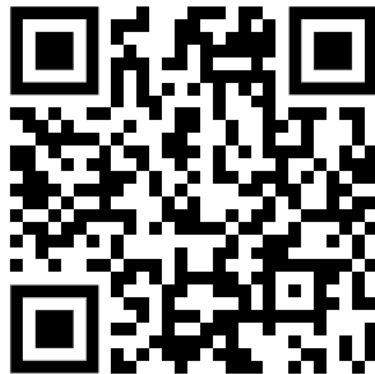




Welcome to the High Level Conference on Drones



www.slido.com ⇒ [#01EASAHLC2023](#) ⇒ [t7oouj](#)

Twitter: [#HLCdrones2023](#)



Back to the future of SAFE UAS operations



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Twitter: [#HLCdrones2023](#)

Master of ceremonies



Janet NORTHCOTE
EASA – Head of Communication

Practical information



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Engage by asking
questions & voting



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Welcome - Opening Remarks



Patrick KY
EASA – Executive Director

EASA Highlights 2023 Video

EASA Highlights



Patrick KY

EASA – Executive Director

Keynote Speech



Henrik HOLLEI
European Commission -
Director General for Mobility and Transport

Keynote Speech



Jan-Christoph OETJEN

Vice-Chair of the Committee on Transport and Tourism of European Parliament
Member of European Parliament

Industry Keynote Speech



Margaret NAGLE
Wing - Head of Policy and
Government Affairs

2023: The Launch Pad for Scaled UAS Operations

EASA High Level Conference

Margaret Nagle

Head of Policy, Regulatory and Community Affairs

Wing

Amsterdam | March 2023



Section Title



Section Title



Section Title

Wing

Wing

FREE Treat

Brought to You by Your Local
Drone Delivery Company

Wing

Wing

Section Title

Thank you

Wing⁷





Lunch break
12:30h – 13:30h
Food court – Hall 12

Practical information



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Patrick Ky
Executive Director
EASA

