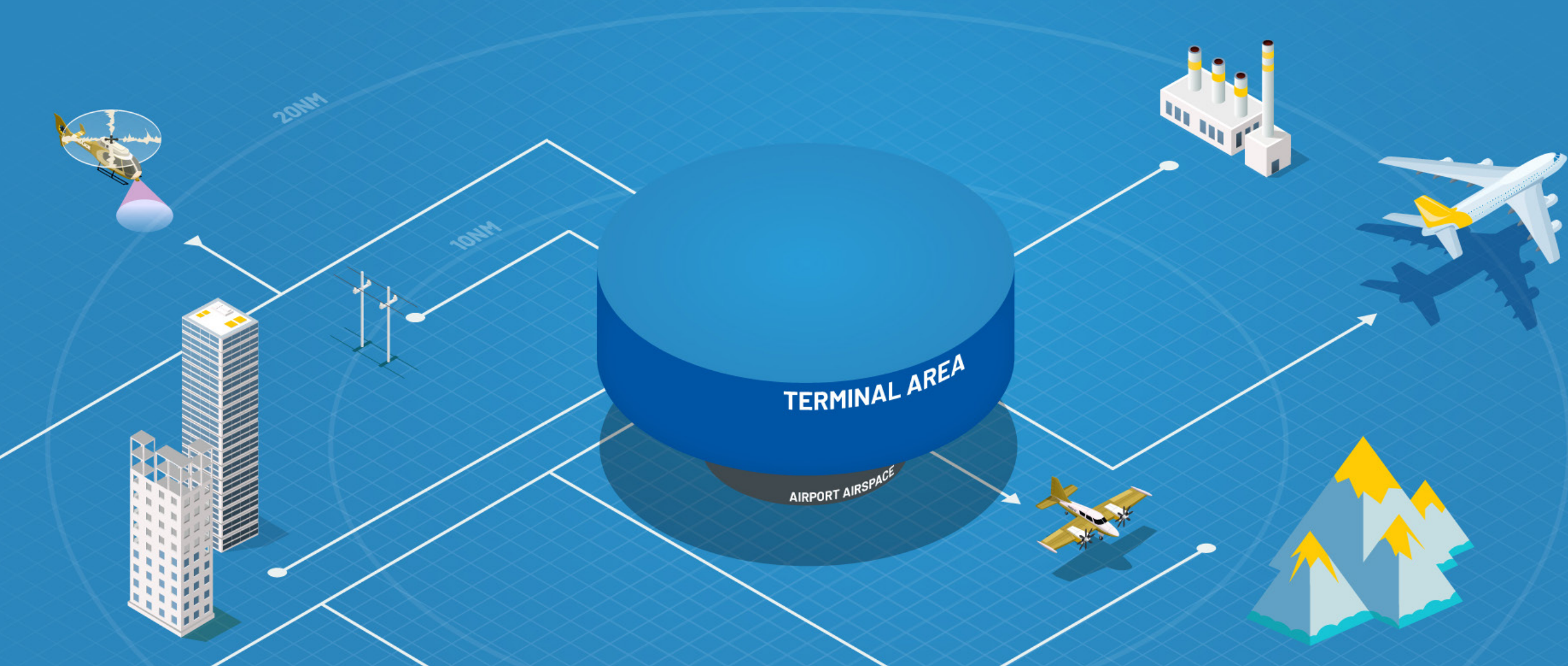


OBSTACLE LIMITATION SURFACES SYMPOSIUM



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AGENDA

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REGISTRATION & ACCESS

[Registration is required](#) to participate in the virtual ICAO OLS symposium (OLSS 2021)

Click [here](#) to register online. Should you have any issue registering, please contact registration@icao.int.

This symposium can host a limited number of participants; therefore, registration is on a **first-come, first-served basis**.

Each participant will receive a **unique Zoom link**, which is not to be transferable.

The connection details to join the virtual symposium will be provided by email from webinar@icao.int closer to the start of the event.

