



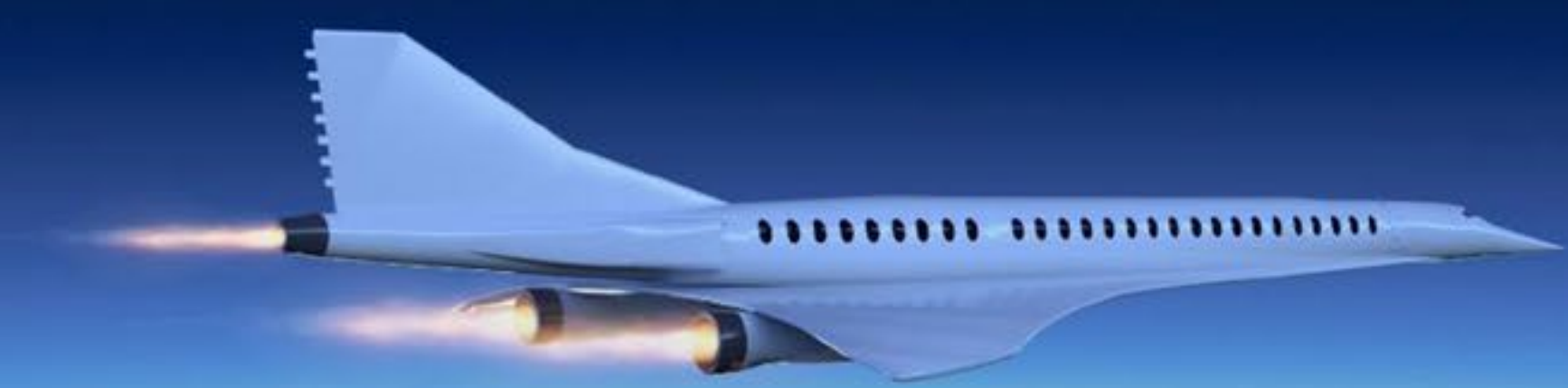
Complete Air
Traffic System
Global
Council

CATS

The Global Roadmap for Future Skies

Visionaries. Doers. Changemakers.

Shaping Tomorrow's Skies, Together.



We are more than an alliance, we are a movement.

The image displays a large collection of logos for various organizations and companies. The logos are arranged in a grid-like pattern. In the center, there are three overlapping rounded rectangular boxes with colored backgrounds (orange, light blue, and light green) containing text. The orange box on the left says 'ANSPs, Airlines and Airports'. The light blue box in the middle says 'Aerospace innovators & UAM/AAM pioneers'. The light green box on the right says 'Tech disruptors & digital architects'. The logos around these boxes include: A/E (Airlines for Europe), ACI (Airport Council International), AeroConnect, AIRBUS, AirEuropa, Airport Authority of India, aireservices, AIRWAYS, ALG, ALTITUDE ANGEL, ANRA TECHNOLOGIES, ASI (Aviation Studies Institute), astra, ATNS, bluenest, BOEING, CAAS, CANSO, CIRIUM, Collins Aerospace, COMMERCIAL SPACEFLIGHT FEDERATION, CORTEX IV, Cranfield University, CRIDA, dans, EASA, Emirates, Flying Bear, Graham Aerospace International, LEONARDO, NASA, NATO OTAN, NATS, NAV CANADA, NextNorth, NORTHROP GRUMMAN, PLSA (Polska Agencja Żeglowna Powietrzna - Polish Air Navigation Services Agency), sesar (Joint Undertaking), SITA, skyguide, solace, supernal, THALES, The Longbow Group, Think, to70, uAvionix, UNIFLY, VOLOCOPTER, WORLD ECONOMIC FORUM, Wing, and wisk.

Explore our members: futureskyvision.com/our-members

Aviation is reaching a critical inflection point

- Rapid growth in traffic and operational complexity
- Emergence of new entrants — including drones, Advanced Air Mobility (AAM), and High-Altitude Operations (HAO)
- Intensifying pressure to reduce emissions and meet global sustainability targets

Incremental change is no longer enough.

The CATS Concept of Operations (CONOPS) is our shared blueprint for bold, system-wide transformation — rethinking how we manage the skies in the decades ahead.

Contributing to ICAO: Amplifying Global Goals

Our vision reinforces and accelerates the work led by the International Civil Aviation Organization (ICAO), **providing inputs to and contributing to** key global frameworks:

Global alignment.
Local action.
Shared ambition.

