of Terrorist Opportunity)
  - 11 Ds mechanisms by which to influence offenders...
- A helluva lot of permutations/combinations for practitioners!

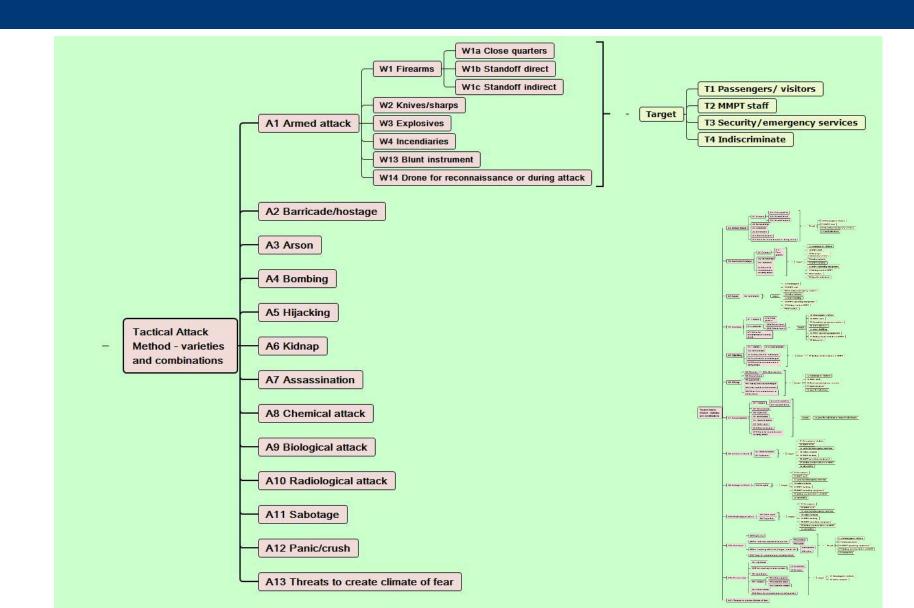
### **Conceptual Attack Framework**



<b>M</b> a □	ps out theoretically plausible <b>attacks</b> Attack <b>Methods – Weapons – Targets</b> Attack <b>Procedures</b> (scripts)
Ma	ps out theoretically plausible security responses, based on
	Conjunction of Terrorist Opportunity – covers 11 immediate causes of attack events and interventions to block those causes
	5Is process model of doing security – Intelligence, Intervention, Implementation, Involvement, Impact [Nothing to do with the 5Is grouping!]
	Covers both <b>Prevention</b> (centred on opportunity reduction) and <b>Preparing for first response</b> [As in UK CONTEST, prevention is here called <b>Protection</b> ]
Takes detailed findings from literature and fieldwork	
Organises them on 'knowledge trees'  Aids retrieval Links with theory Puts like with like Identifies knowledge missing from literature and practitioner experience — 'for gaps you need maps'	

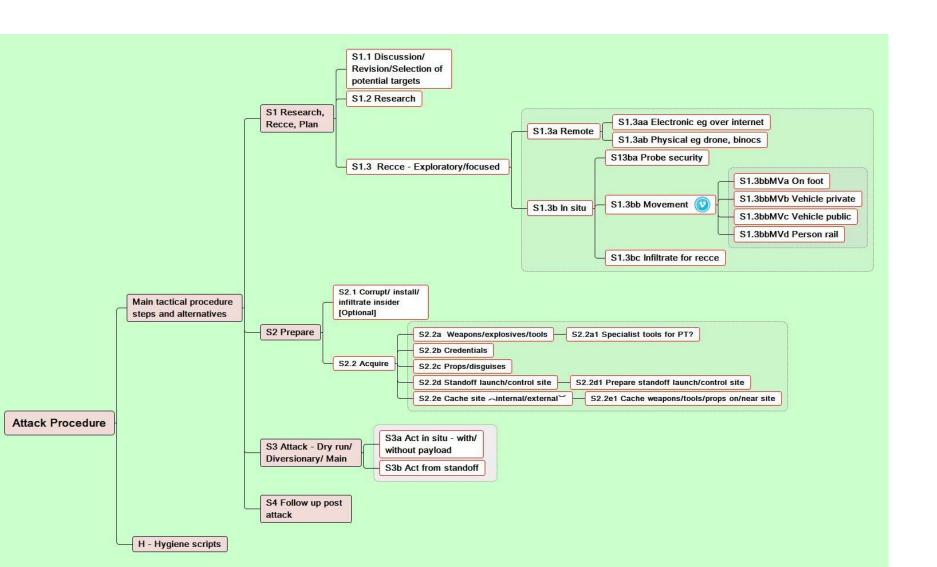
# Conceptual Attack Framework – Tactical Attack Methods

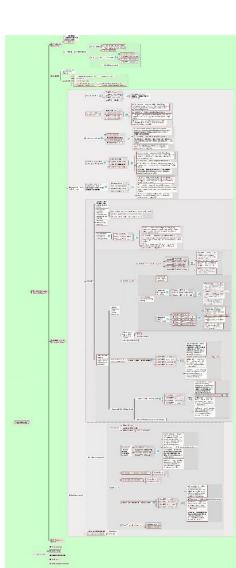




## **Conceptual Attack Framework – Attack Procedures**

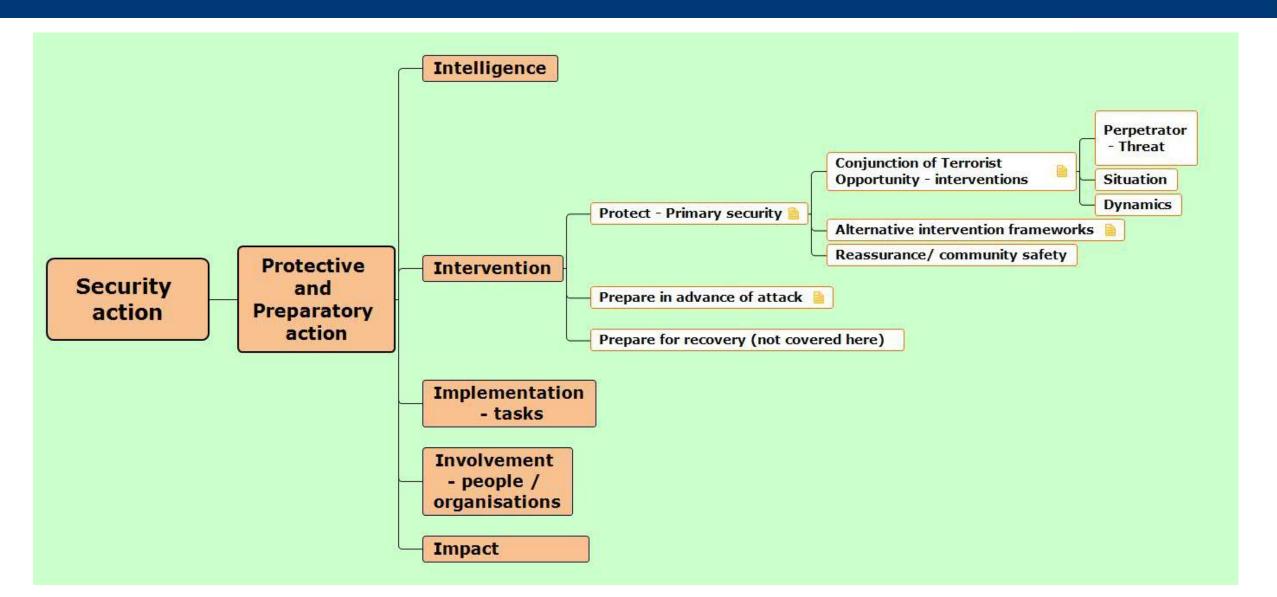






# Conceptual Attack Framework – Security action based on 5Is

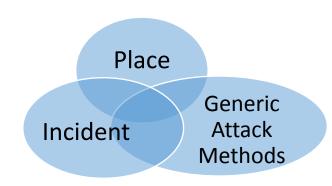




#### Research 1) Realist Literature Review



- Based on relevance and plausibility
  - Developing a synthesis of knowledge
  - Less concern with quantification, effect sizes and standardisation
  - More concern with theoretical plausibility, context
  - Include 'experience based knowledge'
- Searched 15 Bibliographic Data Bases
  - Keyword searches
- Approached relevant organisations and experts
- 409 relevant items identified (abstract/title)
  - 143 published/266 grey literature
- 139 documents reviewed in depth
  - Inclusion/Exclusion Criteria



#### Research 2) Fieldwork



- To experience contrasting MMPT environments
  - 4 stations in several EU countries
  - Interviews with police officers, counter-terrorism security advisers, other security personnel and site managers
- To gain insights/capture experience based knowledge
  - Management of security incidents
  - Different agencies involved
  - Partnership working
  - Available resources
  - Existing security interventions
  - Recognised good practice
  - Areas of concern

Fieldwork slides thanks to Prof Rachel Armitage & Dr Lean

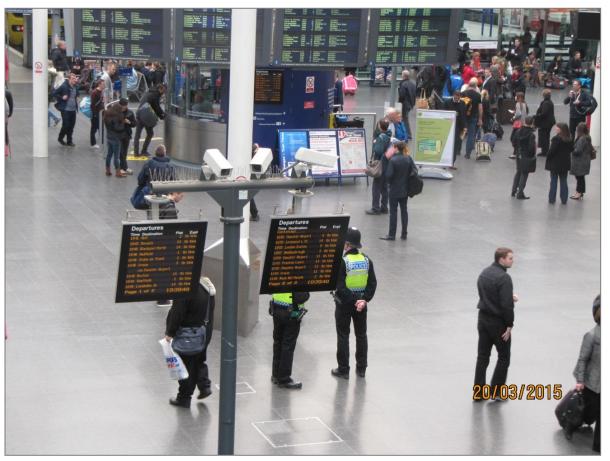


### Fieldwork – Emergent themes



# 1. Surveillance & monitoring

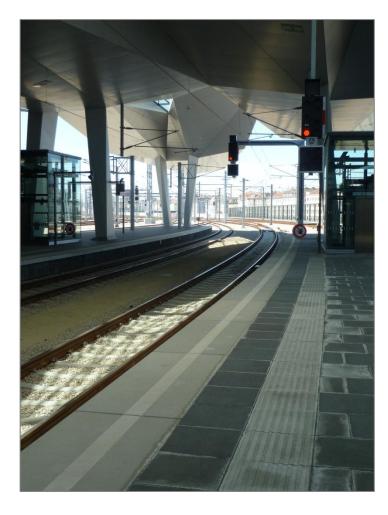






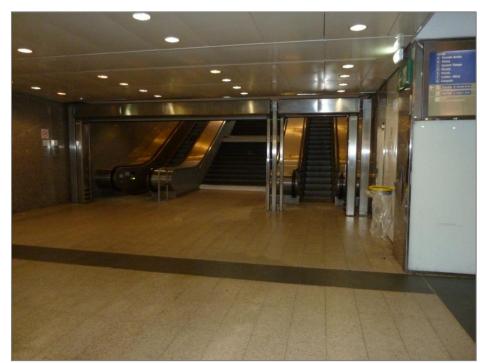






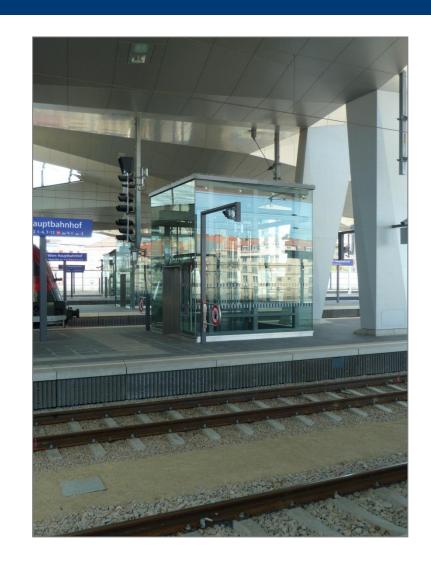


























## 2. Physical protection







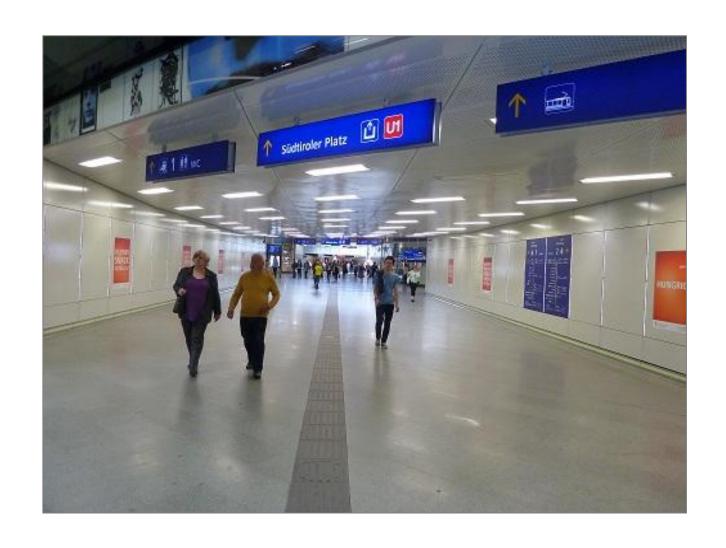






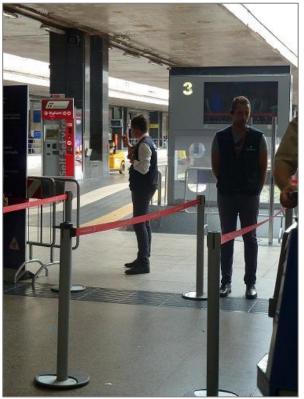
### 3. Movement control













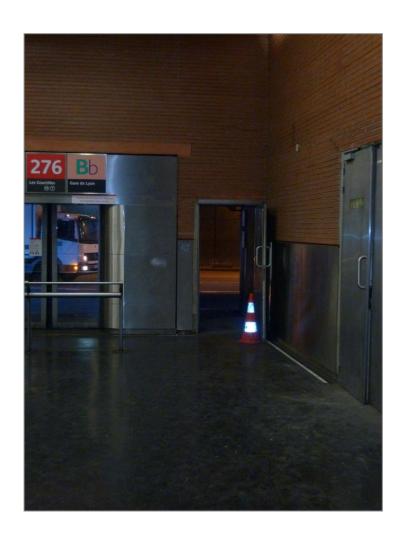
# 4. Management & maintenance













### 5. Governance











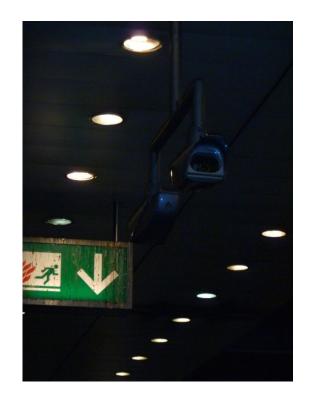




# 6. Emergency preparedness















## **Evidence Quality Assessment – Literature**



Evidence quality	Type of Evidence	Practice quality
E1	Experimental Comparative Designs	P+1 'Best Practice' – strong research evidence that the practice was effective in its implementation and impact and outperformed alternatives
E2	Experimental Observational and Simulation Designs	<b>P+2 'Good Practice</b> ' – strong research evidence of effectiveness in implementation & impact, without comparative element; or moderate research evidence with/without comparison
E3	Expert Consensus	<b>P+3 'Potentially Good Practice</b> ' – assessments of implementation and impact moderate to strong, with/without comparison but based on consensus of opinions from experts & respected authorities/ organisations rather than research
E4	Expert Opinion	<b>P+4 'Highlighted Practice</b> ' – claimed as effective or ineffective in literature but without supporting evidence
E1,2,3		<b>P- 'Practices to avoid</b> ' – literature suggests these not beneficial; and strong-moderate research evidence and/or a consensus of expert opinion to support this claim

#### **Evidence Quality Assessment – Fieldwork**



Practice quality level		Description
P+	Recognised Good Practice	A practice judged to be good practice depending on context
P+/-	Practice positive/ negative	A practice that may be good or that should be avoided depending on context

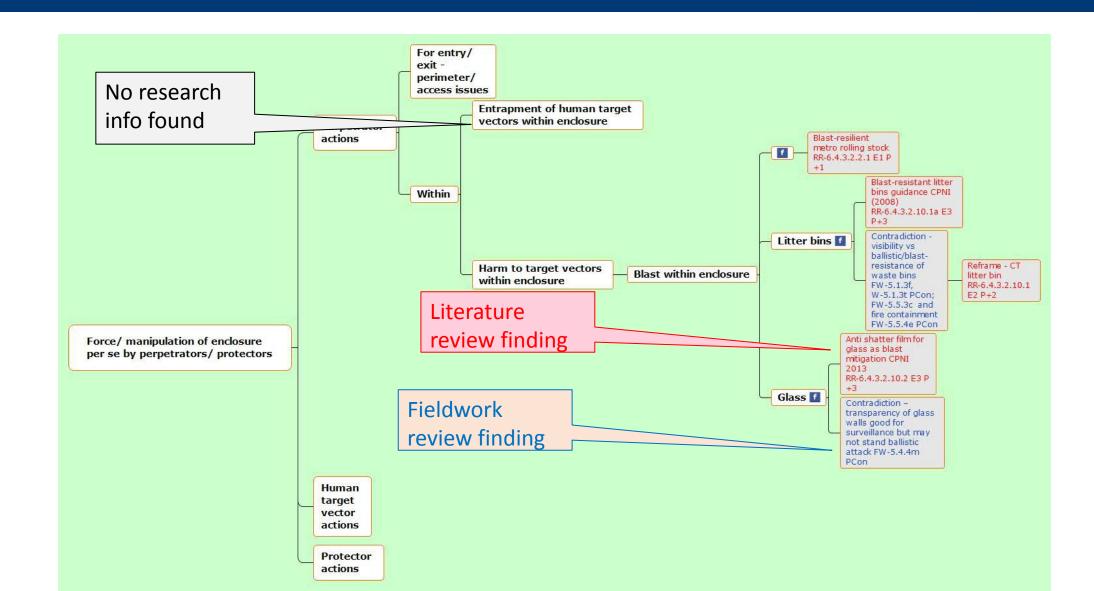
Indeterminate practice A practice where there is neutral or uncertain evidence to make a judgement either way P0

**Contradictory Practice** Identification of a contradiction in the effects of the practice requiring resolution e.g. through re-design / modification

**PCon** Practices assessed as less than satisfactory (irrespective of context) Practices to avoid

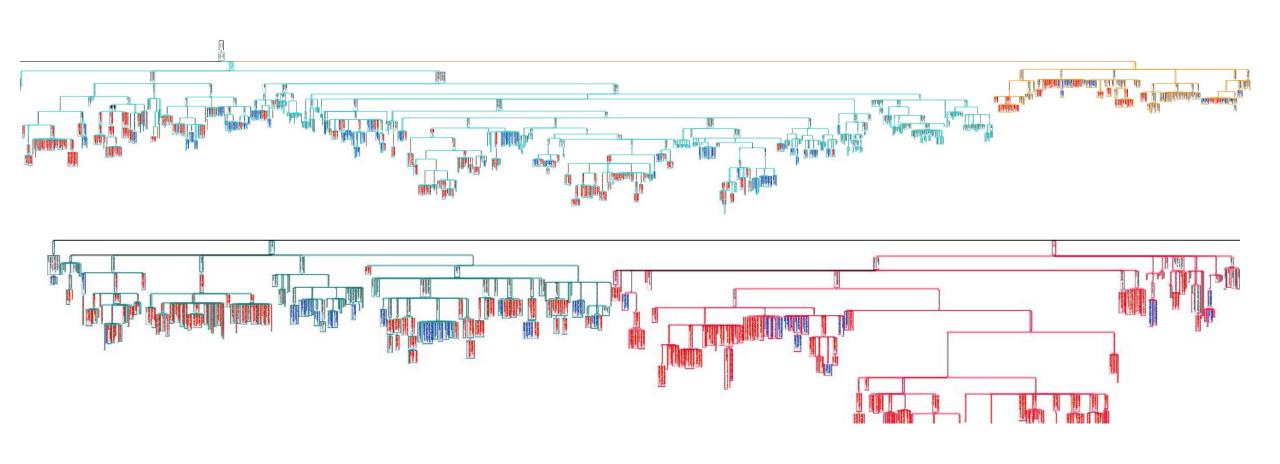
#### **CAF: Consolidating Findings**





## CAF: Entire Visual of findings – 130+ from Fieldwork and 200+ from Realist Review





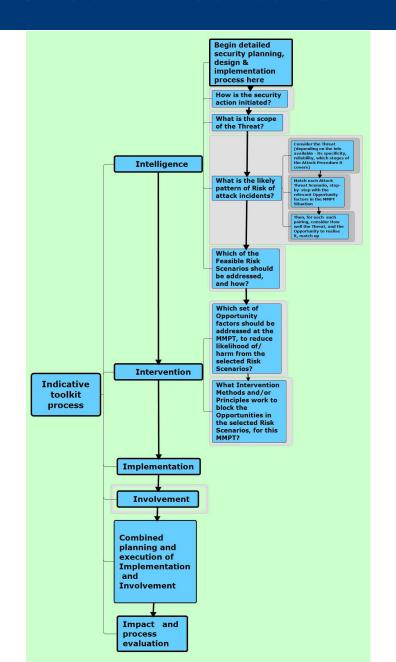
## Toolkit approach

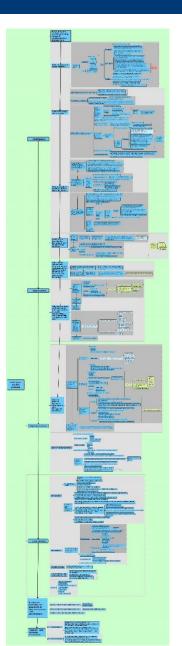


- A process which empowers users to:
  - Think perpetrator, and threat
  - Think opportunity for terrorism/crime, generated by the design and operation of the MMPT
  - Think security
  - Think designer, and the wider requirements for the business, the users and society
  - Think manager
  - Think future resilience and adaptability in the long term
- Adaptable to diverse user levels, contexts, functions

#### Indicative toolkit realisation

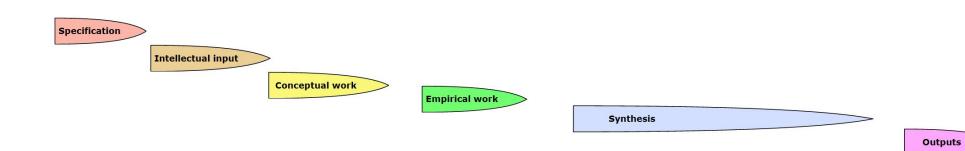






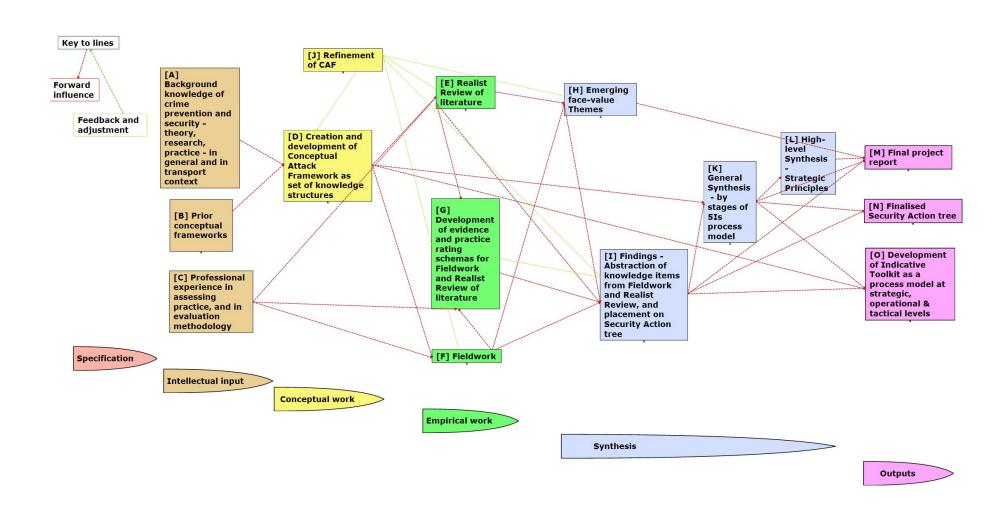
## How it all fits together





#### How it all fits together









**Australian Institute of Criminology** 

Understanding and Reducing the Risk of Terrorist
Attacks at Passenger Terminals: Workshop slides
presenting the Conceptual Attack Framework
Paul Ekblom
University of Huddersfield
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## **Conceptual Attack Framework**



CAF aims to provide a systematic, rigorous and theory-oriented way of:

- Understanding the threat from terrorism and serious crime
- Envisioning the **risk** which that threat generates in combination with **opportunity and motivational factors** in the immediate attack situation
- Supporting the development, design and deployment of existing and innovative **security** measures addressing those situational factors, to **protect** (reducing the likelihood of attack incidents) and **prepare** (mitigating immediate and consequential harm should those incidents occur)
- Helping to out-innovate adaptive offenders in the crime/security arms race

#### CAF aims to be

- Systematic, rigorous, and theory-oriented
- Complementary to empirical 'what works' approaches, but capable of offering useful and plausible guidance to policy and practice in the many cases where reliable evaluative knowledge does not exist
- An enabler of practical thinking, communication and knowledge exchange through the clear articulation of problems, causes and solutions

CAF was developed from the **Conjunction of Terrorist Opportunity** framework and its more generic forbear, the **Conjunction of Criminal Opportunity** 

Also the 51s process model of doing crime prevention and security

## The detail of CAF: Understanding Threat, Reducing Risk



#### Coming up:

- 1. Understanding threat
- Basic CAF model threat, risk, opportunity, security
- Classification of terrorists' tactical attack methods
- Attack procedure the stages of planning and execution
- 2. Reducing risk
- Security action framework and findings a process-based, detailed characterisation of Protective and Preparatory action to reduce risk of attacks
- Putting security action together in practice outline of a toolkit

**Target Audience** – the individuals, groups or institutions which are intended to be influenced by the attack, for example the government, a community or a private company

**Target Vector** – the person or assets that are harmed in order to deliver the terrorist message or deliver an operational gain to the Perpetrator

