

Regional Landside Security Webinar

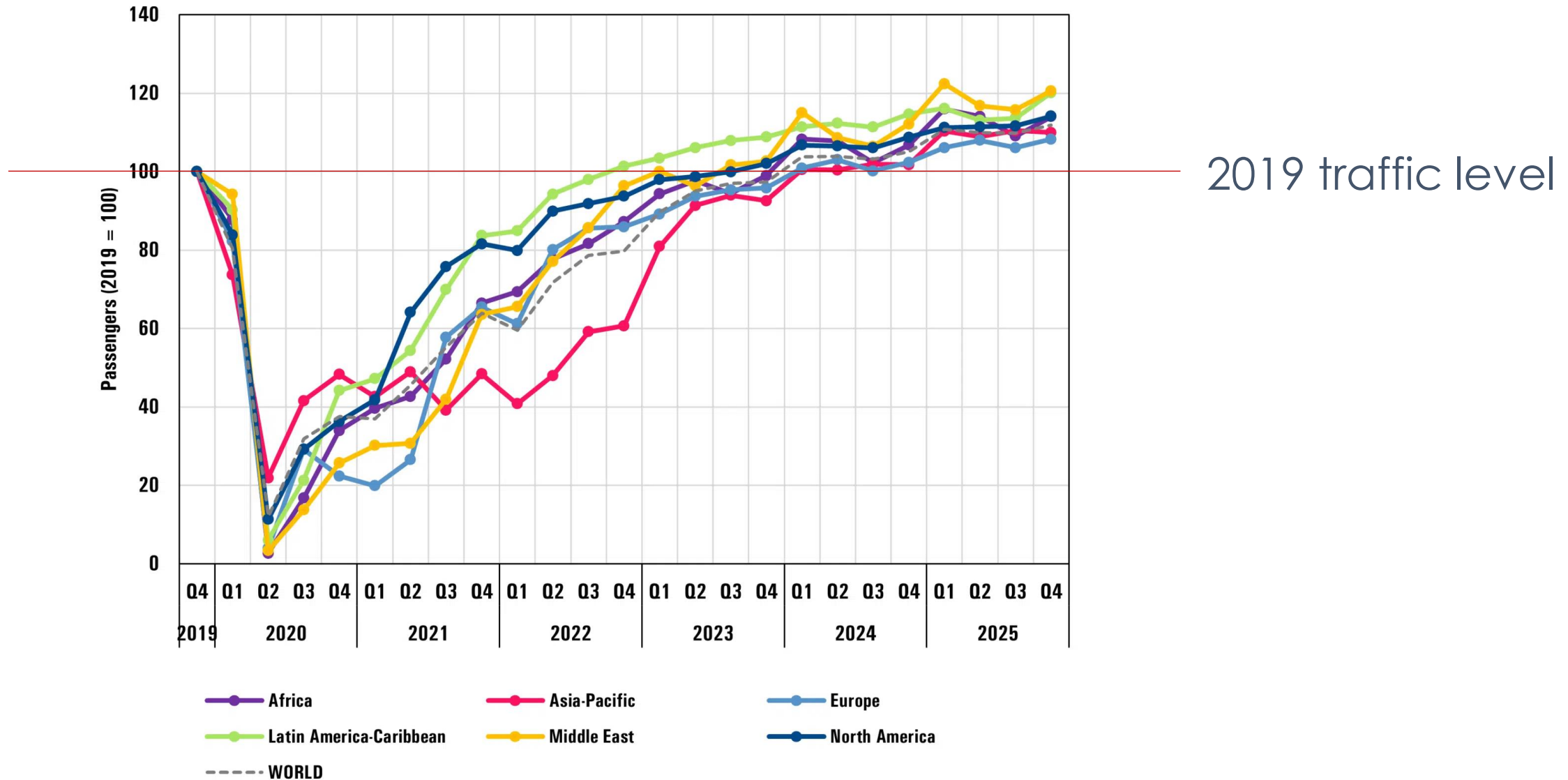
12 Feb 2025



ACI membership & regional offices

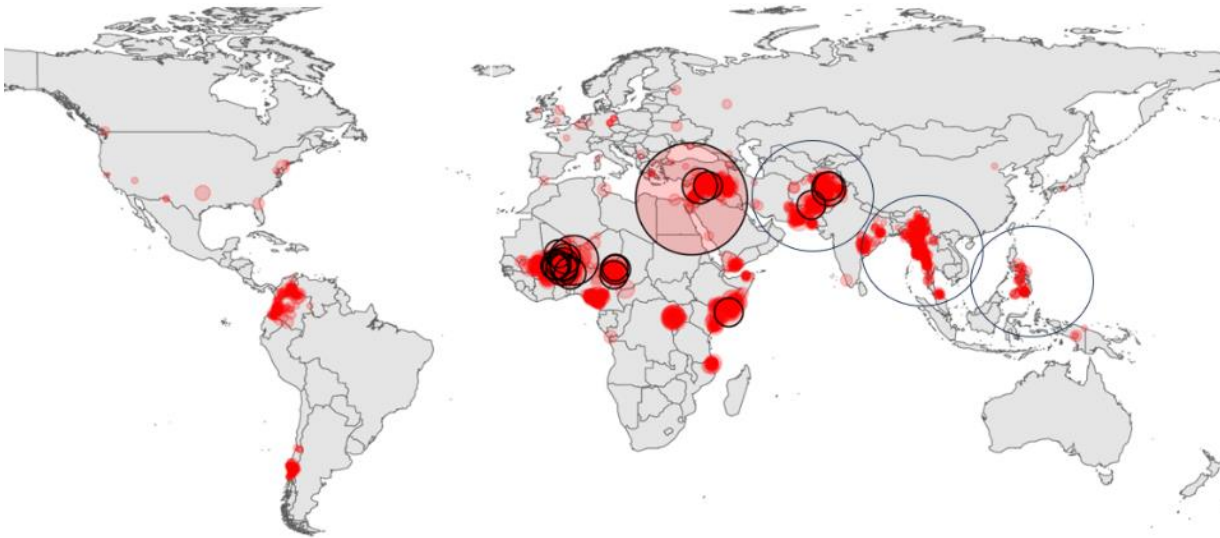


Air passenger traffic has surpassed 2019 level for all regions



Civil Aviation still remains an attractive target for terrorists

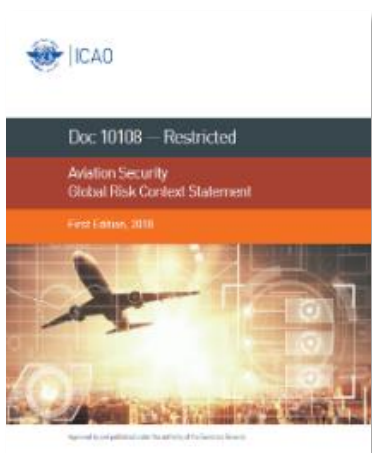
Fatal terrorist attacks in 2023 (all types)



AUls against civil aviation

- 57 AUls in 2022
- **60** AUls in 2023
 - 8 on aircraft in flight
 - 13 on aviation facilities (e.g. airports)
 - 1 unlawful seizure
 - 1 attack using aircraft as weapon
 - 37 attacks as others

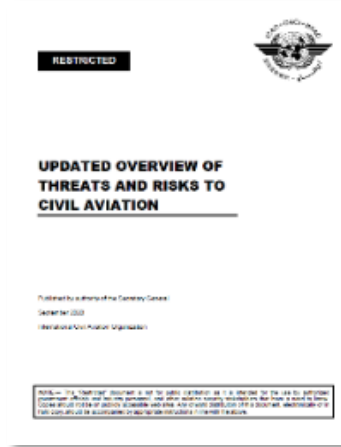
Constant update of ICAO Risk Context Statement (RCS)



1st edition (2018)



2nd edition (2019)



Interim update
(2020)



3rd edition
(Dec 2022)



4th edition
(soon, TBC)

