ALTA AGM & AIRLINE LEADERS FORUM

BUENOS AIRES
ARGENTINA
OCTOBER 16-18
2022

ALTA

ALTA AGM & AIRLINE LEADERS FORUM

ALTA

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CANSO EANA | NAVEGACIÓN AÉREA ARGENTINA

Our shared vision for 2045

By the Complete Air Traffic System (CATS) Global Council

DATE

Civil Air Navigation Services Organisation – CANSO

CANSO is the global voice of the air traffic management (ATM) industry and is shaping our future skies. We raise the bar on global ATM performance by connecting the ATM industry to share knowledge, expertise and innovation.

WHO we are

Members represent almost

90%

of world air traffic

85

Full (ANSP) Members

89

Associate Members

CANSO

HQ - Amsterdam
Montreal
Miami
Brussels
Singapore
Johannesburg

The Complete Air Traffic System (CATS) Global Council

The first ever cross-industry vision for our future skies

In October 2021 the Complete Air Traffic System (CATS) Global Council, a forum of industry aviation leaders, launched '**our shared vision for the skies of 2045**'

2045 Vision Statement

To create global airspace that is safe, fair, intelligent and interoperable, leveraging revolutionised design, technology and services to power global mobility and prosperity

Picture the scene…it's the year 2045

Our Shared Vision for 2045

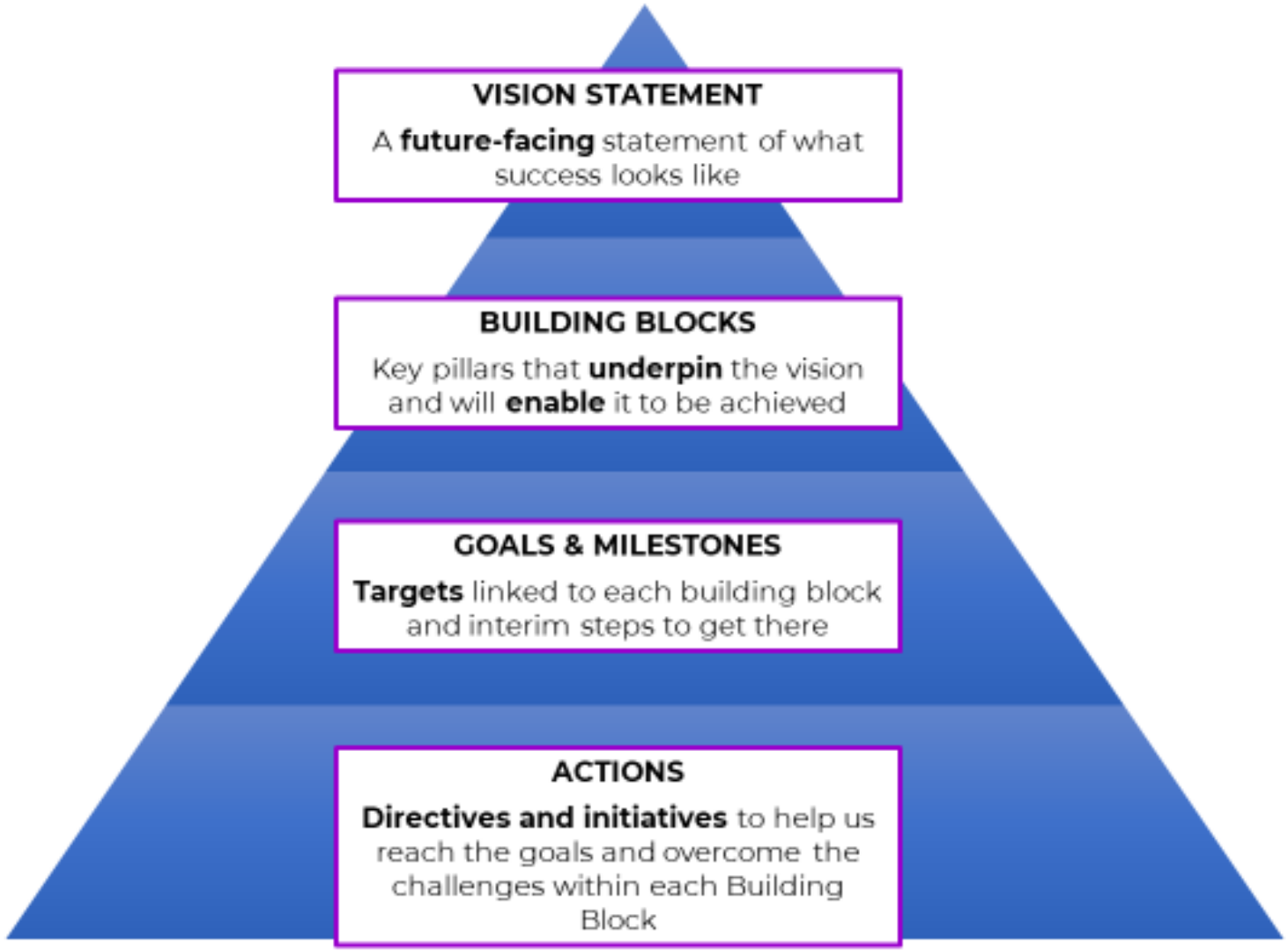
2045 Vision Building Blocks

- Services and Service Delivery
- Technology and Digitisation
- Safety and Regulation
- Environmental Sustainability and Social Impact
- Airspace Design and Classification
- Data and Security
- People, Organisation and Talent

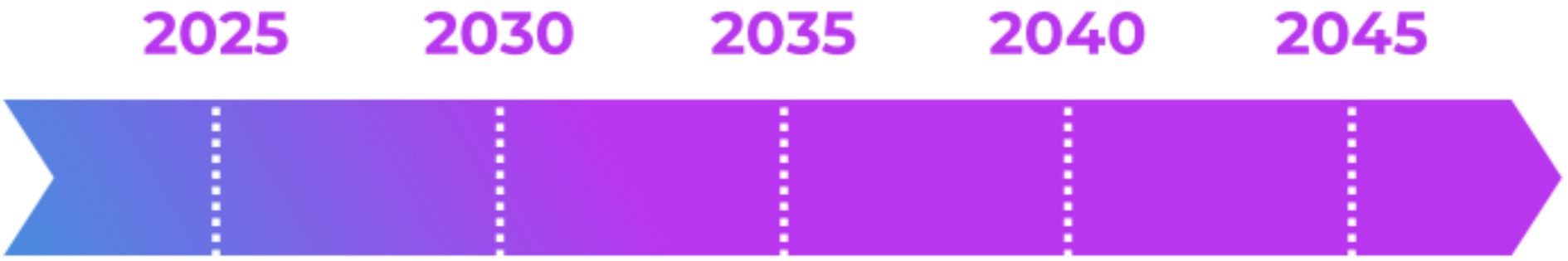
The Complete Air Traffic System (CATS) Global Council