A free Zoom account is required to join the symposium. Please visit www.zoom.us/signup to create an account.

ICAO TV

After the symposium, you can rewatch your favorite sessions and panels from anywhere and on any device from ICAO TV.



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2021 OLSS





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DAY 1

WEDNESDAY, DECEMBER 8: TRANSFORMATION

7:45-7:55 EST
12:45-12:55 UTC

OPENING SPOTLIGHT

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8:00-8:10 EST
13:00-13:10 UTC

WELCOME REMARKS

- **Yong Wang** — Chief, Airport Operations and Infrastructure (AOI), ICAO

8:10-8:20 EST
13:10-13:20 UTC

OPENING ADDRESS

- **Juan Carlos Salazar** — Secretary General, ICAO

8:20-8:30 EST
13:20-13:30 UTC

KEYNOTE ADDRESS

- **Stephen P. Creamer** — Director Air Navigation Bureau, ICAO

8:30-9:00 EST
13:30-14:00 UTC

ROLE OF THE OBSTACLE LIMITATION SURFACES TASK FORCE (OLSTF)

This introductory session provides participants an overview on what will be presented by different speakers over the next 3 days, understand the role played by the OLSTF and the expected deliverables. Participants will also be informed on the milestones leading to the effective and applicability dates.

- **Mohd Fadzil Jakaria** — Head, Obstacle Limitation Surfaces/Aerial Activities, Airspace Policy Division, Civil Aviation Authority Singapore

9:00-9:30 EST
14:00-14:30 UTC

OLS TRANSFORMATION PART 1

The objective of the OLS review is to identify areas of improvement in the existing OLS system of airspace protection. The task force considers the gaps inherent in the current OLS, the advancement in aviation and navigational technologies and the advent of new flight procedures when assessing the adequacy of the current OLS. At the end of this session, participants will understand the reasons for change, know the principles adopted in guiding the review and the improvements that will come out of this review.

- **Aubin Lopez** — Deputy Head of Division on Airport Safety and Capacity, Civil Aviation Technical Centre, French Civil Aviation Authority

9:30-9:45 EST 14:30-14:45 UTC // BREAK HIGHLIGHT 1.1

9:45-10:15 EST
14:45-15:15 UTC

OLS TRANSFORMATION PART 2

Participants will be introduced to the new two-fold concept of Obstacle Free Surfaces (OFS) and Obstacle Evaluation Surfaces (OES), their purposes and characteristics. Participants will understand how these new concepts help address the gaps identified in the current OLS and improve the system of airspace protection against obstacles.

- **Mohd Fadzil Jakaria** — Head, Obstacle Limitation Surfaces/Aerial Activities, Airspace Policy Division, Civil Aviation Authority Singapore

10:15-10:45 EST
15:15-15:45 UTC

THE NEW CLASSIFICATION – AEROPLANE DESIGN GROUP (ADG)

Participants will be introduced to the new classification which will be in Annex 14 – Aerodromes, Vol 1 – Aerodrome Design and Operations, Chapter 4, to be used for tabulating the dimensions of the surfaces. The ADG uses a combination of approach speed at threshold and wingspan and will be replacing the current Aerodrome Reference Code (ARC) Number.

- **Aubin Lopez** — Deputy Head of Division on Airport Safety and Capacity, Civil Aviation Technical Centre, French Civil Aviation Authority

10:45-11:30 EST
15:45-16:30 UTC

PANEL DISCUSSION

Moderator:

- **Yong Wang** — Chief, Airport Operations and Infrastructure (AOI), ICAO

Panelists:

- **Andrew Badham** — Policy Lead – Aerodromes, UK Civil Aviation Authority
- **Mohd Fadzil Jakaria** — Head, Obstacle Limitation Surfaces/Aerial Activities, Airspace Policy Division, Civil Aviation Authority Singapore
- **Aubin Lopez** — Deputy Head of Division on Airport Safety and Capacity, Civil Aviation Technical Centre, French Civil Aviation Authority