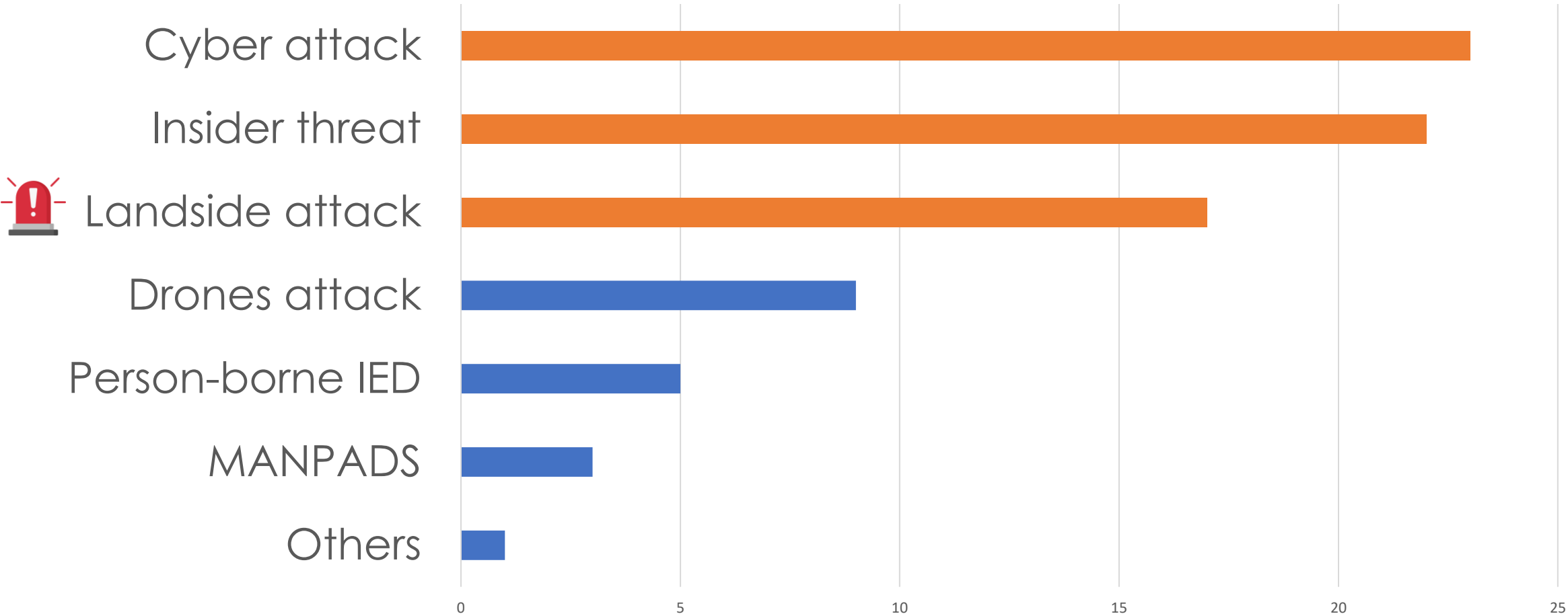
ACI Regional Aviation Security Committee

38 committee members, representing over 130 individual airports

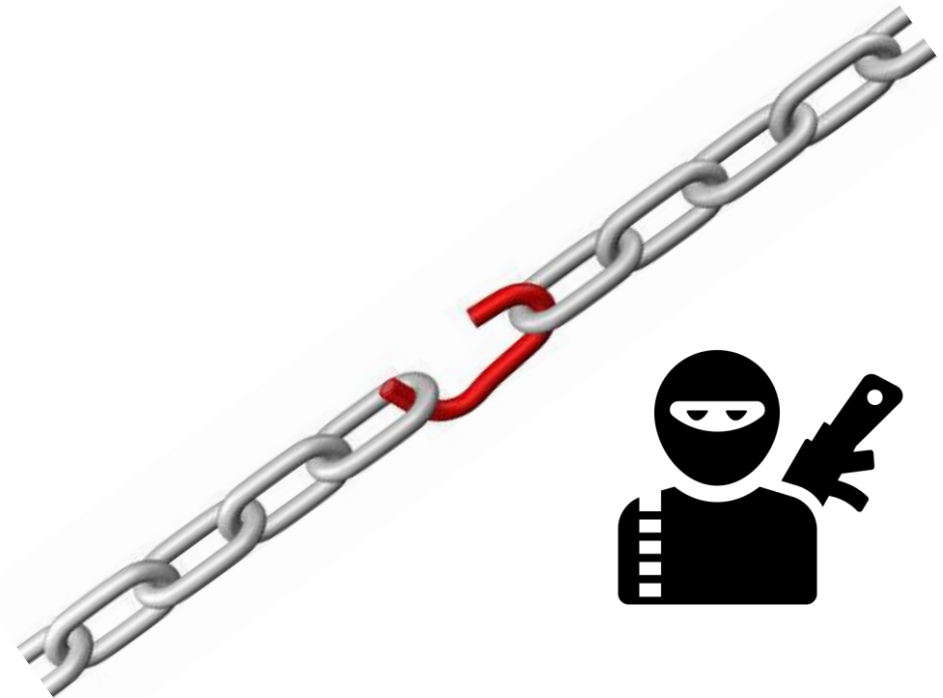


The Voice of
Asia-Pacific &
Middle East Airports

ACI survey: top risks for airports



Perpetrators are constantly looking for the weakest link



Landside attacks becoming frequent in the past decade



Glasgow (2007)



Moscow (2011)



Istanbul (2016)



Brussels (2016)



Shanghai(2017)



Fort Lauderdale (2017)

ICAO strengthened landside security in July 2017

(New) 4.8.1 (standard)