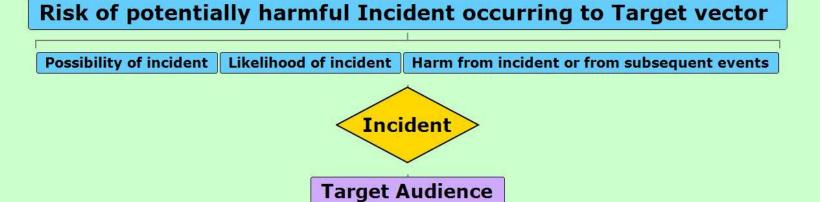
Target vector

Target vector

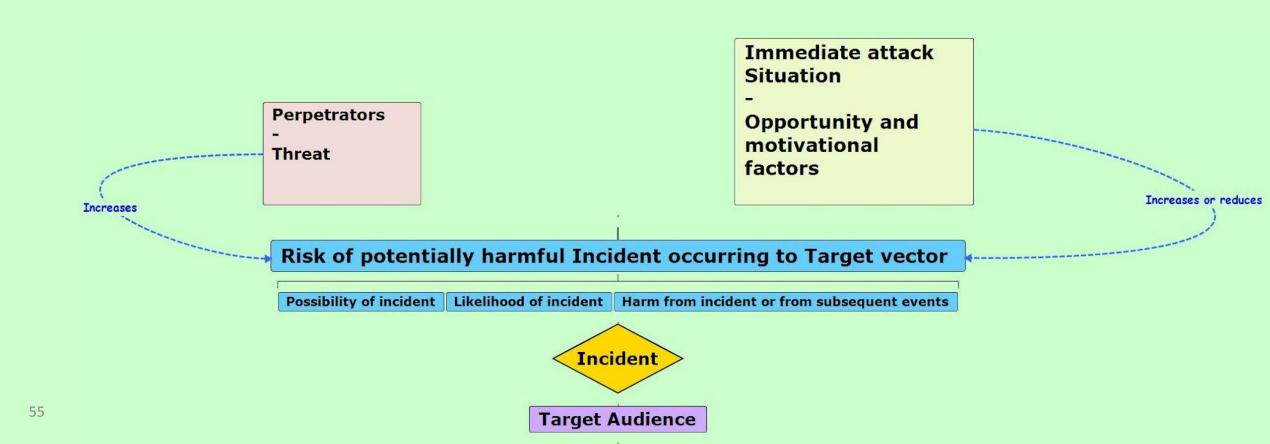


The Risk of the incident occurring to the Target vector has three aspects

Target vector



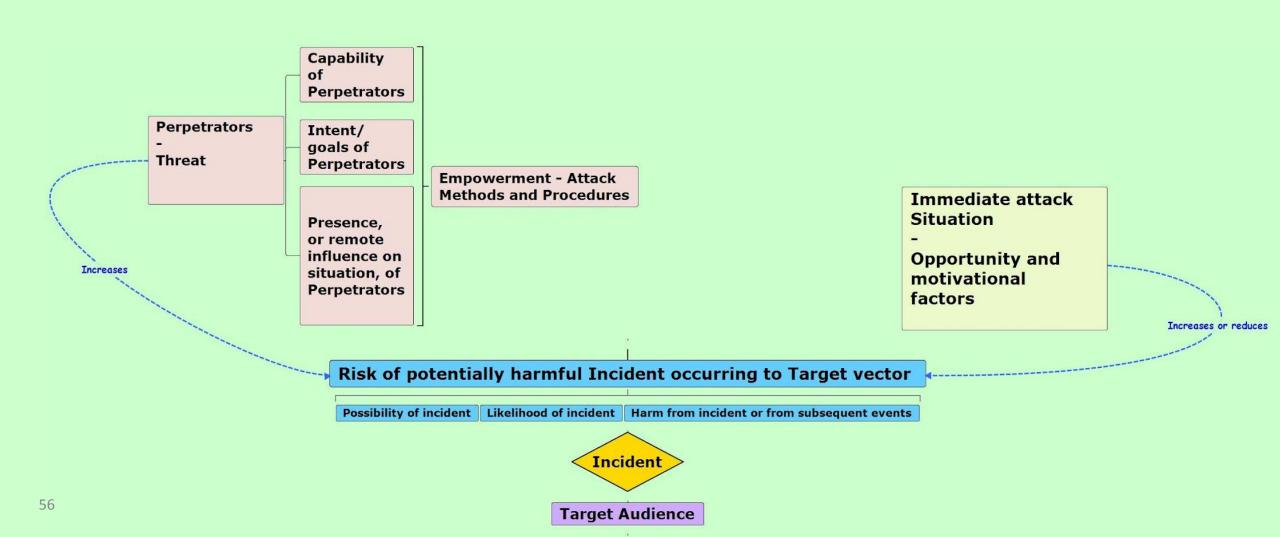
The Threat from Perpetrators combines with Opportunity factors in the Immediate attack Situation, to generate the Risk of terrorist or crime Incidents directed against the Target vector



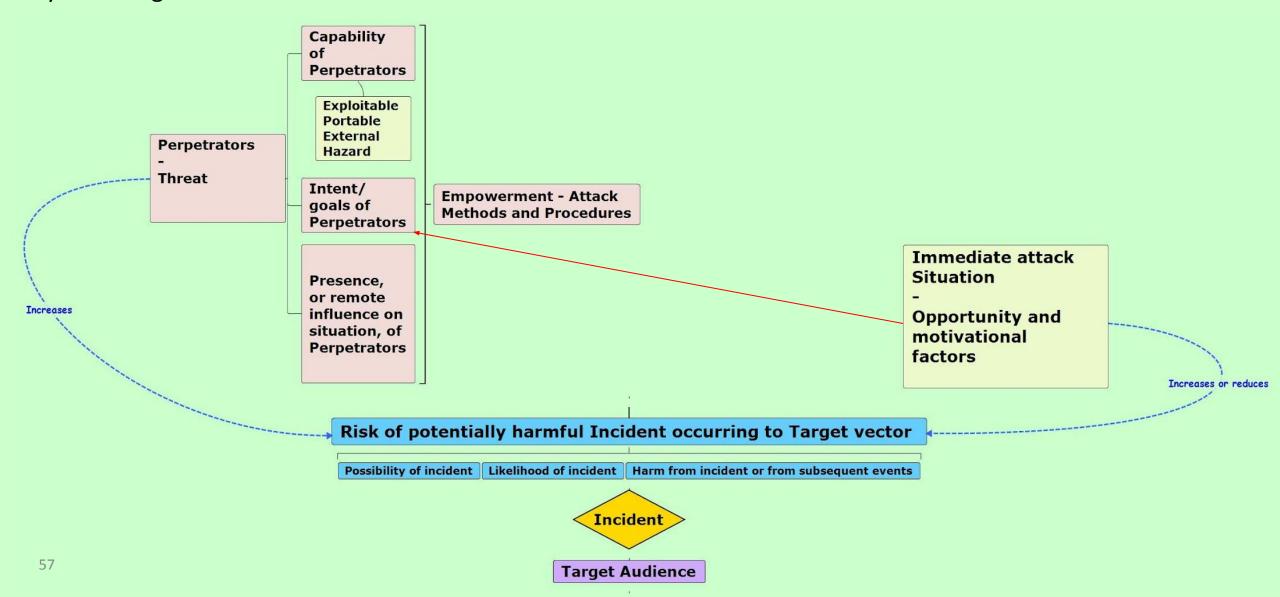
#### The Threat from Perpetrators comprises their

- Capability
- Intent and Goals
- Presence which could be physically in the Situation, or with remote access and influence on it, including via the Internet, or drones

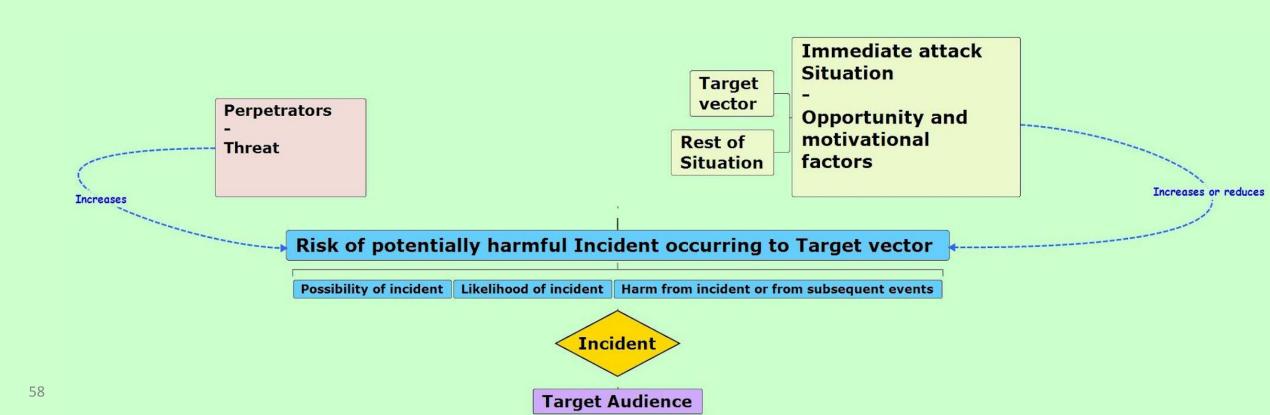
Together these empower them to deliver a range of attack methods and follow a range of attack procedures



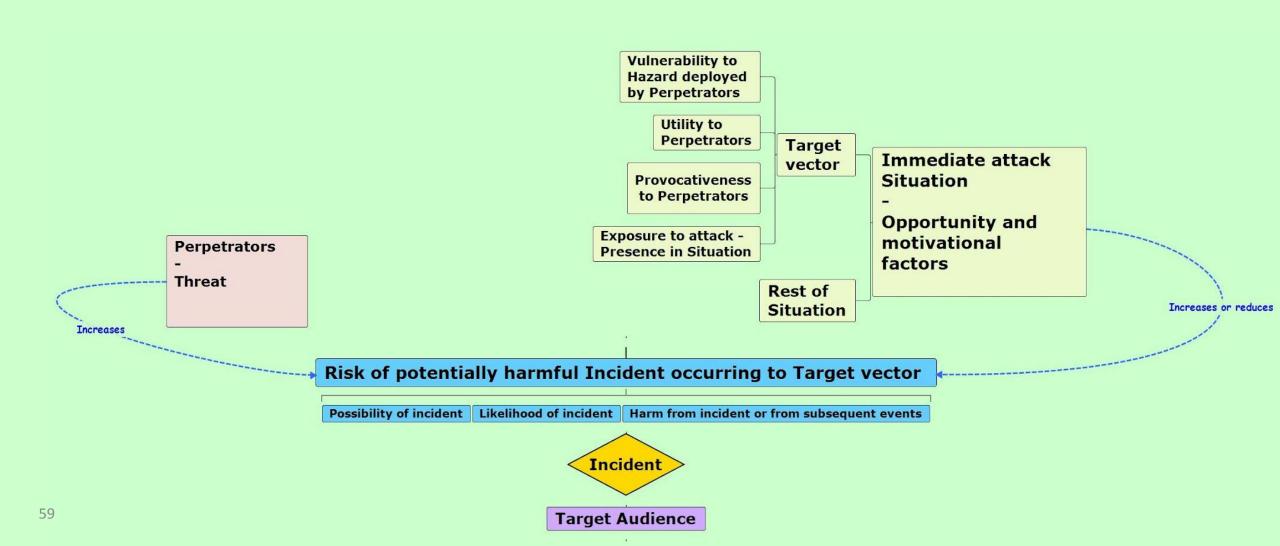
On the **Situational** side the environment supplies not only various Opportunity factors, but also motivating influences on the Perpetrators such as 'provocations', and Exploitable portable external hazards that they can bring in such as fuel tankers



We can divide the Situational influences into those relating to the Target vector (people, assets or network the Perpetrators wish to attack) and the remainder

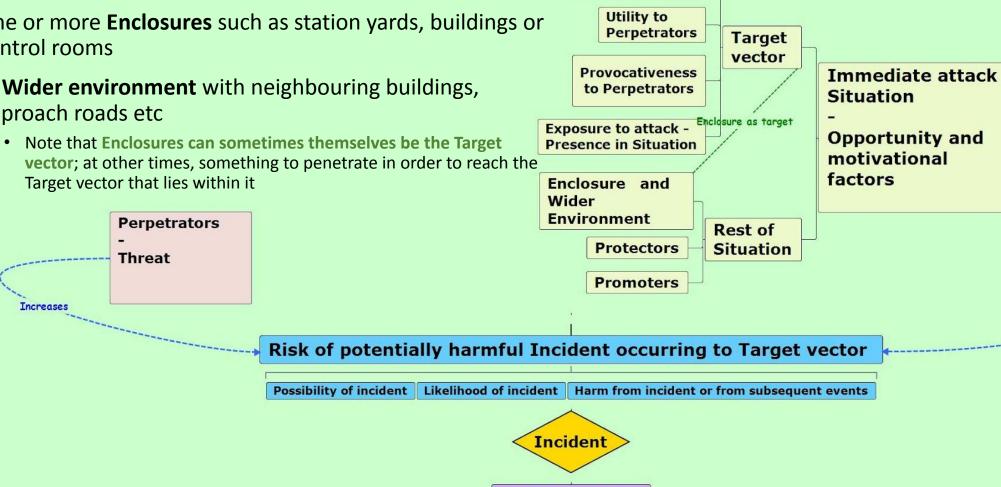


The **Target Vector's** attributes include Vulnerability to particular Hazards, utility and provocativeness to Perpetrators, and some level of Exposure to attack – they are present in the situation and in some way accessible



#### The rest of the Situation comprises

- **Protectors** roles undertaken by people who reduce the Risk of attack before it happens or when underway – they may be staff, passengers, police, private security
- **Promoters** roles where people increase the Risk of attack, whether inadvertently, carelessly or deliberately
- One or more Enclosures such as station yards, buildings or control rooms
- A Wider environment with neighbouring buildings, approach roads etc



**Target Audience** 

**Vulnerability to** 

Hazard deployed

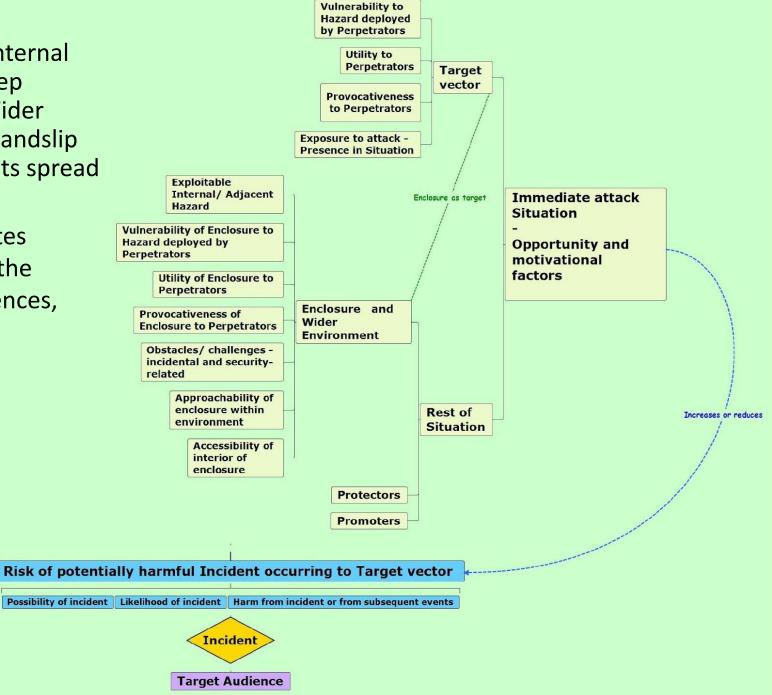
Increases or reduces

by Perpetrators

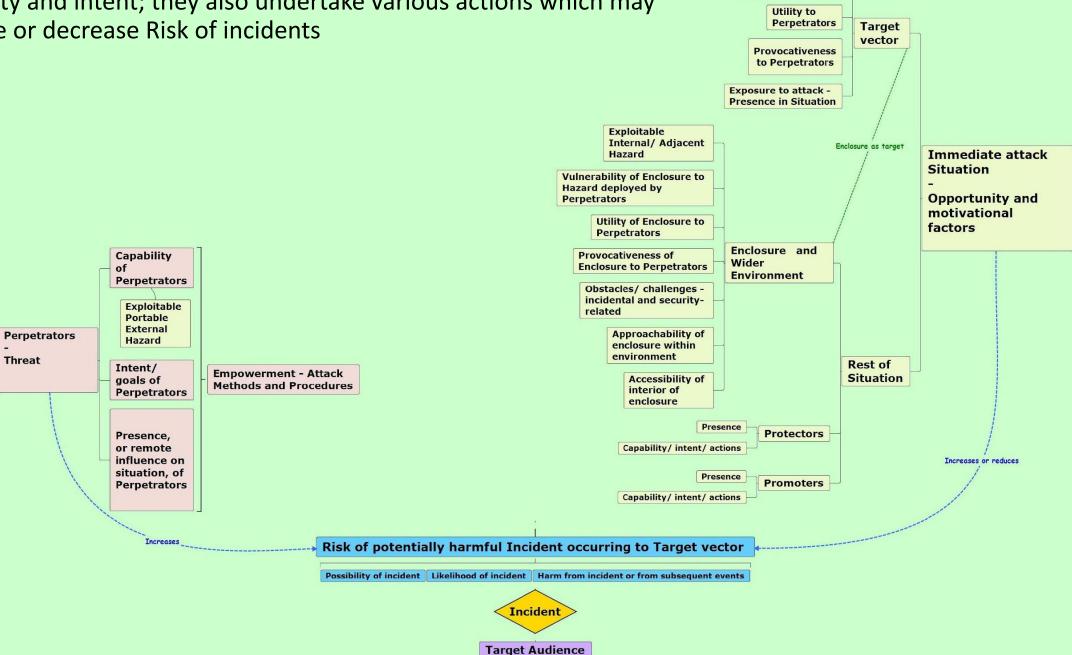
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#### The Enclosure

- May contain various exploitable internal Hazards (e.g. a fuel store, or a steep escalator); as may the adjacent Wider environment (e.g. a flood, fire or landslip could be precipitated whose effects spread to the MMPT)
- The Enclosure has various attributes including its own Vulnerability to the various Hazards, motivating influences, approachability and accessibility

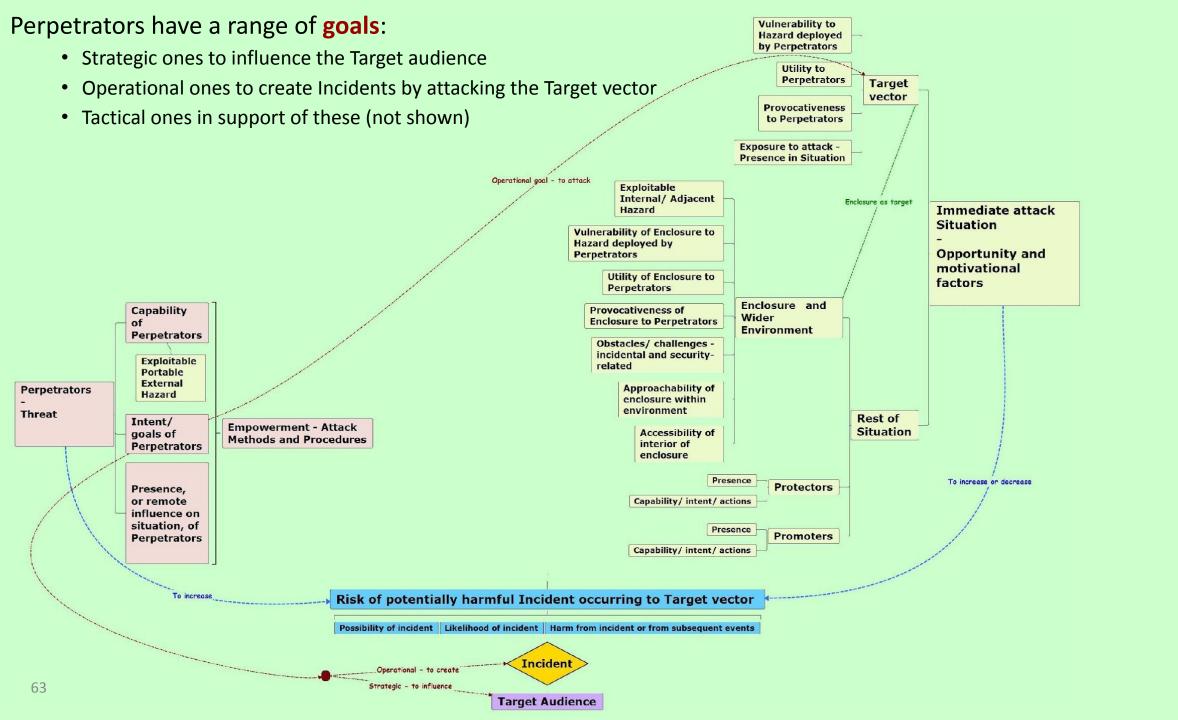


Like Perpetrators, Protectors and Promoters have attributes of presence, capability and intent; they also undertake various actions which may increase or decrease Risk of incidents



Vulnerability to

Hazard deployed by Perpetrators

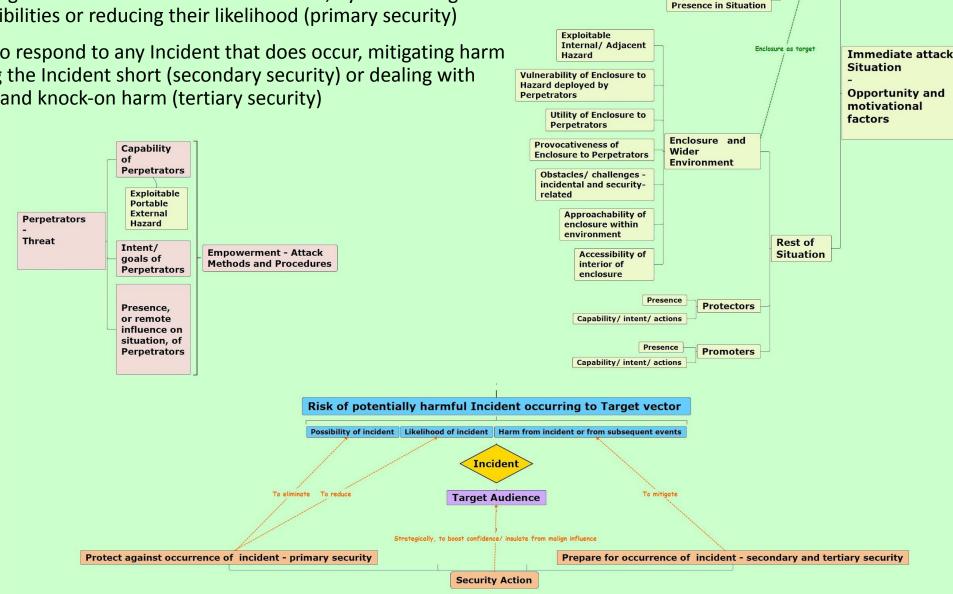


Security action aims, Strategically, to boost the confidence of the Target audience and insulate them from malign influence

Operationally, security comprises:

64

- **Protecting** against the occurrence of the Incident, by eliminating attack possibilities or reducing their likelihood (primary security)
- **Preparing** to respond to any Incident that does occur, mitigating harm by stopping the Incident short (secondary security) or dealing with immediate and knock-on harm (tertiary security)



**Vulnerability to** 

Hazard deployed by Perpetrators

> Utility to Perpetrators

**Provocativeness** to Perpetrators

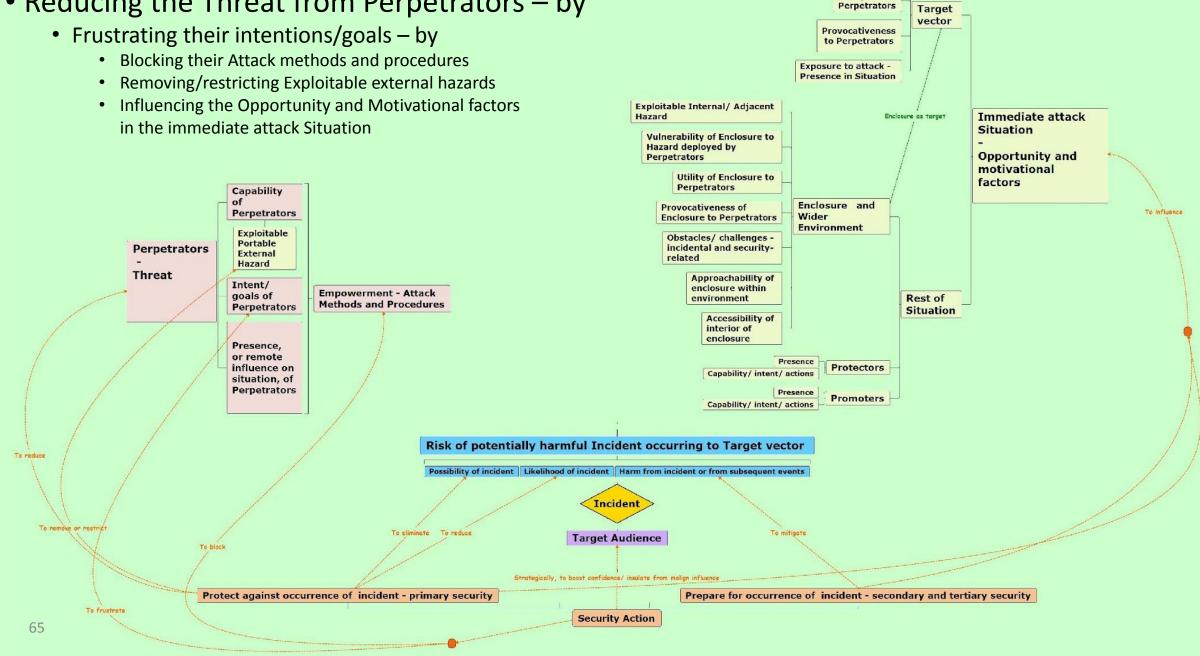
Exposure to attack -

Target

vector

#### In greater operational detail, Security is about

Reducing the Threat from Perpetrators – by



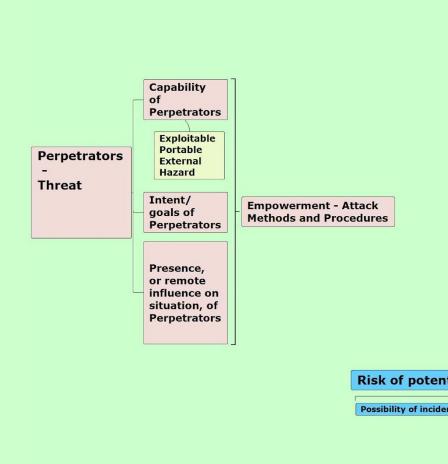
Vulnerability to

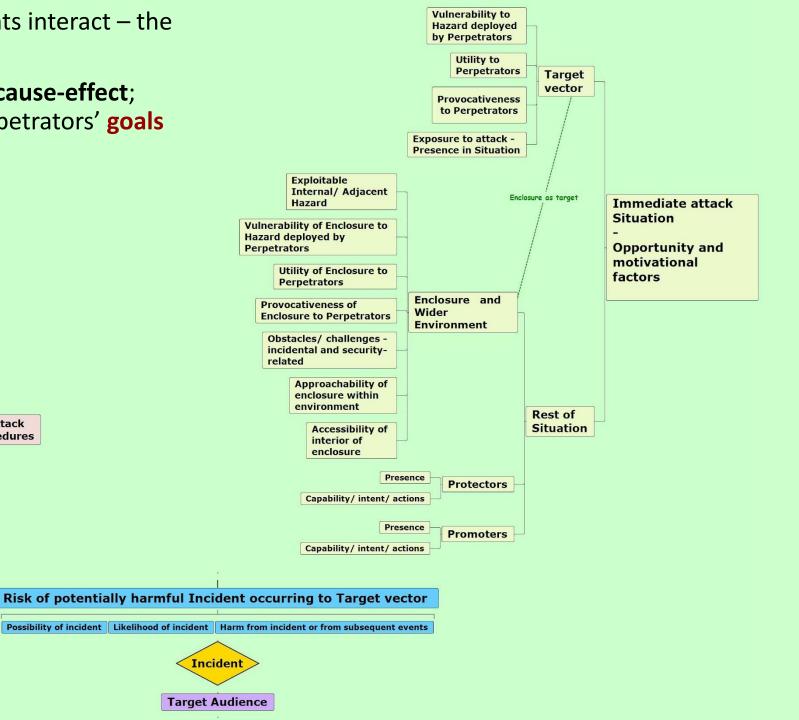
Hazard deployed by Perpetrators

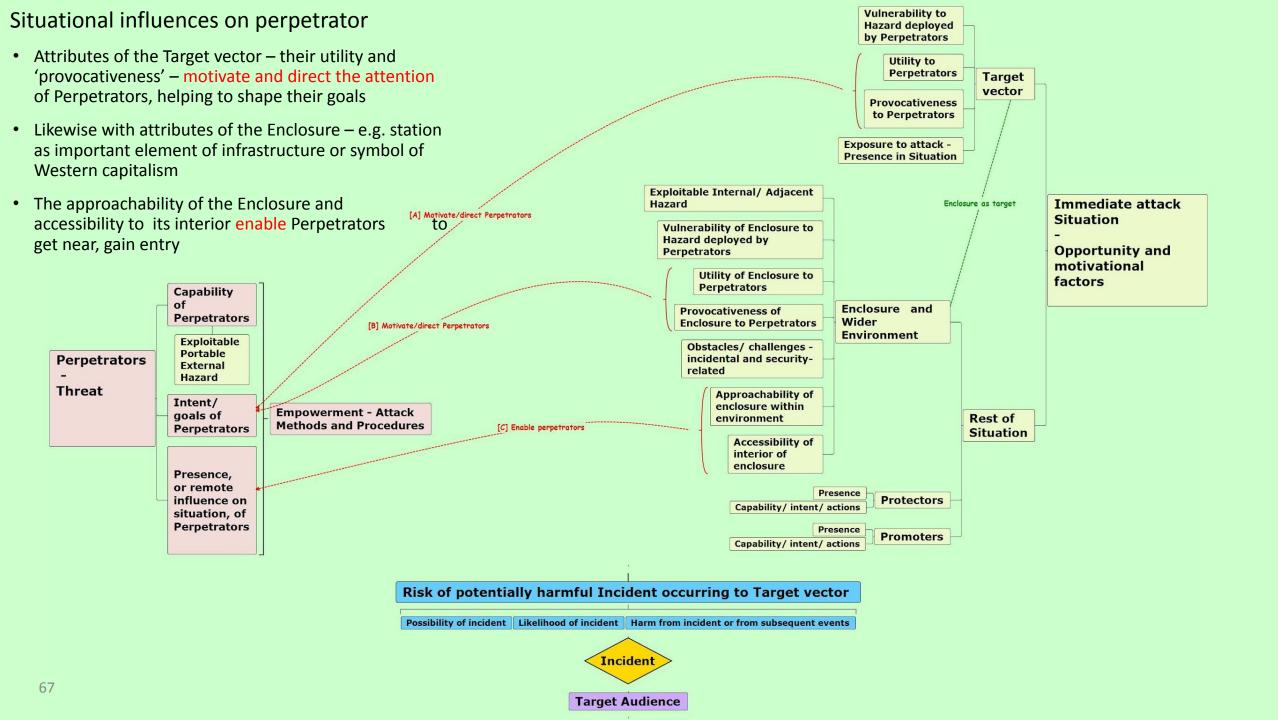
Utility to

Now we consider how the components interact – the **dynamics** of the incidents

Some of these are best described as **cause-effect**; others by a purposive account of perpetrators' **goals** 





