

Sept 06, 2022

The threat of drone attacks on vulnerable targets

Experience and lessons learned
from 2018 PyeongChang Winter Olympic Games

Lee Byoung Seok
ICTRC in Korea



INTERNATIONAL COUNTER TERRORISM RESEARCH CENTER

SINCE 2021



1. Introduction

- About me
- What's ICTRC?

INTERNATIONAL COUNTER TERRORISM RESEARCH CENTER

SINCE 2021





About me : Lee Byoung Seok



- **Doctor** of Public Administration. Drone policy Major
- **Director** of the International Counter-Terrorism Research Center, KNPU
- **Professor** of Police Department at the KNPU
- **Superintendent**, Korea National Police Agency
- **Teaching** use of security drones, Terrorism, and drone terrorism and counter-UAS
- **Consulting** Drone-policy and Counter-UAS advisory member of the National Police Agency and central government agencies

Publishment

2018 *Drones, Saves Lives*

2021 *Understanding and actuality of Counter-UAS*



What's ICTRC?

'21.09.17.

ICTRC Opening
: Participation of Ban Ki-moon, Former
Secretary-General of UN



'22.04.20.

Host of High-level
International Symposium on
Counterterrorism



'22.04.22.

Cooperation & Meeting of
the Director of UNOCT,
Dr. Jehangir Khan





1

Outline of ICTRC

Think tank of Counter-Terrorism



Comprehensive Research on Domestic/Foreign Threat

Academic Research & Policy Development

- Conducting National R&D on Terrorism and Drone
- ICTRC-Related Organization Holding Regular Academic Seminar
- 'The Counter Terrorism Research' Upgrade of an Academic Journal



Training of Counter-Terrorism Expert

- 'International Counter Terrorism Study Club' Activity ·Support for Police Officers
- Administration of Domestic/Foreign Experts

Exchange and Cooperation with Governmental Department & Academy





1

Organization Chart
&
Research
Department



INTERNATIONAL
COUNTER TERRORISM
RESEARCH CENTER



ICTRC Digital Platform



2. Terrorism Response to Vulnerable Targets : The Pyeongchang Olympics 2018

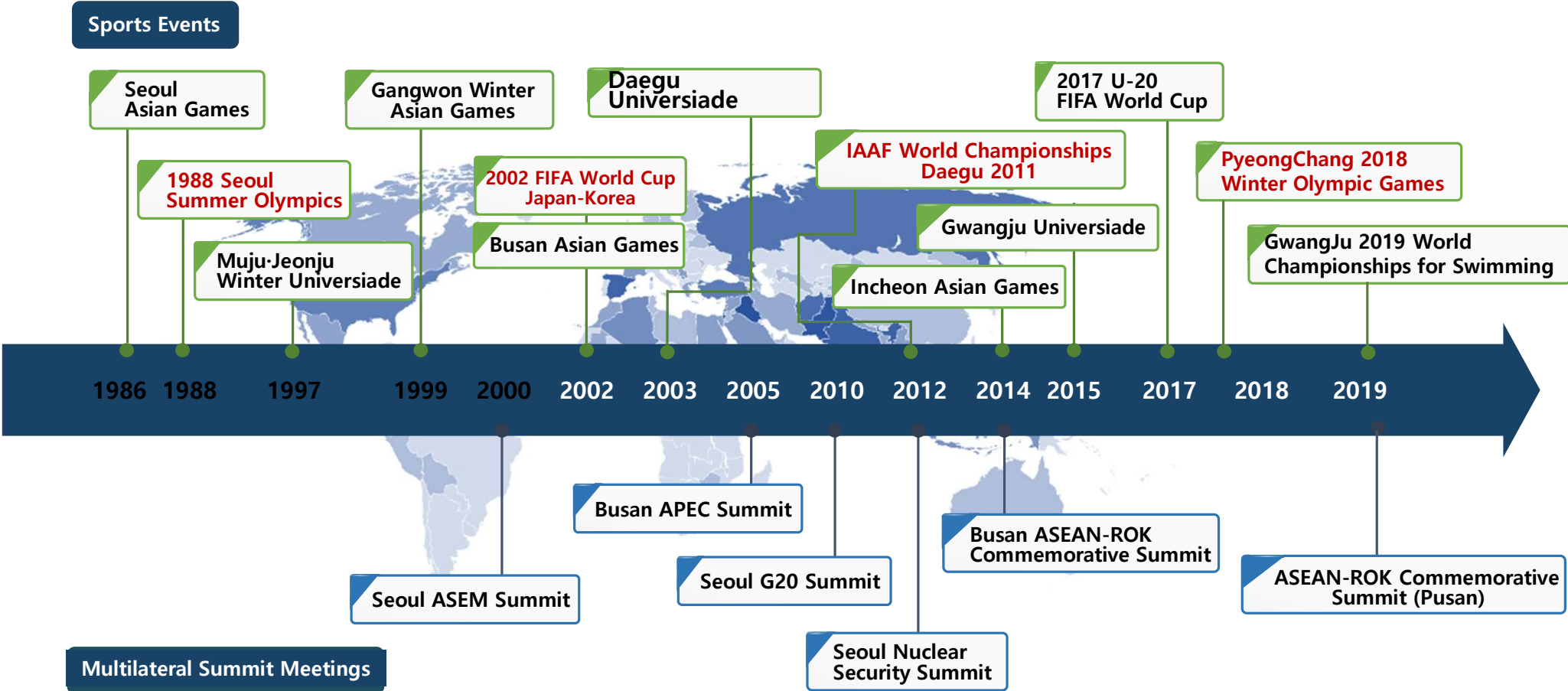


INTERNATIONAL COUNTER TERRORISM RESEARCH CENTER

SINCE 2021



Previous International Events in Korea





Development of Counter-Terrorism Activities in Korea

1981.9.30 Seoul was chosen to host 1988 Olympics through a vote held in 11th Congress in Baden-Baden, West Germany

1982 Establishment of **National Counter-terrorism Guide**

→ Preparation for the safety measures

Korea's Counter-terrorism activities have made advances along with international events



