

# Border Area Security Enforcement Vehicle (BASE-V)

*System Uses Cases*



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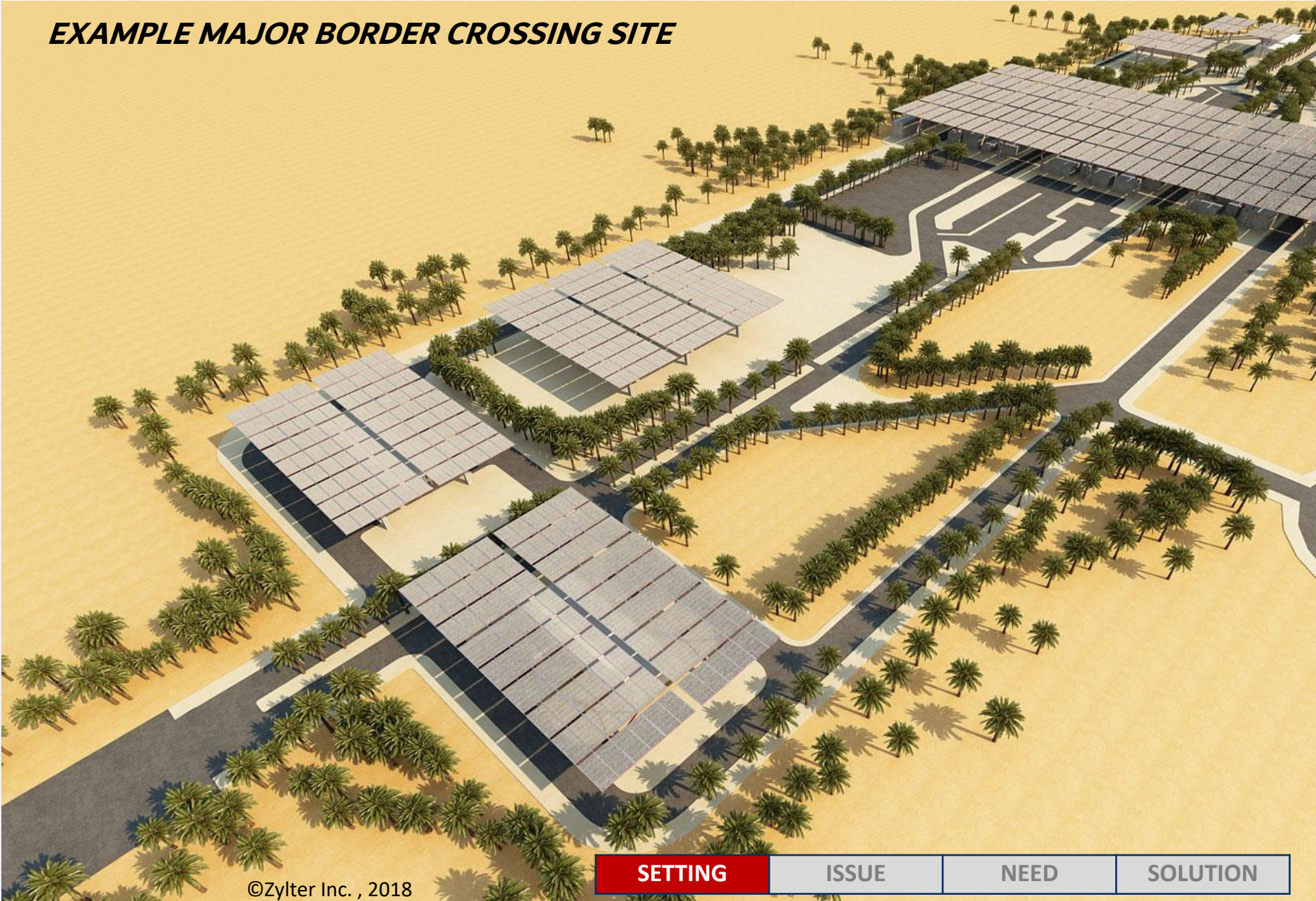
# USE CASE 1: Augment Established Border Crossing Site



# ***TASK 1***

# ***Augment Major Border Crossing***

## ***EXAMPLE MAJOR BORDER CROSSING SITE***





# TASK 1

## Augment Major Border Crossing

1



*Passenger & light commercial vehicles*

2



*Heavy cargo & tanker trucks*

3



*Containerized cargo*

4



*Loose / break-bulk cargo*

5



*Mature infrastructure & utilities*

*Major border crossings handle a large volume and wide array of vehicle types, to include large trucks, passenger vehicles and individual cars. Security forces can use the BASE-V to increase throughput during surge periods and/or detail inspection of selected vehicles.*

5

1

4

Light vehicle traffic

2

3

Heavy vehicle traffic

SETTING

ISSUE

NEED

SOLUTION



# TASK 1

## Augment Major Border Crossing

1



Watchlist individuals

2



Vehicle-borne improvised explosive device (VBIED)

3



Illegal weapons

4



Threat materials & precursors

5



Contraband items & unreported currency

6



Threat surveillance & targeting

6

Threat Surveillance & Targeting

1

Suspect Individuals  
(known extremists, etc.)

2

Threat devices  
(weapons, completed IEDs, etc.)

3

Threat precursors  
(explosives, chemicals, primers, etc.)