PANEL 1
**Implementing U-space
Airspace Integration Steps**

March 21, 2023 | 14:00 – 15:00



Eugenio DIOTALEVI

Remotely Piloted Aircraft Task
Force Coordinator
IFATCA



Benny DAVIDOR

Initial Airworthiness Division
Manager
CAA Israel



Koen DE VOS

Secretary General
GUTMA



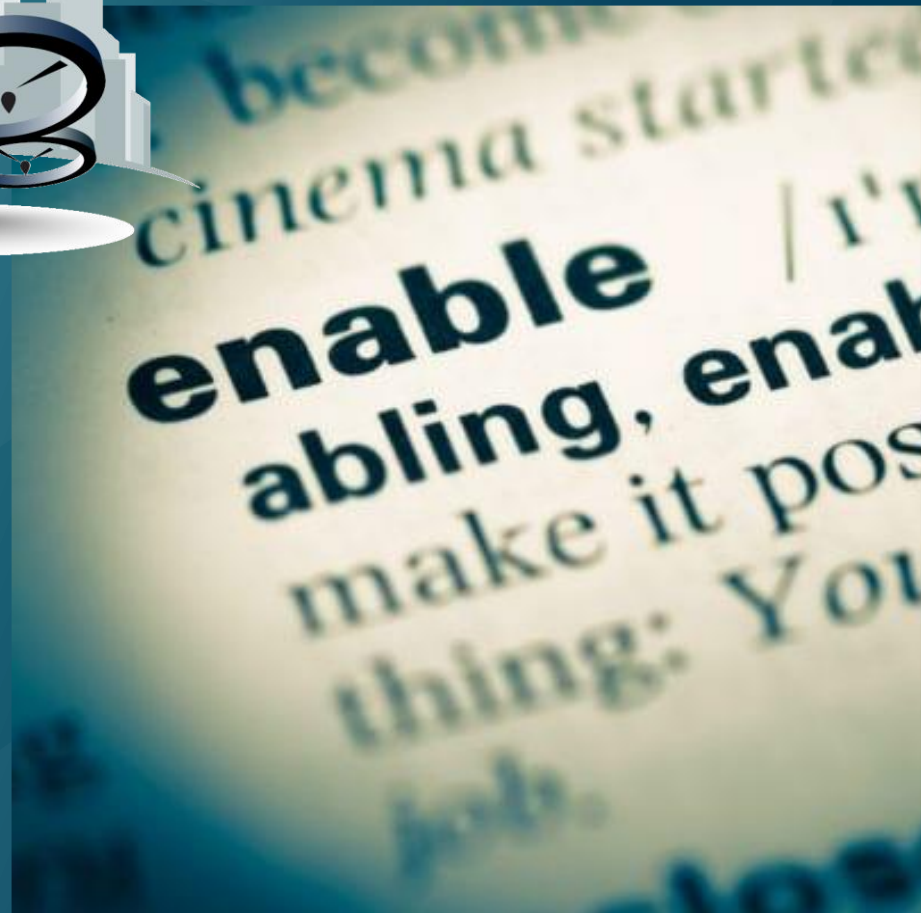
Johan DECUYPER

Skeyes
CEO



DRONE BVLOS ENABLEMENT FRAMEWORK

an innovative pre-U-space enabler
to allow safe BVLOS flights in
certain airspaces



What's happening in a maturing market

Clustered / trajectory based use cases



Automation & digitisation of geozone UTM tools



Hardware readiness



“Drone in a box” Service providers

*Best
example:*






**Port of
Antwerp
Bruges**

SOLVING THE CHALLENGE: de-risk BVLOS flights waiting for

BVLOS ENABLEMENT FRAMEWORK

(SORA SAIL II)

- UAS Geozone(s) as **restricted airspace** with its own **UTM system**
 Pre-U-space **flight authorisation service**
- “See & be seen” through dedicated cooperative **detection infrastructure**
 Pre-U-space **network identification service**
- SkeyDrone’s Traffic Information Service
 Pre-U-space **traffic information service**

The BVLOS framework at work today

- Scheduled recurring 'drone in a box' BVLOS flights over the harbour infrastructure
- Partnership approach between



A small milestone for a drone, a huge milestone for the drone industry

📷 Didier Decaestecker 📅 2 March 2023 ⌚ 16:51



What's going on here?

Today **D-Hive** (The Port of Antwerp-Bruges automated Drone-in-a-Box network) executed its **first regular automated BVLOS flight**! It received formal Operational Authorisation from the Belgian Civil Aviation Authority (BCAA) to fly regular BVLOS flights in and for the [Port of Antwerp-Bruges](#).



skeydrone

Enabling safe drone operations

Contact details: sales@skeydrone.aero



Patrick Ky
Executive Director
EASA

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Secretary General
GUTMA



Johan DECUYPER

Skeyes
CEO

Israel National
הלאומי

Drones Initiative
מיזם הרחפנים

Deployment of U-space managed airspace in ISRAEL

Our Vision

Promote the use of **drones** in **commercial applications** for **societal environmental** and **economic** impacts.

Allow flights in a dense urban environment, while **collaborating** with other air users efficiently and safely



Objectives



Create an economically viable ecosystem
Promote a large-scale Economical impact
Create a leading, enabling, advising and supporting government regulatory framework vis-à-vis the market
Create an international community and scale it up through C4IR (WEF) & Alliances.

Create an economically viable **ecosystem**

Promote a **large-scale Economical impact**

Create a leading, enabling, advising and supporting **government regulatory framework** vis-à-vis the market

Create an **international community** and **scale it up** through C4IR (WEF) & Alliances.

Partners



Israel Post Office, Maccabi Health (HMO), hospitals, Israel Defense Forces, Israel Police, Israel Fire Dept.