11:30-11:40 EST 16:30-16:40 UTC - CLOSING SPOTLIGHT 1 - SKYLIVE SPONSOR

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DAY 2

THURSDAY, DECEMBER 9: EMBRACING CHANGE

7:45-7:55

12:45-12:55 UTC

OPENING SPOTLIGHT 2

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8:00-8:10 EST

13:00-13:10 UTC

WELCOME REMARKS

- **Thomas Romig** — VP, Safety, Security and Operations, ACI

8:10-8:20 EST

13:10-13:20 UTC

KEYNOTE ADDRESS

- **Luis Felipe de Oliveira** — Director General, ACI

8:20-8:50 EST

13:20-13:50 UTC

THE NEW SURFACES – OBSTACLE FREE SURFACES (OFS)

OFS are new surfaces designed to reflect the flight operational needs of aircraft based on today's aircraft performances, navigational capabilities and technologies. These surfaces will replace the existing surfaces in Chapter 4 of the Annex 14, Vol 1, providing more clarity on its purposes and application in controlling fixed and mobile obstacles. In this session, participants will get to view the new surfaces, their purposes and dimensions. Illustrations showing the differences between current OLS and proposed OFS will be shown to illustrate the narrower and steeper new surfaces.

- **Aubin Lopez** — Deputy Head of Division on Airport Safety and Capacity, Civil Aviation Technical Centre, French Civil Aviation Authority

8:50-9:10 EST
13:50-14:10 UTC

OBSTACLE FREE ENVIRONMENT – A PILOT’S PERSPECTIVE

OFS will consist of different surfaces defining a volume of airspace free from obstacles, in the close vicinity of the runway, where operations are critical as they have nearly no flexibility to avoid obstacles. In this session, the speaker will share the importance of having such an environment from a pilot’s perspective.

- **Thomas Mayer** — Managing Director, Association of Regional Airport (IDRF)

9:10-9:25 EST 14:10-14:25 UTC // BREAK

9:25-9:55 EST
14:25-14:55 UTC

THE NEW SURFACES – OBSTACLE EVALUATION SURFACES (OES)

OES are new surfaces introduced to safeguard the airspace against obstacles that could impact the usability of flight procedures designed for an aerodrome. Participants will be introduced to the different OES such as the approach, departure / take-off and horizontal OES. The speaker will also share how these surfaces can be adjusted to adapt to the type of operations conducted at the aerodrome and provide examples of situations where an additional OES may need to be designed to protect operations at the aerodrome.

- **Malte Karger** — Director, Aerodrome Safeguarding and Flight Procedures, Airsight GmbH

9:55-10:15 EST
14:55-15:15 UTC

CLOSING THE GAPS – FLIGHT PROCEDURE DESIGNER’S PERSPECTIVES OF THE OES

In this session, the speaker will share his views on how the introduction of OES will help in ensuring potential obstacles are assessed and accounted for. This will complement the current system in ensuring a safe and updated flight procedures established at aerodromes.

- **Beat Zimmermann** — Managing Director – Air Navigation Institute GmbH

10:15-10:40 EST
15:15-15:40 UTC

IMPLEMENTING THE SURFACES – CASE STUDY

In this session, participants will be shown examples of how OFS and OES are selected using the Aeroplane Design Group and their implementation at aerodromes in France. In addition, the speaker will demonstrate how the dimensions of the Obstacle Evaluation Surfaces are adapted to the aerodrome’s obstacle environment so that the intended flight operations at the aerodrome can be conducted safely.