4

Contraband Items  
(currency, drugs, black market items, etc.)

5

Border detection must identify both immediate threats to the border crossing, such as IEDs, as well as immediate or likely threats to the interior. The security forces must also remain vigilant of threats and suspicious activities near border security operations.

SETTING

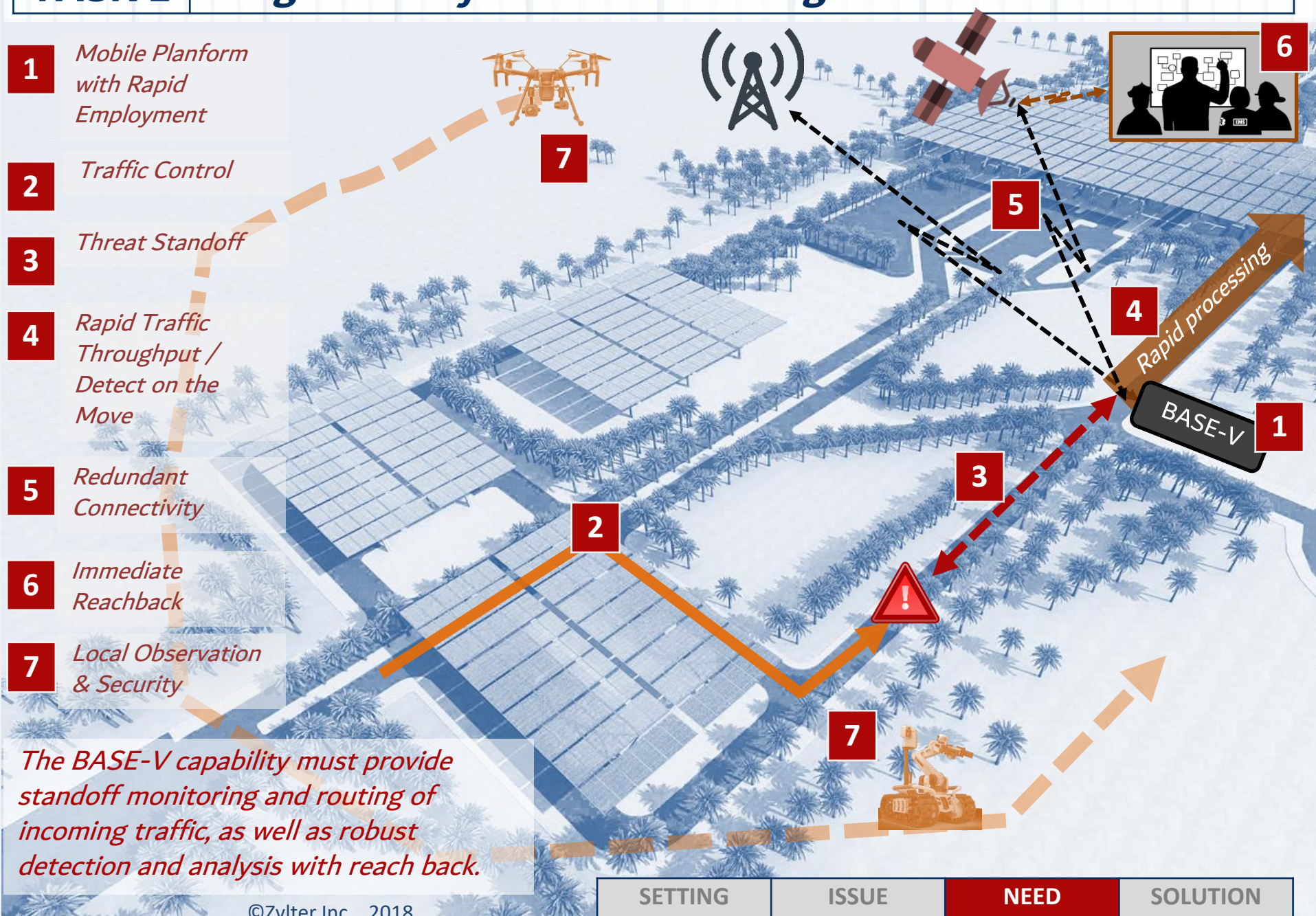
ISSUE

NEED

SOLUTION



## Augment Major Border Crossing



# TASK 1

## Augment Major Border Crossing

### TASK 1 KEY CAPABILITIES LIST

1

Mobile Platform  
with Rapid  
Employment



2

Traffic Control

3

Threat Standoff



4

Rapid Traffic  
Throughput /  
Detect on the  
Move



5

Redundant  
Connectivity



6

Immediate  
Reachback

7

Local  
Observation &  
Security



	1. Vehicle Mobility & Modularity	2. Proximity Detection (named)	3. Standoff Detection (unmanned)	4. Local Observation & Security	5. Wide Area Surveillance	6. Detailed Interrogation & Analysis	7. Networking & Communications	8. Traffic Control & Standoff	9. Protection	10. Active Response
SPRINTER BASE-V PLATFORM	X									
DRUG DETECTION		X	X			X				
EXPLOSIVE DETECTION		X	X			X				
MOBILE / HANDHELD RADIATION DETECTION		X	X			X				
PASSPORT / ID VERIFICATION		X				X	X			
METAL DETECTION		X				X				
CURRENCY DETECTION		X				X				
LUGGAGE X-RAY						X				
VIDEO SCOPE						X				
X-RAY HUMAN BODY SCAN						X				
ROBOTIC GROUND SYSTEM			X	X						
UNMANNED AERIAL SYSTEM			X	X						
UNATTENDED GROUND SENSORS			X							
TEMPORARY BARRIER SYSTEMS								X	X	
ACTIVE COUNTERMEASURES										X
COMMUNICATIONS SYSTEMS						X				