Ayalon Highways
Israel Ministry of Transportation



Civil Aviation of Israel



Israel Innovation Authority
Center for the 4th Industrial Revolution with the World Economic Forum



Partnerships – Private and Public





2+ years of INDI

• ~18,000 sorties in 2021-2022



8 demo sessions

• Multiple USSP operators



**Demonstrations in
7 municipalities**



**Collaboration with
18 hospitals**



**Commercial
Application**



**Collaboration with
Municipalities
and Government**

• 9 Air operators + 16 Companies



Moving forward to 2023-2024



Expanding the operational range
BVLOS and
MTOW.
AAM (E-VTOL)
integration



Operating
government funded
U-space center



Cooperation with
emergency
Organizations



Yerucham test
range



Develop
requirements for
Landing
sites\Vertiports



Continue national
and international
collaboration
with commercial
and public
entities

Lessons learned

Challenges *GNSS reliance*

CARA-Common Altitude Reference System

Manned – Unmanned de-confliction

*Airworthiness requirements – SORA
implementation*

Vertiports



Thank you!





Patrick Ky
Executive Director
EASA

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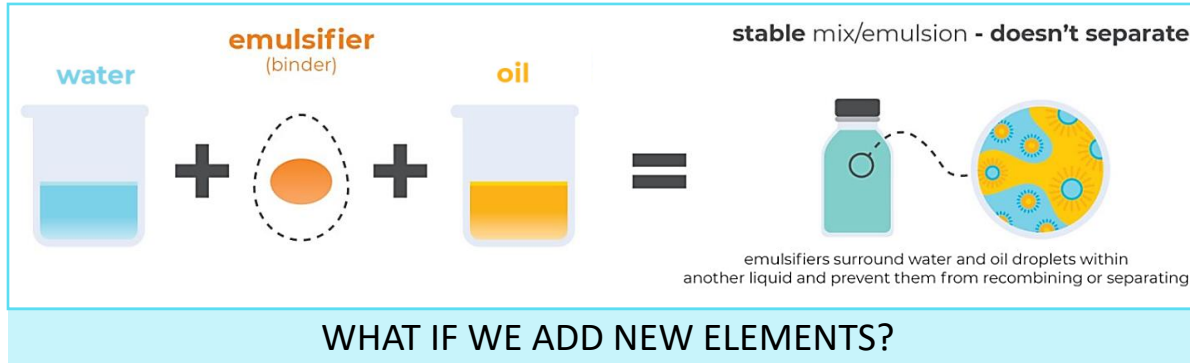
INTERNATIONAL FEDERATION OF AIR TRAFFIC CONTROLLERS' ASSOCIATIONS

EASA High Level Conference on Drones 2023
Amsterdam, 21-22 March
Panel 1 : Implementing U-space – Airspace Integration Steps

Eugenio Diotallevi IFATCA RPA Task Force Coordinator
eugenio.diotallevi@ifatca.org

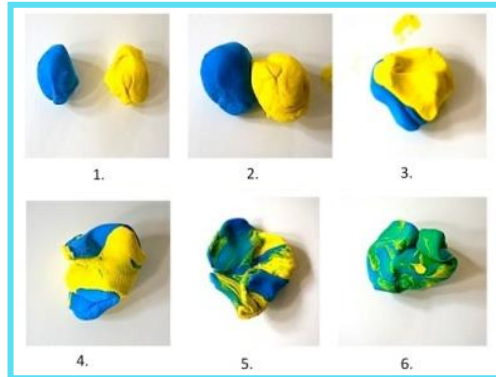
WHAT DOES INTEGRATION MEAN?

INTEGRATION “EMULSION STYLE”



CREDITS: MUSIMMAS.COM

INTEGRATION “COMPOUND STYLE”



ATM - U-SPACE INTEGRATION



STEP 1: Traffic integration

- Controlled airspace:
 - ATC provides ATS to all traffic in accordance to ATS airspace
 - All traffic will follow conventional/adapted aviation rules and parameters, procedures and practices,
- U-space airspace extended to all airspace outside controlled airspace, P/D/R/TRA and below a certain level:
 - U-space services provided to all traffic
 - Implementation of common flight rules
 - Minimum common capabilities and requirements for manned and unmanned traffic
- Coordination between ATC and U-space for traffic exchange