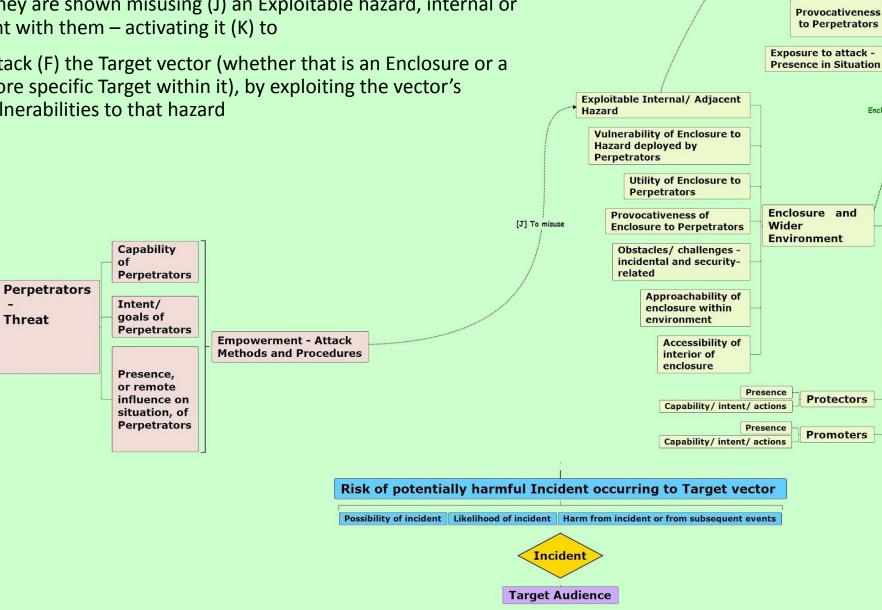


Tactically, the Perpetrators deploy their Attack methods and procedures in various ways in service of their goals

**Black** lines show the sequences of Perpetrator action

Here they are shown misusing (J) an Exploitable hazard, internal or brought with them – activating it (K) to

Attack (F) the Target vector (whether that is an Enclosure or a more specific Target within it), by exploiting the vector's vulnerabilities to that hazard



Immediate attack Situation

**Vulnerability to** 

Hazard deployed

Utility to Perpetrators

Provocativeness

to Perpetrators

Protectors

**Promoters** 

by Perpetrators

[K] Activated to exploit

[F] To attack

Target

vector

Enclosure as target

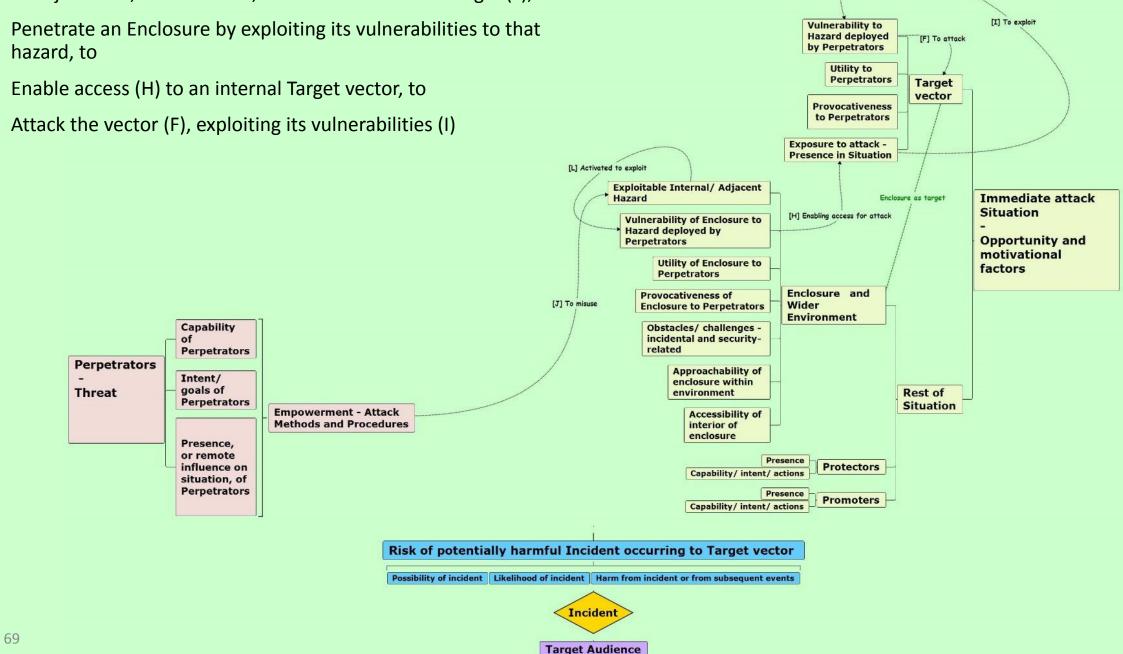
Rest of

Situation

Opportunity and motivational factors

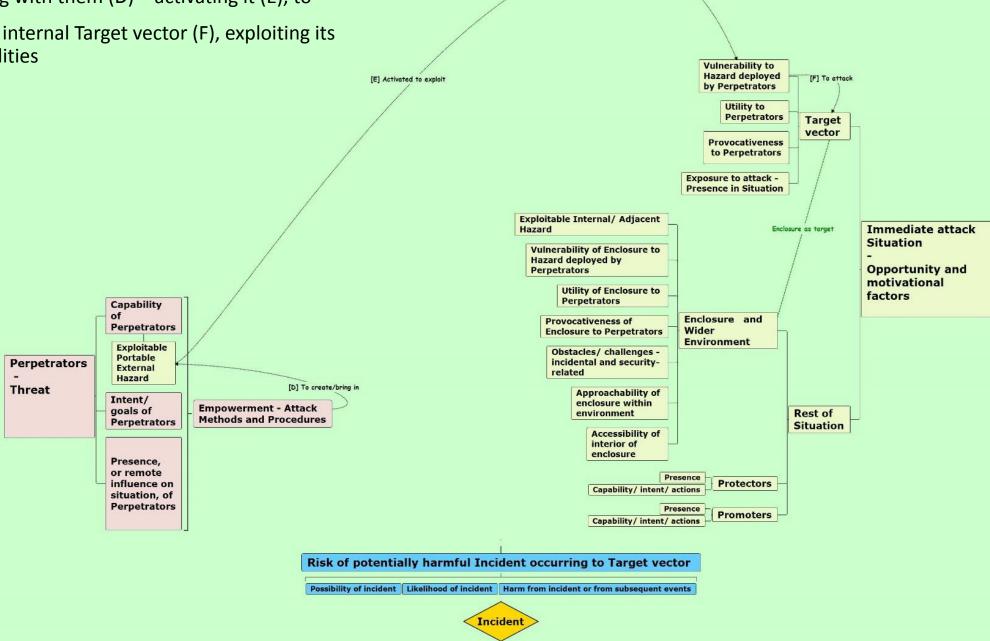
Here the Perpetrators are shown misusing (J) an Exploitable hazard that is adjacent to, or lies within, the Enclosure – activating it (L), to

- hazard, to



Here the Perpetrators are shown misusing an Exploitable hazard that they bring with them (D) – activating it (E), to

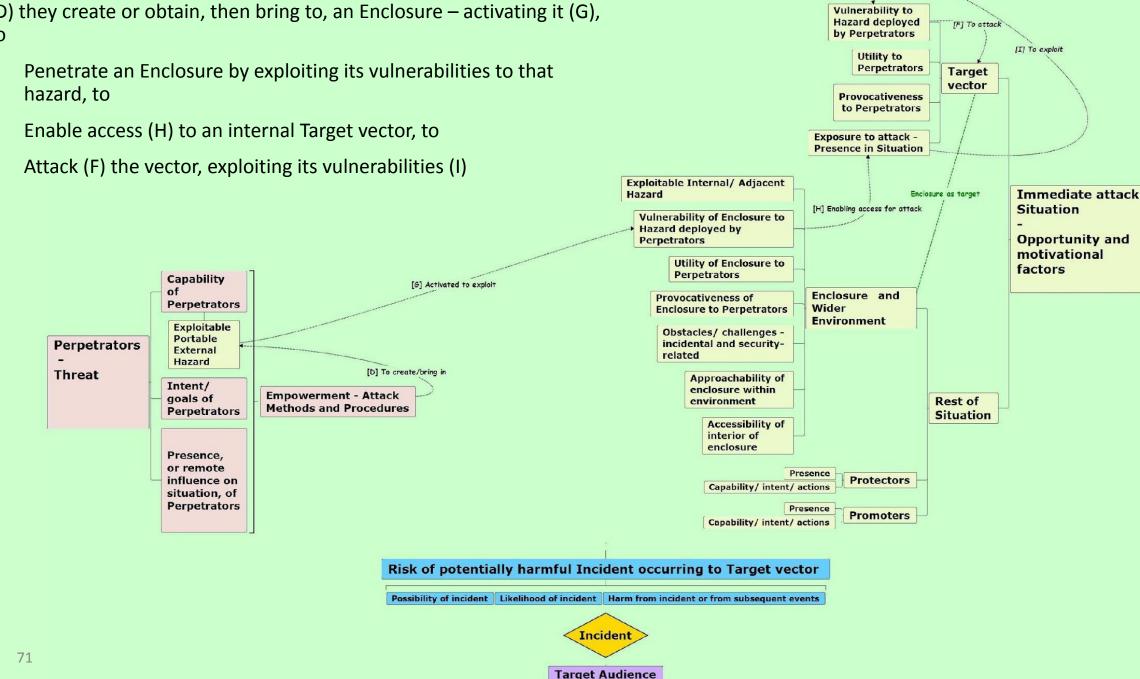
Attack an internal Target vector (F), exploiting its vulnerabilities

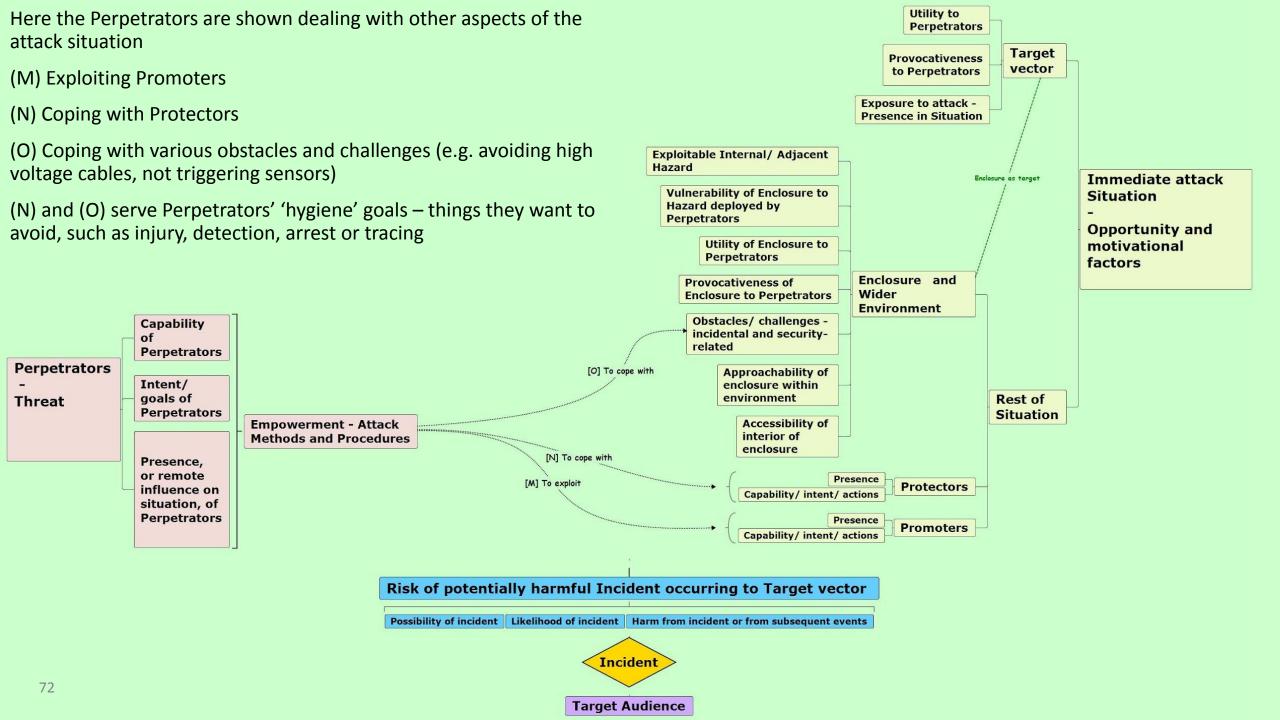


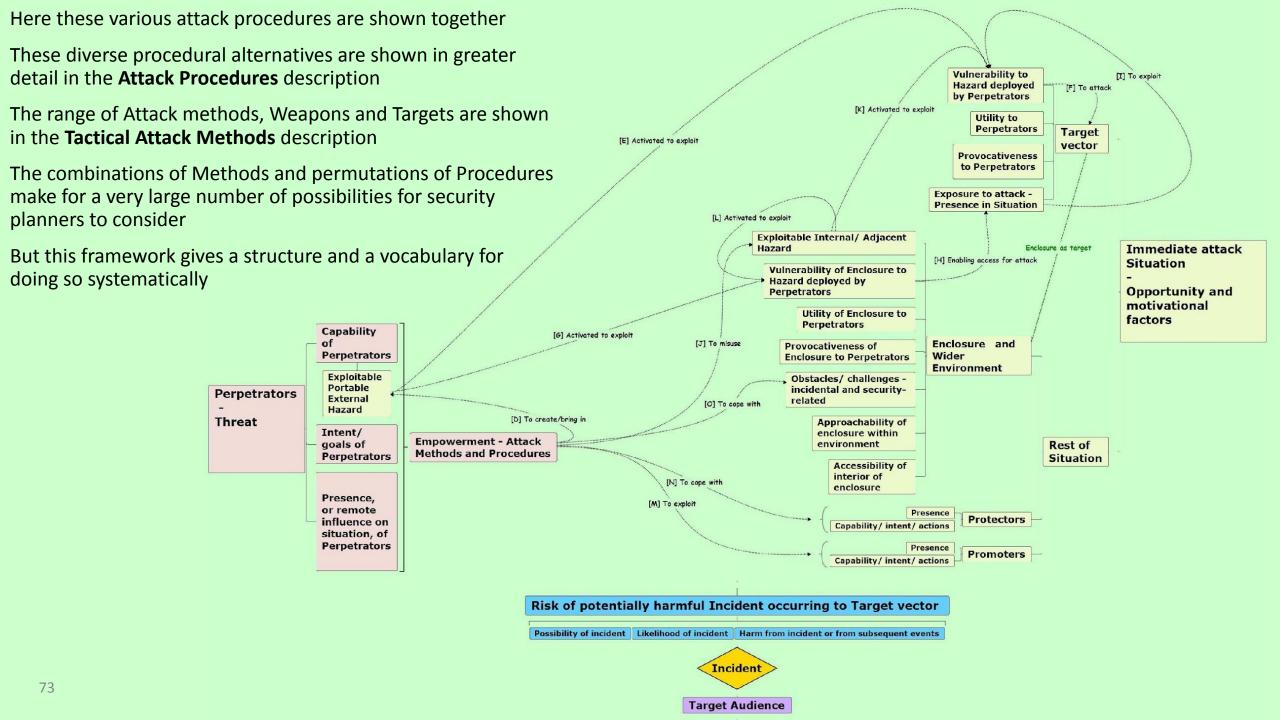
**Target Audience** 

Here the Perpetrators are shown misusing an Exploitable hazard that (D) they create or obtain, then bring to, an Enclosure – activating it (G), to

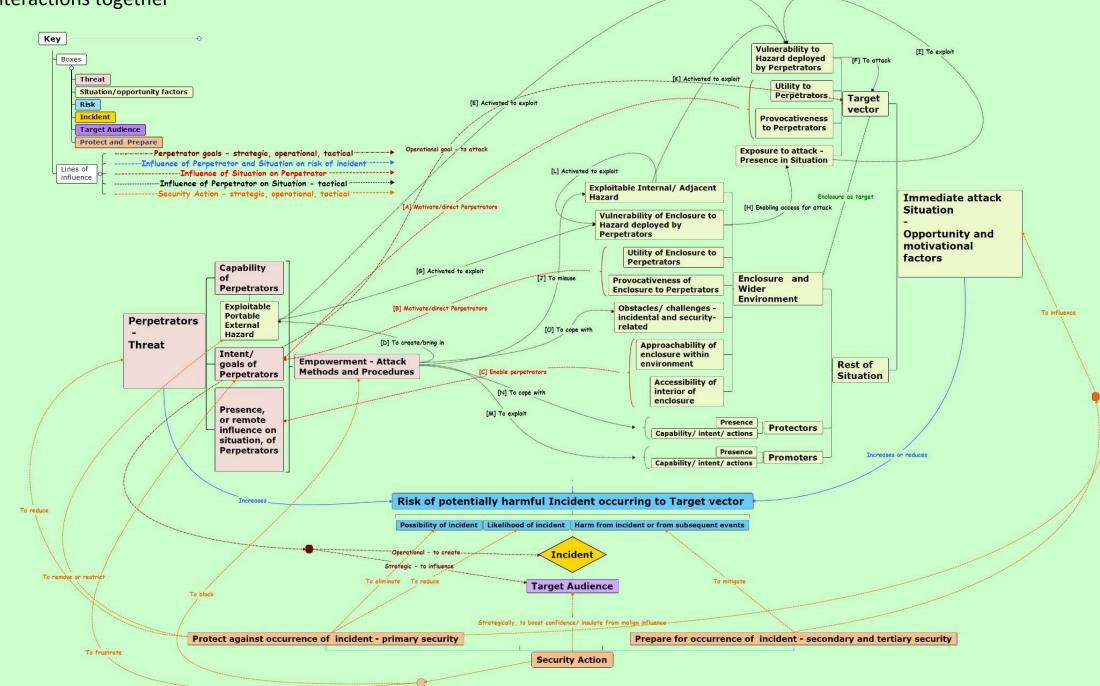
- hazard, to







## Here are all the interactions together



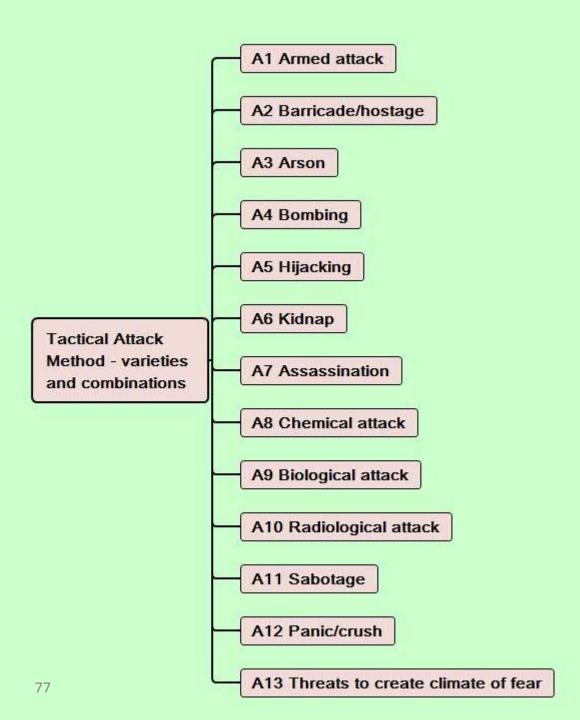
## **Tactical Attack Methods**

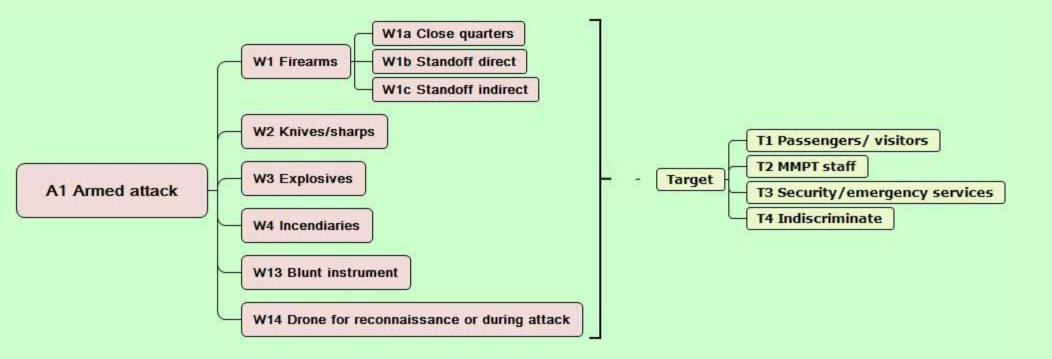


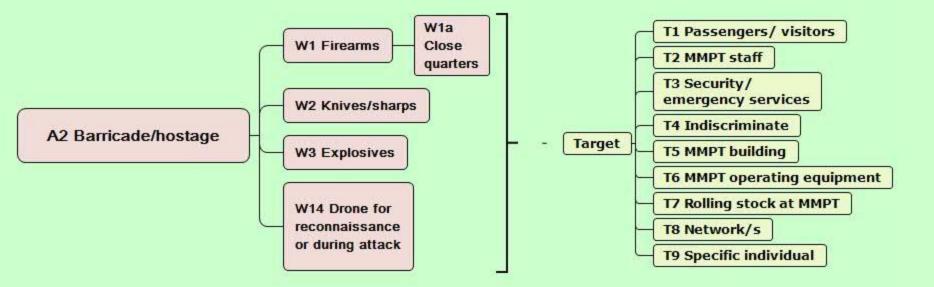
Based on Rand classification of terrorist attacks 1968-2009

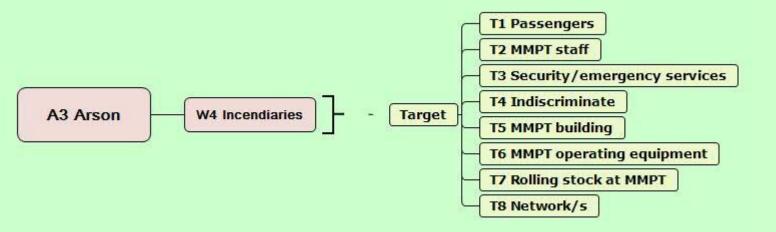
Think Perpetrator

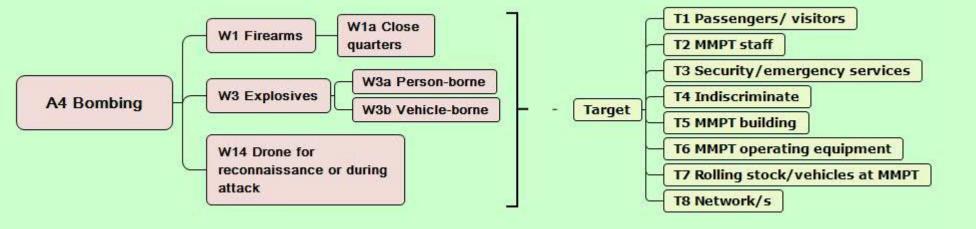
Tactical Attack
Method - varieties
and combinations