# USE CASE 2: Secure Secondary or Illegal Border Crossing



## ***TASK 2*** ***Secure Secondary or Ad Hoc Border Crossing***

***EXAMPLE SECONDARY CROSSING SITE***



# TASK 2 *Secure Secondary or Ad Hoc Border Crossing*

1



*Passenger & light commercial vehicles*

2



*Heavy cargo & tanker trucks*

3



*Loose / break-bulk cargo*

4



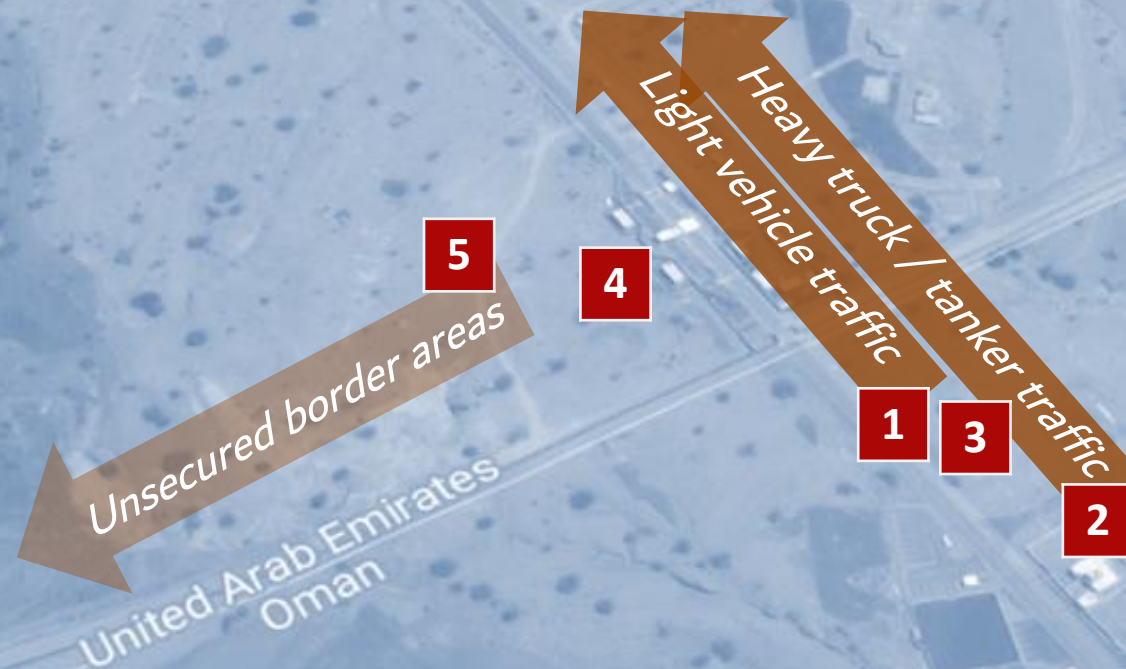
*Austere infrastructure & utilities*

5



*Stretches of unsecured border between crossings*

*Secondary and ad hoc border crossing are characterized by their remoteness and lack of established infrastructure. These areas often have unsecured stretches of border and other areas the BASE-V requires mobility to rapidly access.*



SETTING

ISSUE

NEED

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## TASK 2

# Secure Secondary or Ad Hoc Border Crossing

1



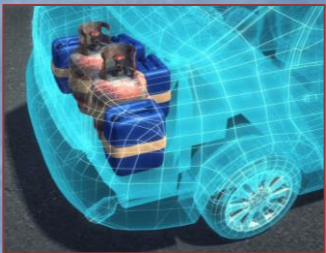
Watchlist  
individuals

2



Illegal weapons

3



Threat materials &  
precursors

4



Contraband items  
& unreported  
currency

5



Threat surveillance  
& targeting

6



Illegal border  
crossing

Likely threats impacting BASE-V employment and security include illegal movement of people, weapons, contraband and precursor items for later assembly for threat uses. Remoteness of the locations increases the need for both BASE-V local and wide area security capabilities.

Illegal  
Crossings

6

Threat Surveillance  
& Targeting

5

Contraband Items  
(currency, drugs, black market items, etc.)

4

Threat precursors  
(explosives, chemicals, primers, etc.)

2

Suspect Individuals  
(known extremists, etc.)