ATM - U-SPACE INTEGRATION

STEP 2: Systems integration

- Automation:
 - Homogeneous level for ATM and U-space
 - Defined roles and responsibilities for all parties involved
 - Capabilities of manned and unmanned aircrafts
- Flight rules
- Airspace classification and structure





Patrick Ky
Executive Director
EASA

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CEO

Practical information



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EASA Drone



Networking coffee break

15:00h – 15:30h

Ballroom – Elicium 2

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Dr. Joachim LÜCKING

Head of Unit for Aviation Safety
Directorate-General for Mobility
and Transport
European Commission

PANEL 2

**Building IAM ecosystem – setting up a realistic
implementation programme**

March 21, 2023 | 15:30 – 16:30



Dr. Saskia HORSCH

Head of Global Regulatory &
Public Affairs
Lilium



Oliver REINHARDT

Chief Risk and Certification Officer
Volocopter



Patrick CIPRIANI

Director of Aviation Safety
Direction de la Sécurité de
l'Aviation Civile



Rachel DAESCHLER

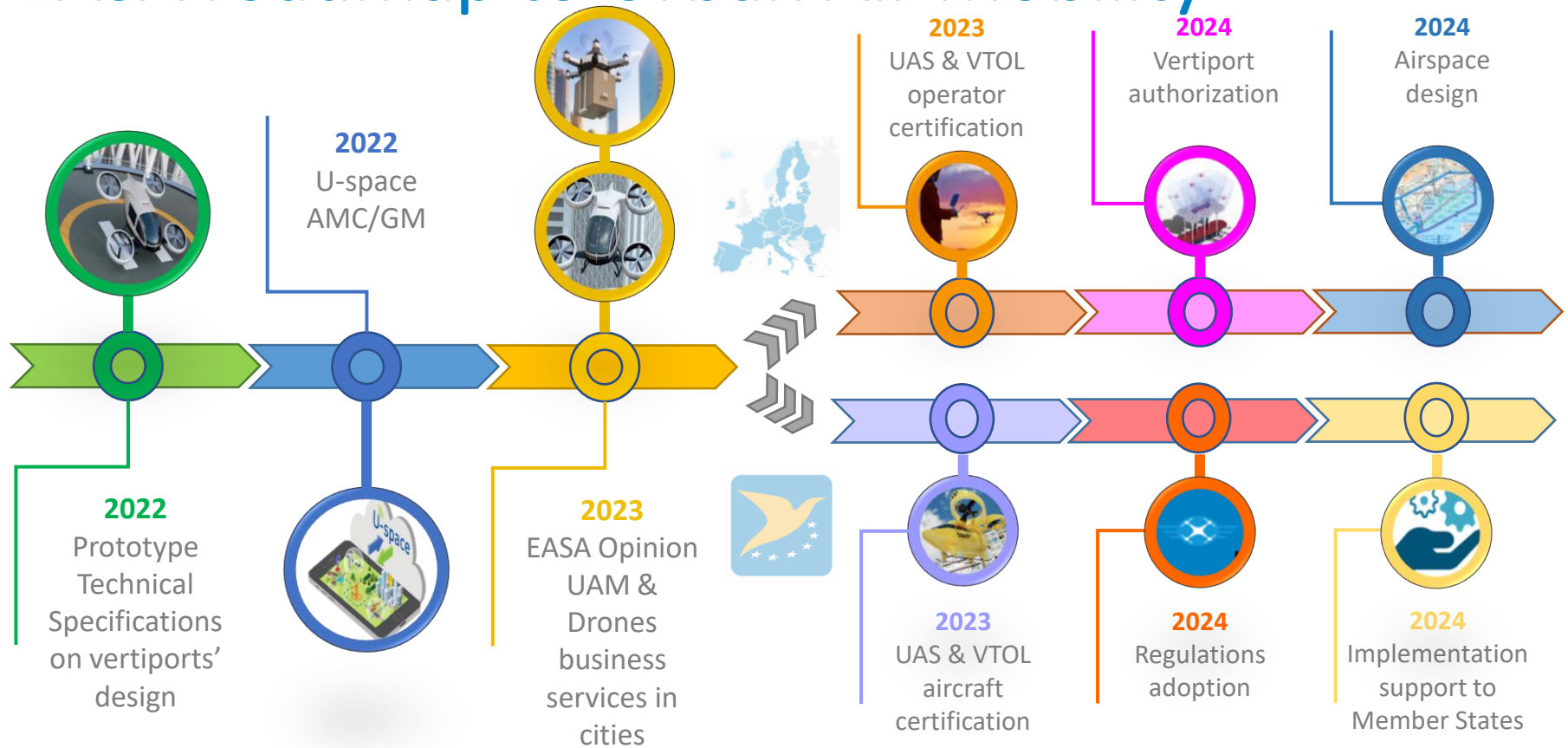
Certification Director
EASA



Tan Kah HAN

Senior Director UAS
Group