.... shall ensure that landside areas are identified

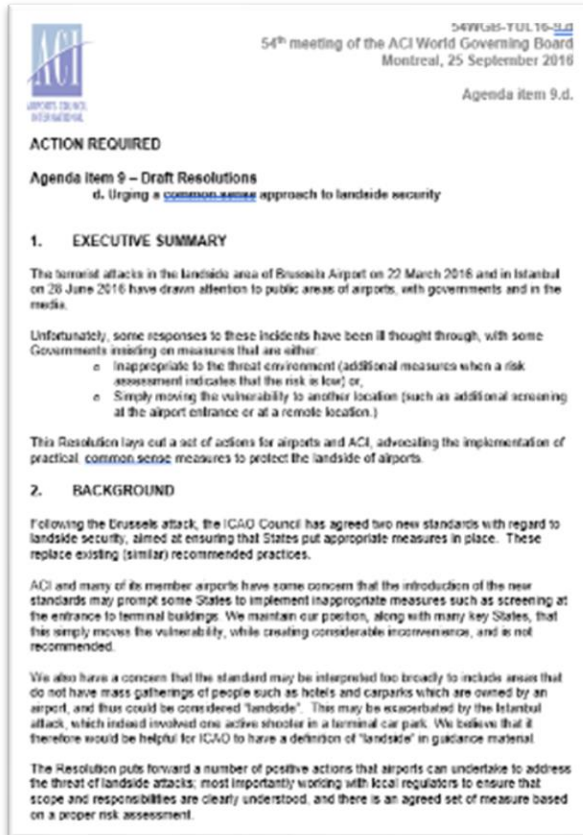
(Upgrade) 4.8.2 Recommendation (Standard)

....shall ensure.... security measures in landside areas are established....

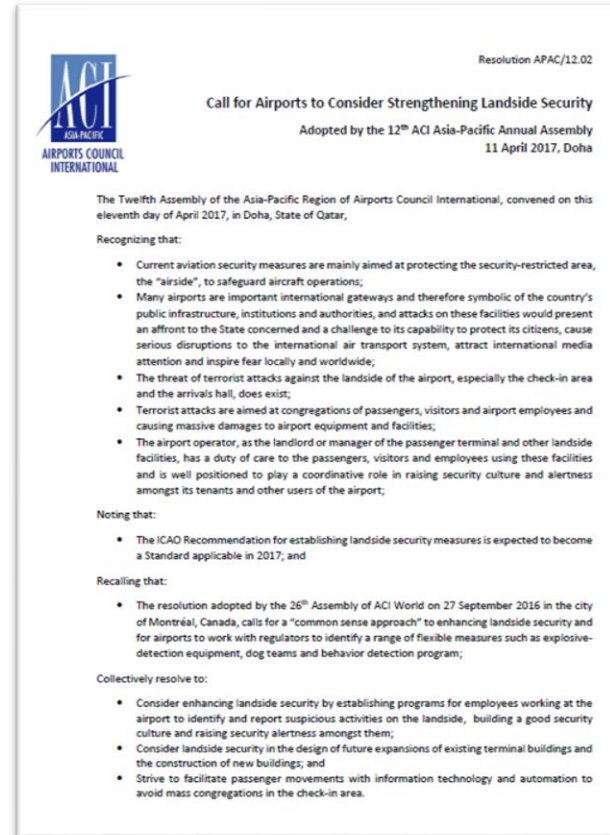
(Upgrade) 4.8.3 Recommendation (Standard)

....shall ensure coordination of landside security measures.....

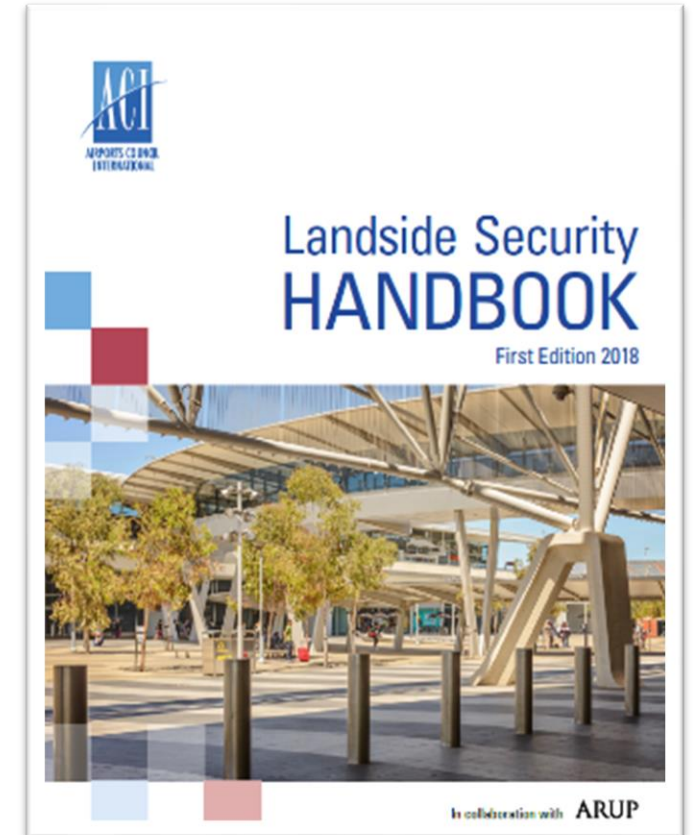
ACI also reacted swiftly to the rising landside threats