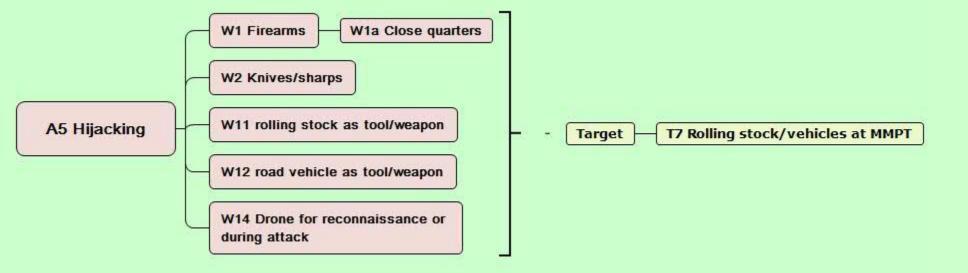


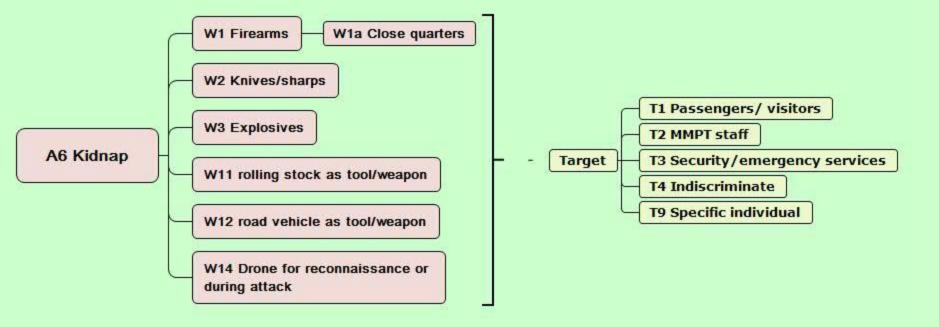


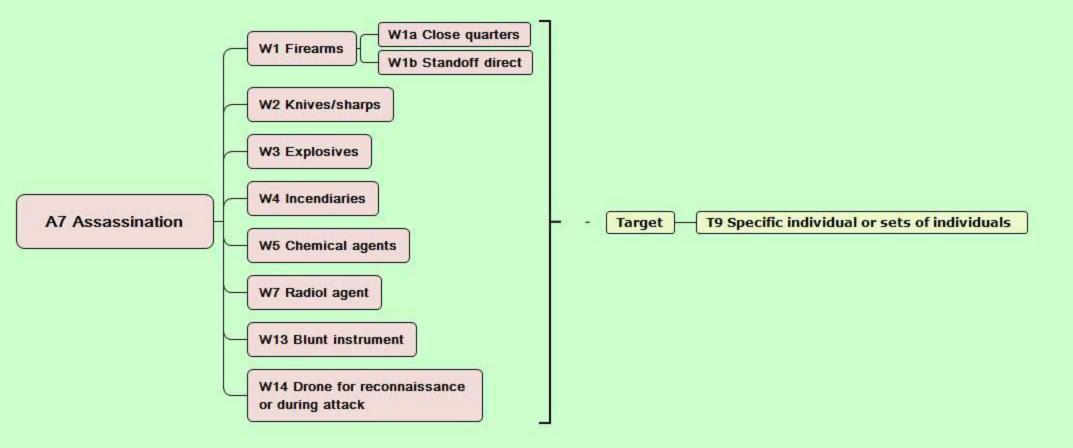


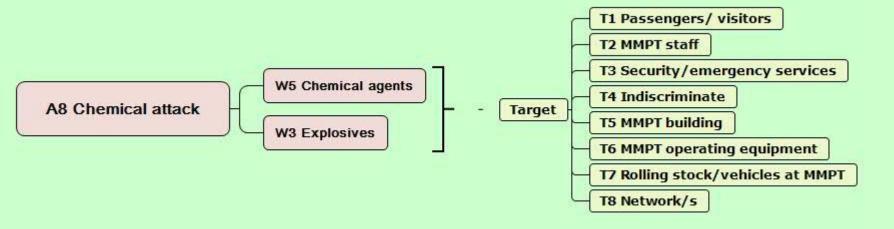




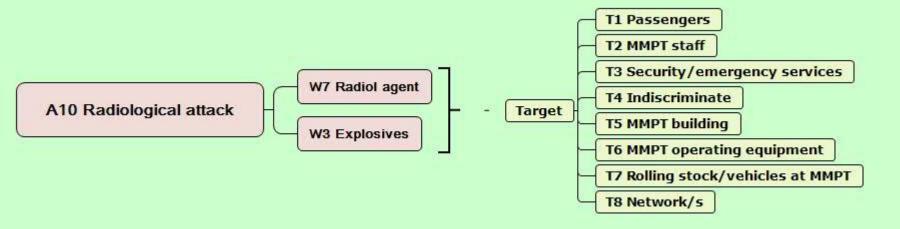


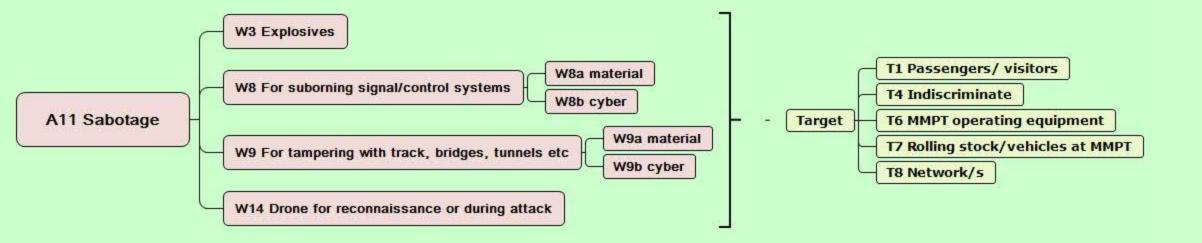


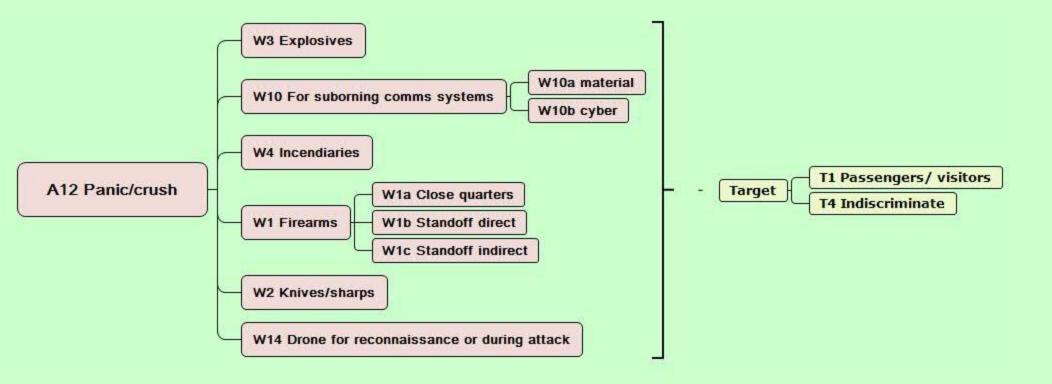












## **Attack Procedure**

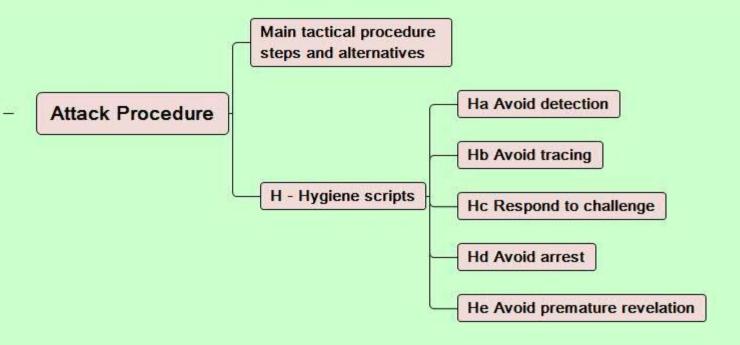


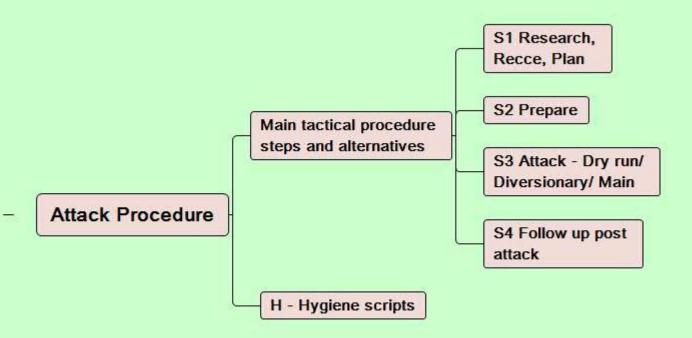
Developed from Project Griffin and the concept of crime scripts

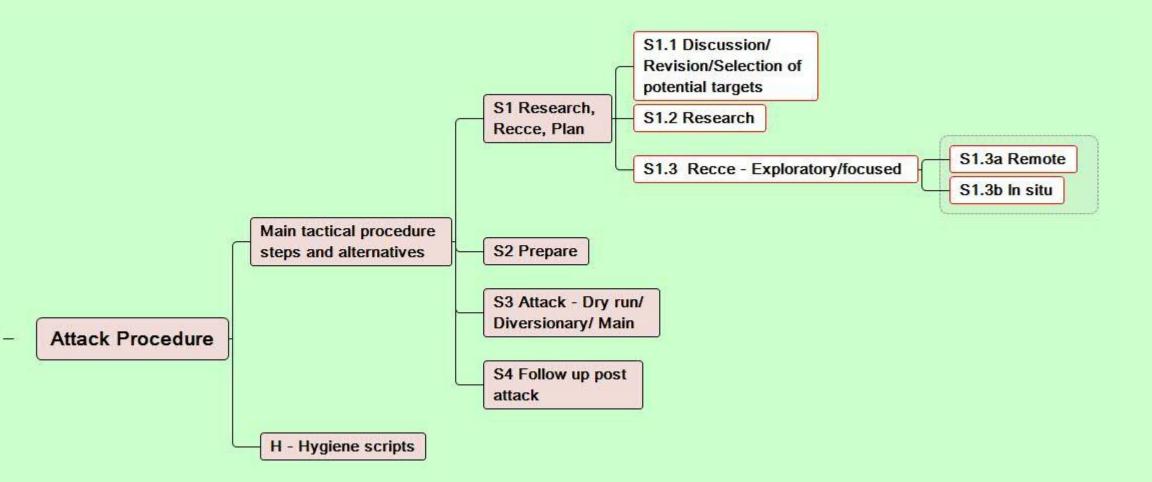
Think Perpetrator, Threat

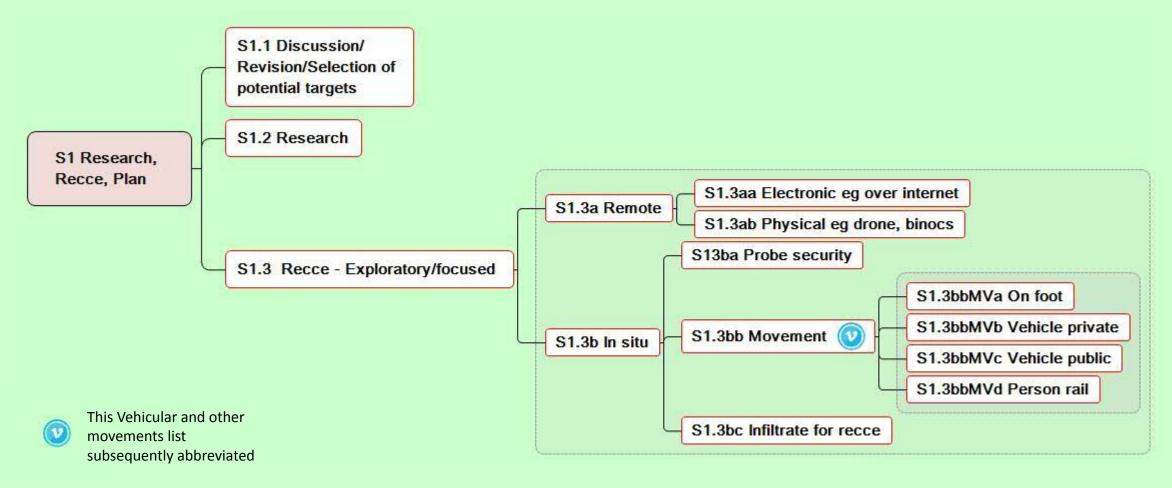
Attack Procedure

H - Hygiene scripts

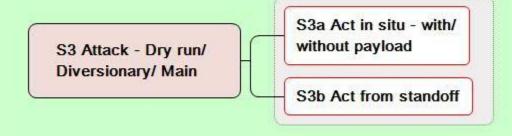


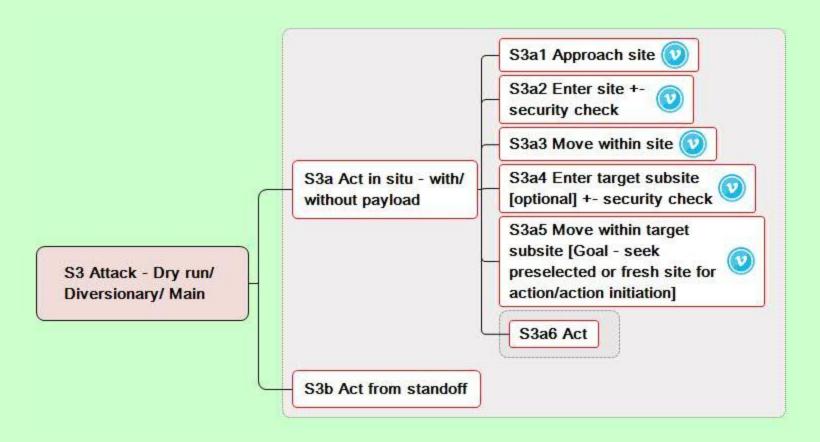


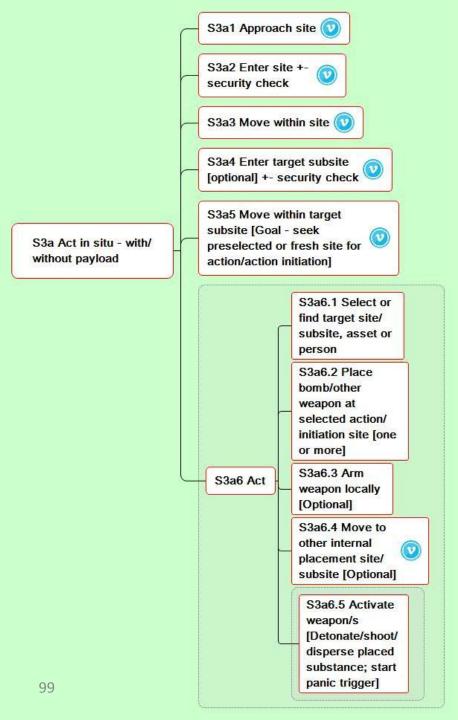


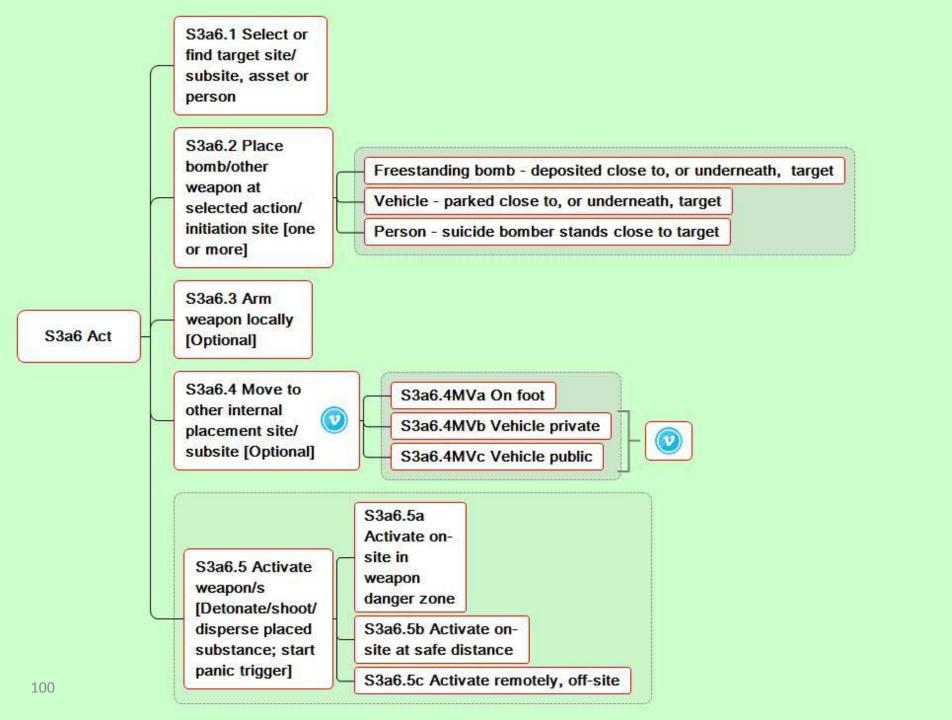




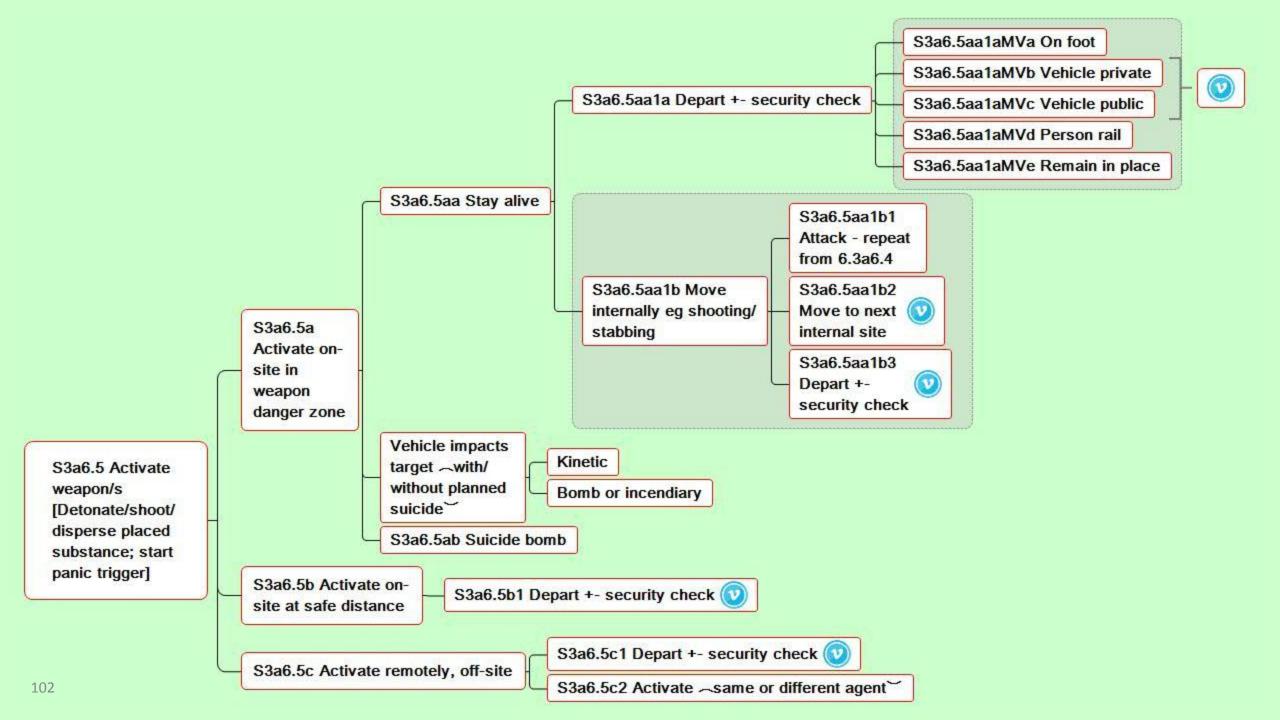


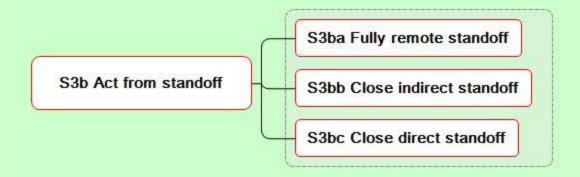


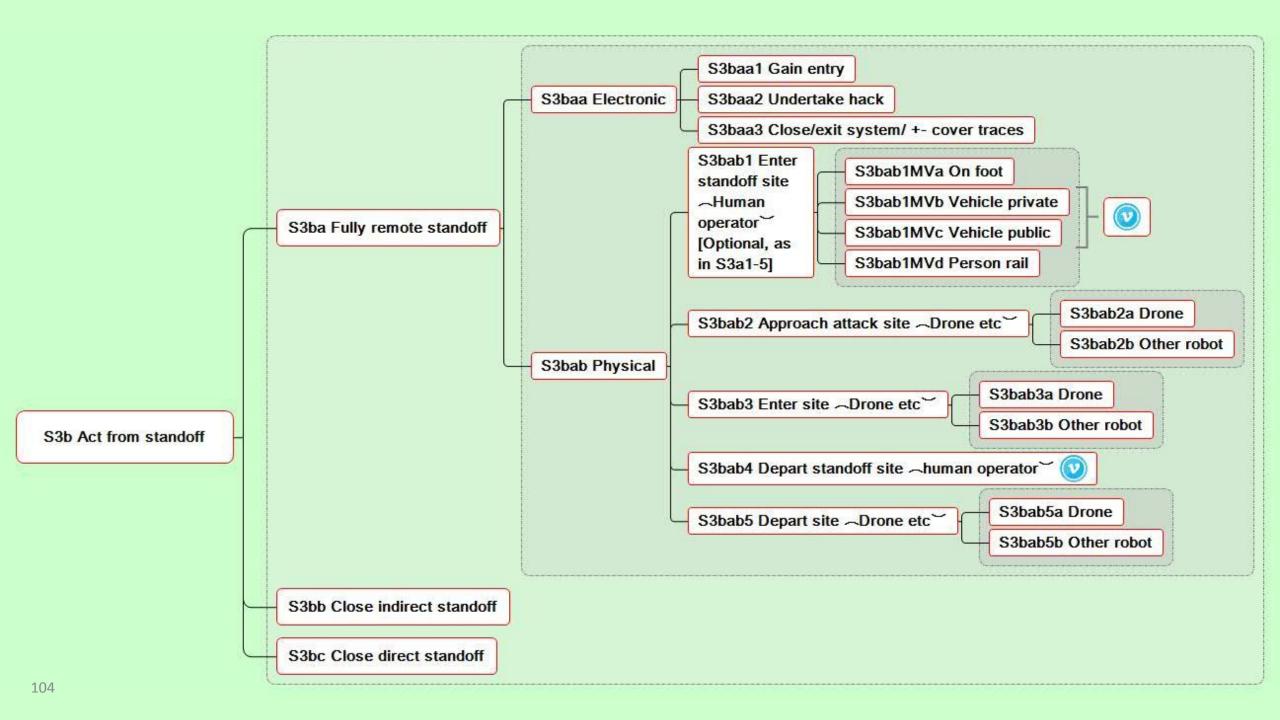


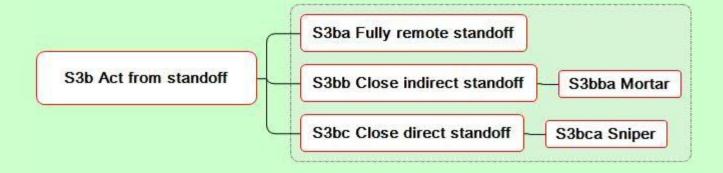


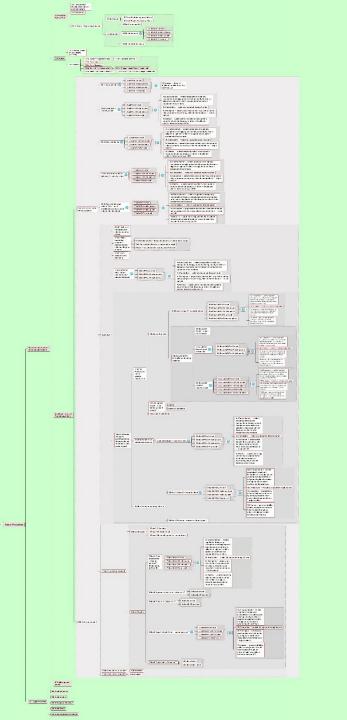










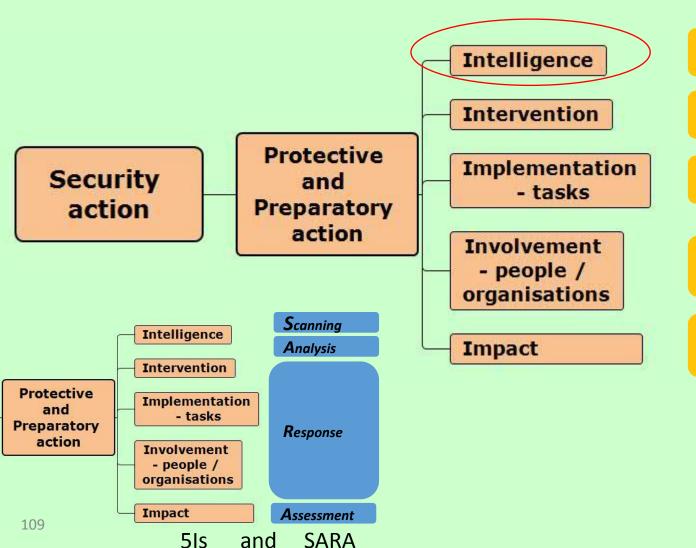


## **Security Action – framework and findings**



Based on the 5Is, CTO, CPTED and a range of other crime science frameworks

Security and Preparatory action



Risks, causes, perpetrators, consequences

Blocking causes/ frustrating perpetrators' goals

Making the Intervention happen in practical terms

Getting people/ organisations to Implement/ support Interventions

Did it work? How? How to improve? Sharing the knowledge

General social/geographical context of the terrorism problem

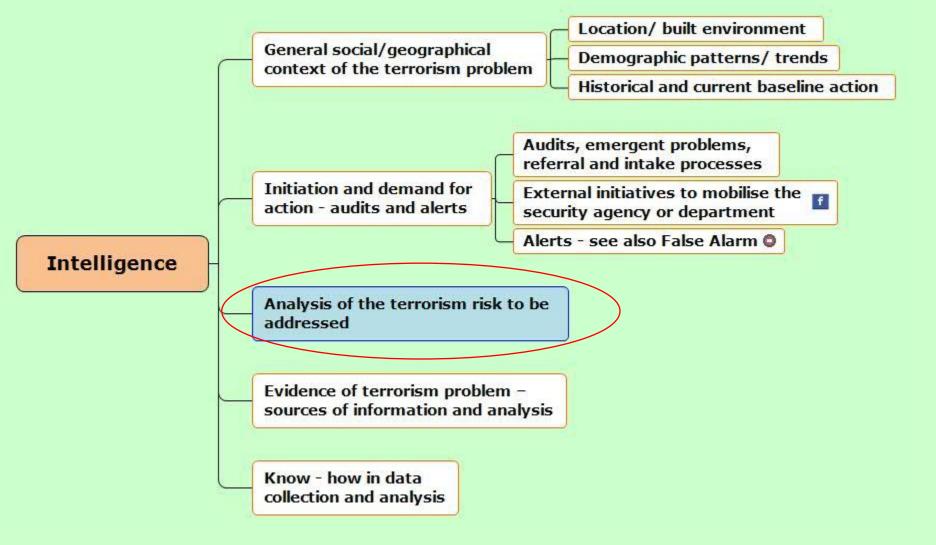
Initiation and demand for action - audits and alerts

Intelligence

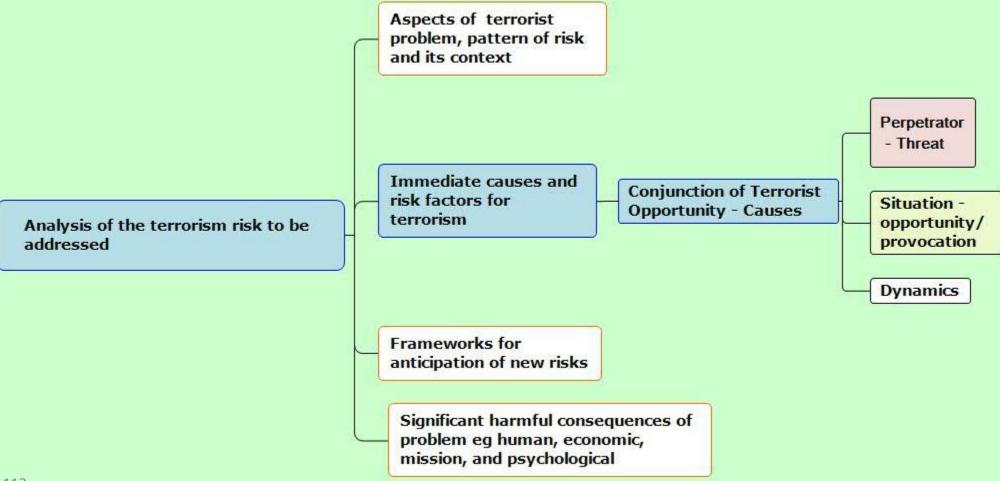
Analysis of the terrorism risk to be addressed

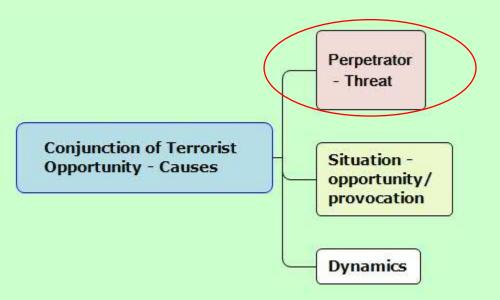
Evidence of terrorism problem – sources of information and analysis

Know - how in data collection and analysis

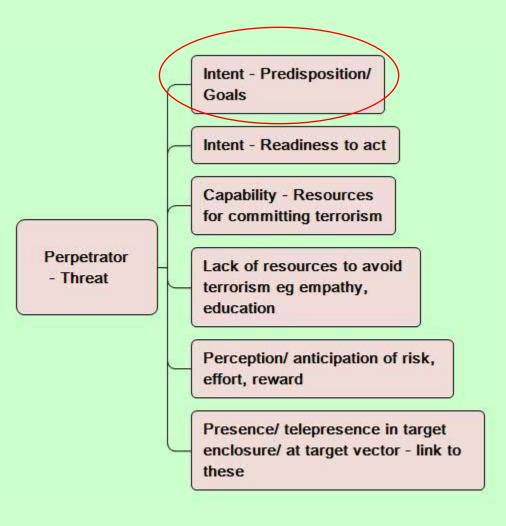


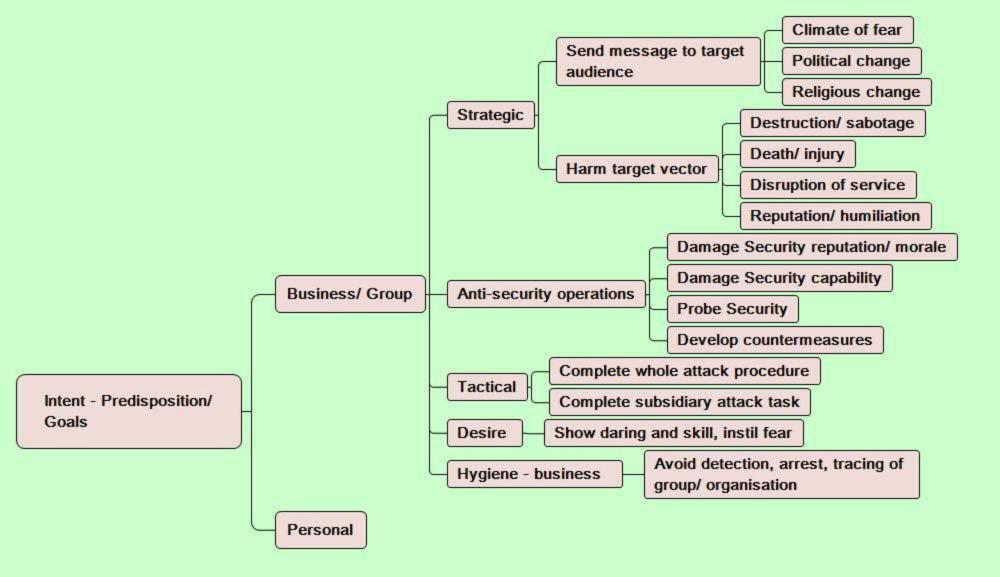
Types of perpetrators Modus Operandi - see Tactical Attack Methods & **Attack Procedures** Target property damaged see Tactical Attack Methods Target premises - see Tactical Attack Methods Target persons/ organisations - see **Tactical Attack Methods** Aspects of terrorist problem, pattern of risk Owners/ managers of property/ premises and its context - see role analysis Immediate physical and social context of event/s Wider physical and social context of event/s Timing of events during day, week or year Whether crime problem recent or of Analysis of the terrorism risk to be long-standing addressed Immediate causes and risk factors for terrorism Frameworks for anticipation of new risks Significant harmful consequences of problem eg human, economic, mission, and psychological 112