Civil Aviation Authority
of Singapore

EASA roadmap to Urban Air Mobility





Dr. Joachim LÜCKING

Head of Unit for Aviation Safety
Directorate-General for Mobility
and Transport
European Commission

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of Singapore

WELCOME to the future

EASA HIGH LEVEL CONFERENCE ON DRONES

Oliver Reinhardt, 21 March 2023



We build vertiports,
we test the customer journey.



We fly in Paris.



We fly in Rome – and beyond.



**Commercial flights to
begin in 2024.**



**Time to work together
and complete the
necessary ecosystem.**

NEW INFRASTRUCTURE.



NEW ROUTES.



TOWARDS SUSTAINABLE AVIATION.



WORKING TOGETHER.



**WE WILL SEE
YOU SOON IN
PARIS.**





Dr. Joachim LÜCKING

Head of Unit for Aviation Safety
Directorate-General for Mobility
and Transport
European Commission

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Building a Regional Network for eVTOL Passenger & Cargo Operations

EIS Schedule

Business Requirements

- Operations during Day/Night
- Operation in VMC
- 175 km operating range

Operations

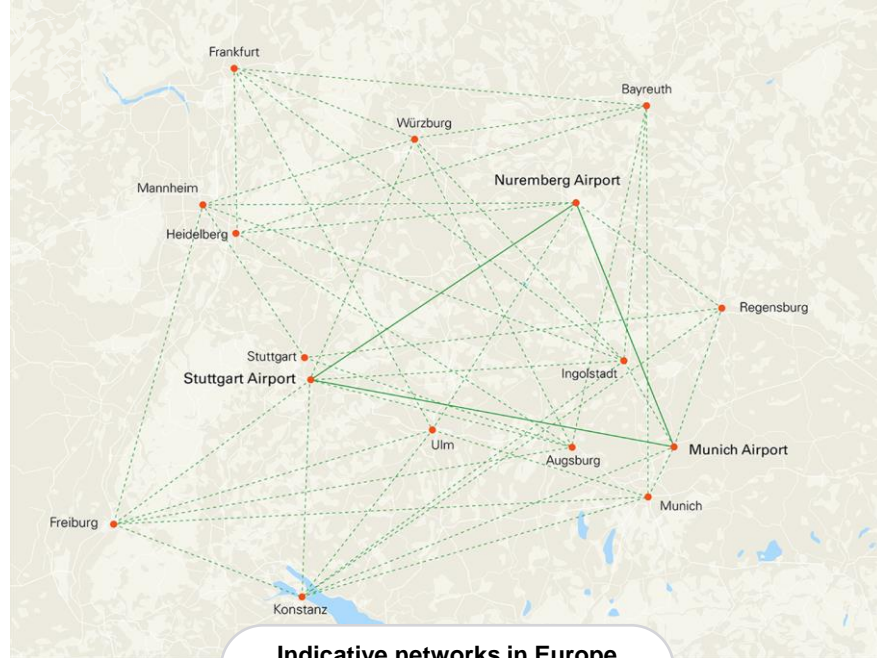
- Single pilot operation
- Flying over water
- Urban & non-urban environment