1

3

SETTING

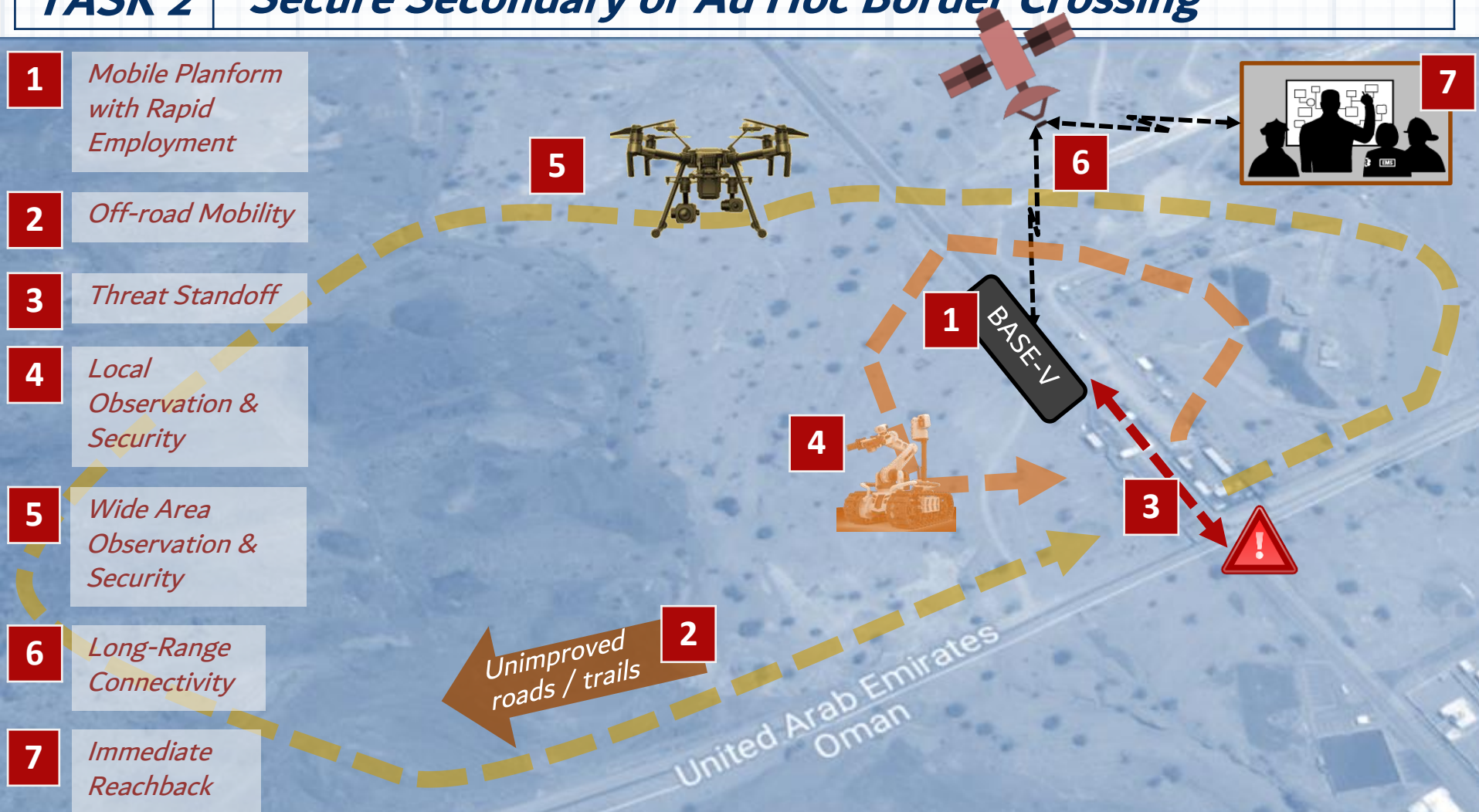
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## TASK 2

# Secure Secondary or Ad Hoc Border Crossing



*BASE-V employment in this task is focused on provided a robust detection capability for a limited duration. BASE-V is also used to access and secure remote locations for ad hoc or illegal border crossings.*