- **Aubin Lopez** — Deputy Head of Division on Airport Safety and Capacity, Civil Aviation Technical Centre, French Civil Aviation Authority

10:40-11:30 EST
15:40-16:30 UTC

PANEL DISCUSSION

Moderator:

- **Thomas Romig** — VP, Safety, Security and Operations, ACI

Panelists:

- **Thomas Mayer** — Managing Director, Association of Regional Airport (IDRF)
- **Mohd Fadzil Jakaria** — Head, Obstacle Limitation Surfaces/Aerial Activities, Airspace Policy Division, Civil Aviation Authority Singapore
- **Aubin Lopez** — Deputy Head of Division on Airport Safety and Capacity, Civil Aviation Technical Centre, French Civil Aviation Authority
- **Beat Zimmerman** — Managing Director – Air Navigation Institute GmbH
- **Malte Karger** — Director, Aerodrome Safeguarding and Flight Procedures, Airsight GmbH

11:30-11:40 EST 16:30-16:40 UTC - CLOSING SPOTLIGHT 2 - SKYLIVE SPONSOR

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DAY 3

FRIDAY, DECEMBER 10: TRANSITING TO A NEW SYSTEM

7:45-7:55 EST
12:45-12:55 UTC

OPENING SPOTLIGHT 3

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8:00-8:10 EST
13:00-13:10 UTC

WELCOME REMARKS

Paul Adamson — Airport Operations and Interoperability Officer, ICAO

8:10-8:40 EST
13:10-13:40 UTC

DEVELOPING AERONAUTICAL STUDY PROVISIONS

The lack of aeronautical study guidance material has hampered States in evaluating the impact of obstacle penetrations. In this session, the speaker will explain the situations that trigger an aeronautical study and the processes involve in conducting such a study. Participants will be made aware of the acceptance criteria and the likely mitigations to be adopted in cases of OFS and OES penetrations.

- **Tiago Marques** — Air Traffic Manager, Aerodromes Expert, Department of Airspace Control, Brazilian Air Force

8:40-9:00 EST
13:40-14:00 UTC

CONDUCT OF AN AERONAUTICAL STUDY – CASE STUDY 1

Participants will be briefed on how aeronautical studies are done in Spain. From this case study, participants will be able to understand on the data and information that goes into the aeronautical study and how the impact assessment is conducted.

- **Francisco Cana Cuéllar** — Head, Aeronautical Studies Department, Spanish Aviation Safety and Security Agency

9:00-9:20 EST
14:00-14:20 UTC

CONDUCT OF AN AERONAUTICAL STUDY – CASE STUDY 2

Participants will be briefed on how aeronautical studies are done in the United States. From this case study, participants will be able to understand the possible automation that could aid in conducting the studies.

- **Carlton Lambiasi** — Civil Engineer, Airspace, Federal Aviation Administration

9:20-9:35 EST 14:20-14:35 UTC // BREAK

9:35-10:05 EST
14:35-15:05 UTC

MANAGED OBSTACLE ENVIRONMENT – DEVELOPMENTS SWITZERLAND

In this session, Switzerland's Federal Office of Civil Aviation (FOCA) will be sharing their experience in obstacle data collection and provisions and the challenges faced with the current processes. Participants can also expect insights into the new Obstacle and terrain data management including Data Collection Services (DCS) Switzerland.

- **Markus Luginbühl** — Project Lead, Data Collection Services, Federal Office of Civil Aviation, Switzerland

10:05-10:15 EST
15:05-15:15 UTC

ENVIRONMENT FREE OF OBSTACLES

Participants will understand the value of OFS and OES in aiding terrain and obstacle data collection processes. The presentation will show how these surfaces, specifically OES, can help ensure the different stakeholders' needs for data are addressed without having to duplicate efforts in conducting the survey.

- **Mohd Fadzil Jakaria** — Head, Obstacle Limitation Surfaces/Aerial Activities, Airspace Policy Division, Civil Aviation Authority Singapore

10:15-10:35 EST
15:15-15:35 UTC

TRANSITION AND ITS BENEFITS

The changes proposed by the OLS Task Force are intended to comply with the evolution of aircraft and systems performances and operations. Having surfaces that are designed to protect flight operations based on today's aircraft performances and adaptable to meet future needs is an efficient system of airspace protection. In addition, with the possibility of adapting the surfaces and applying only surfaces required for the intended operations at the aerodrome ensure a more targeted approach in airspace protection. The adoption of these surfaces will create a better economical balance between land use and airspace needs.