2016. 3. 3.
Enactment of
『**Act on Anti-Terrorism
for the Protection
of Citizens and Public Security**』

2016. 6. 4.
Operation of
**ROK NCTC
(National Counter-Terrorism Center)**

Major International Events such as
Olympics and FIFA World Cups
→ Counterterrorism and Safety
Measures based on separate special
legislations



Outline of the PyeongChang Olympic



- Period : Feb 9 ~ Feb 25, 2018 / 17 days
- Host cities : Pyeongchang, Gangneung, Jeongseon in Gangwon Province
- 15 Sports, 102 Games
- Participants : 2,925 athletes from 93 nations
- Spectators : approximately 1,078,000 PAX
(Ticket Sales Standards)



경찰대학
국제대테러연구센터

고도와 다양화되는 국내·외 테러 위협 대응을 위한
테러/대테러/드론 연구의 싱크탱크

2

Terrorism Response to
Vulnerable Targets :
The Pyeongchang
Olympics 2018



INTERNATIONAL
COUNTER TERRORISM
RESEARCH CENTER





International Cooperation Office (ICO)

PERIOD

- ▶ Feb 7-25, 2018 (17 days)

VENUE

- ▶ Gangneung Sports Complex, Gangneung city, Gangwon-province

RESPONSIBILITY

- ▶ Establishing combined readiness posture by having real-time CT & Safety information sharing
 - Provides daily briefing on terror intelligence, safety measures and events of the day
 - Shares terror threat intelligence with participants(SNS) in real time
 - Designated NIS officer to provide appropriate info. for each country