# TASK 2

# Secure Secondary or Ad Hoc Border Crossing

1 Mobile Platform with Rapid Employment

2 Off-road Mobility

3 Threat Standoff

4 Local Observation & Security

5 Wide Area Observation & Security

6 Long-Range Connectivity

7 Immediate Reachback



## TASK 2 KEY CAPABILITIES LIST

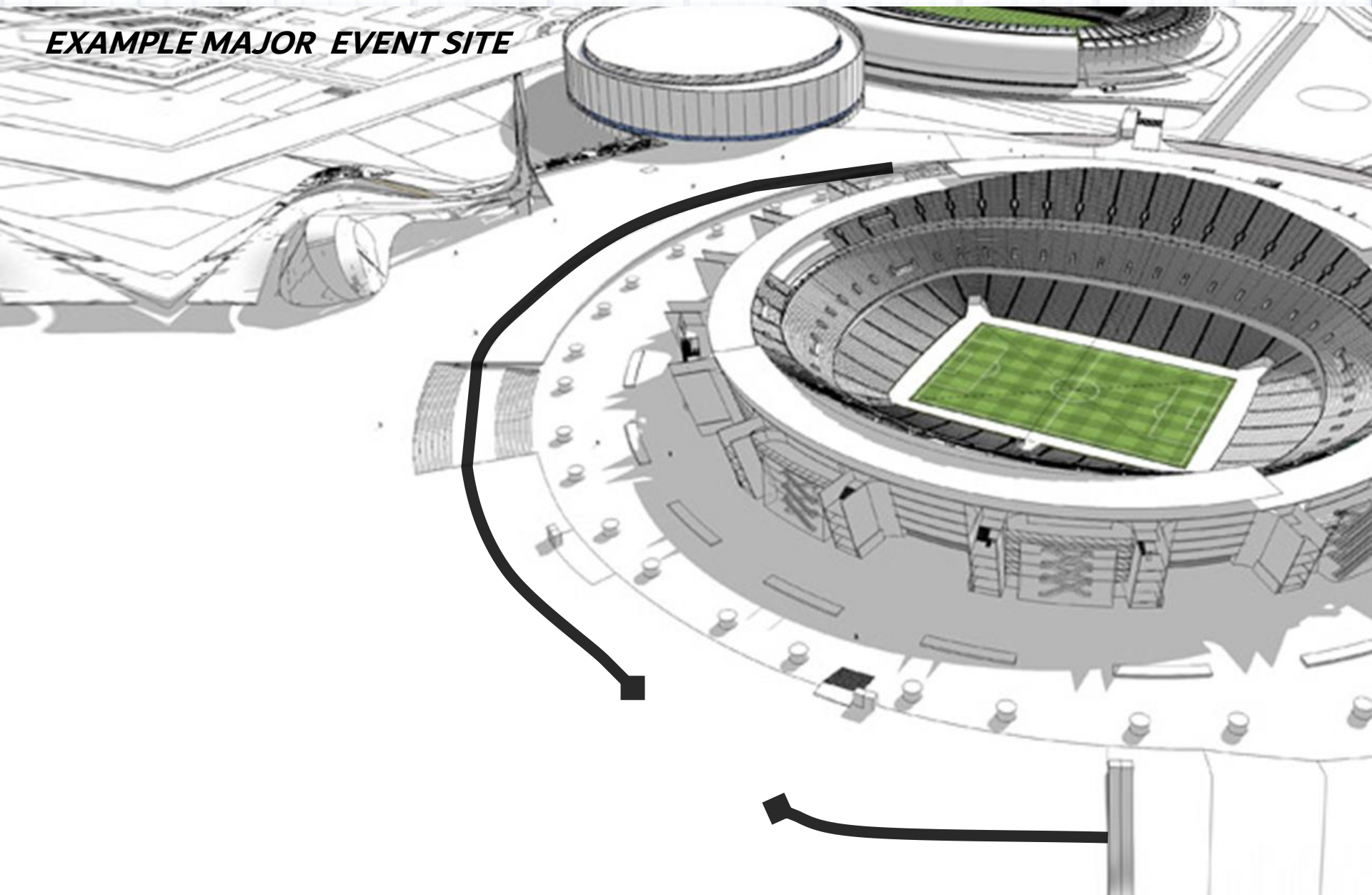
	1. Vehicle Mobility & Modularity	2. Proximity Detection (manned)	3. Standoff Detection (unmanned)	4. Local Observation & Security	5. Wide Area Surveillance	6. Detailed Interrogation & Analysis	7. Networking & Communications	8. Traffic Control & Standoff	9. Protection	10. Active Response
SPRINTER BASE-V PLATFORM	X									
DRUG DETECTION		X	X		X					
EXPLOSIVE DETECTION		X	X		X					
MOBILE / HANDHELD RADIATION DETECTION		X	X		X					
PASSPORT / ID VERIFICATION		X			X	X				
METAL DETECTION		X			X					
CURRENCY DETECTION		X			X					
LUGGAGE X-RAY					X					
VIDEO SCOPE					X					
X-RAY HUMAN BODY SCAN					X					
ROBOTIC GROUND SYSTEM			X							
UNMANNED AERIAL SYSTEM				X						
UNATTENDED GROUND SENSORS		X								
TEMPORARY BARRIER SYSTEMS							X	X		
ACTIVE COUNTERMEASURES									X	
COMMUNICATIONS SYSTEMS					X					

# USE CASE 3: Augment UAE Security Forces for Event



# ***TASK 3 Augment UAE Security Forces for Event Security***

***EXAMPLE MAJOR EVENT SITE***



# TASK 3 *Augment UAE Security Forces for Event Security*

1



*Large Crowds*

*This task environment is characterized by planned security operations to deal with large volumes of persons and some limited vehicular traffic to access a controlled area like a stadium, event center or airport.*

2



*Event Trucks*

3



*Event Equipment*

4



*Permitted vehicles*

1 Pedestrian  
Crowds  
2  
3 Permitted  
Vehicles



# TASK 3 Augment UAE Security Forces for Event Security

1



*Suspicious individuals*

*Threats in this tasks are primarily associated with coordination and execution of mass casualty on large crowds. Key threats include isolated and potentially coordinated use of weapons, improvised explosives and potentially vehicles.*