- **Mohd Fadzil Jakaria** — Head, Obstacle Limitation Surfaces/Aerial Activities, Airspace Policy Division, Civil Aviation Authority Singapore Centre, French Civil Aviation Authority

10:35-10:55 EST
15:35-15:55 UTC

NEXT STEPS TOWARD IMPLEMENTATION

In this session, participants will get to know the ICAO processes leading to the adoption of the proposed changes and the various milestones leading to the effective and applicability dates. ICAO will also be sharing possible initiatives that can be undertaken to assist States or the appropriate authority with the transition.

- **Okan Dogan** — Technical Officer, Aerodromes, ICAO

10:55-11:25 EST
15:55-16:25 UTC

PANEL DISCUSSION

Moderator:

- **Paul Adamson** — Airport Operations and Interoperability Officer, ICAO

Panelists:

- **Mohd Fadzil Jakaria** — Head, Obstacle Limitation Surfaces/Aerial Activities, Airspace Policy Division, Civil Aviation Authority Singapore
- **Aubin Lopez** — Deputy Head of Division on Airport Safety and Capacity, Civil Aviation Technical Centre, French Civil Aviation Authority
- **Thomas Mayer** — Managing Director, Association of Regional Airport (IDRF)
- **Markus Luginbühl** — Project Lead, Data Collection Services, Federal Office of Civil Aviation, Switzerland
- **Tiago Marques** — Air Traffic Manager, Aerodromes Expert, Department of Airspace Control, Brazilian Air Force
- **Carlton Lambiasi** — Civil Engineer, Airspace, Federal Aviation Administration
- **Francisco Cana Cuéllar** — Head, Aeronautical Studies Department, Spanish Aviation Safety and Security Agency
- **Okan Dogan** — Technical Officer, Aerodromes, ICAO

11:25-11:30 EST
16:25-16:30 UTC

CLOSING REMARKS

- **Yong Wang** — Chief, Airport Operations and Infrastructure (AOI)