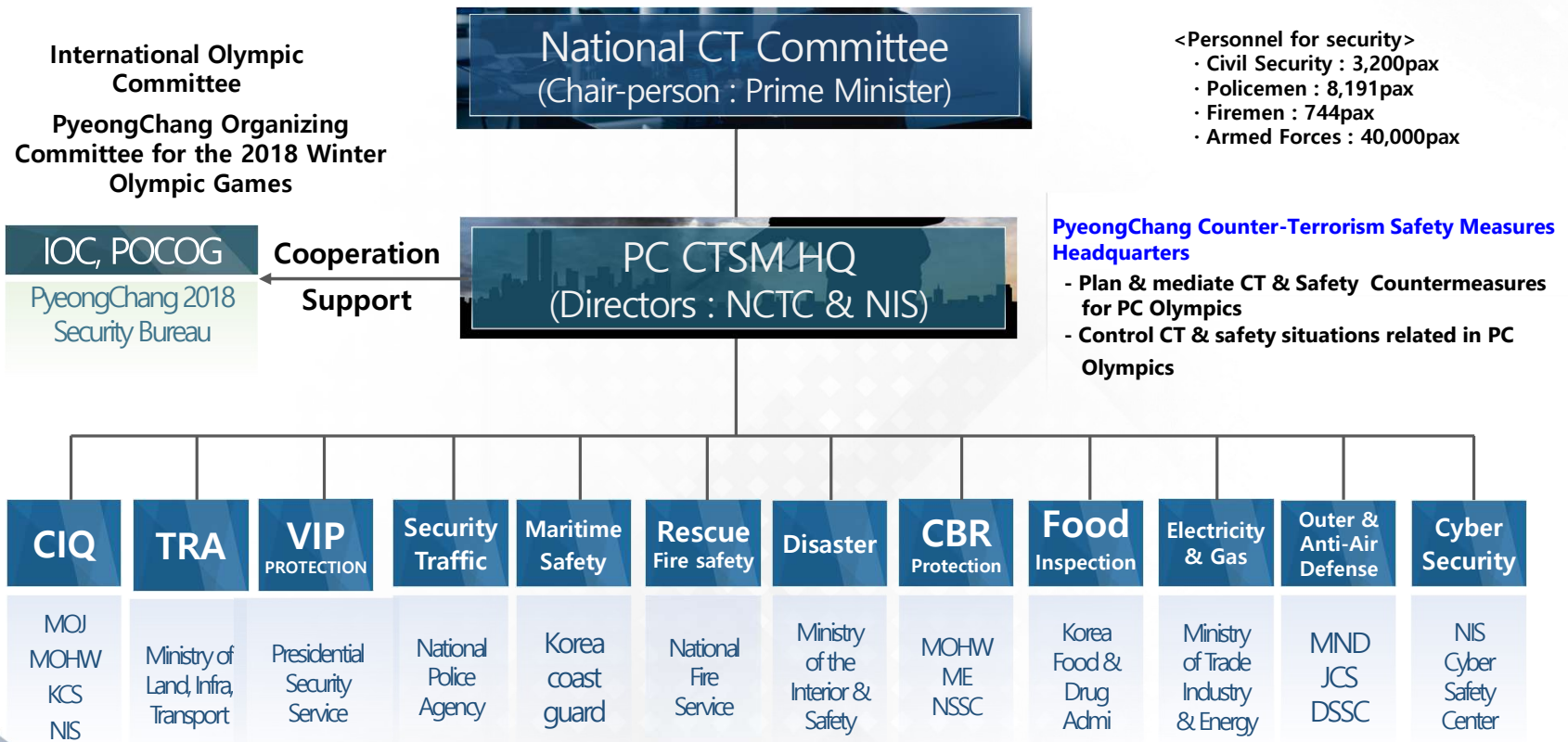
2

Terrorism Response to
Vulnerable Targets :
The Pyeongchang
Olympics 2018

Counter-Terrorism & Safety System for PC Olympics

Counter-Terrorism & Safety Center

▶ Joint Counter-Terrorism & Safety Center including 19 governmental Agencies in ROK legal Basis



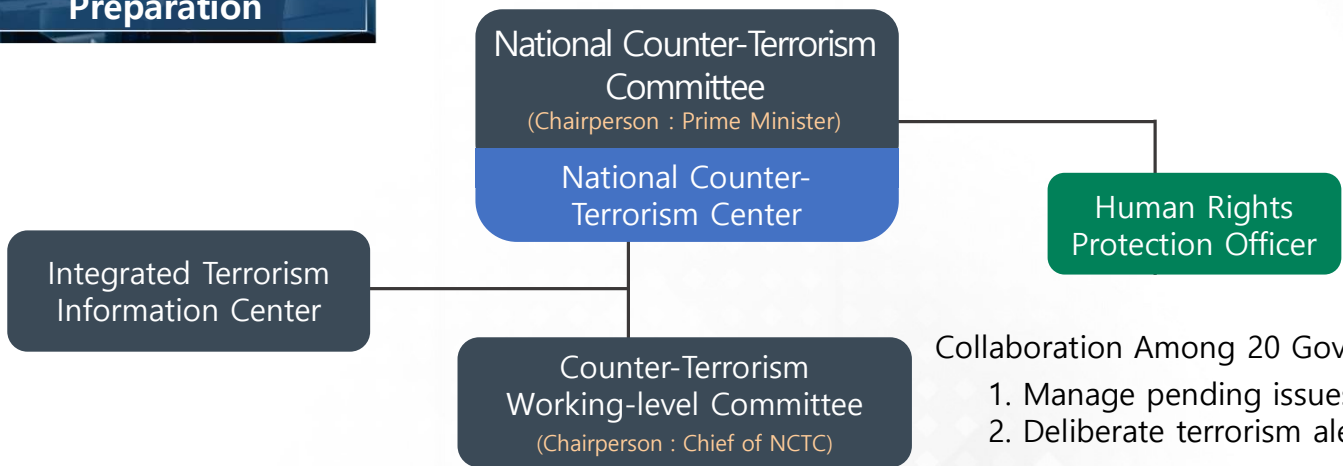


2

Terrorism Response to
Vulnerable Targets :
The Pyeongchang
Olympics 2018

System of Counter-Terrorism Activities

Prevention & Preparation



Collaboration Among 20 Government Agencies

1. Manage pending issues related terrorism
2. Deliberate terrorism alert

Ministry of Strategy and Finance	Ministry of Foreign Affairs	Ministry of Unification	Ministry of Justice	Supreme Prosecutor's Office
Ministry of National Defense	Ministry of the Interior and Safety	Ministry of Trade, Industry and Energy	Ministry of Health and Welfare	Ministry of Environment
Ministry of Land, Infrastructure and Transport	Ministry of Oceans and Fisheries	Financial Services Commission	National Intelligence Service	Presidential Security Service
Korean Customs Service	National Police Agency	National Fire Service	Korea Coast Guard	Nuclear Safety and Security Commission