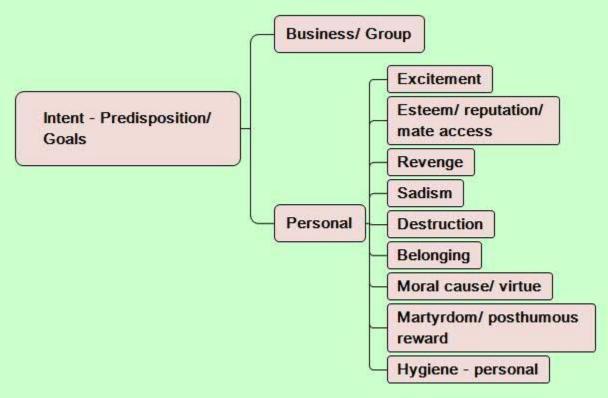




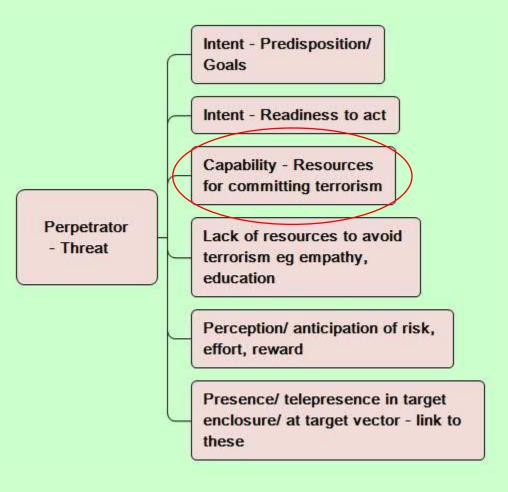
## **Think Perpetrator**

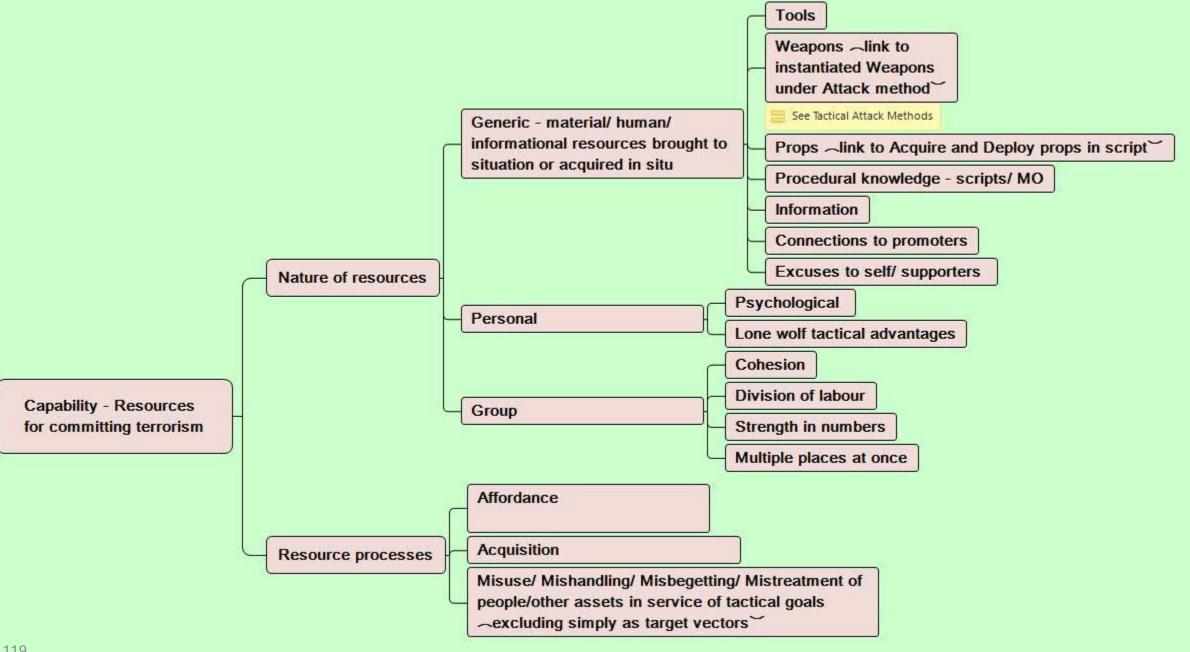


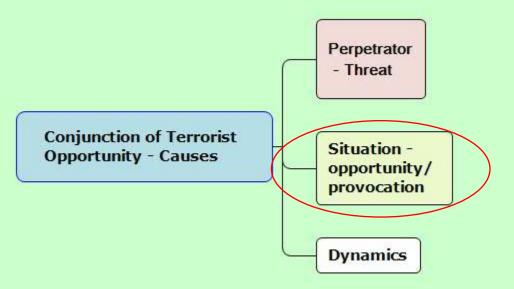




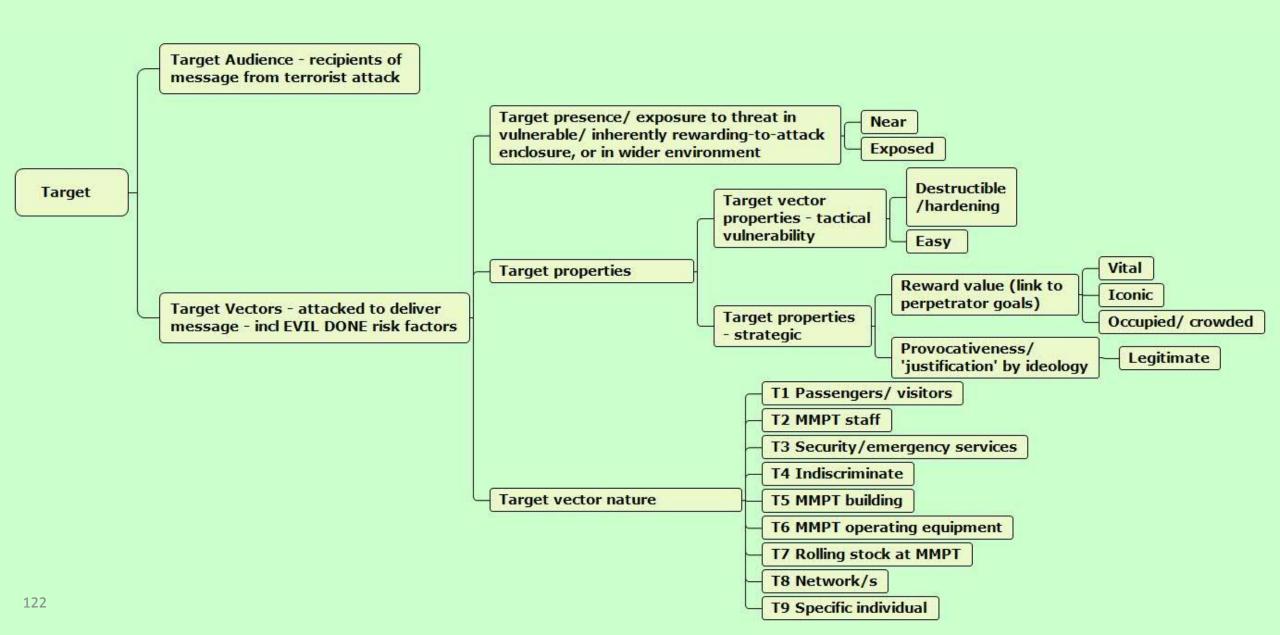
## **Think Perpetrator**



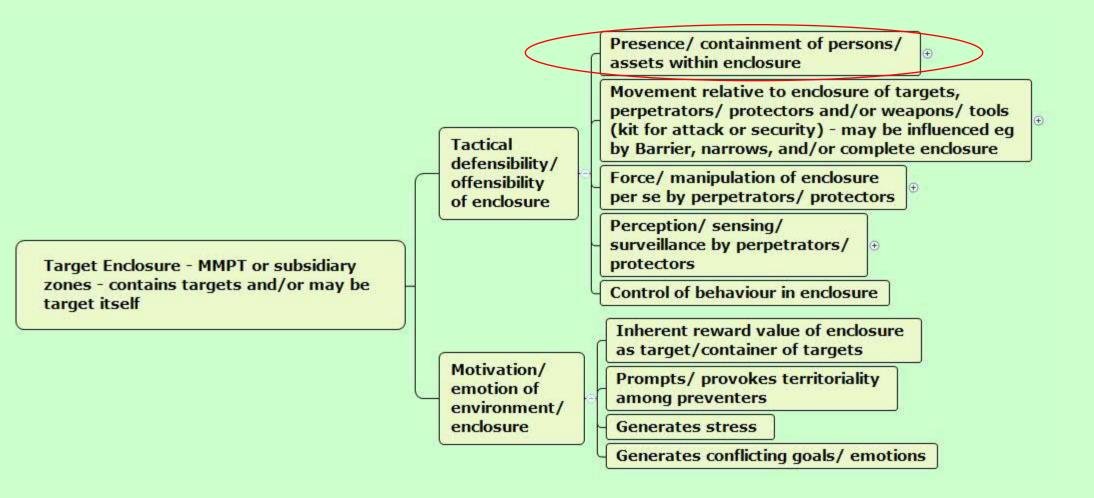


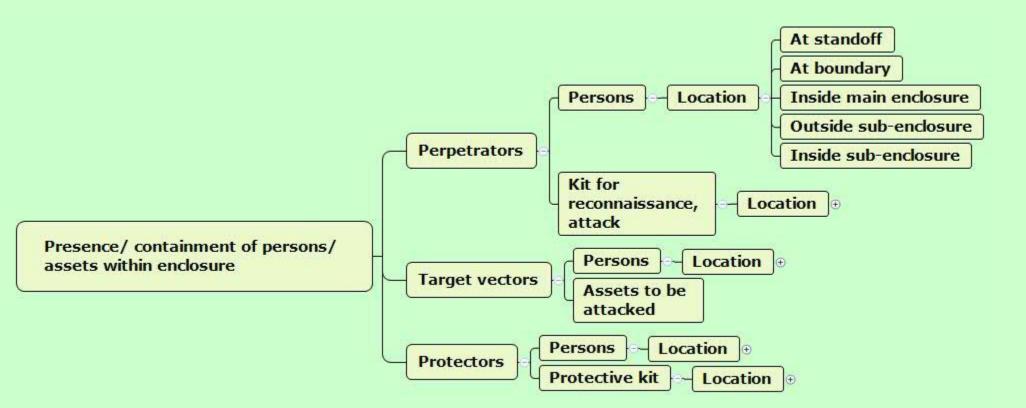


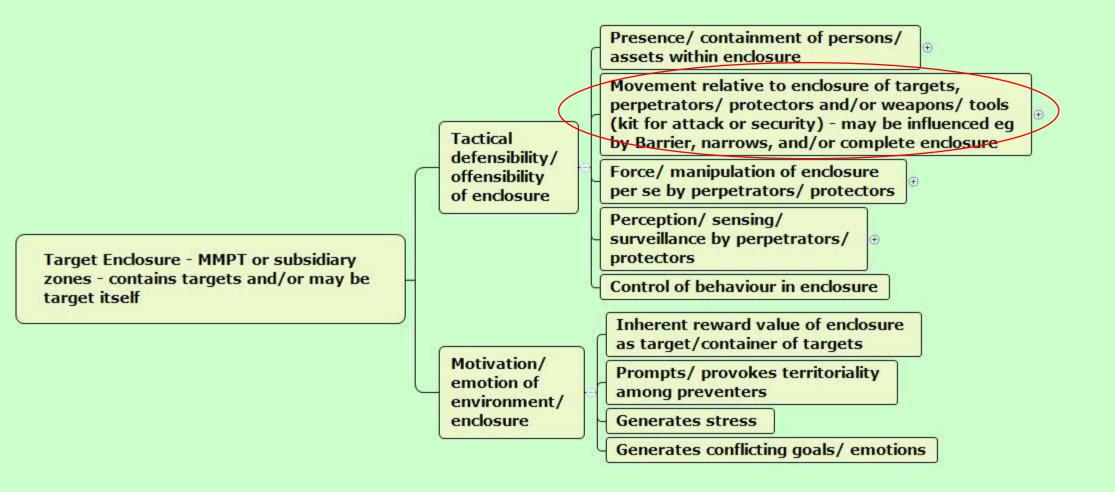


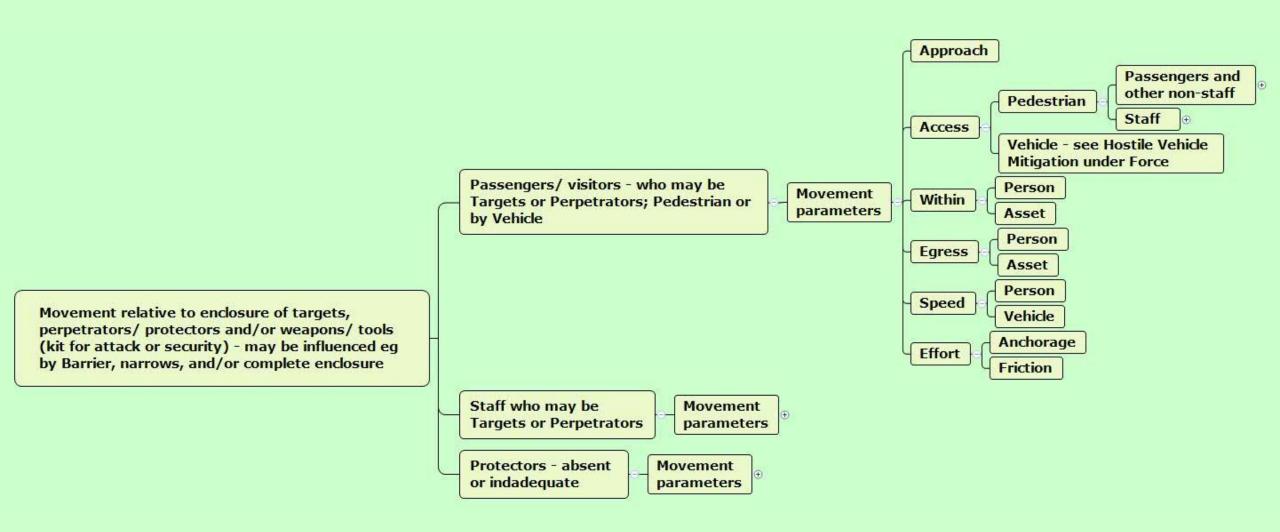


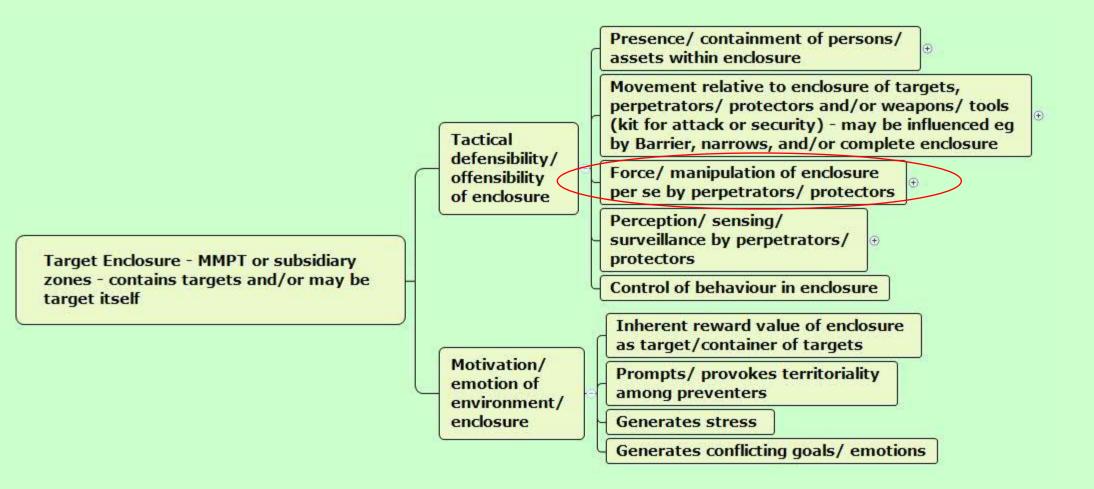


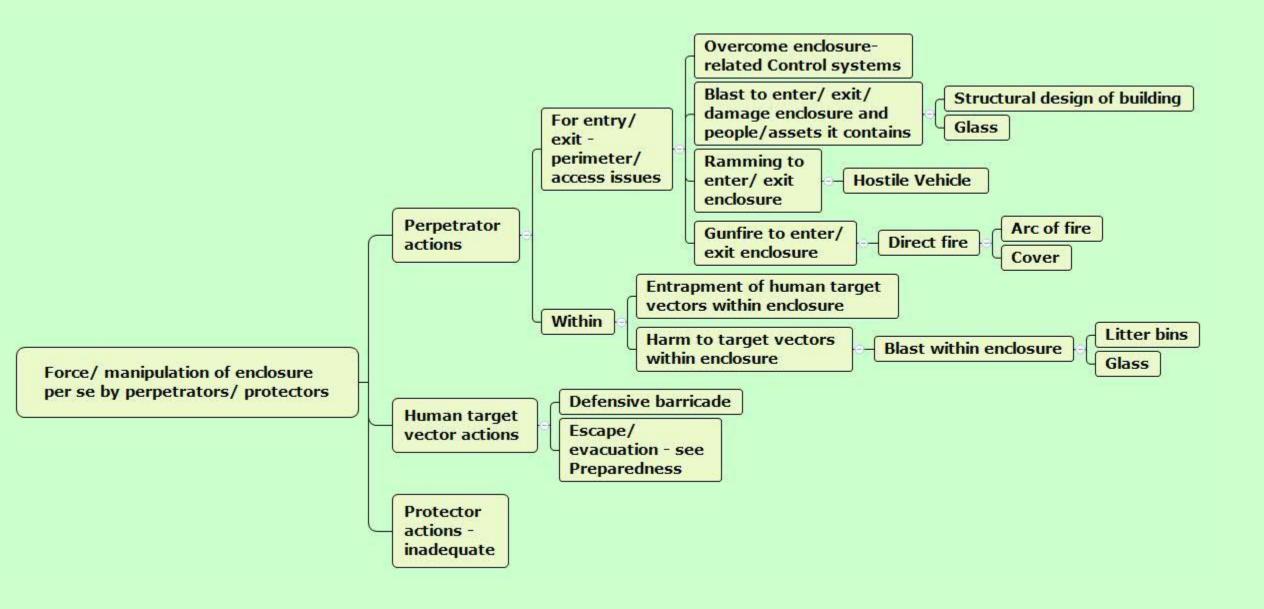


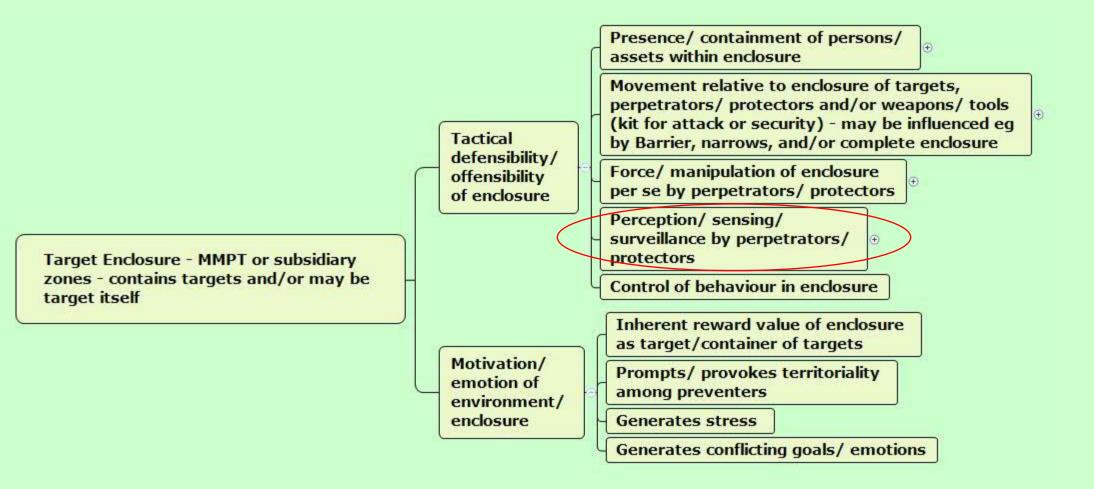


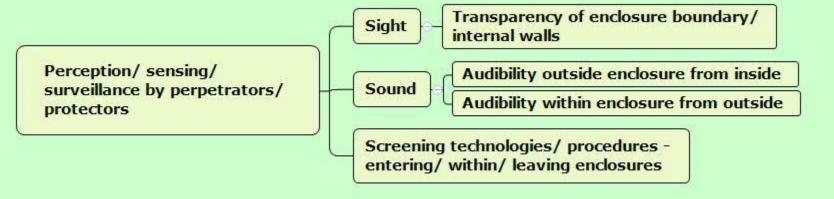


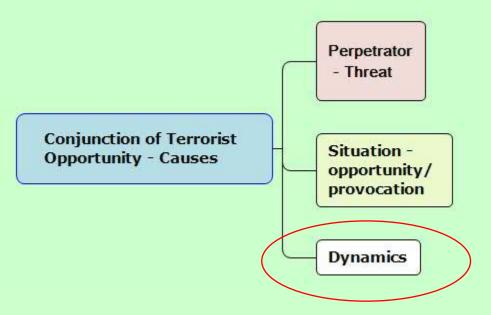


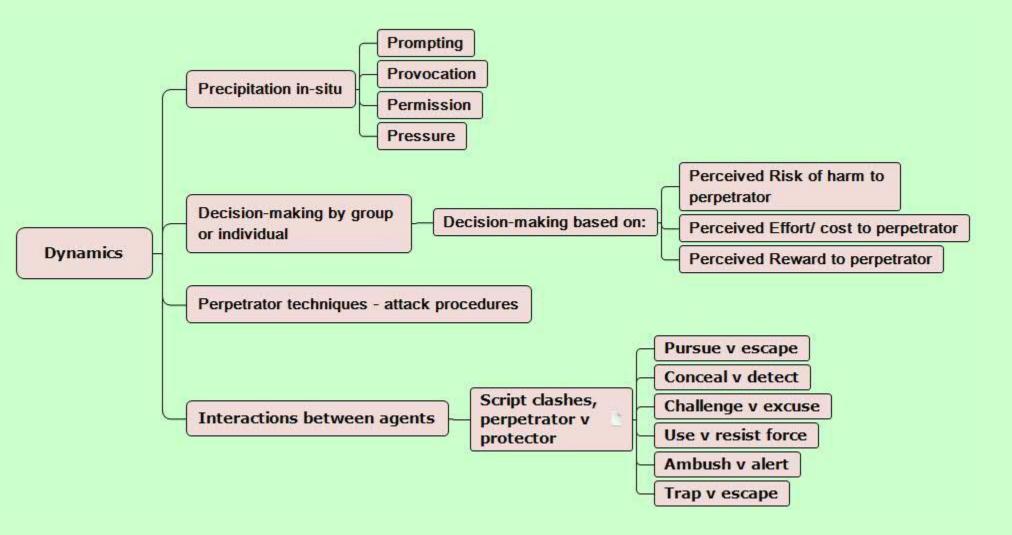












Aspects of terrorist problem, pattern of risk and its context

Immediate causes and risk factors for terrorism

Frameworks for anticipation of new risks

Significant harmful consequences of problem eg human, economic, mission, and psychological

addressed



Significant harmful consequences of problem eg human, economic, mission, and psychological Immediate, including trauma, injury or financial cost

Knock-on effects including fear, restriction of leisure, economic or domestic activity

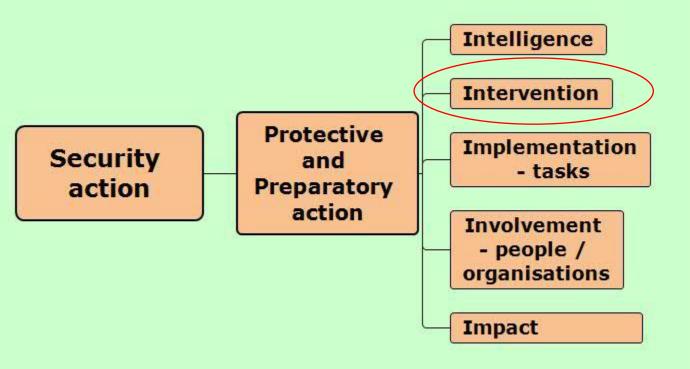
Public transport - loss of societal benefits

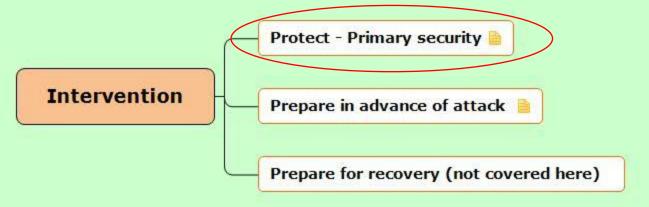
Public transport - loss of business benefits specifically to transport companies

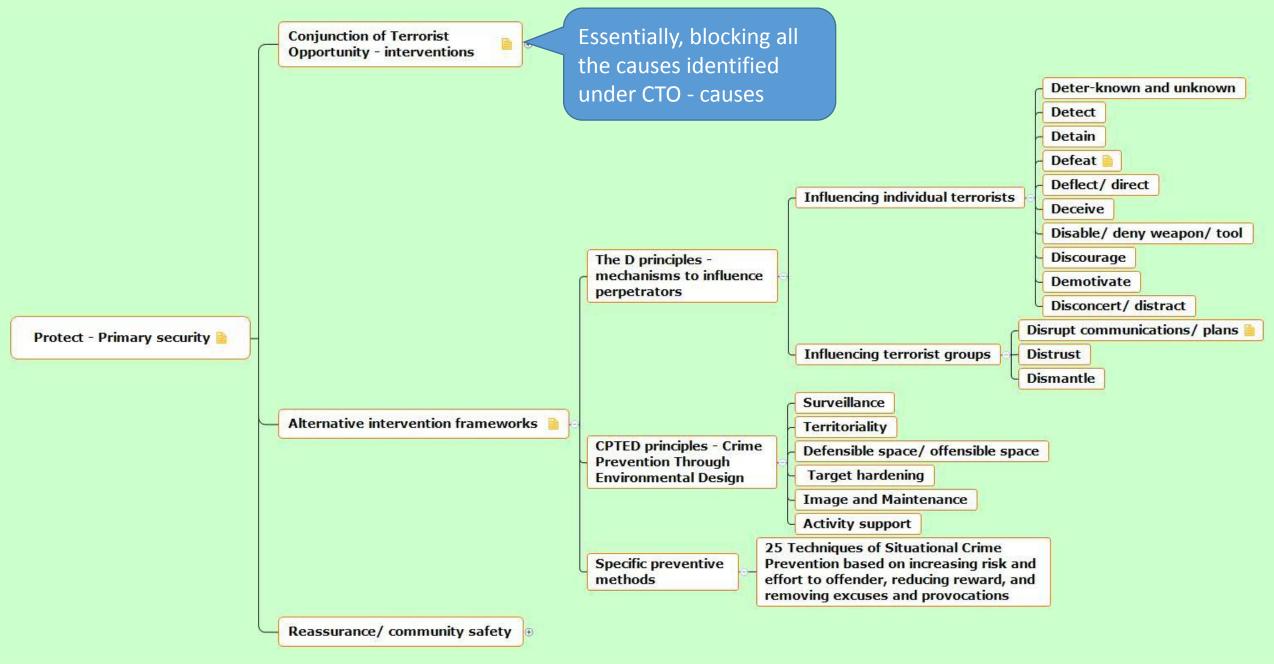
Criticality of target vectors

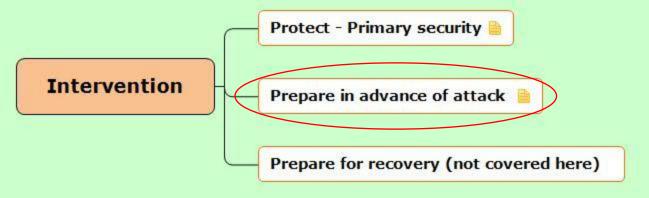
Identification of core functions/ assets of each potential target