GANP

Global Air Navigation Plan

the strategic roadmap for air navigation modernisation

ASBUs

Aviation System Block Upgrades

the building blocks for performance-based improvements

AAM

Advanced Air Mobility Vision

enabling new types of aircraft and operations

HAO

High-Altitude Operations Concept

shaping how we manage traffic in the stratosphere and beyond

Our Compass – Principles that Power the Vision:

1. **Safety is the foundation** — everything we build starts here
2. Sustainability is embedded, not added on
3. Interoperability enables scale and resilience
4. Equity and access for all airspace users
5. Cybersecurity by design
6. Cost-effective and scalable
7. Global collaboration

What Must Change: The Big Leaps.

CATS delivers
two transformation engines:

**Foundational
Transformation**
the building blocks



**Performance
Breakthroughs**
the game-changers

Transformations for Enhanced Services for Optimized Airspace Performance (TE)

TE07. Integration of increased automation in air systems

TE08. Enhanced Separation management

TE02. In-Time Aviation Safety Management

TE.03 In-Time Total System Performance Assessment & Management

TE04. Higher levels of automation in ATM and evolving roles of ATCOs

TE05. Disruption management

TE06. Dynamic configuration & management of the airspace

TE01. TBO and new approach to manage traffic

Phase 3

Phase 2

Phase 1

Foundational Transformations (FT)

FT06. Evolving/ Adaptive Flight rules & airspace structures

FT07. Common/ adaptive Altitude Reference

FT01. In-time Digital Information Sharing (civil & military)

TF02. Service Oriented / Open Architecture

FT03. Virtualisation

FT04. Integrated/ adaptive CNS and new capabilities for new entrants

FT05. True North

FT.08 Performance based regulatory framework

Phase 3

Phase 1

Phases of Transformation

Phase 1:

Advanced Digital Information Sharing

Real-time collaboration and seamless information exchange

Phase 2:

Smart Automation

Decision-making powered by high levels of automation

Phase 3:

Seamless Skies

Full integration of all users at every altitude, in one unified system

To bring the CATS vision to life, we need focused action in six critical areas:

1. Smarter Financing for Smarter Skies
2. Regulatory Transformation for the Future
3. Enabling New Airspace Service Delivery Models

4. Adapting the Role of Humans to Future Airspace Systems
5. Leveraging Research, Innovation and AI for System Change
6. Manage What Matters: Total System Performance

Charting the Path Forward:

The Future ATM System is Already Emerging

- This isn't futuristic theory—it's already happening:
 - ✓ Digitalisation
 - ✓ Virtual centres are live in Europe.
 - ✓ TBO is being trialled across regions.
 - ✓ Cloud-based ATM is no longer a concept—it's an implementation priority.
- **But what does this mean for our Region?**

Join us
on the journey.
The future is
taking off.



CANSO Operations Program to Support Regional Transformation

Strategic Focus Areas:

- SWIM, FF-ICE, enablers for TBO
- CNS Evolution
- Remote Services
- Future Airspace Integration (AAM and Space Operations)
- Human-Centered Innovation & Workforce Readiness
- COMPASS

CANSO's expert groups are building global solutions through global and regional collaboration

Beyond Regulation – Leading by Sharing

- CANSO goes beyond regulatory compliance.
- We foster a space for peer learning, mutual support, and early-stage alignment.
- Whether it's joint workshops, collaborative assessments, or global benchmarking—we enable members to learn from each other's success and challenges.
- **We believe in inspiration as a form of leadership**

Final Reflections

- CANSO goes beyond regulatory compliance.
- We foster a space for peer learning, mutual support, and early-stage alignment.
- Whether it's joint trials, collaborative assessments, or global benchmarking—we enable members to learn from each other's success and challenges.
- **We believe in inspiration as a form of leadership**

Thank you!



Download the full CONOPS:
www.futureskyvision.com

Let's shape the skies of tomorrow — together.

Presented by:

The logo for CATS (Complete Air Traffic System Global Council) features the letters 'CATS' in a stylized, outlined font. The 'C' is a large, open circle. The letters are filled with a horizontal gradient: the 'C' is orange, the 'A' is yellow, the 'T' is light green, and the 'S' is white. The letters are positioned centrally on the slide.

Complete Air Traffic System
Global Council