Infrastructure

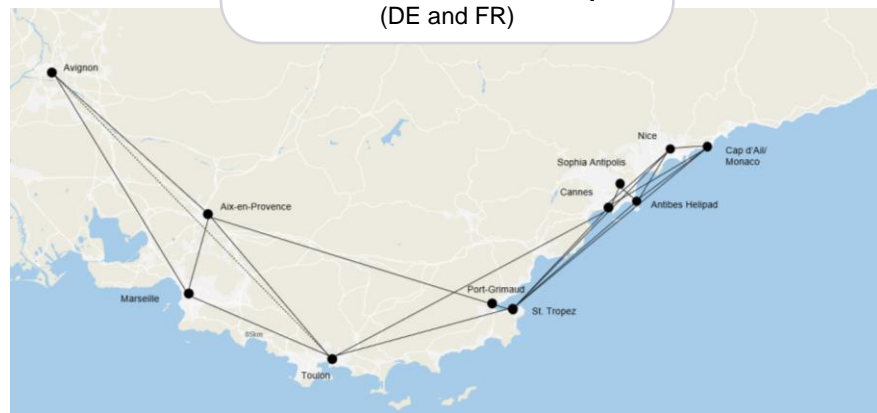
- Existing landing site infrastructure
- On and off-airport

Air Traffic Integration

- VFR flight rules
- Use of existing VFR routes
- Integration with ATM



**Indicative networks in Europe
(DE and FR)**



Key Success Factors on the Path to EIS

Air Operations

Energy reserves, alternate vertiports, flights over water, pilot training & qualification

New EU Air Ops rules tailored to eVTOL operations

Finalise Part-IAM & VTOL Type Rating (NPA 2022-06)

Airspace Integration

Integrating on airport locations, independent & simultaneous operations

Leveraging existing regulatory framework (SERA)

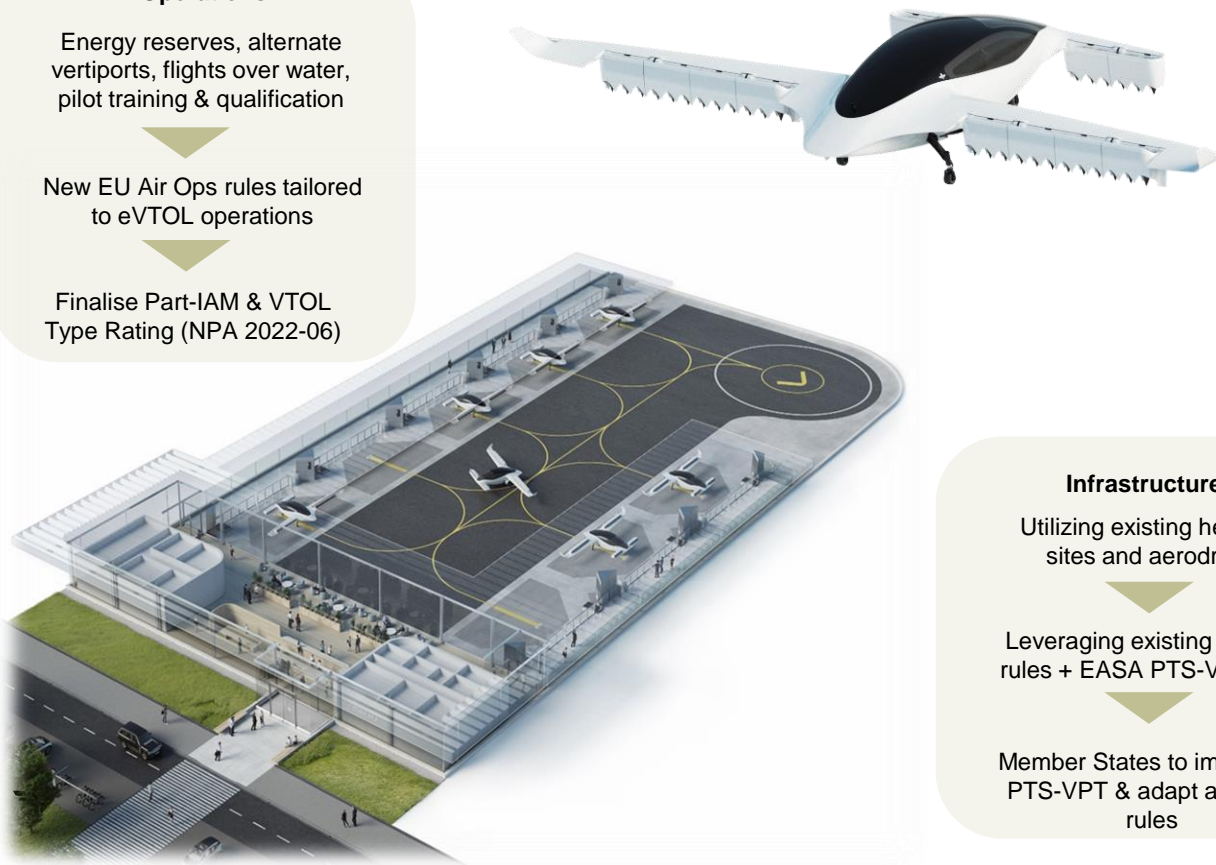
Clarifications by EASA
Development of pragmatic solutions (ANSPs)