ACI World Resolution
(adopted in 2016)



ACI Asia-Pacific Resolution
(adopted in 2017)



ACI Landside Security Handbook
(published in 2018)

Comprehensive approach developed for landside risk mitigation

	People	Physical design	Dynamic Measures
Prevention	Threat and intelligence sharing Risk analysis Public awareness Staff training Clear allocation of responsibilities	Building design Roadway design Blast proofing Terminal and flow design	Physical presence of patrols Communication
Detection	Behavior detection, security culture, public awareness and reporting	Well lit areas, good terminal design	Monitoring, CCTV, patrols, overt and covert screening, canines
Response and recovery	Crisis management processes, training, communication	Evacuation routes, design to limit impacts	Communication processes, evacuation procedures, business continuity and contingency plans

More advanced solutions are deployed for landside security



Explosives K9 team



Security robot



Crowd monitoring tools



ANPR & road blocker system



Advanced CCTV with behaviour analysis



Autonomous patrol car



Body camera



PIDS

Besides, airports are doing more to train up its people



Security exercises for
landside attack

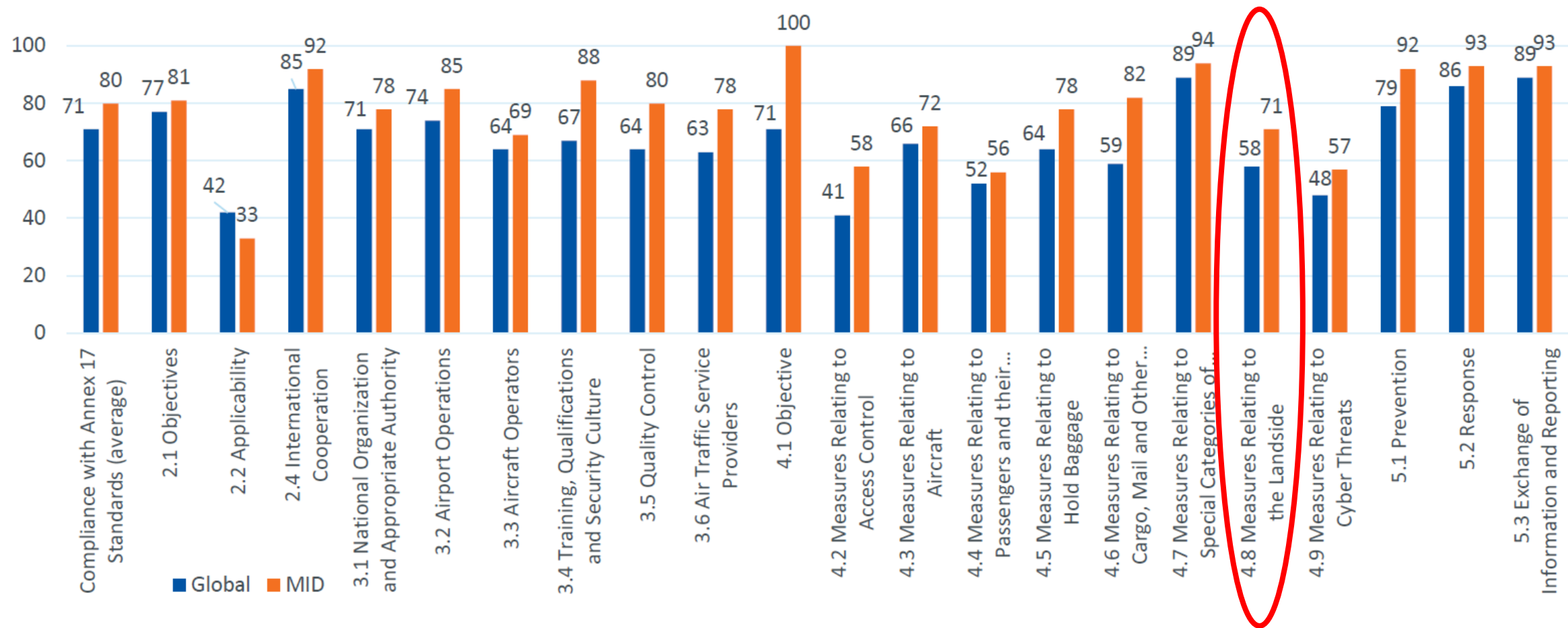


Dedicated trainings for
crowd management



Security awareness
campaign

Landside remains one of the least-complied areas in Annex 17



Many airports are still struggling with basic protection

1) Design & space constraint

- e.g. limited stand-off distance, gathering of crowds

2) Risk assessment

- e.g. ineffective risk assessment for landside

3) Stakeholder coordination

- e.g. ineffective communication between stakeholders for emergency response
- e.g. balance of SEC & FAL

4) Vulnerability to vehicle attacks

- e.g. limited hostile vehicle mitigation, ineffective unattended vehicle procedures