CATS GC Vision Roadmap

CATS GC Vision Roadmap Structure



Start in the future and work backwards



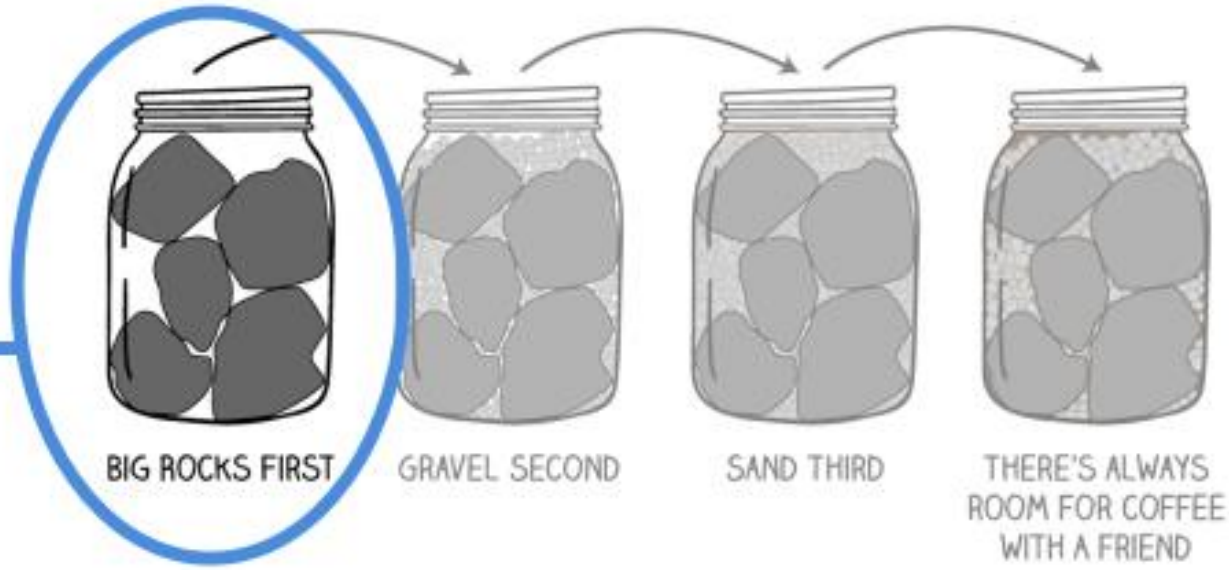
Identify intermediate Goals / Success factors