11:30-11:40 EST 16:30-16:40 UTC - CLOSING SPOTLIGHT 3 – SKYLIVE SPONSOR

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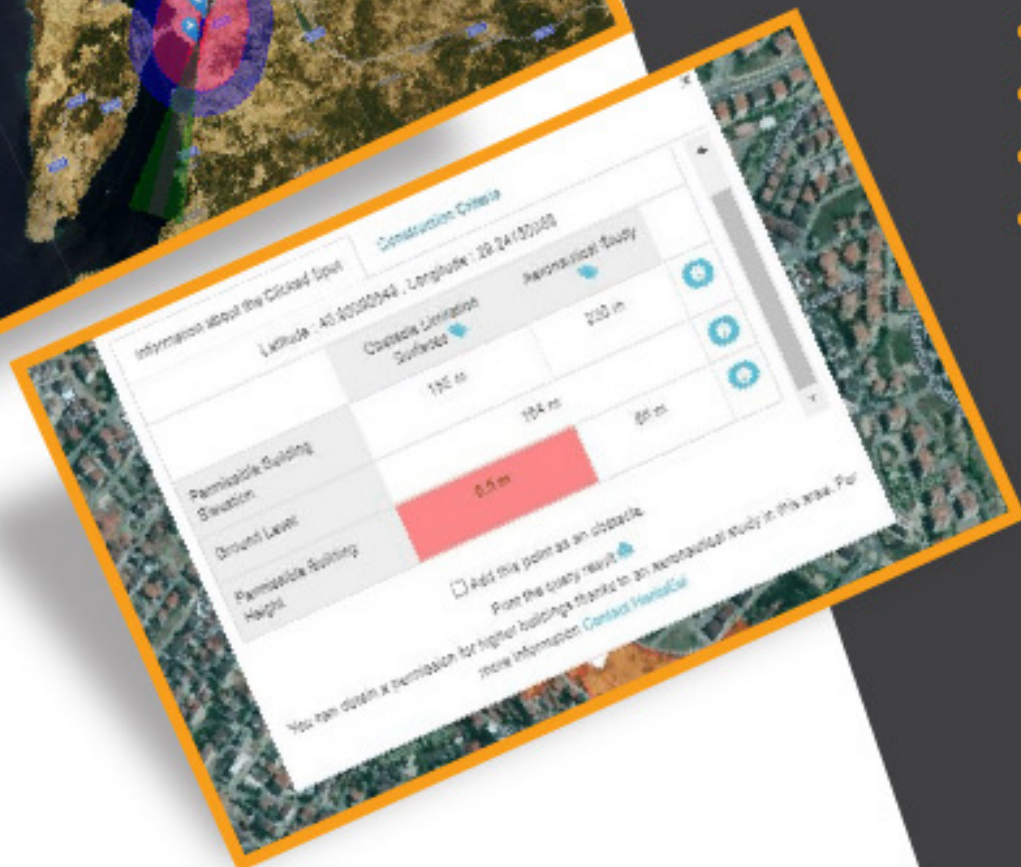
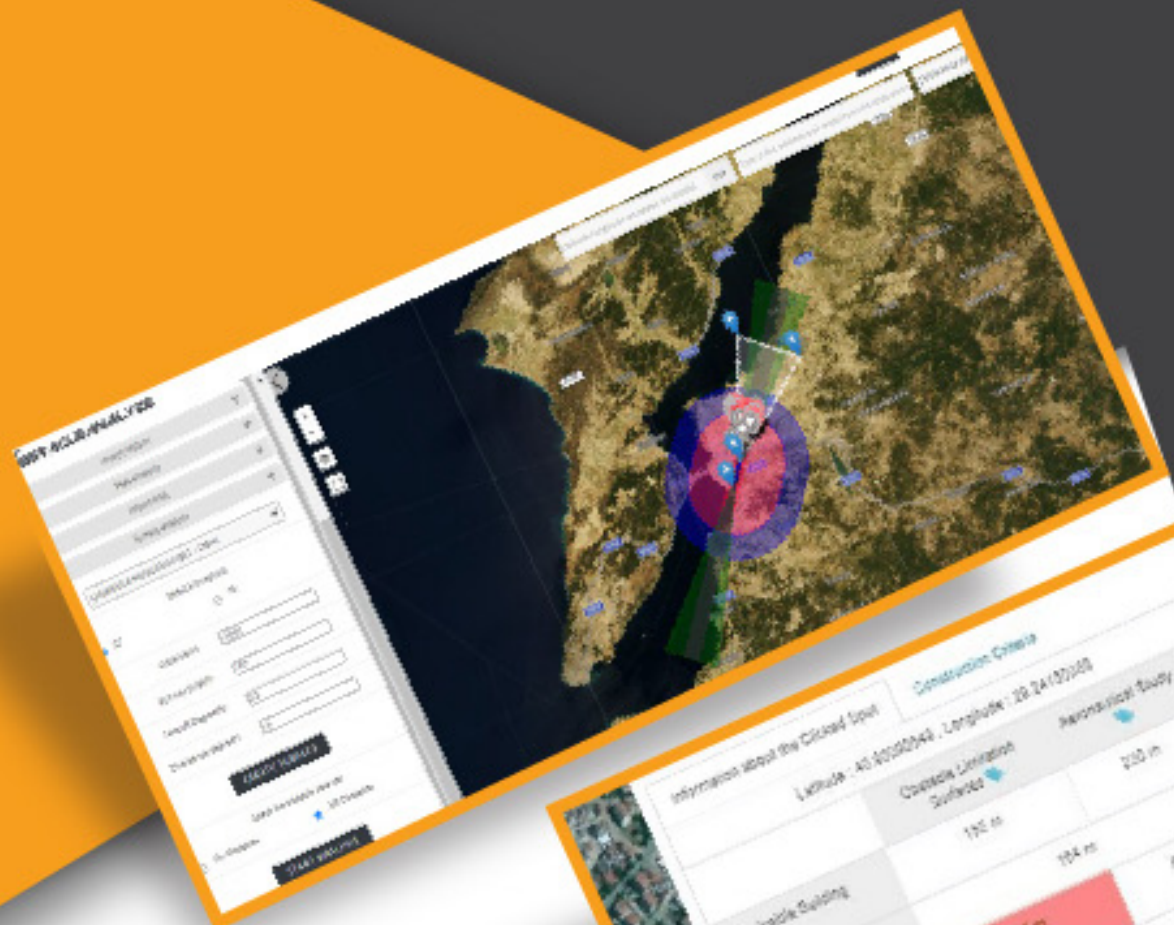
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Contact name: Çağla Kalkan, Global Sales Specialist