Infrastructure

Utilizing existing helicopter sites and aerodromes

Leveraging existing national rules + EASA PTS-VPT-DSN

Member States to implement PTS-VPT & adapt approval rules





Dr. Joachim LÜCKING

Head of Unit for Aviation Safety
Directorate-General for Mobility
and Transport
European Commission

PANEL 2

**Building IAM ecosystem – setting up a realistic
implementation programme**

March 21, 2023 | 15:30 – 16:30



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Head of Global Regulatory &
Public Affairs
Lilium



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Patrick CIPRIANI

Director of Aviation Safety
Direction de la Sécurité de
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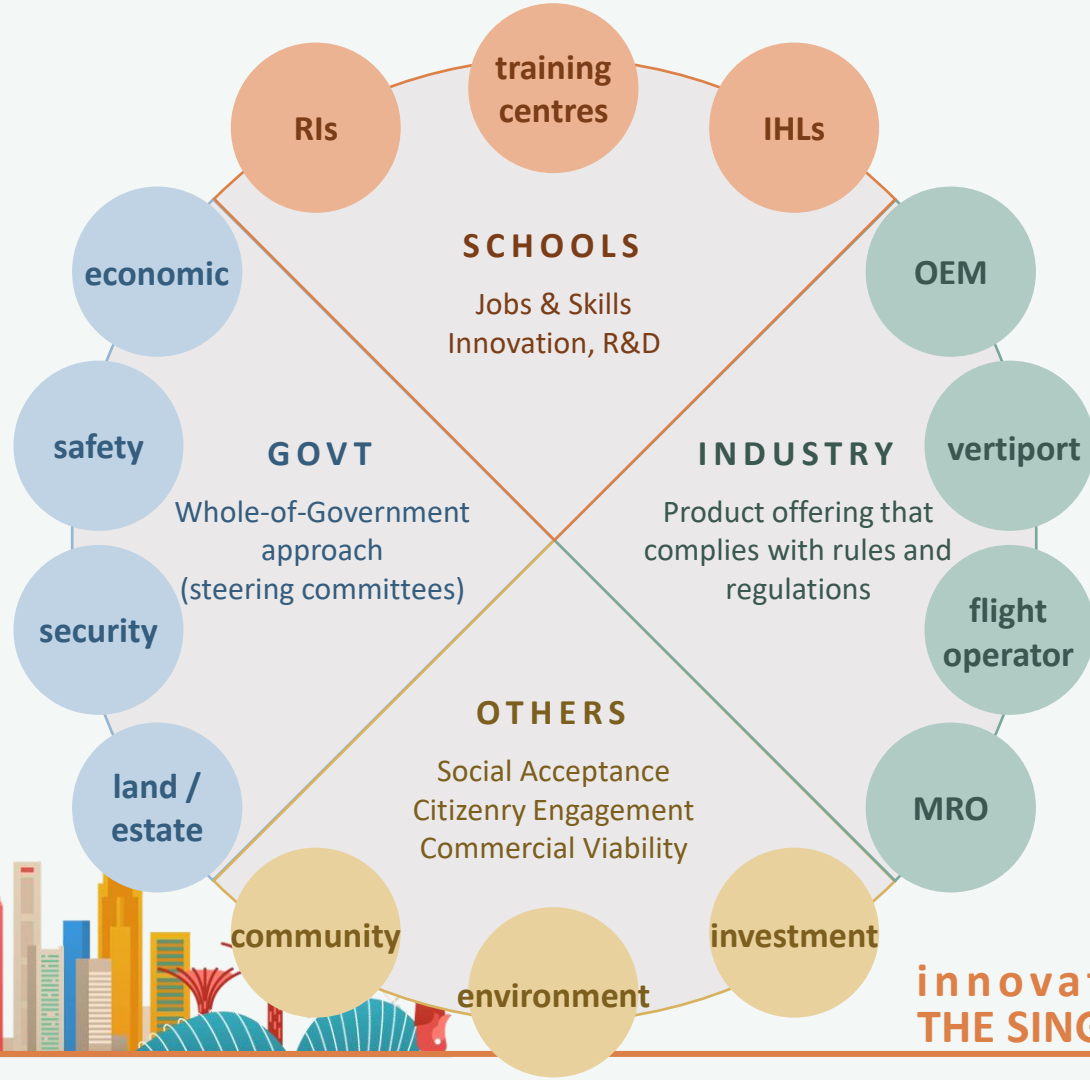
Rachel DAESCHLER