2045 Goals / Success factors identified in the CATS Vision

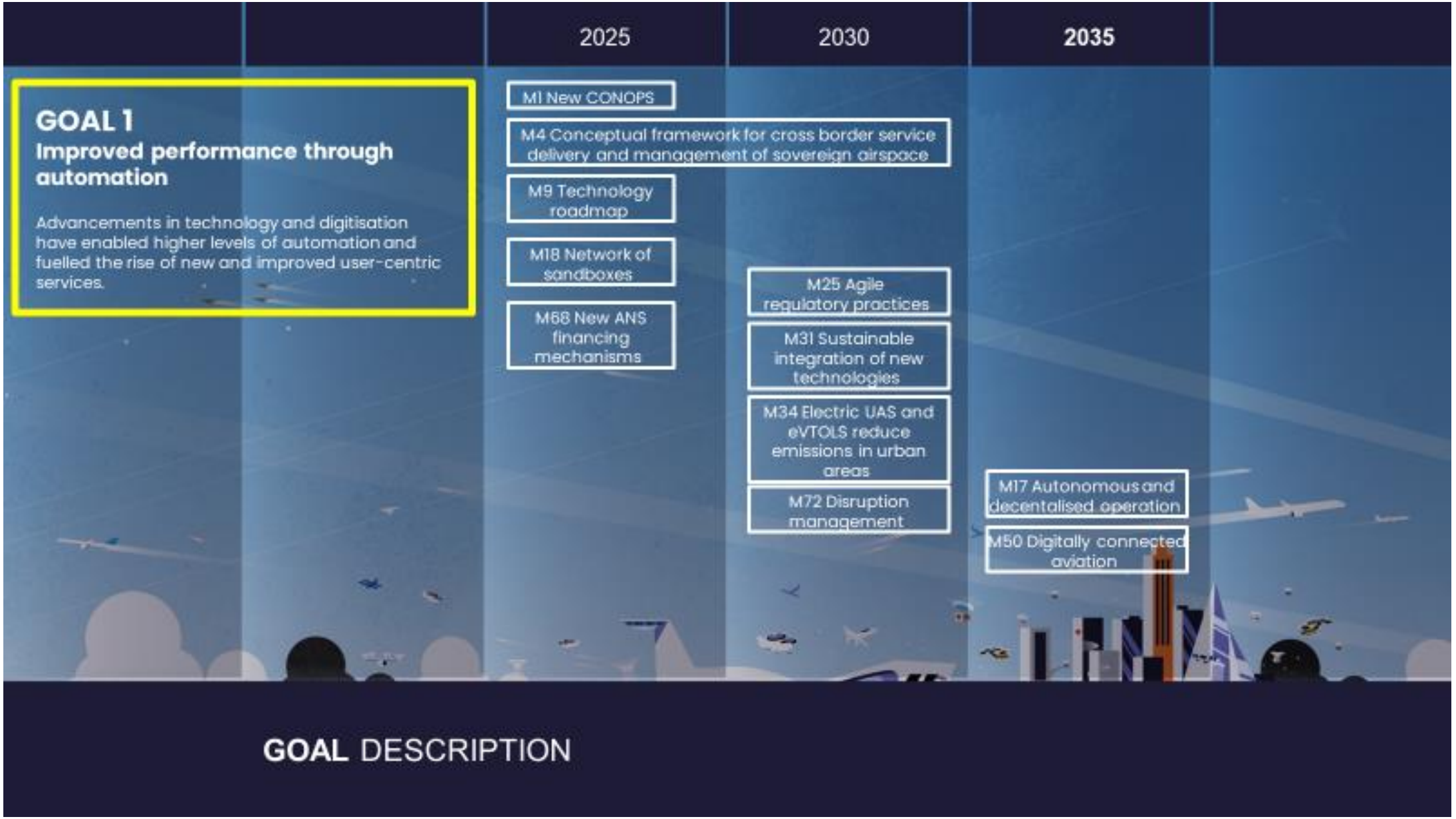
Scope of the CATS Roadmap

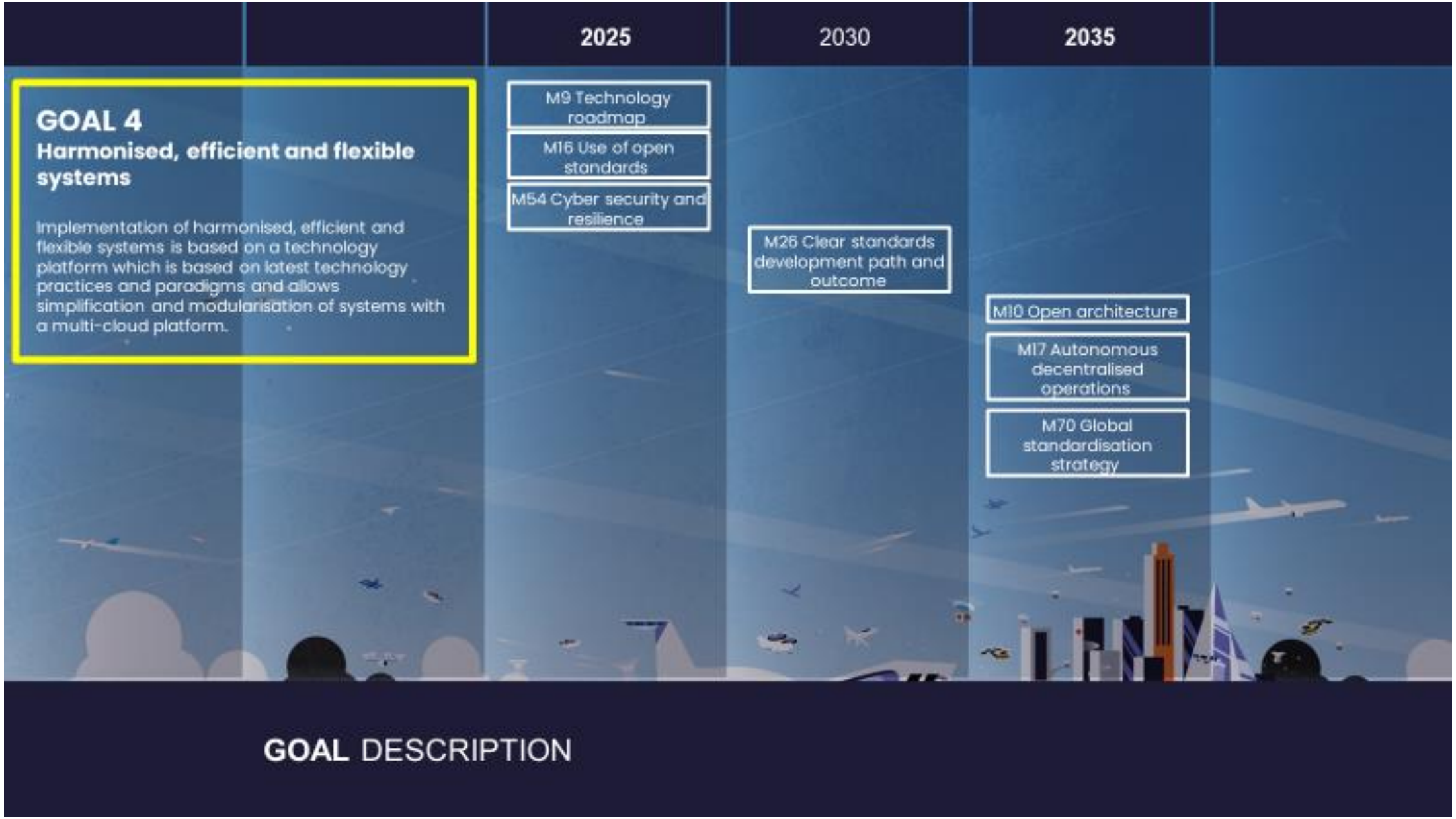
It is a high-level roadmap – focused on goals and key actions.
We scoped the Roadmap so it is manageable and it effectively steers the ATM industry towards the CATS GC vision