2



*Weapons*

3



*Explosives & Suicide Vests*

4



*Bomb parts & contraband items*

5



*Threat surveillance & targeting*



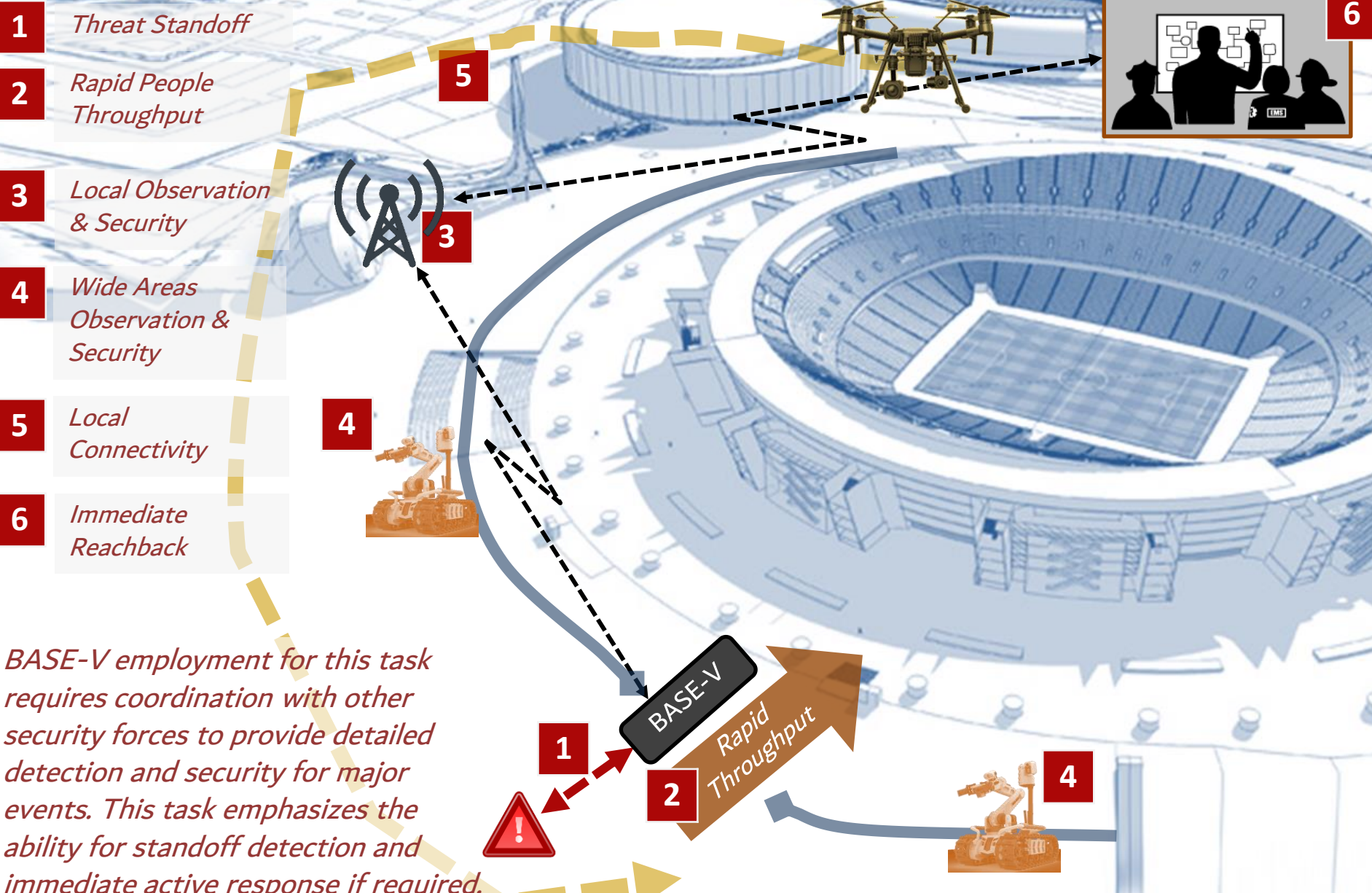
SETTING

ISSUE

NEED

SOLUTION

## *Augment UAE Security Forces for Event Security*





# TASK 3 Augment UAE Security Forces for Event Security

1 Threat Standoff

2 Rapid People Throughput

3 Local Observation & Security

4 Wide Areas Observation & Security

5 Local Connectivity

6 Immediate Reachback



## TASK 3 KEY CAPABILITIES LIST

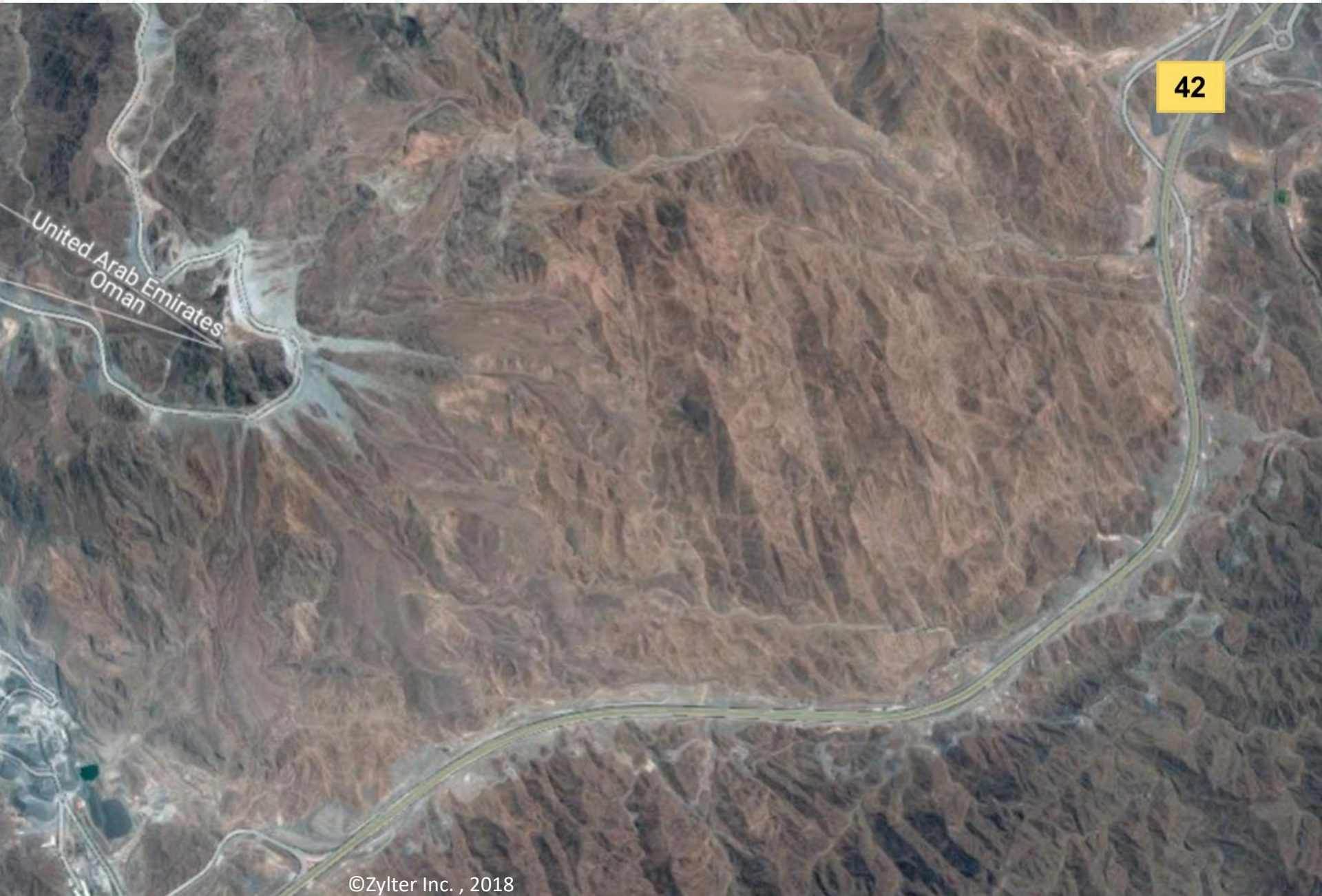
	1. Vehicle Mobility & Modularity	2. Proximity Detection (manned)	3. Standoff Detection (unmanned)	4. Local Observation & Security	5. Wide Area Surveillance	6. Detailed Interrogation & Analysis	7. Networking & Communications	8. Traffic Control & Standoff	9. Protection	10. Active Response
SPRINTER BASE-V PLATFORM	X									
DRUG DETECTION		X	X		X					
EXPLOSIVE DETECTION		X	X		X					
MOBILE / HANDHELD		X	X		X					
RADIATION DETECTION		X	X		X					
PASSPORT / ID VERIFICATION		X			X	X				
METAL DETECTION		X			X					
CURRENCY DETECTION										
LUGGAGE X-RAY					X					
VIDEO SCOPE					X					
X-RAY HUMAN BODY SCAN					X					
ROBOTIC GROUND SYSTEM			X							
UNMANNED AERIAL SYSTEM				X						
UNATTENDED GROUND SENSORS										
TEMPORARY BARRIER SYSTEMS							X	X		
ACTIVE COUNTERMEASURES									X	
COMMUNICATIONS SYSTEMS					X					