Certification Director
EASA



Tan Kah HAN

Senior Director UAS
Group
Civil Aviation Authority
of Singapore



innovative air mobility
THE SINGAPORE ECOSYSTEM



Dr. Joachim LÜCKING

Head of Unit for Aviation Safety
Directorate-General for Mobility
and Transport
European Commission

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Piotr SAMSON

Director General Civil Aviation
Civil Aviation Authority of the
Republic of Poland

PANEL 3

UAS Regulation implementation Review of lessons learnt, challenges and opportunities

March 21, 2023 | 16:30 – 17:30



Achim FRIEDL

Chairman of the Board of UAV DACH
and President of JEDA



Vendelin CLICQUES

President
IEDO



Nicolas MARCOU

Director of UAS Programme
DGAC FR



Dr. Thibault JONGEN

SABCA CEO



Nicolas BILLECOCQ

AzurDrones COO

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Closing remarks



Luc TYTGAT

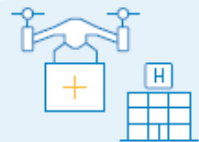
EASA – Strategy & Safety
Management Director



Thank you for attending the High Level Conference on Drones Day 1

1

A POSITIVE INITIAL ATTITUDE
TO UAM THROUGHOUT THE EU



STRONG SUPPORT FOR USE CASES
THAT ARE VALUABLE TO ALL

2

3

TOP 3 EXPECTED BENEFITS:
FASTER, CLEANER,
EXTENDED CONNECTIVITY



TOP 3 CONCERNS: SAFETY,
ENVIRONMENT/NOISE AND SECURITY

4

5

SAFETY: EXISTING
AVIATION SAFETY LEVELS
ARE THE BENCHMARK



ENVIRONMENT: PRIORITY IS
PROTECTION OF WILDLIFE

6

7

NOISE: ACCEPTABLE AT LEVEL
OF FAMILIAR CITY SOUNDS



NEED TO BUILD CONFIDENCE
AND TRUST IN CITIZENS

8

9

GROUND INFRASTRUCTURE:
MUST INTEGRATE WELL



REGULATORY AUTHORITIES:
MUST WORK TOGETHER AT
ALL LEVELS

10