Goals and key actions



GOAL 1
Improved performance through automation
GOAL 2
Harmonised service delivery
GOAL 3
Integrated airspace
GOAL 4
Harmonised, efficient and flexible systems
GOAL 5
Digital Collaboration
GOAL 6
Safety and Security by design
GOAL 7
Predictive approach to risk management
GOAL 8
Strong safety and quality culture
GOAL 9
Towards reduced climate impact
GOAL 10
Environmental sustainability and social impact management are broadly integrated into the air transport system
GOAL 11
Integrated and connected multimodal transportation network and infrastructures
GOAL 12
Data-powered ecosystem
GOAL 13
Thriving airspace management community
GOAL 14
High performing teams
LONG TERM GOALS (2045)


2025
2030
2035
GOAL 1
Improved performance through automation
Advancements in technology and digitisation have enabled higher levels of automation and fuelled the rise of new and improved user-centric services.
M1 New CONOPS
M4 Conceptual framework for cross border service delivery and management of sovereign airspace
M9 Technology roadmap
M18 Network of sandboxes
M68 New ANS financing mechanisms
M25 Agile regulatory practices
M31 Sustainable integration of new technologies
M34 Electric UAS and eVTOLS reduce emissions in urban areas
M72 Disruption management
M17 Autonomous and decentalised operation
M50 Digitally connected aviation
GOAL DESCRIPTION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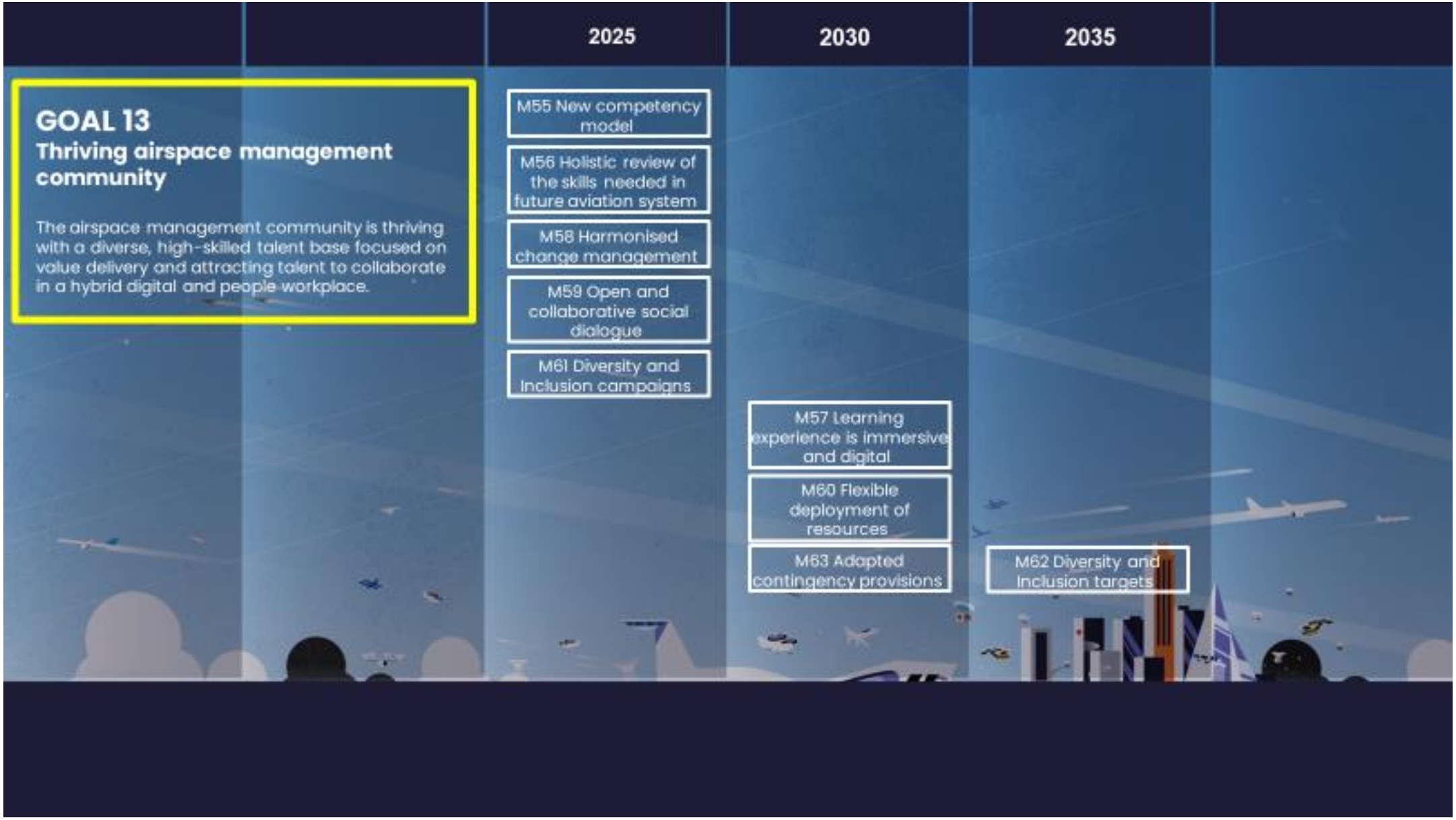
GOAL 4
Harmonised, efficient and flexible systems
Implementation of harmonised, efficient and flexible systems is based on a technology platform which is based on latest technology practices and paradigms and allows simplification and modularisation of systems with a multi-cloud platform.
M9 Technology roadmap
M16 Use of open standards
M54 Cyber security and resilience
M26 Clear standards development path and outcome
M10 Open architecture
M17 Autonomous decentralised operations
M70 Global standardisation strategy
GOAL DESCRIPTION


2025
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GOAL 13
Thriving airspace management community
The airspace management community is thriving with a diverse, high-skilled talent base focused on value delivery and attracting talent to collaborate in a hybrid digital and people workplace.
M55 New competency model
M56 Holistic review of the skills needed in future aviation system
M58 Harmonised change management
M59 Open and collaborative social dialogue
M61 Diversity and Inclusion campaigns
M57 Learning experience is immersive and digital
M60 Flexible deployment of resources
M63 Adapted contingency provisions
M62 Diversity and Inclusion targets

Next activities of the CATS Global Council

- Alignment issues with existing global and regional plans
- Start working on the implementation of the vision roadmap:
  - Define a 3-year work programme facilitated by CANSO
  - Find champions / sponsors for each key milestone

Muchas gracias

https://canso.org/vision-for-the-skies-of-2045/