Pyeong Chang Mt. Cluster



1 ALPENSIA SLIDING CENTER



2 ALPENSIA SKI JUMP CENTER



3 ALPENSIA BIATHLON CENTER



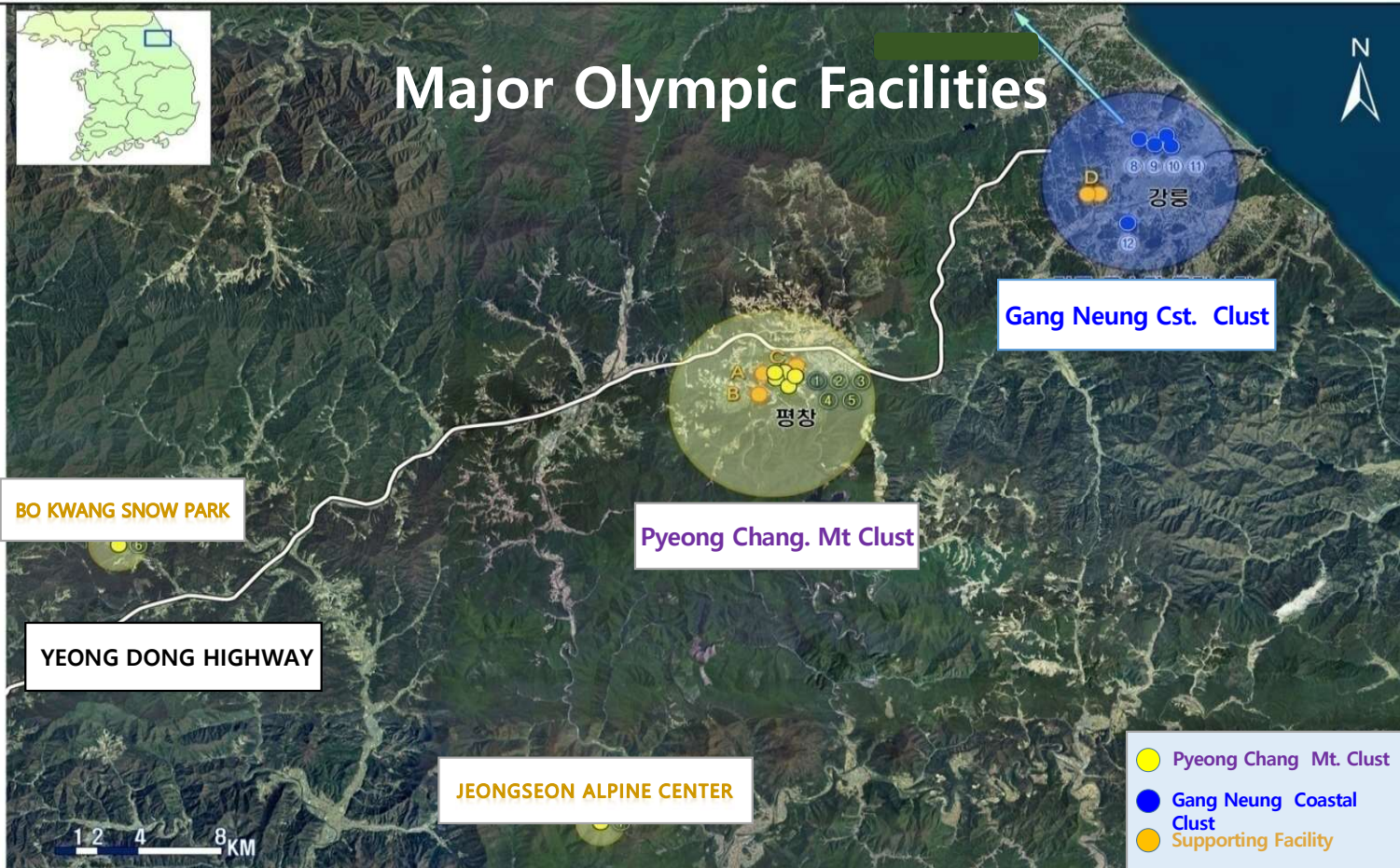
4 ALPENSIA CROSS-COUNTRY CENTER



5 YONG PYONG ALPINE CENTER



Major Olympic Facilities



BO KWANG SNOW PARK

YEONG DONG HIGHWAY

JEONGSEON ALPINE CENTER

Pyeong Chang Mt Clust

Gang Neung Cst. Clust

- Pyeong Chang Mt. Clust
- Gang Neung Coastal Clust
- Supporting Facility

Gang Neung Coastal Cluster



8 GANG NEUNG SPEED SKATING CENTER



9 GANG NEUNG HOCKEY CENTER



10 GANG NEUNG CURLING CENTER



11 GANG NEUNG ICE ARENA



12 KWANG DONG HOCKEY CENTER



6 BO KWANG SNOW PARK



7 JEONG SEON ALPINE CENTER



A. OLYMPIC PLAZA



B. INTERNATIONAL MEDIA CENTER



C. PYEONG CHANG ATHLETES VILLAGE



D. GANG NEUNG ATHLETES VILLAGE



2

Terrorism Response to
Vulnerable Targets :
The Pyeongchang
Olympics 2018

CT Safety & Security Measures

A large Spectators

Over 1Million PAX



Multi Agency effort for Safety & Security

Personnel : Approx. 52,000PAX
* 3,200(Civil Security Personnel), 744(Firemen),
8,191(Policemen), 40,000(Armed Forces)

CTSM HQ - SCC(18)
* IOC, POCOG, CIQ, ICC, Agencies(19)

Fence - CCTV - PSA / VSA
* X-ray, MD, Hand Scanner, Z Backscatter Van,
Drone, Jammer, Tactical Airplane etc.

**Trainings - Comprehensive Rehearsal -
Workshops - Security Test Event -
Security Sweeps - Lock down**





2

Terrorism Response to
Vulnerable Targets :
The Pyeongchang
Olympics 2018

Counter-Terrorism & Safety System for PC Olympics

Field CT & Safety Organizations and Activities



18 Centers



50 Countries / 60 Organizations



19 Agencies



An All-out national response system (tri-polar system)



- CTSM HQ : PyeongChang Counter-terrorism Safety Measures Headquarters
- SCC : Security Command Center
- CIQ : Customs, Immigrations and Quarantine
- ICC : Intelligence Cooperation Center
- IPCC : International Police Cooperation Center





Counter-Terrorism & Safety Activities for PC Olympic

2

Terrorism Response to
Vulnerable Targets :
The Pyeongchang
Olympics 2018

Security Briefings & Workshops



Security Test Event



INTERNATIONAL
COUNTER TERRORISM
RESEARCH CENTER



Counter-Terrorism & Safety Activities for PC Olympic

Security Sweeps to all Olympic Facilities

2

Terrorism Response to
Vulnerable Targets :
The Pyeongchang
Olympics 2018





Counter-Terrorism & Safety Activities for PC Olympic

Install and Operate over **900 smart CCTV** cameras to check all situations

Ex. a Security Command Center



Ex. Alpensia Olympic Park (**97 cameras**)