Appraise consequences of attack on targets







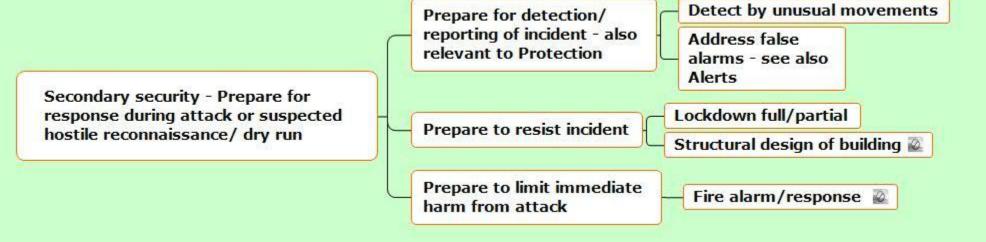


Prepare in advance of attack

Secondary security - Prepare for response during attack or suspected hostile reconnaissance/ dry run

Tertiary security - Prepare for response immediately after attack

Prepare for response - general must be robust to survive attacks

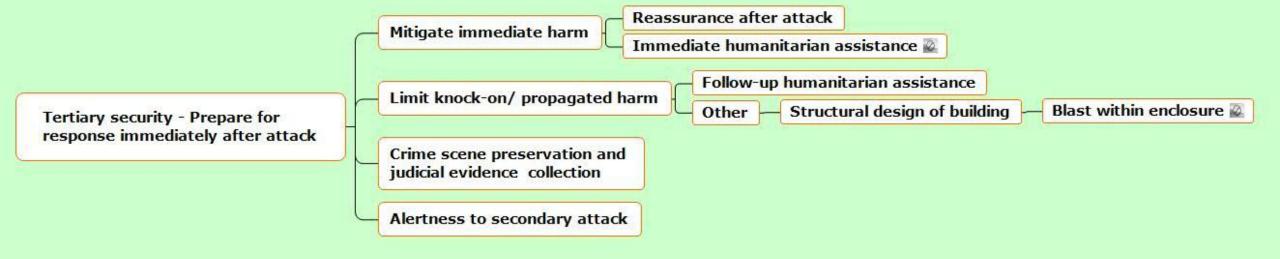


Prepare in advance of attack

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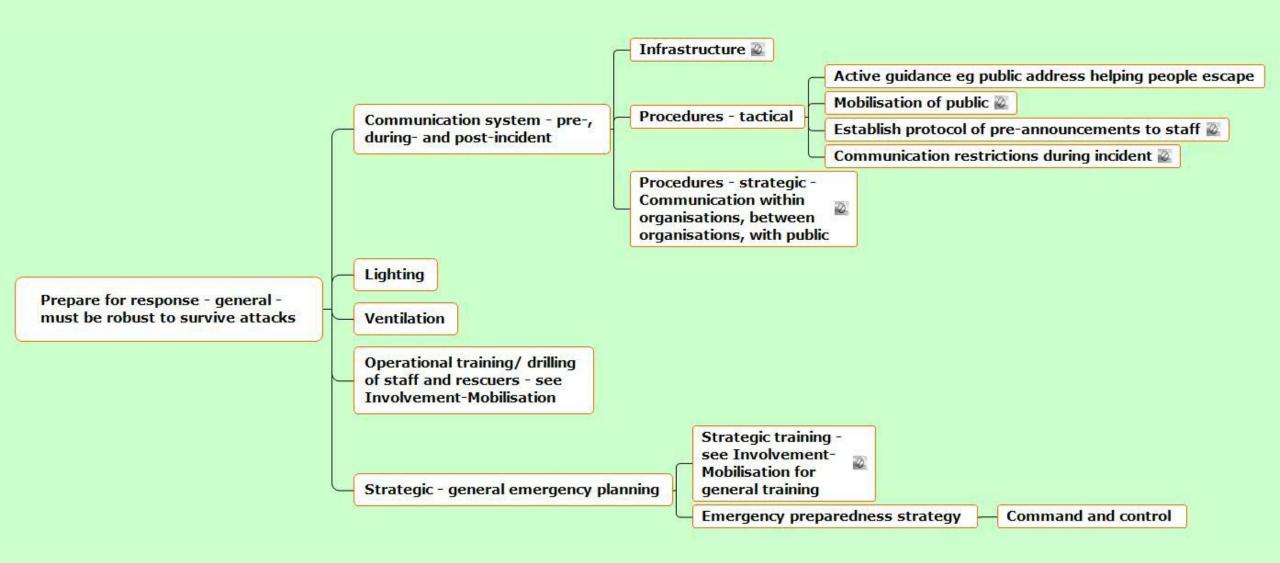


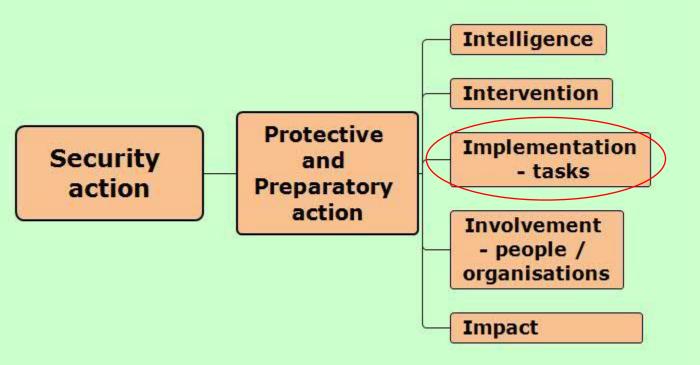
Prepare in advance of attack

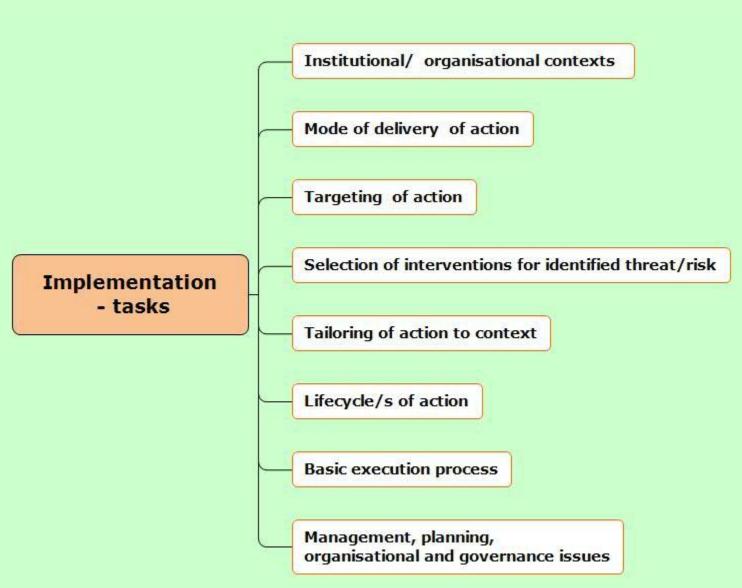
Secondary security - Prepare for response during attack or suspected hostile reconnaissance/ dry run

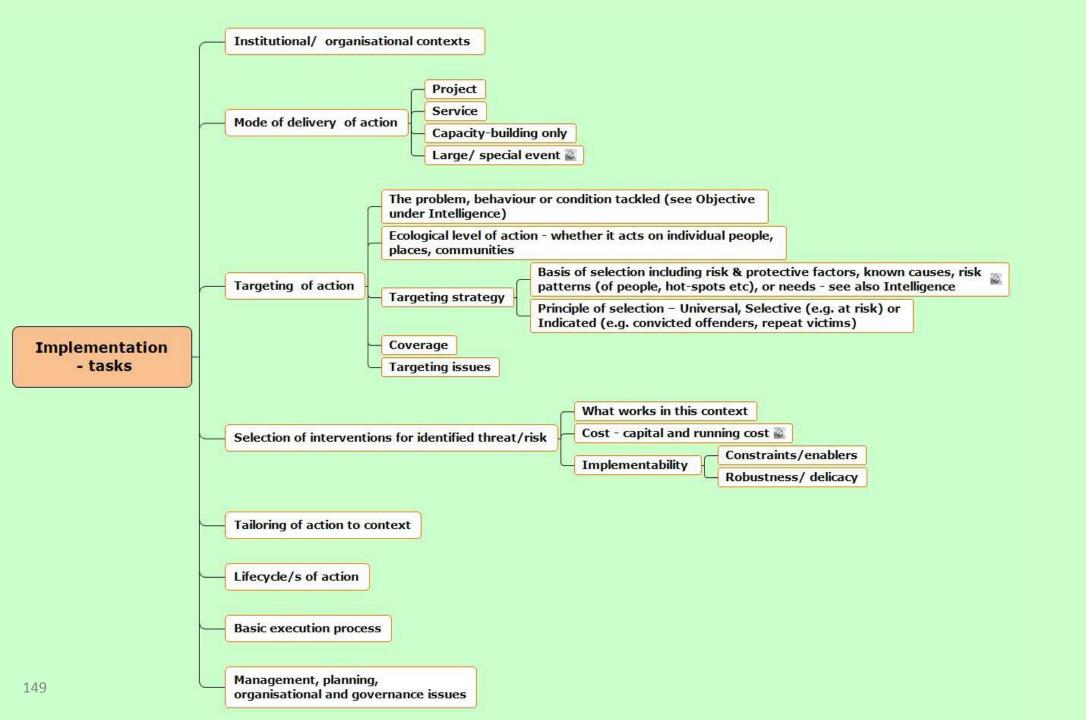
Tertiary security - Prepare for response immediately after attack

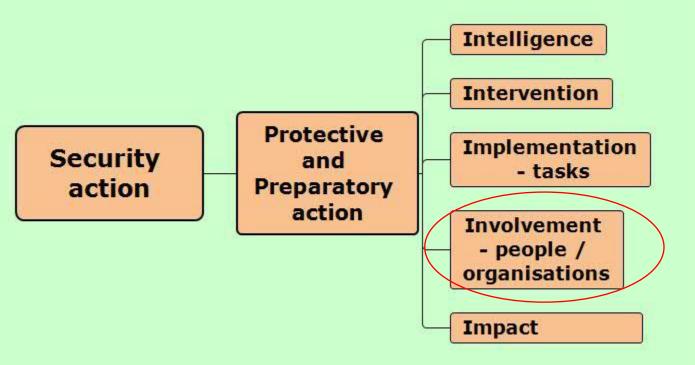
Prepare for response - general must be robust to survive attacks

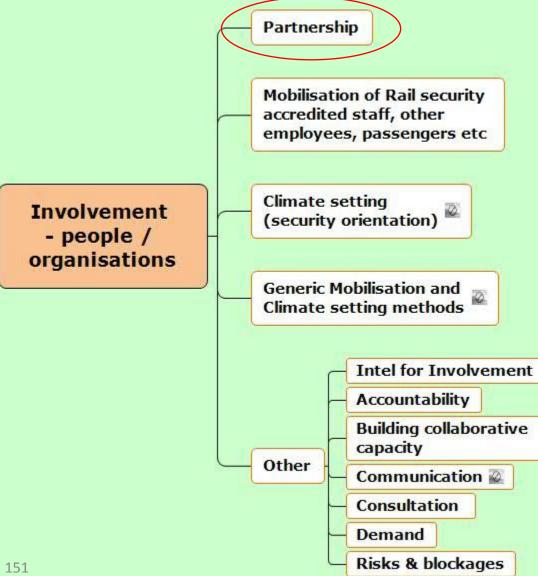


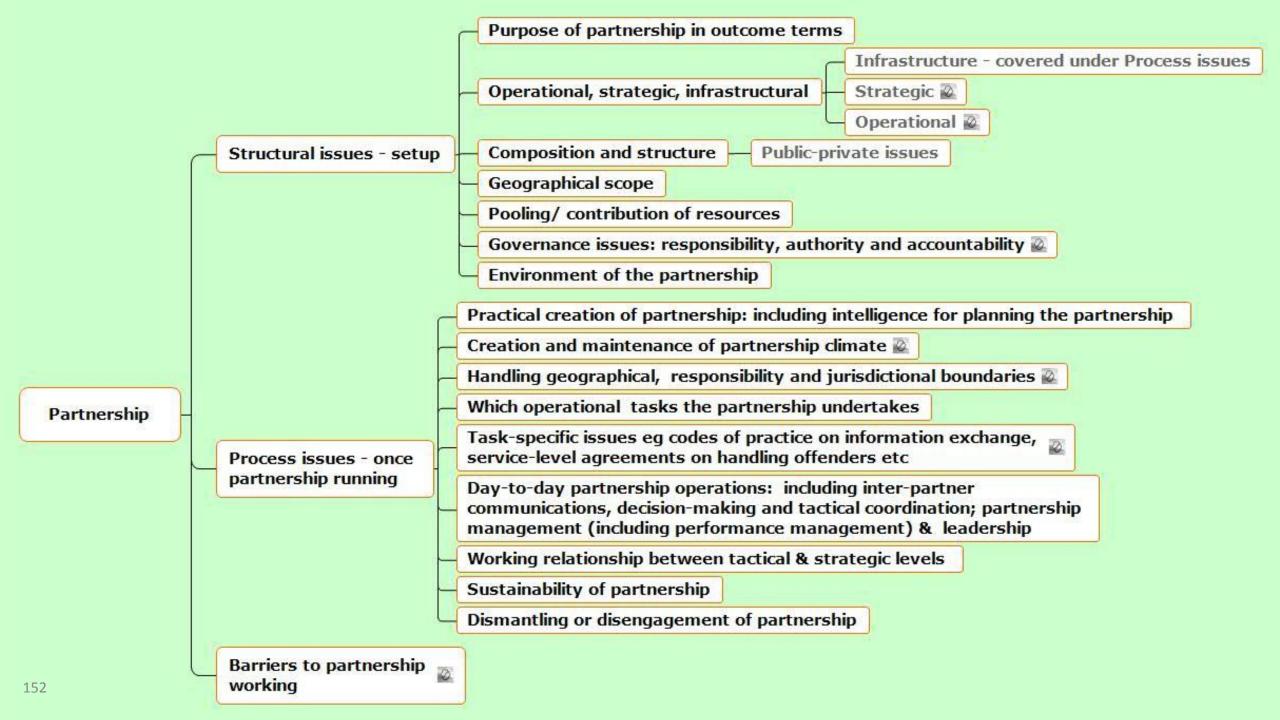


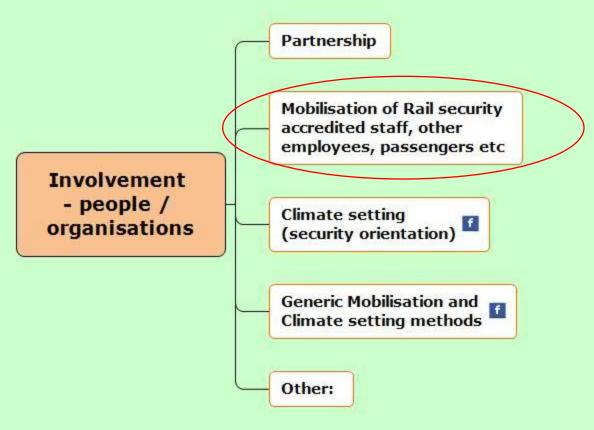


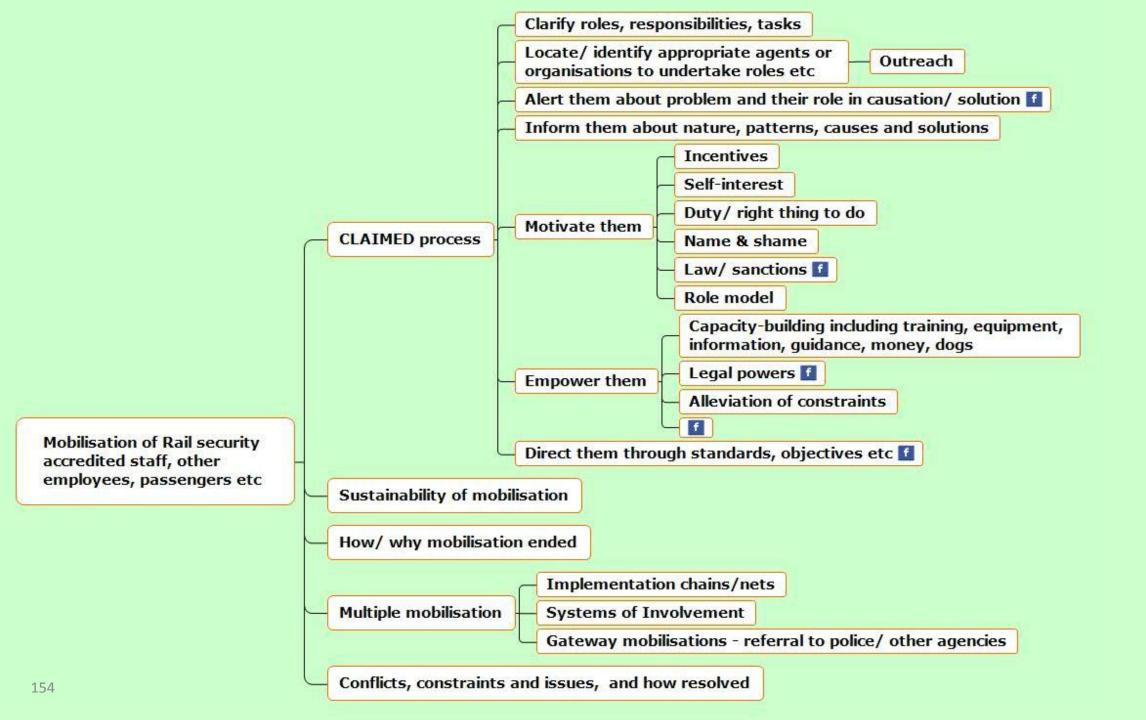


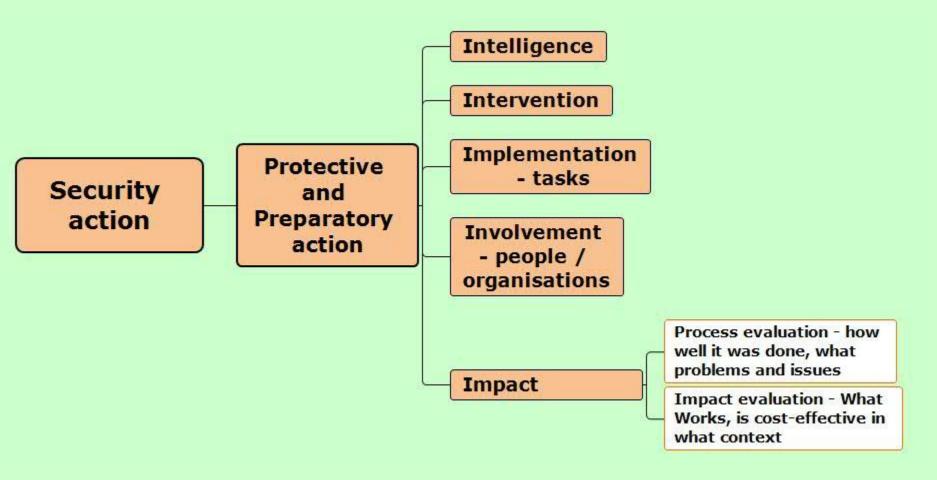








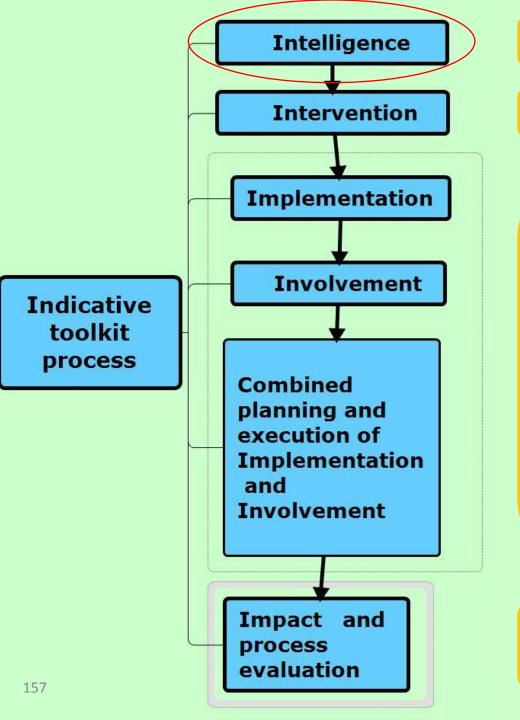




## **Security Action – Outline toolkit**



- What follows is an outline toolkit based on 5Is, Conjunction of Terrorist Opportunity and other frameworks introduced above
- It is planned to develop this into a fully-interactive working toolkit and tutorial

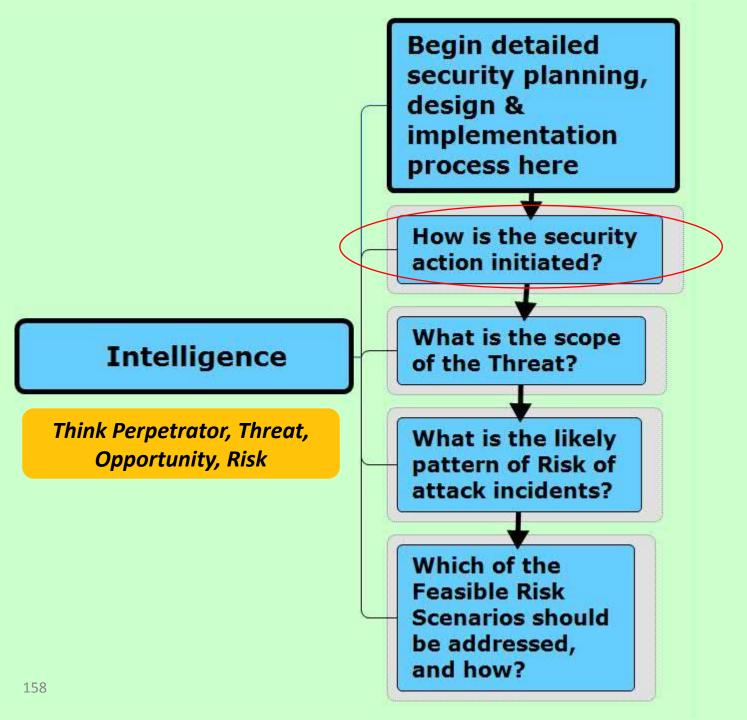


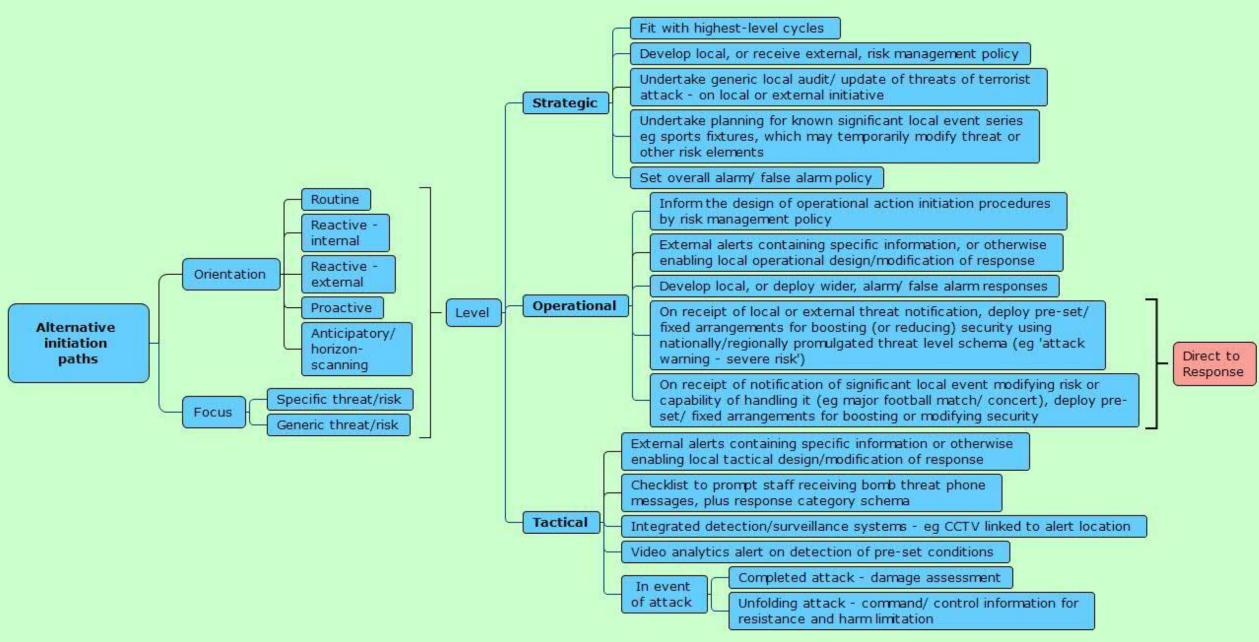
Think Perpetrator, Threat, Opportunity, Risk

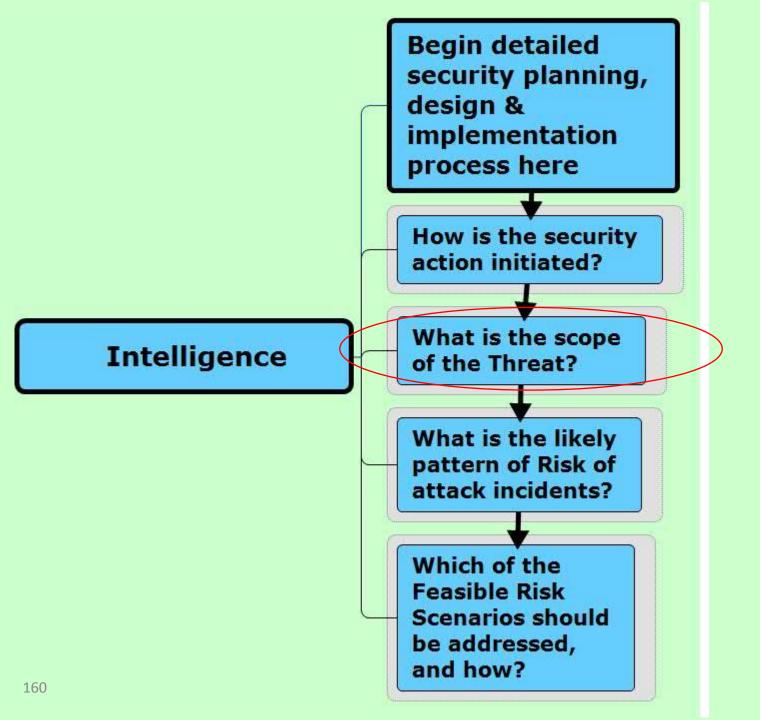
**Think Security** 

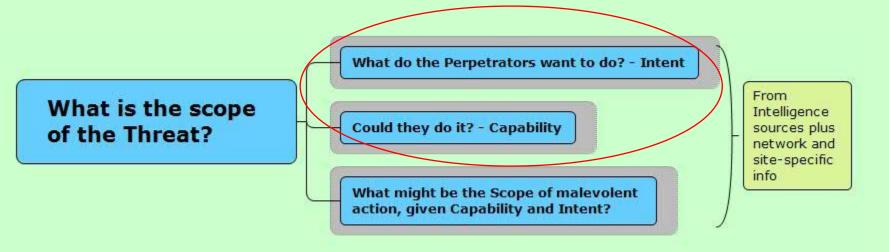
Think Designer, Manager, Partner, Mobiliser

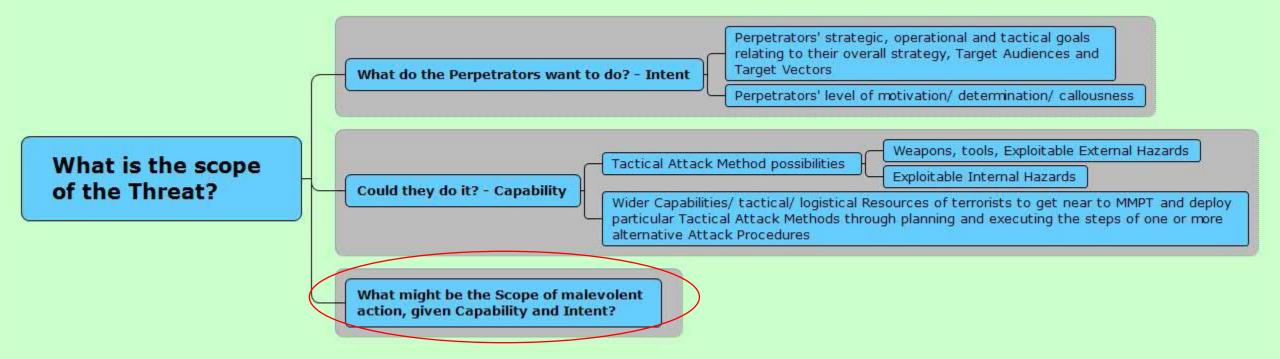
Think Accountability, Improvement, What Works, Knowledge sharing