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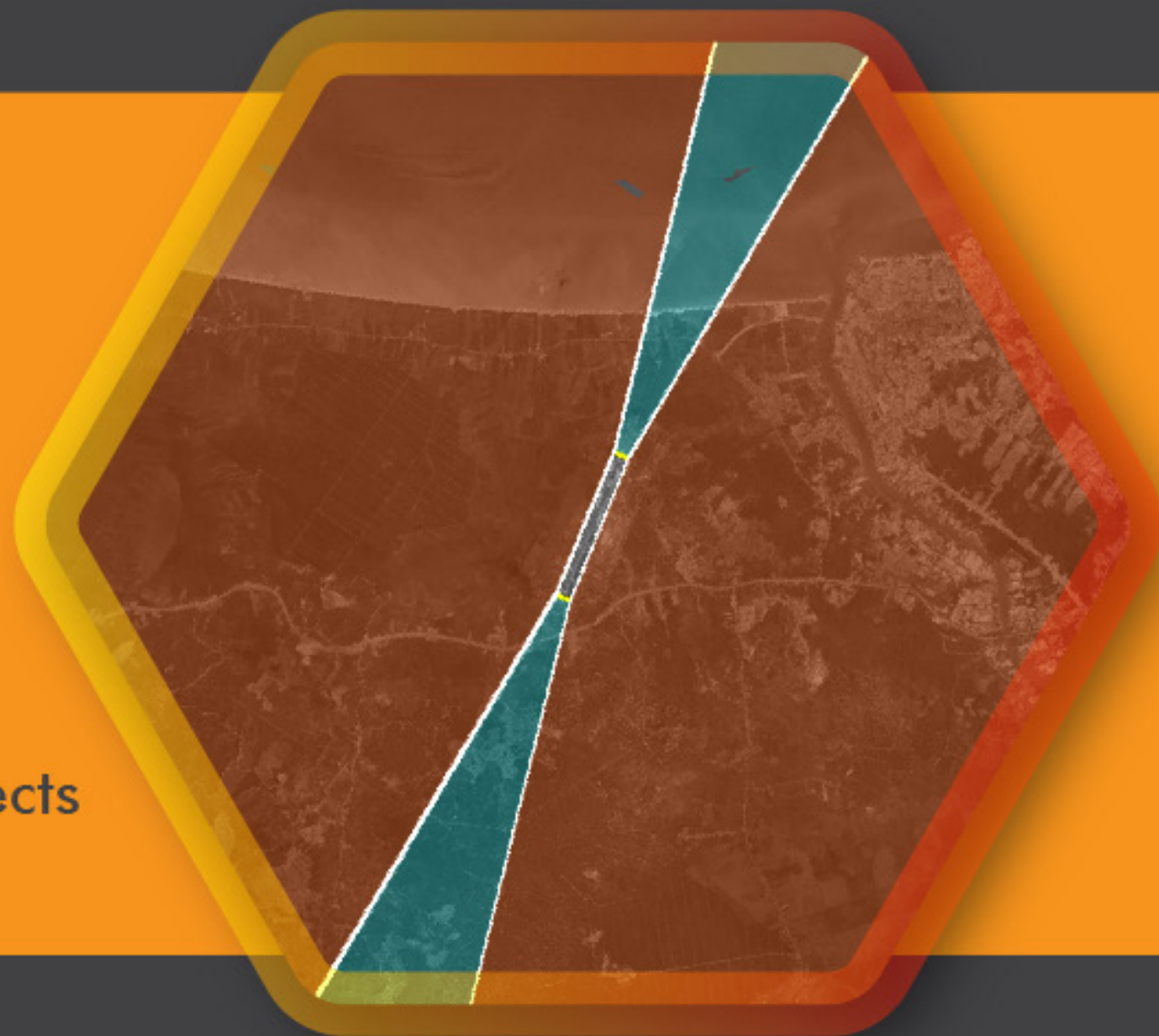
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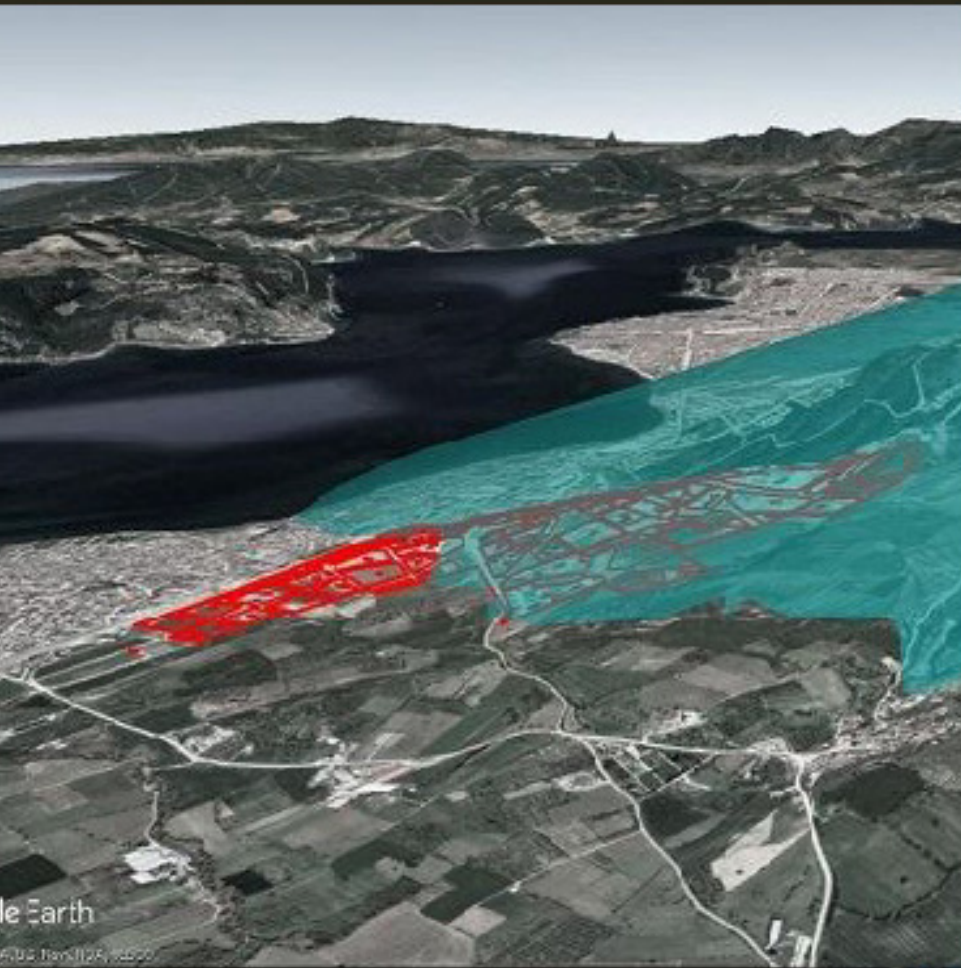
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UPCOMING EVENT

*Dates are subject to change

23-25 March 2022

5th ICAO Air Transport Symposium

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