SCC includes Safety Check Team(Items) & Field Action Team(People)



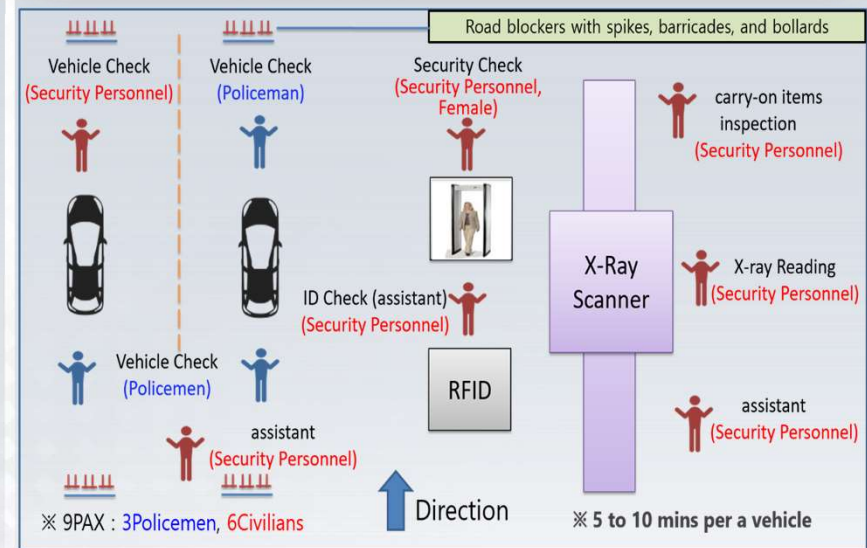
Counter-Terrorism & Safety Activities for PC Olympic

Check all people and items to enter to all venues by using MD, hand & X-ray scanner etc.

Ex. a PSA (Pedestrian Screening Area)



Ex. a VSA(Vehicle Screening Area)



Security Check of all people, items and vehicles to enter each venue





2

Terrorism Response to
Vulnerable Targets :
The Pyeongchang
Olympics 2018

Counter-Terrorism & Safety Activities for PC Olympic

Search all Items and Vehicles entering Olympic Venues during main events

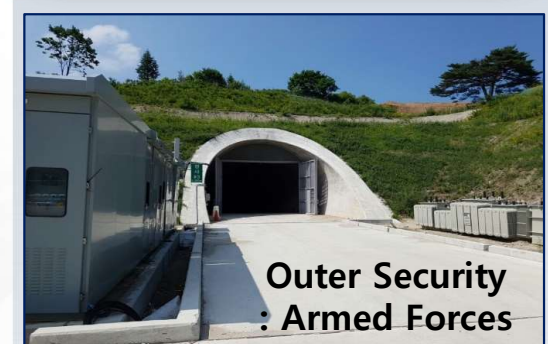
Operate ZBV for Scanning
inside Vehicles



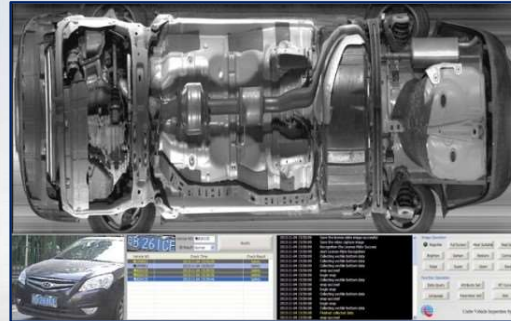
Search system of the
low part of a vehicle



Emergency shelters(tunnel)



Outer Security
: Armed Forces



1.9km / 3mins from
Olympic Plaza
(Main stadium)