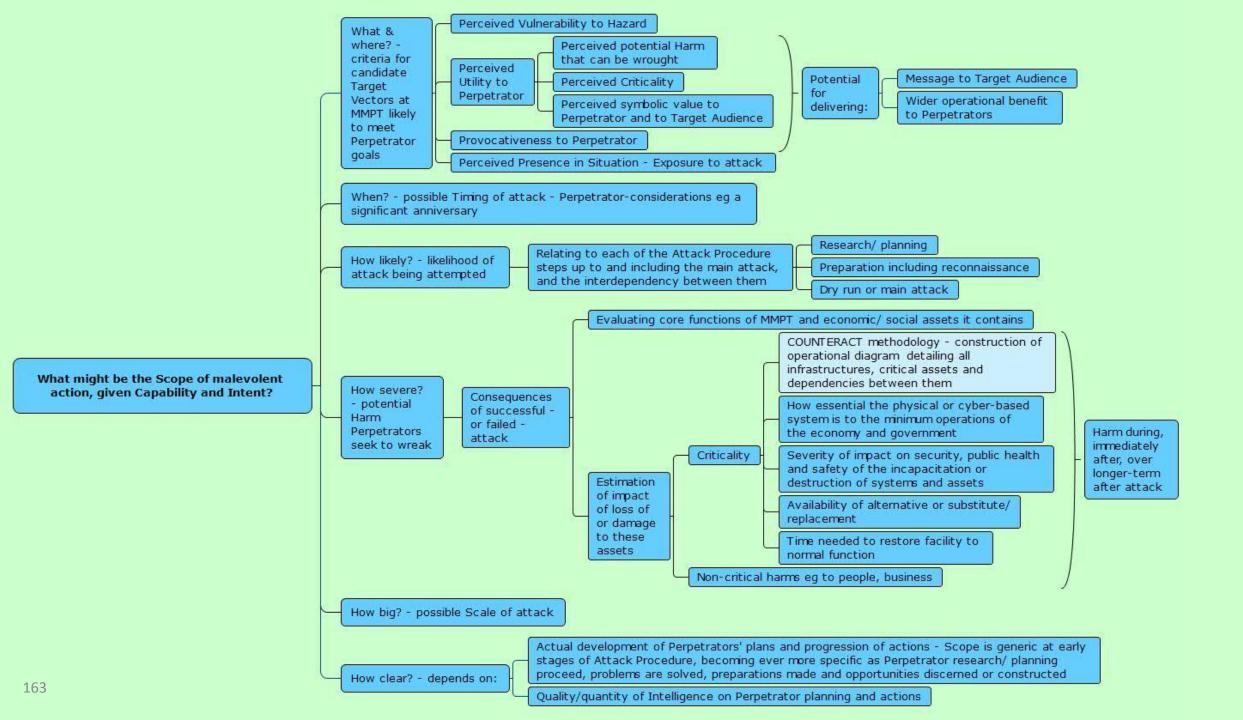


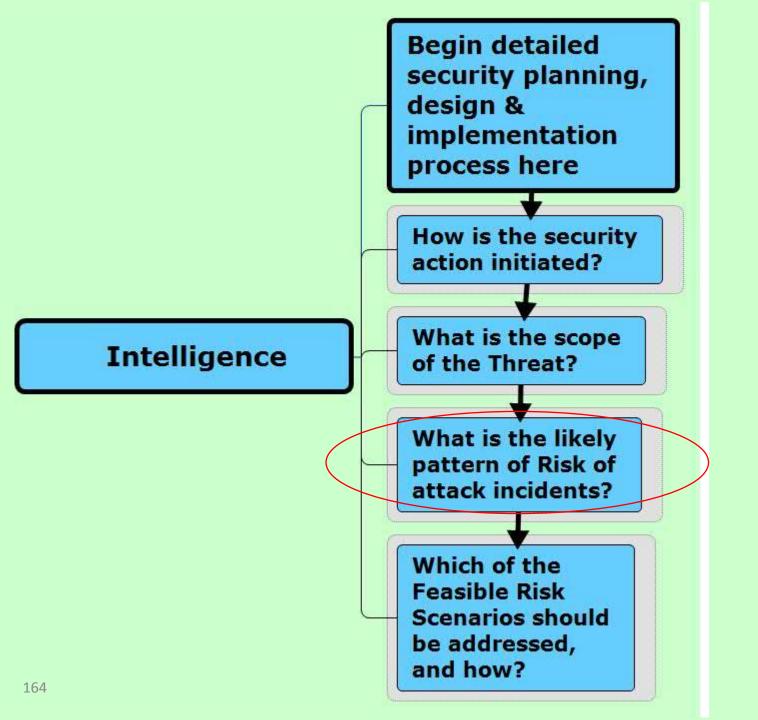


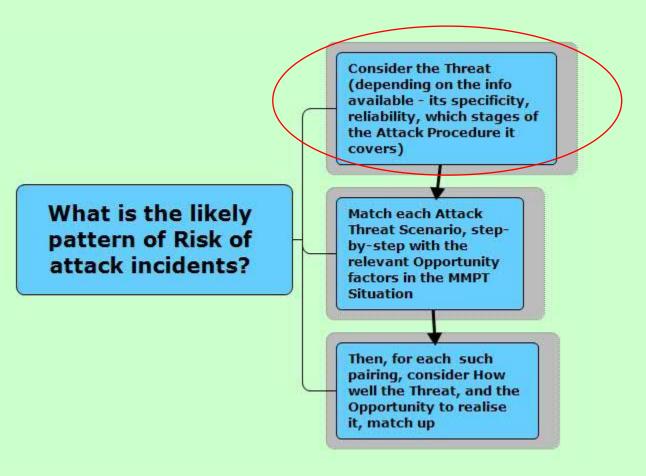


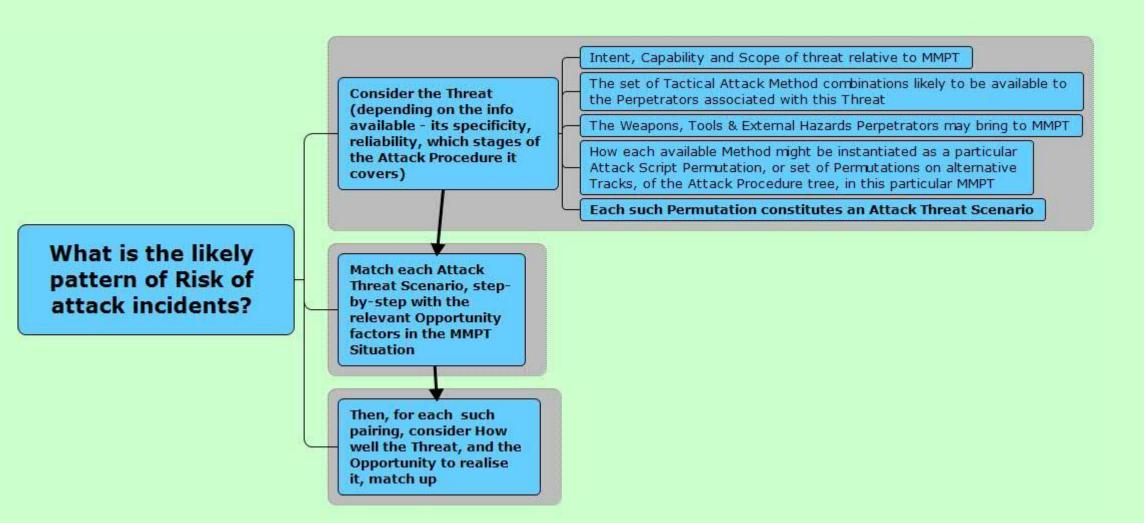


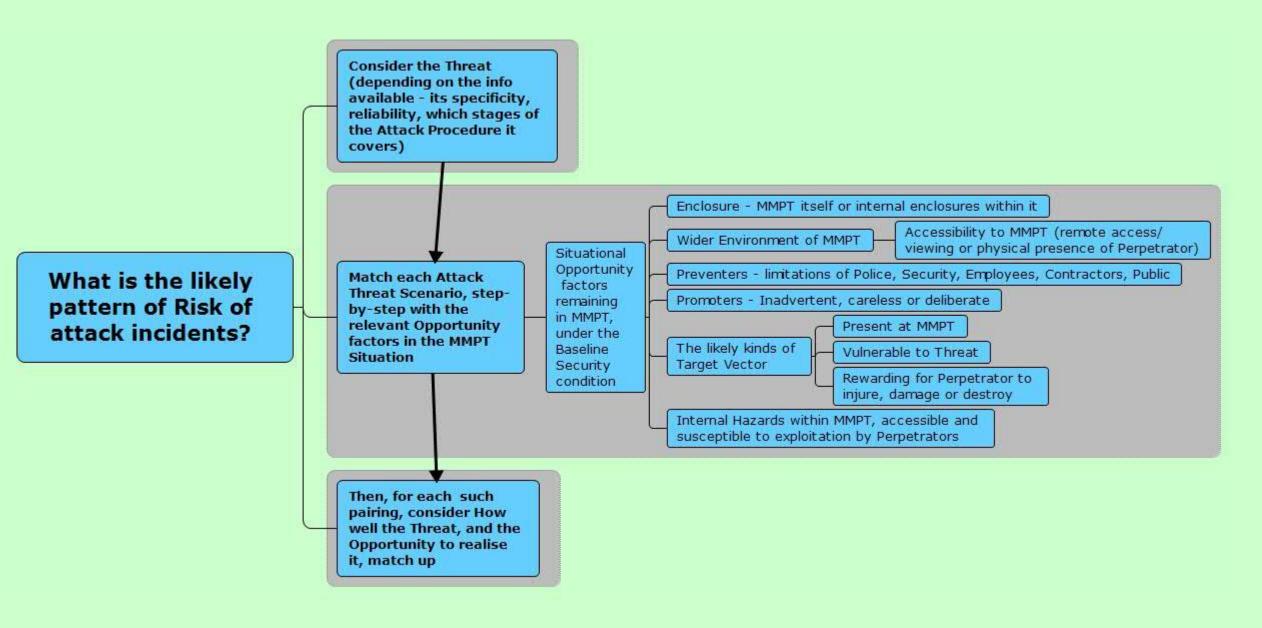


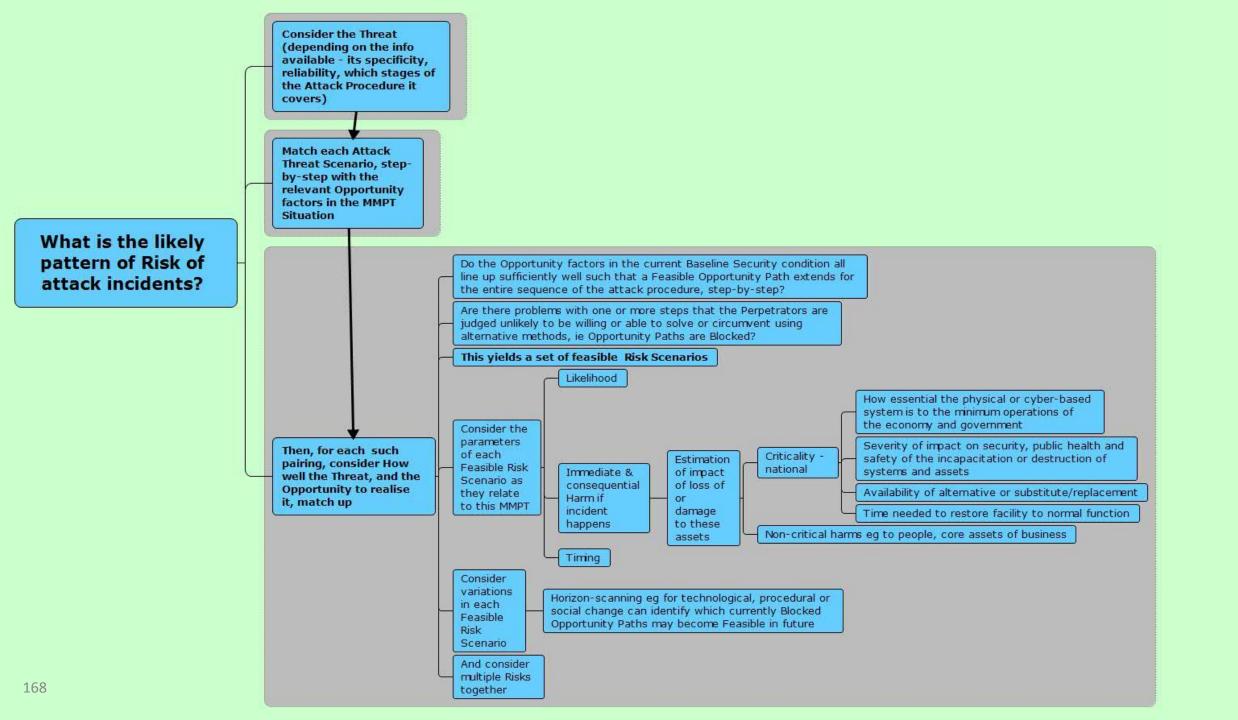


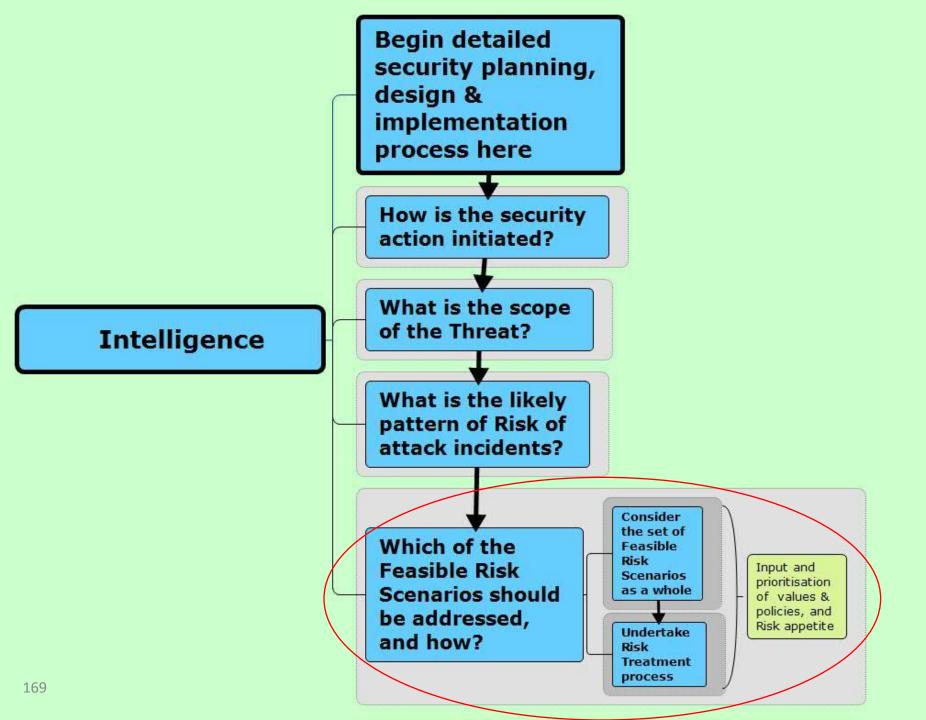


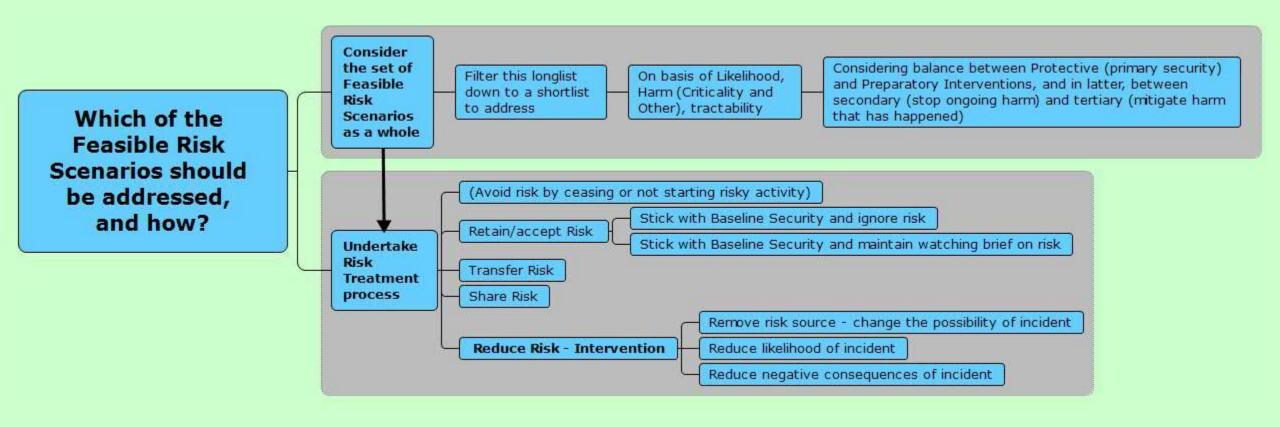












Which set of
Opportunity
factors should be
addressed at the
MMPT, to reduce
likelihood of/
harm from the
selected Risk
Scenarios?

What Intervention
Methods and/or
Principles work to
block the
Opportunities in
the selected Risk
Scenarios, for this
MMPT?

## Intervention

Think Security

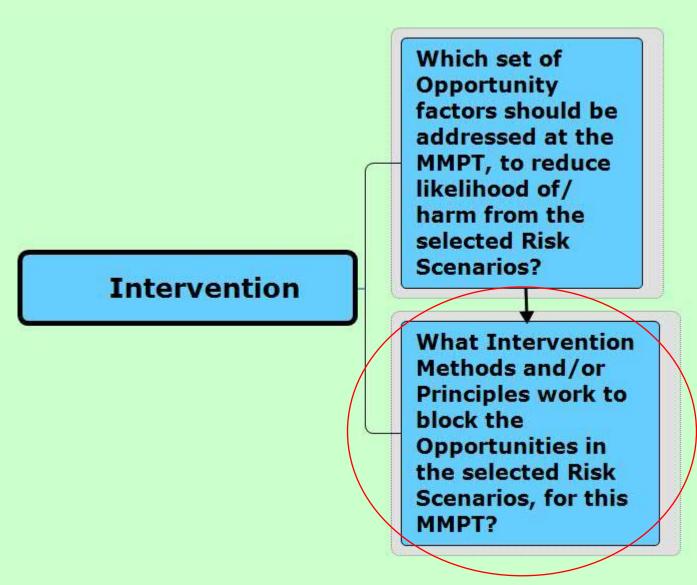
Which set of
Opportunity
factors should be
addressed at the
MMPT, to reduce
likelihood of/
harm from the
selected Risk
Scenarios?

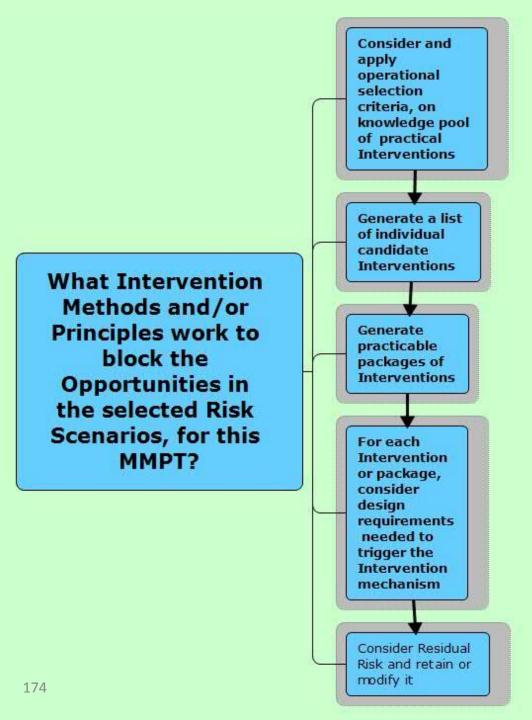
Look across all Feasible Paths of Opportunity identified, against which it has been decided to intervene

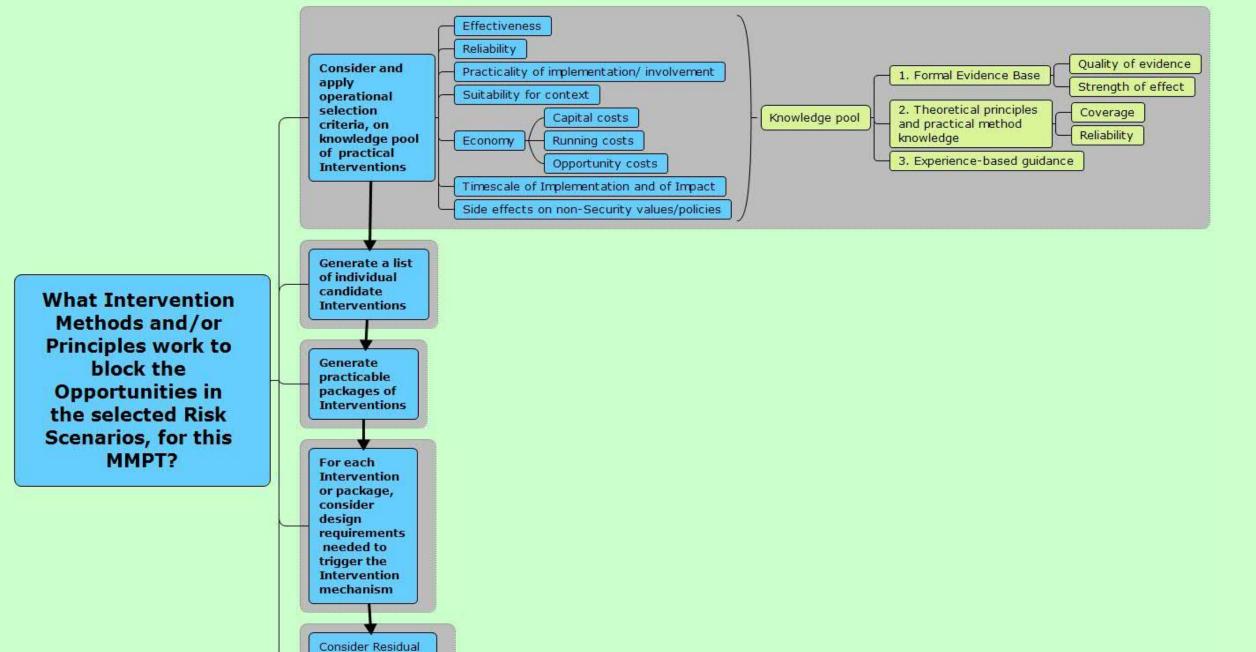
Assemble an array of Feasible Opportunity factors, individual or in configurations, which together make up these paths

Look for critical 'pinch points' in Opportunity Paths; and synergies, beneficial redundancy etc to guide which paths, and which individual steps on them, to block