# USE CASE 4: Interior Area Security & Customs Enforcement





## ***TASK 4 Interior Area Security & Customs Enforcement***





# TASK 4 Interior Area Security & Customs Enforcement

1



*Passenger & light commercial vehicles*

2



*Loose cargo*

3



*No infrastructure or utilities*

4



*Unsecured border & secondary routes*

5

*This task requires rapid BASE-V employment to execute short-duration detection on highways and locations in the interior of the country. These locations are generally along likely routes for smuggling, infiltration or movement of contraband items. Setting can also include areas near sea and air ports of entry.*

Unsecured border areas

Light vehicle traffic

SETTING

ISSUE

NEED

SOLUTION



## TASK 4

# Interior Area Security & Customs Enforcement

1



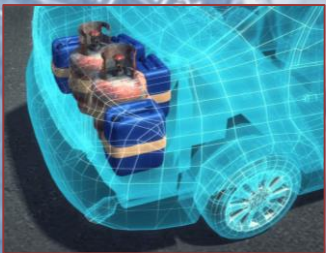
Watchlist  
individuals

2



Illegal weapons

3



Threat materials &  
precursors

4



Contraband items  
& unreported  
currency

5



Threat surveillance  
& targeting

6



Illegal border  
crossing

Key concerns for this task are associated with the movement of threat and contraband items. Short duration of BASE-V operations reduces the likelihood of direct targeting. However, threat actions can include attempts to avoid or bypass the BASE-V checkpoint.

5

Threat Surveillance  
& Targeting

6

Illegal Border Crossings

1

Suspect Individuals  
(illegal immigrants, etc.)

2

Threat precursors  
(explosives, chemicals, primers, etc.)

3

Contraband Items  
(currency, drugs, black market items, etc.)