5) Perimeter protection

- e.g. unclear landside boundary, poor maintenance of fence

6) Landside surveillance

- e.g. insufficient CCTV coverage and landside patrolling

7) Facilitation

- e.g. balance of SEC & FAL

Rising activism activities add complexity to landside protection



Suvarnabhumi
Airport



Hong Kong
Airport



Frankfurt
Airport

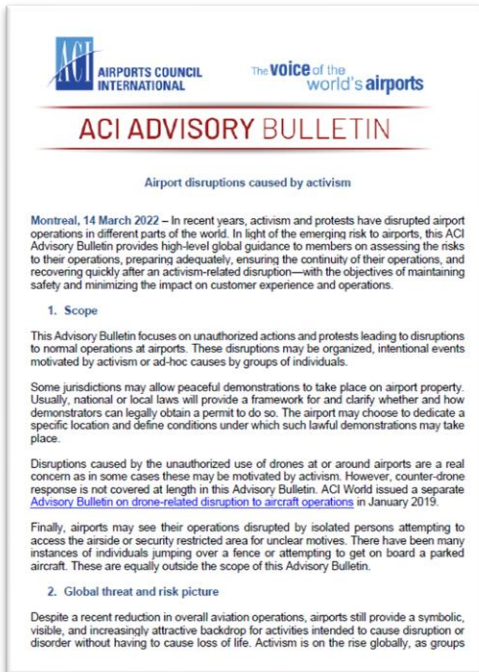


Barcelona
Airport



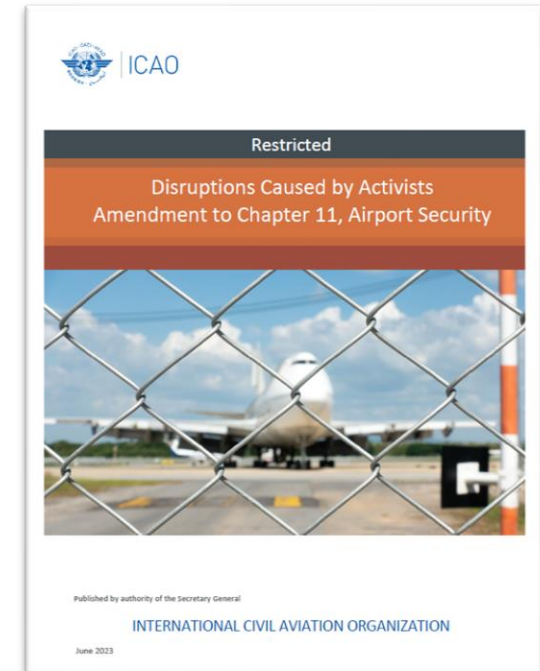
London City
Airport

Specific guidance newly available on landside activism



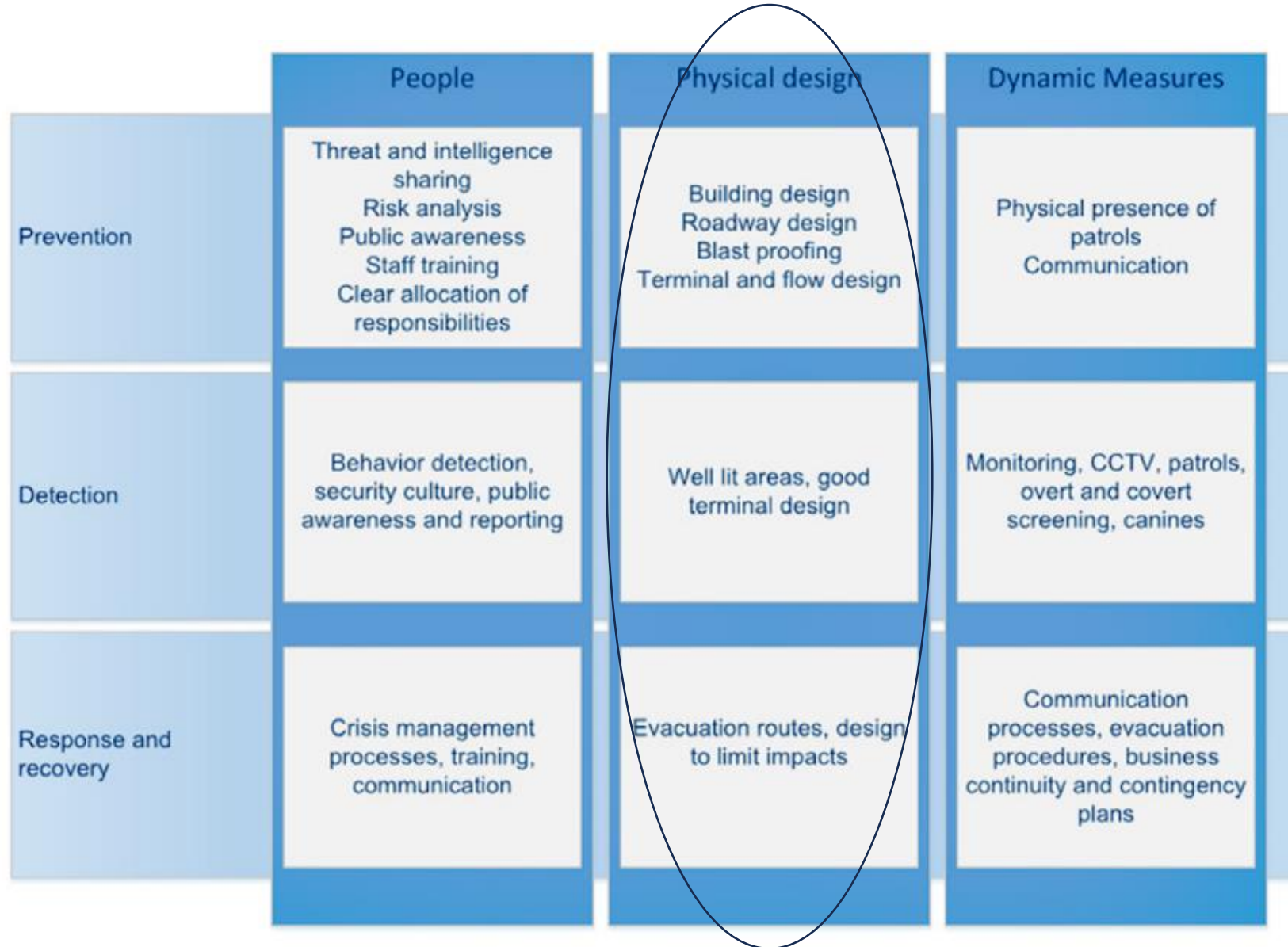
New ACI advisory bulletin - Airport disruption caused by activism