2

Terrorism Response to
Vulnerable Targets :
The Pyeongchang
Olympics 2018

Counter-Terrorism & Safety Activities for PC Olympic

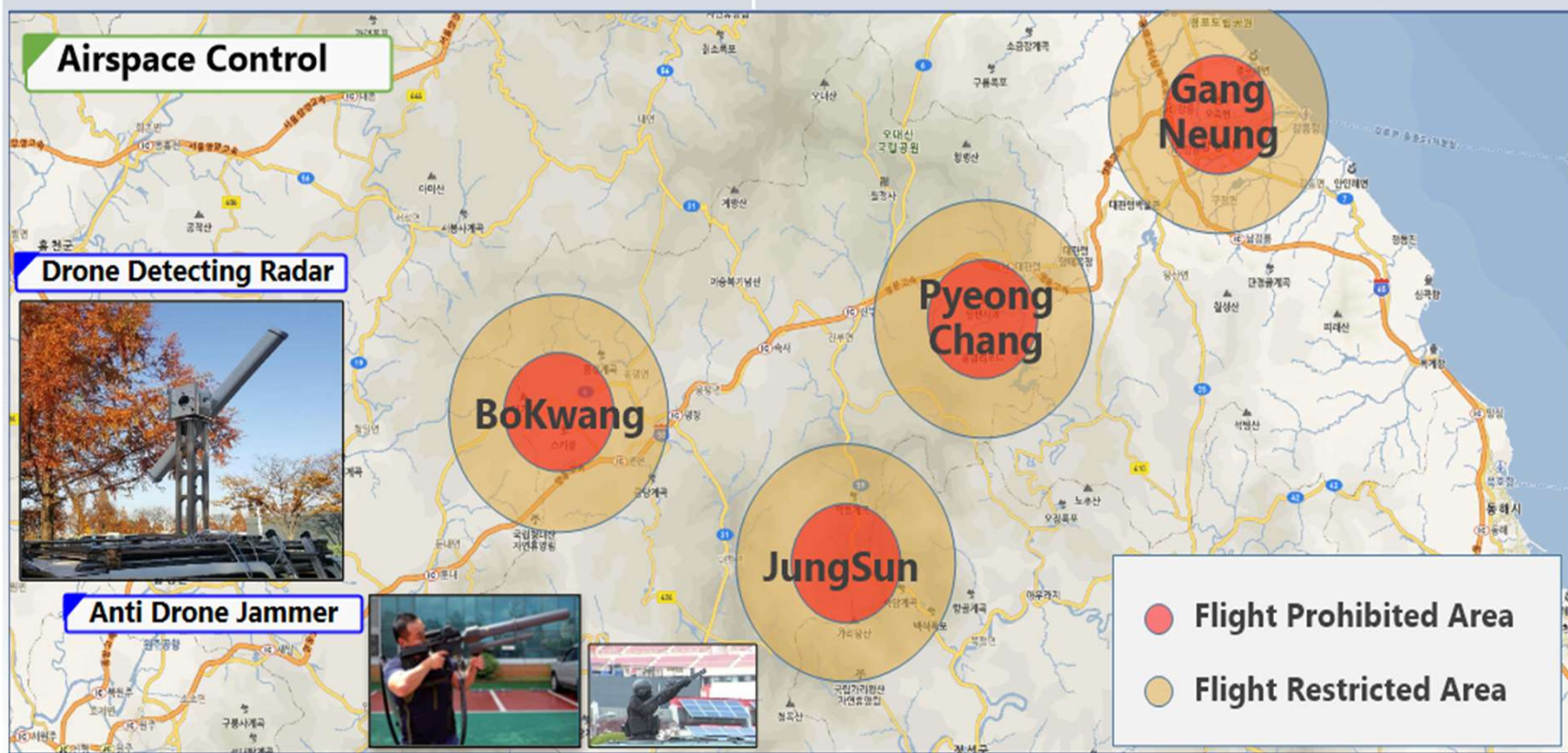


* Countermeasures against CBR Terrorism and Terrorism using Mails & Parcels





Counter-Terrorism & Safety Activities for PC Olympic



Prepared Military Snipers with Shotgun & Helicopter to approach and shoot to unidentified Drone





Conclusion

Counter-terrorism and Safety Activities of Pyeongchang 2018

- Government-wide watertight preparedness based on "Anti-terrorism Law + Special Act on 2018 PyeongChang"
- Rich experience and know-how of safely hosting various international events
And establishing an all-out national response system through Invisible security
utilized high-tech security equipment (low-key security).
- Achieving Three-zero games through phase activities and thorough
preparedness (zero crimes against foreigners, zero murders, zero absence of
athletes)



3. The severity of drone terrorism



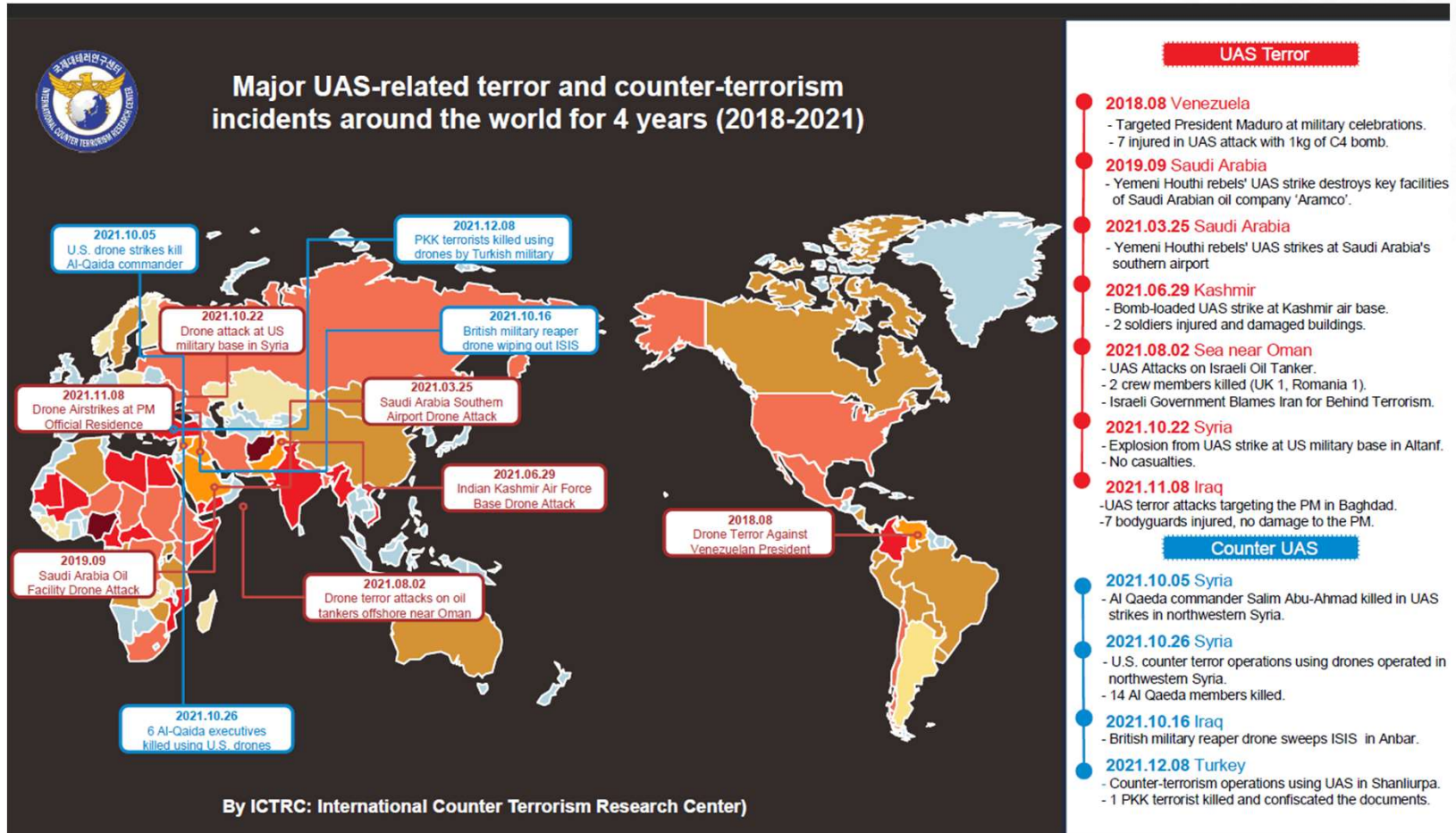
INTERNATIONAL COUNTER TERRORISM RESEARCH CENTER