4

SETTING

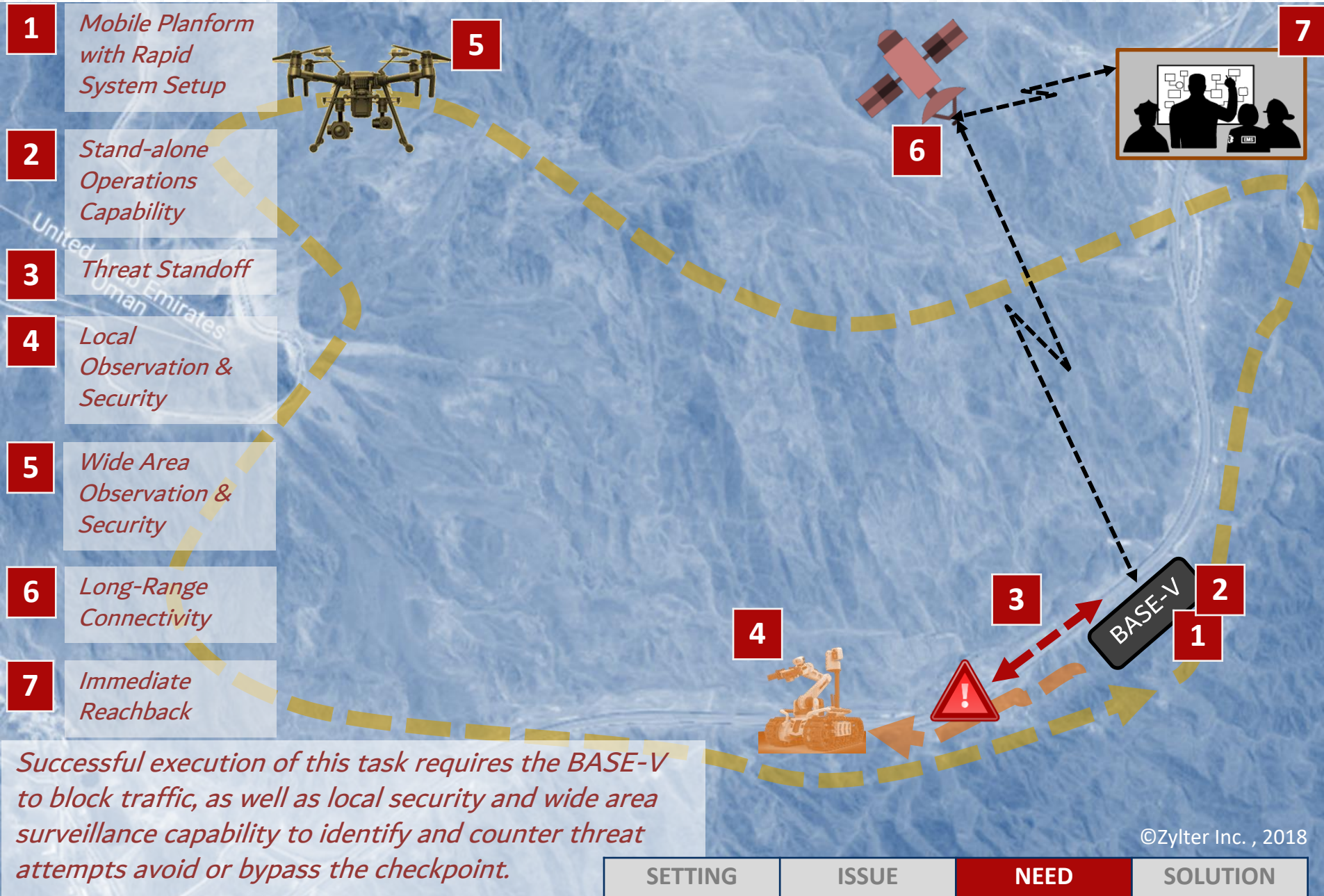
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# TASK 4 Interior Area Security & Customs Enforcement





# TASK 4 Interior Area Security & Customs Enforcement

**1** Mobile Platform with Rapid System Setup



**2** Stand-alone Operations Capability



**3** Threat Standoff

**4** Local Observation & Security



**5** Wide Area Observation & Security



**6** Long-Range Connectivity

**7** Immediate Reachback



## TASK 4 KEY CAPABILITIES LIST

	1. Vehicle Mobility & Modularity	2. Proximity Detection (manned)	3. Standoff Detection (unmanned)	4. Local Observation & Security	5. Wide Area Surveillance	6. Detailed Interrogation & Analysis	7. Networking & Communications	8. Traffic Control & Standoff	9. Protection	10. Active Response
SPRINTER BASE-V PLATFORM	X					X				
DRUG DETECTION		X			X					
EXPLOSIVE DETECTION		X			X					
RADIATION DETECTION	X	X		X						
PASSPORT / ID VERIFICATION	X			X	X					
METAL DETECTION	X			X						
CURRENCY DETECTION	X			X						
LUGGAGE X-RAY				X						
VIDEO SCOPE				X						
X-RAY HUMAN BODY SCAN				X						
ROBOTIC GROUND SYSTEM			X							
UNMANNED AERIAL SYSTEM			X							
UNATTENDED GROUND SENSORS			X							
TEMPORARY BARRIER SYSTEMS							X	X		
ACTIVE COUNTERMEASURES									X	
COMMUNICATIONS SYSTEMS					X					