New webinar on activism at airports



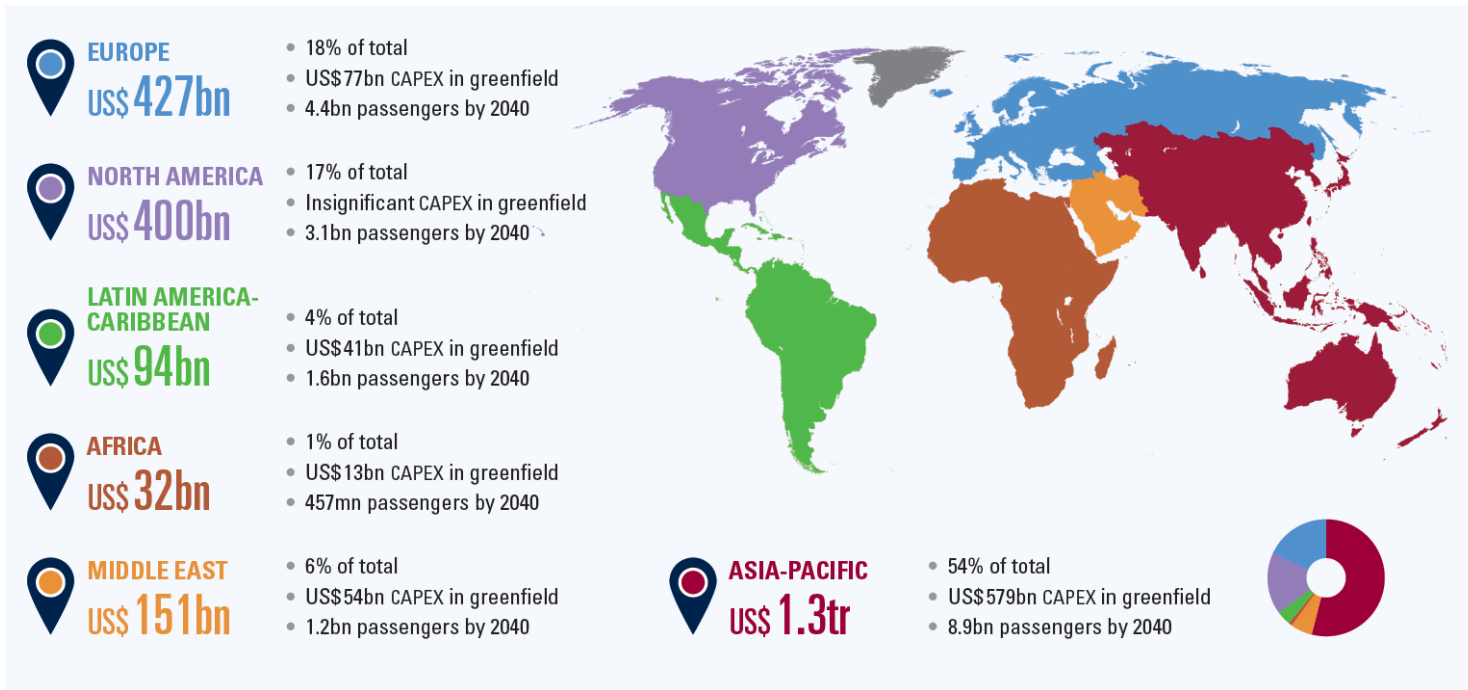
New section on “disruption caused by activists” in Doc 8973

Apart from “people” and “measures”, design is also crucial



Lots of new airport infrastructure needed to meet future demand

2021-2040 total needed capex by region



Examples of airport mega project in MID region



Musandam International Airport (Oman)

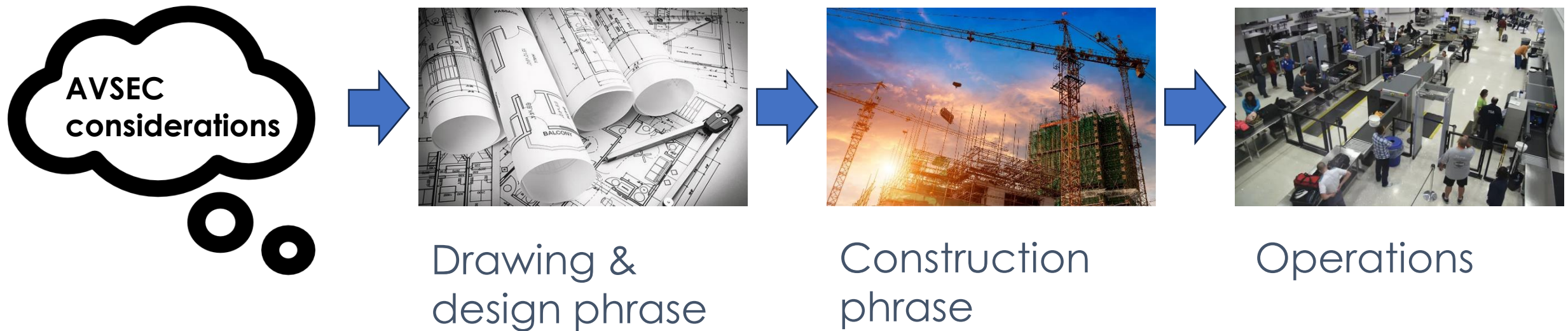


Al Maktoum International Airport (UAE)



King Salman International Airport (Saudi)

Security-by-design becoming more important to save cost, improve security and enhance efficiency



Good design incorporating landside security elements



Courtesy of Montevideo Airport



Courtesy of Changi Airport



Courtesy of Atlanta Airport



Courtesy of Adelaide Airport

In summary....

To note:

- Landside security remains a top challenge for airports among other emerging threats
- Major challenges for airports
 - Design & space
 - Risk assessment
 - Stakeholder coordination
 - Surveillance & patrolling

To be encouraged:

- Make use of ACI's resources available on landside security (e.g. handbook)
- Work closer with airports & stakeholders for addressing landside security challenges