SINCE 2021





The severity of drone terrorism

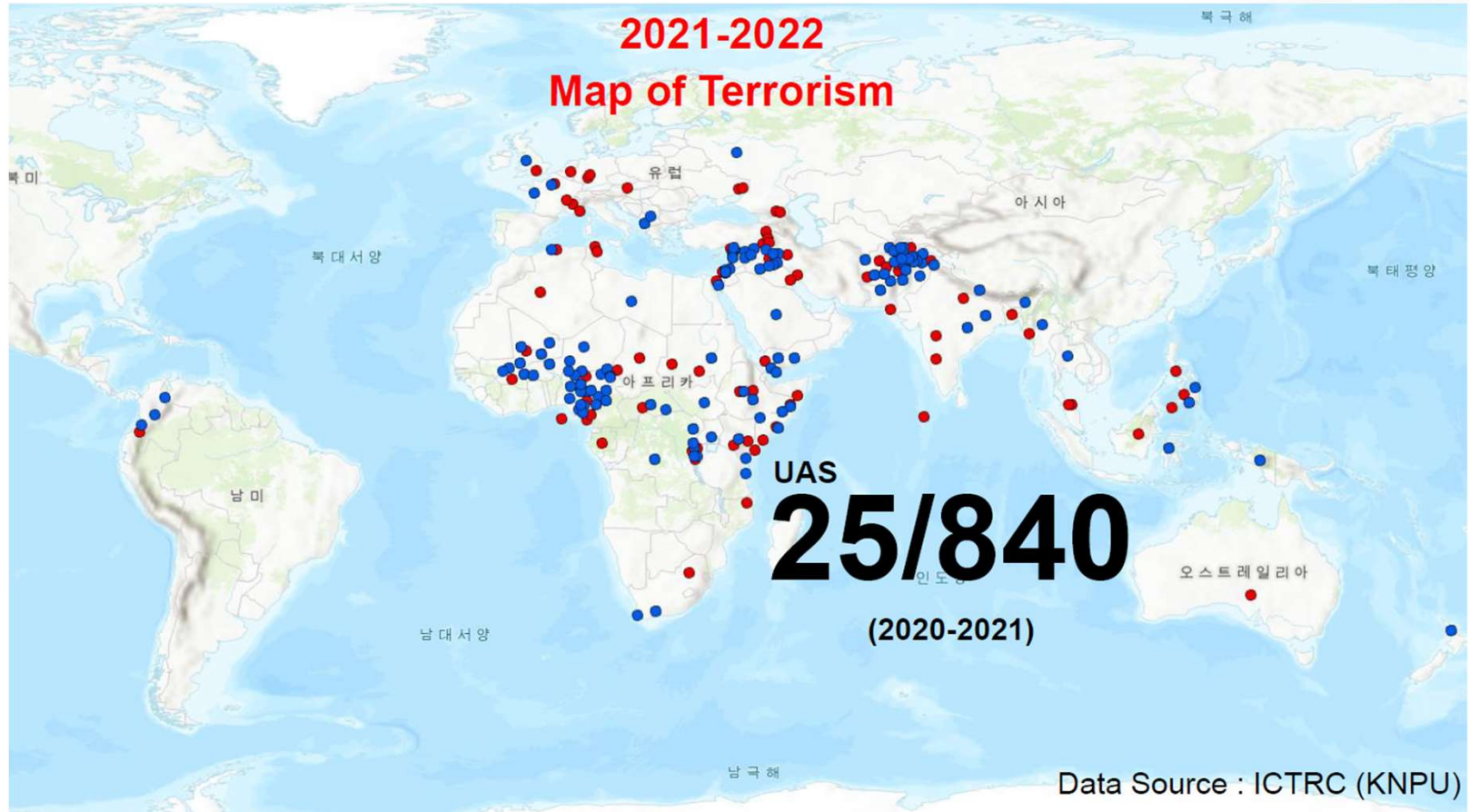




3

The severity of drone terrorism

The severity of drone terrorism



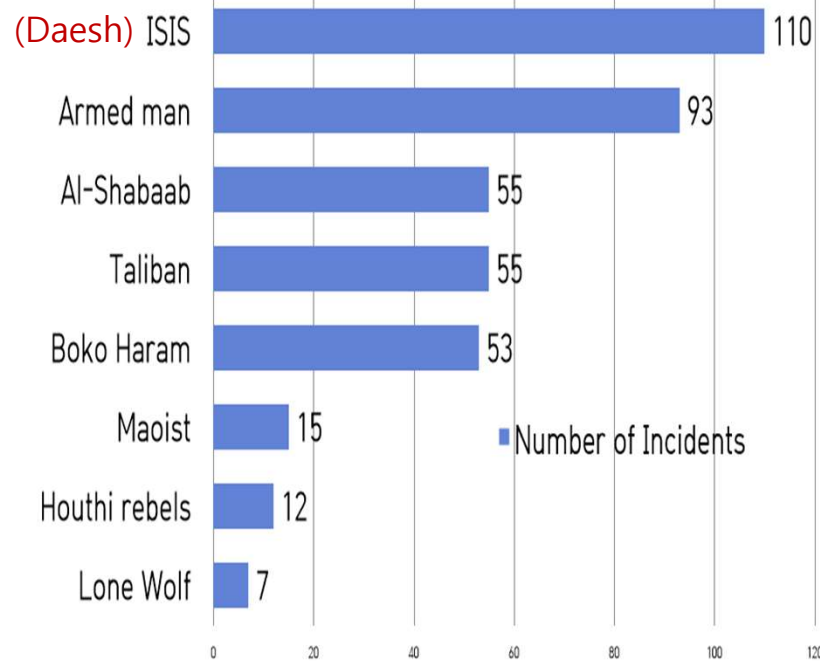


3

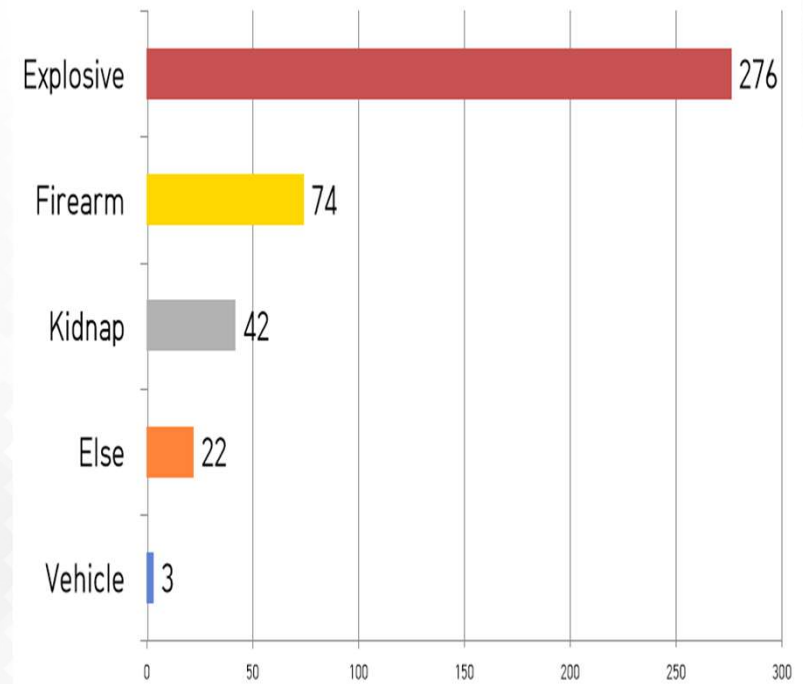
The severity of drone terrorism

The severity of drone terrorism

The top 7 terrorist groups



A means of Terror



Data Source: ICTRC(KNPU)

4. The Role of the International Community in Responding to Drone Terrorism



INTERNATIONAL COUNTER TERRORISM RESEARCH CENTER

SINCE 2021





The Role : Must be changed

**As the types of terrorism change,
so must the methods of countering terrorism.**

- Currently at least 102 countries have acquired military drones
- About 35 countries have powerful military drones
- **At least 20 armed groups secured drone technology**
(source : data from the Drone Research Center at Brad University, March 2020)
- It has installed and operated Counter-UAS system worldwide.
- **Various technologies to detect, identify, neutralize to illegal drones must be developed and disseminated.**
 - Drone Identification Module
 - Personal Identification (USIM)
 - International Standard
 - Black Box, forensic
 - Integrated Control(GCP)



4

The Role of the
International Community
in Responding to Drone
Terrorism

International Cooperation



Thank You

2022 대테러 고위급 국제 심포지엄

- 신기술 테러 위협과 국제협력 강화 -

주최: 포교포럼 UNOCT KAARI 한국중앙연구원
후원: 경찰청 대테러센터



Korean National Police University
International Counter Terrorism Research Center