Informed by practical operational/ tactical experience block

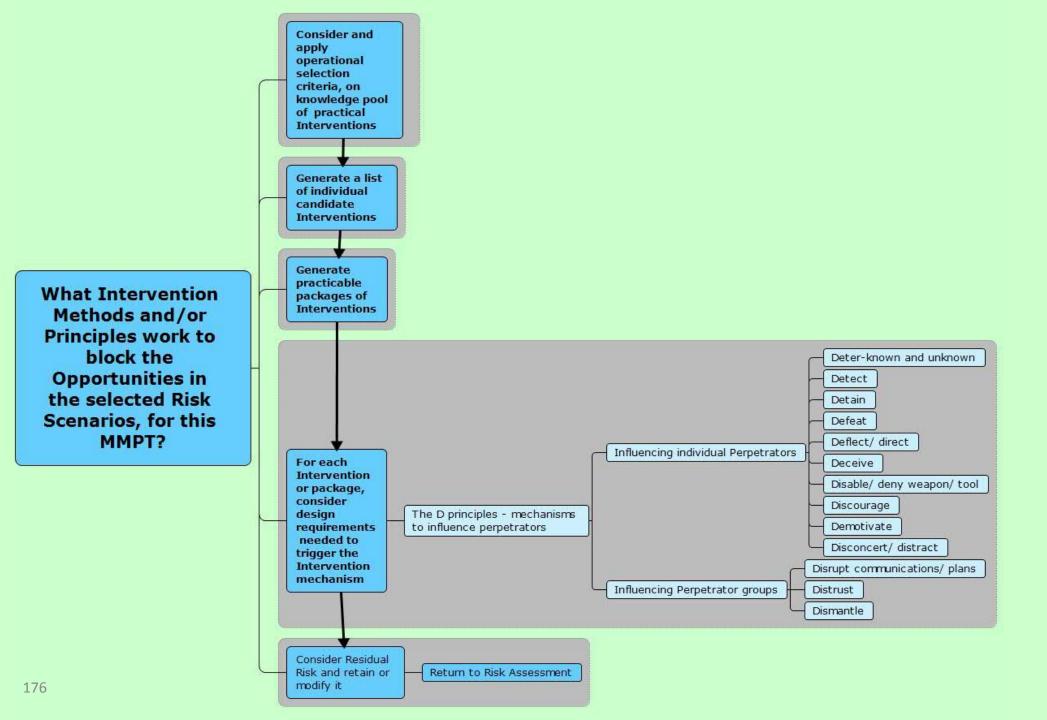


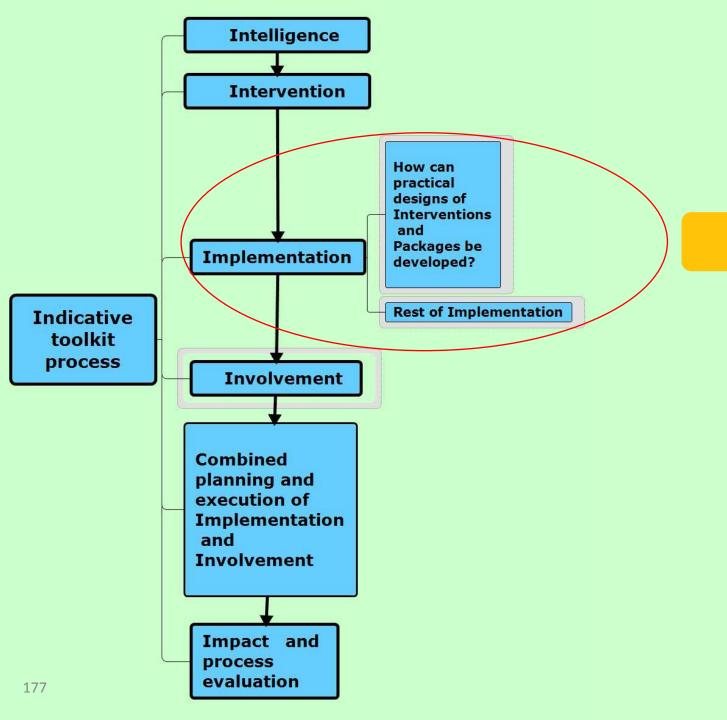




Risk and retain or

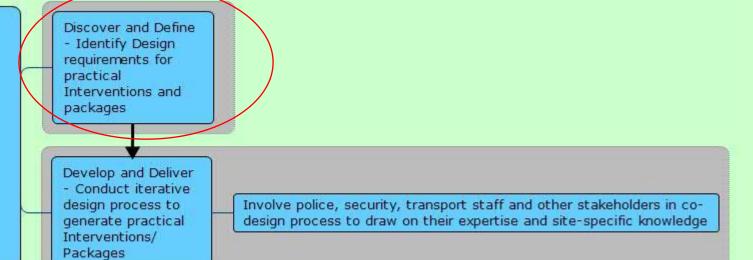
modify it

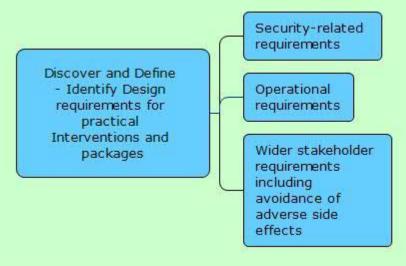


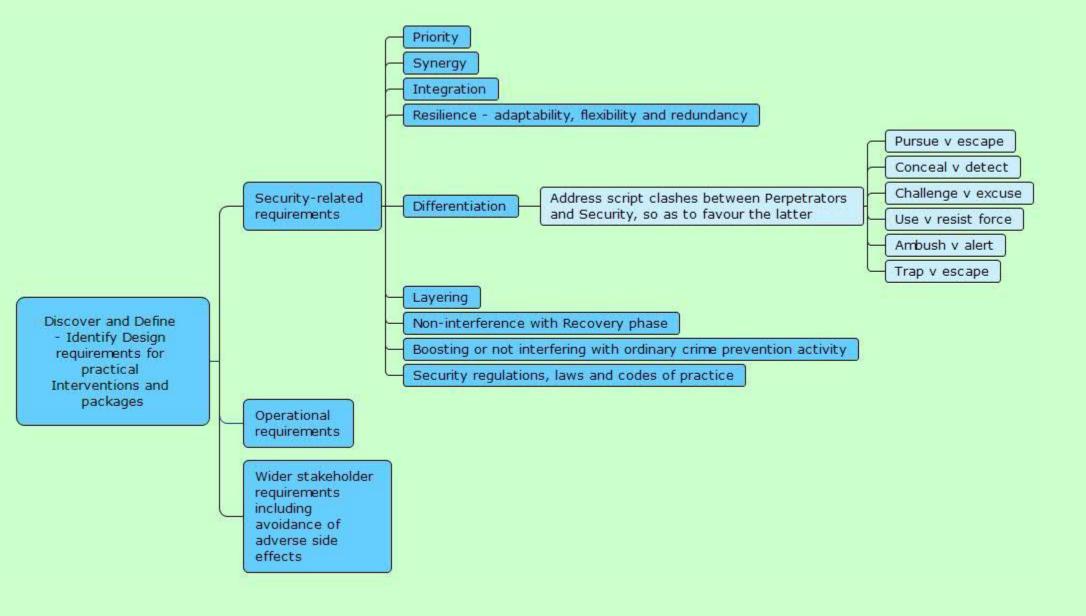


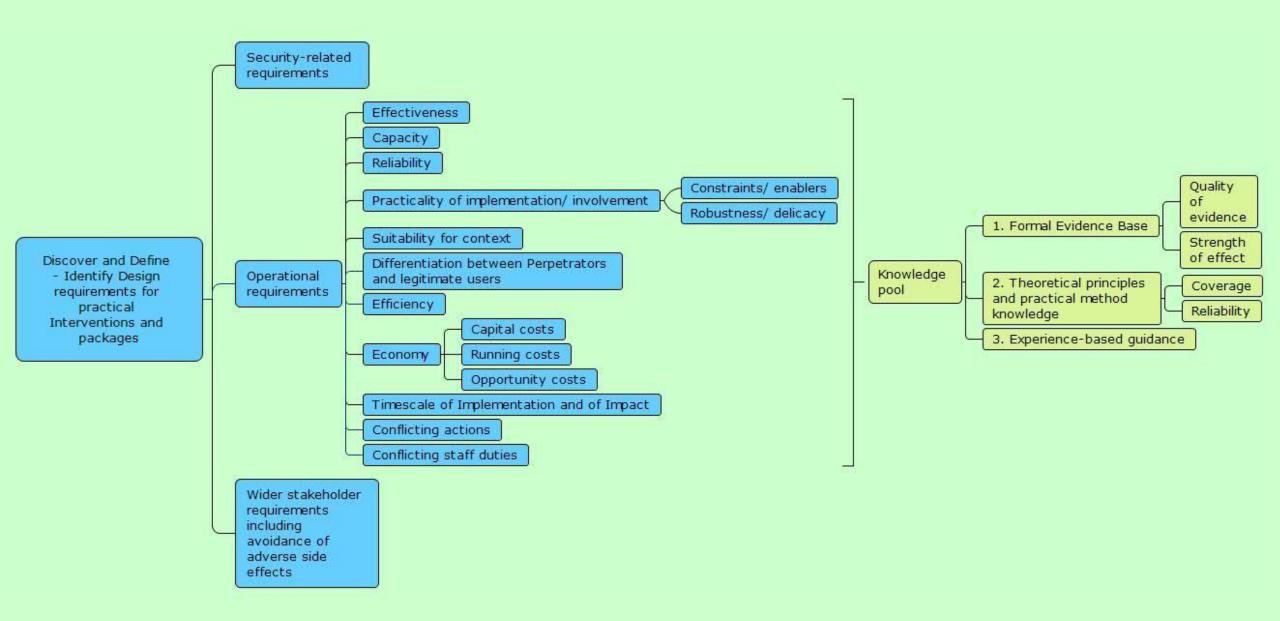
Think Designer, Manager

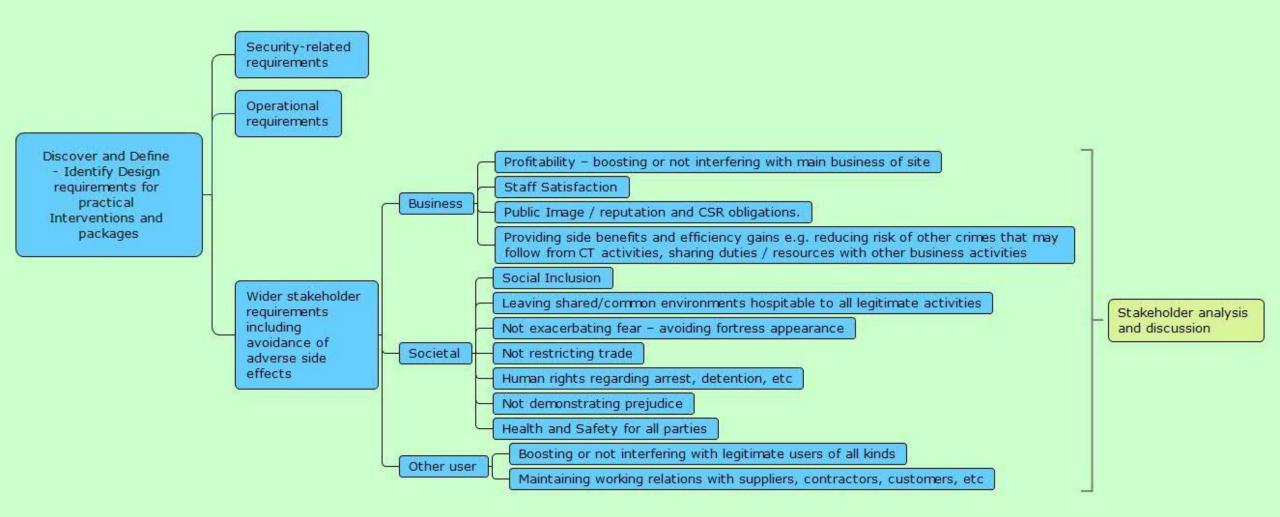


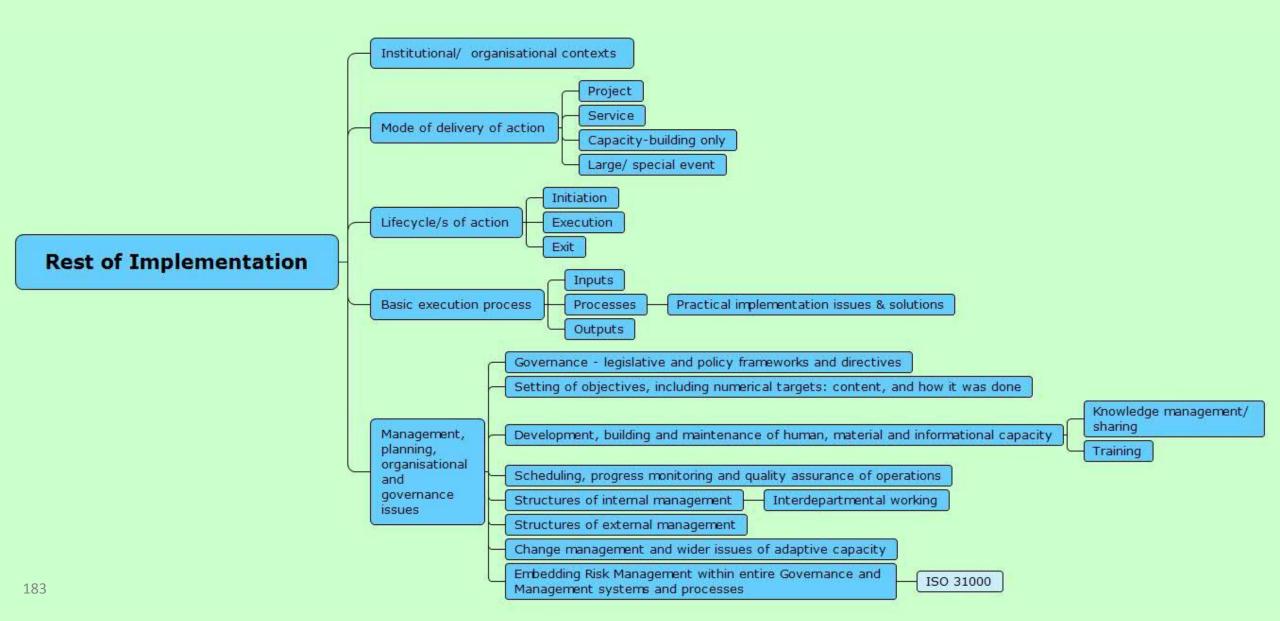


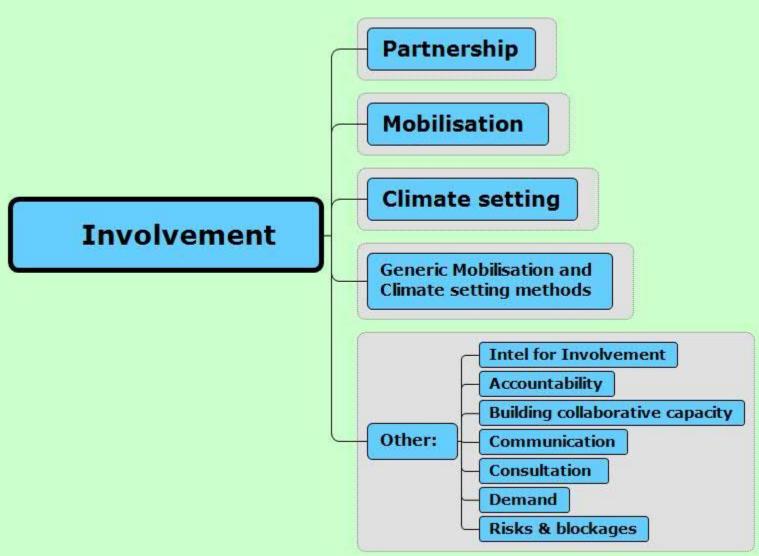




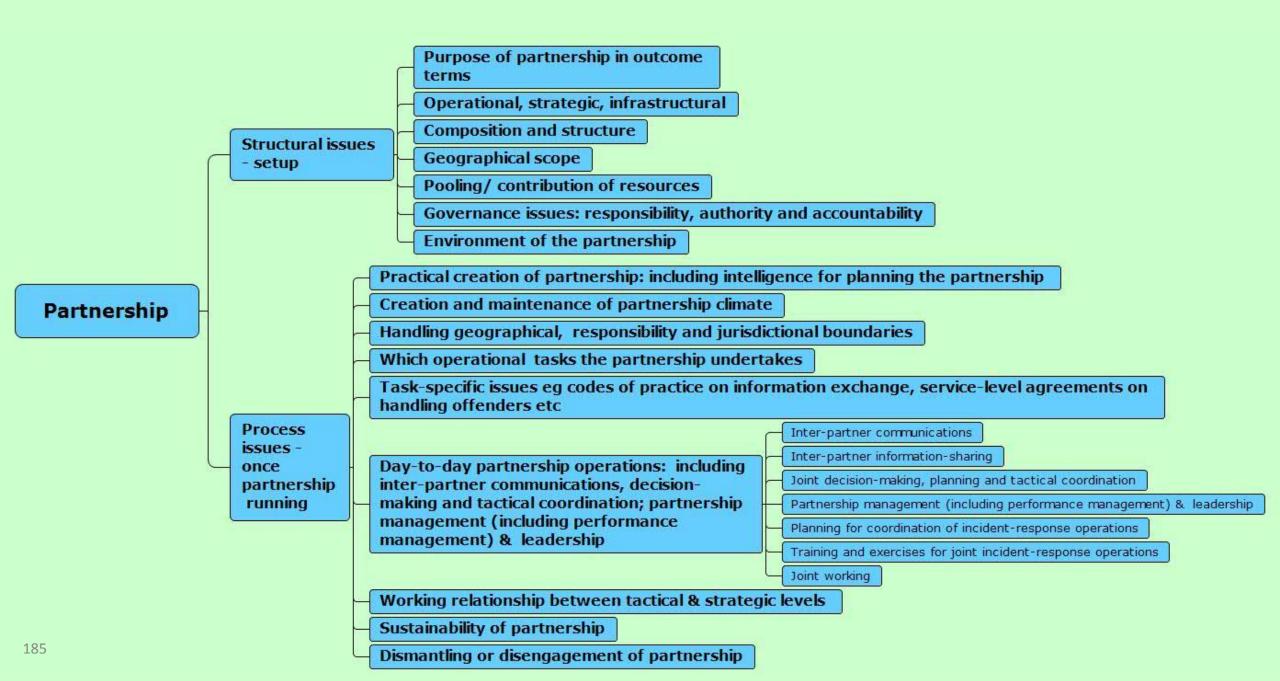


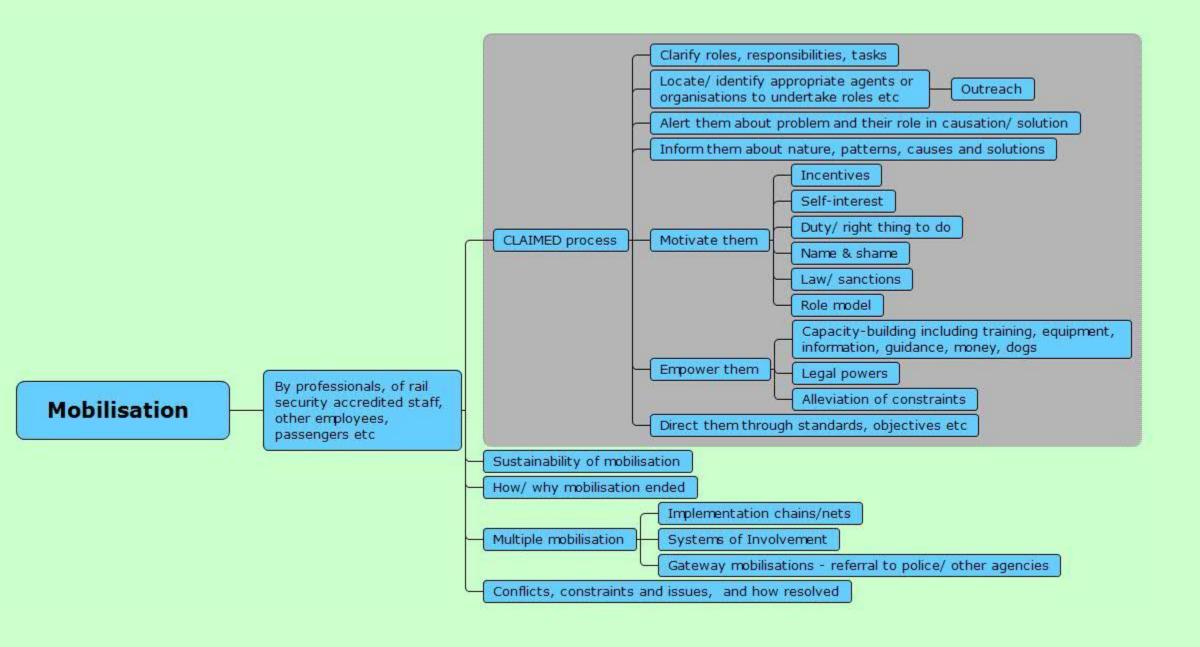


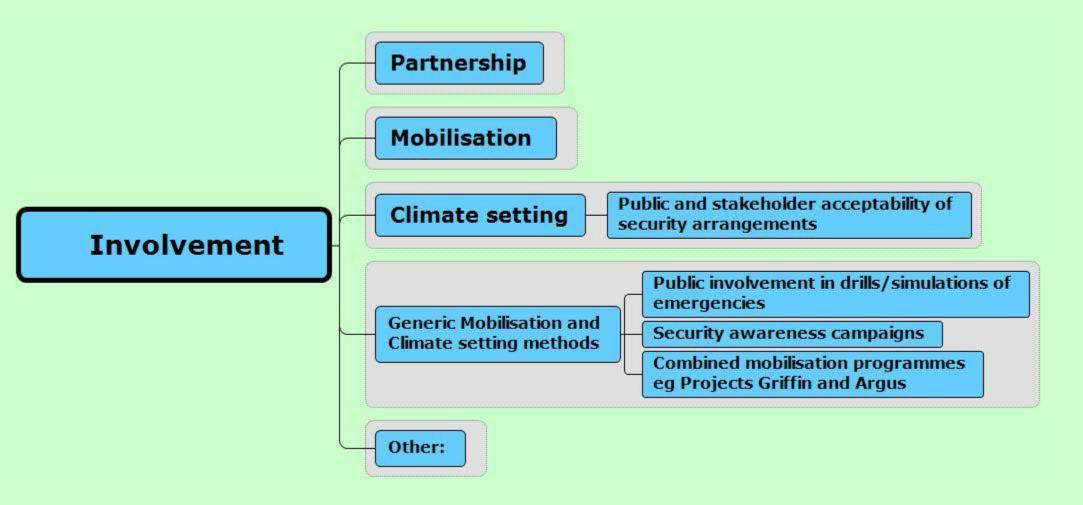


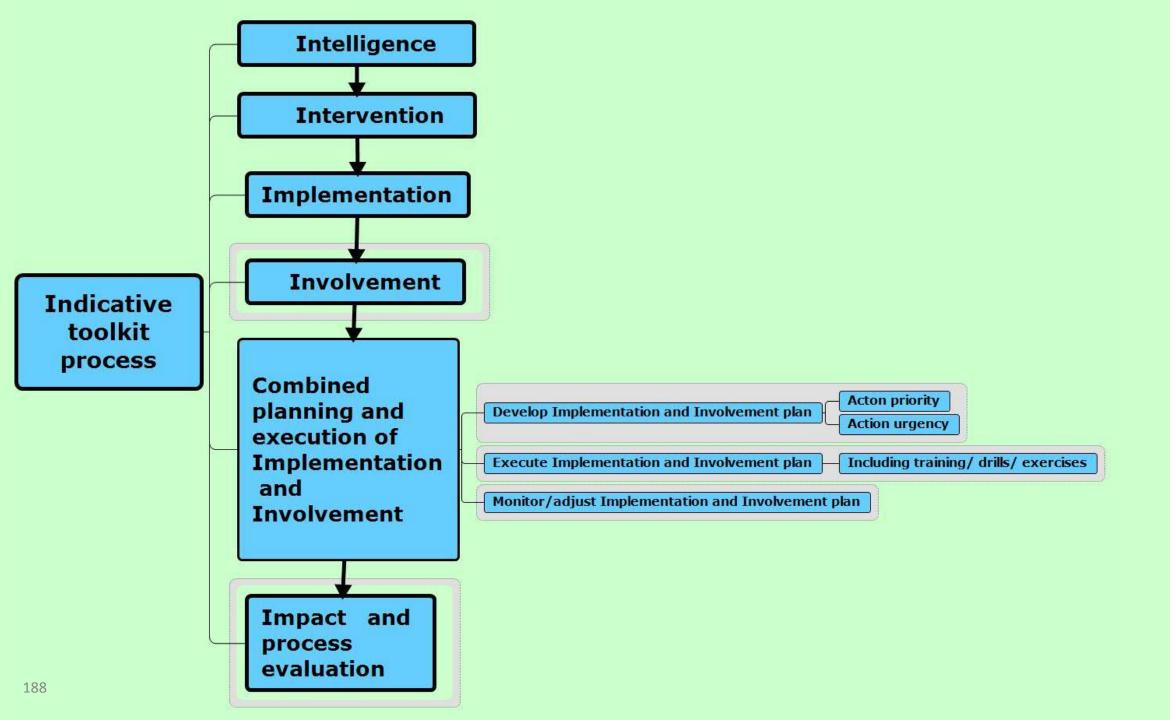


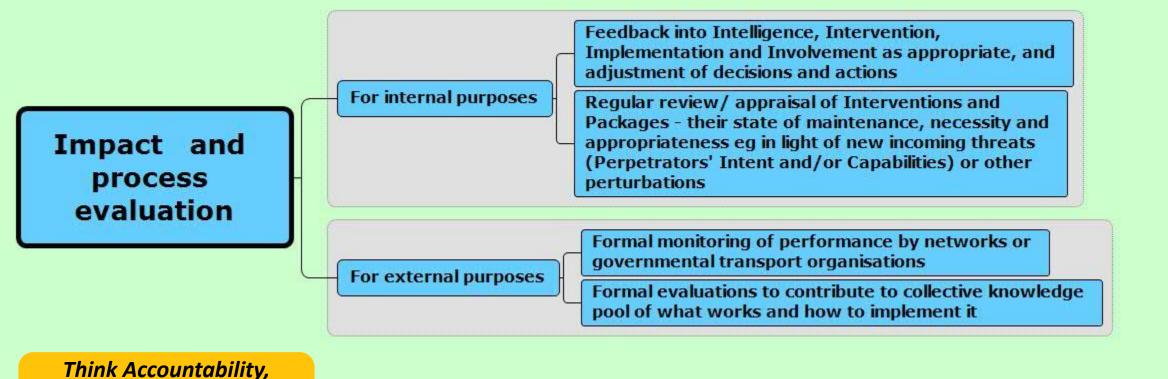
Think Designer, Partner, Mobiliser











Improvement, What

Works, Knowledge sharing





**Australian Institute of Criminology** 

Understanding and Reducing the Risk of Terrorist Attacks at Passenger Terminals: Workshop Policy section

Paul Ekblom Huddersfield **University of** 

November 2016

### Policy: Eight General Principles for a Pan-EU Land Transportation Security Strategy for MMPTs



### Principle 1 Common language: Standardise definitions of all terms relating to MMPT security throughout EU



**CAF** includes a Glossary

# Principle 2 Establish holistic governance structures and partnership working at MMPTs



Recommended Practice		Practices/ Areas of concern		
	<b>*</b>	Data sharing between transport networks, police and MMPT businesses	<b>*</b>	Organisations(police, business, transportation)each with their own security procedures and policy
	<b>*</b>	Compatible voice communication systems between different agencies	<b>*</b>	Fragmentation of responsibility for security across boundaries within/proximate to
	<b>*</b>	Regular multi-agency meetings between MMPT stakeholders		MMPTs
	<b>*</b>	Co-location of security personnel	<b>*</b>	Lack of coordination between different operators on security matters (e.g. between over-ground rail & Metro systems)
•	<b>*</b>	One company responsible for		B
		management of both cleaning and security staff	*	Restricting partnership working to dealing with emergencies only



#### **Recommended Practice**

- Physical barriers on MMPT approach roads
- Bollards in front of buildings to prevent vehicles armed with explosives entering site (Glasgow airport attack)
- Use of metal shutters to close off part of the terminal at night
- Blast-proof waste bins to mitigate the effects of an explosive device if placed there
- **Anti-shatter film** for glass





#### **Practices/ Areas of Concern**

Leaving MMPT foyers and concourses unprotected by the absence of Hostile Vehicle Mitigation interventions



# Principle 4 Manage and control the movement of people using MMPTs



#### **Recommended Practice**

- The presence of barriers can block or deter people from entering certain areas, can provide an opportunity to challenge suspicious behaviour
- The absence of barriers can create a better flow of movement with an absence of pinch points and overcrowding





## Principle 4 Manage and control the movement of people using MMPTs



#### **Practices/ Areas of Concern**

At certain times of the day if automatic barriers are unmanned this can lead to overcrowding around the barriers, creating an additional target for terrorists



### Principle 5 Maximise opportunities to conduct effective surveillance at MMPTs

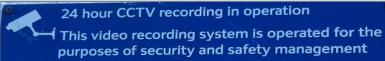


#### **Recommended Practice**

- MMPT designs and layouts that maximise opportunities for surveillance clear sightlines and use of glass/ transparent materials
- The use of transparent plastic bags in waste bins
- Clearly visible signs to inform passengers that CCTV is in operation & minimum standards for its use
- Regular patrolling by staff but varying the routes they take









### Principle 5 Maximise opportunities to conduct effective surveillance at MMPTs



#### **Practices/ Areas of Concern**

Variations in levels of lighting

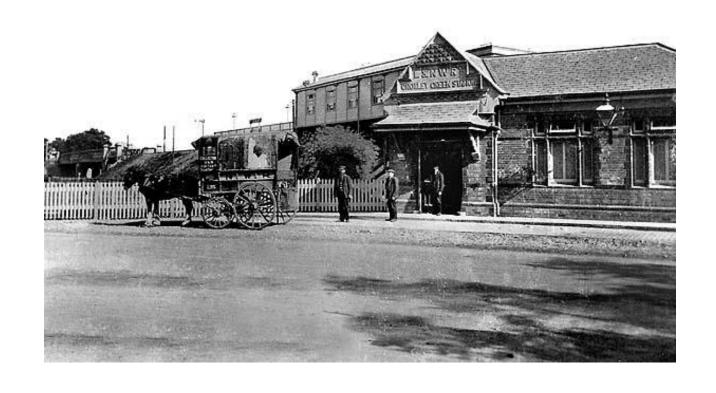
- Designs that compromise opportunities for surveillance
- Having a multitude of CCTV systems managed by different operators and to different standards
- Not viewing CCTV in real time





# Principle 6 Ensure security approaches & interventions are appropriate for MMPT site and context









Re	commended Practice	Practices/ Areas of Concern	
Tra	How to identify and report suspicious situations Who to report to How to communicate information to site users Awareness of terrorism Familiarity with first response procedures in event of an attack	❖ Failure to provide customer service training where required − ensure staff are 'approachable' by passengers	
Pli ❖	us:  Consistency in content and quality of training for all staff (security, cleaners, retail)  Regular assessments of staff competence		

# Principle 8 Strike a balance between the need for security & other priorities at MMPTs



Recommended Practice			Practices/ Areas of Concern	
<b>*</b>	Unobtrusive security interventions that do not disrupt people's daily routines or normal business activities	<b>*</b>	Airport style security at MMPTs  Luggage screening especially random screening contradicts privacy, liberty values	
*	Interventions that are appropriate and proportionate	<b>*</b>	Complex ticket queueing procedures that generate crowding and aggression	
*	Strike balance between generating alertness and fear			
*	Consideration of security design requirements at earliest possible stage in design process			

### MMPT Security at the EU level: Defining the baseline



Our research suggested that each MMPT should consider

- **Developing and implementing** a baseline security plan comprising:
  - Communications policy
  - Physical security strategy
  - Movement control plan
  - Site surveillance protocol
  - Essential security awareness training programme for all staff catering for different levels (strategic, operational, tactical)

And that efforts should be made to

Produce guidance at an across-EU level on how to bring the above to fruition

### **Future Steps**



- To develop toolkit (or similar for end users) that can
  - Capture practice-relevant knowledge on security approaches
  - Organise it for efficient storage and retrieval
  - Disseminate it
  - Engage and educate end users in how to apply it
  - Facilitate implementation and involvement (organisational design)
- More widely, to encourage and assist:
  - Proportionality of intervention relative to risk
  - Customisation of security action to context
  - Adaptability to changes in technology, business and society
  - Evaluation of practices
  - Continued updating, growth, and adaptability of toolkit itself

### Thank You!

### **Bibliography**



**CAF** was developed from the Conjunction of Terrorist Opportunity framework <a href="https://5isframework.files.wordpress.com/2013/12/cto-security-journal-july05.pdf">https://5isframework.files.wordpress.com/2013/12/cto-security-journal-july05.pdf</a>

and its more generic forbear, the Conjunction of Criminal Opportunity <a href="https://5isframework.wordpress.com/conjunction-of-criminal-opportunity/">https://5isframework.wordpress.com/conjunction-of-criminal-opportunity/</a>

Also the 5Is process model of doing crime prevention and security <a href="http://5isframework.wordpress.com">http://5isframework.wordpress.com</a>

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