



# The updated IATA Airport Development Reference Manual

Mark Rodrigues

Assistant Director Airport Development





## International Air Transport Association

Trade association for the world's airlines, supporting many areas of aviation activity and helping formulate industry policy on critical aviation issues.

**Vision:** *“To be the force for value creation and innovation driving a safe, secure and profitable air transport industry that sustainably connects and enriches our world”.*

**Mission:** *To represent, lead, and serve the airline industry*

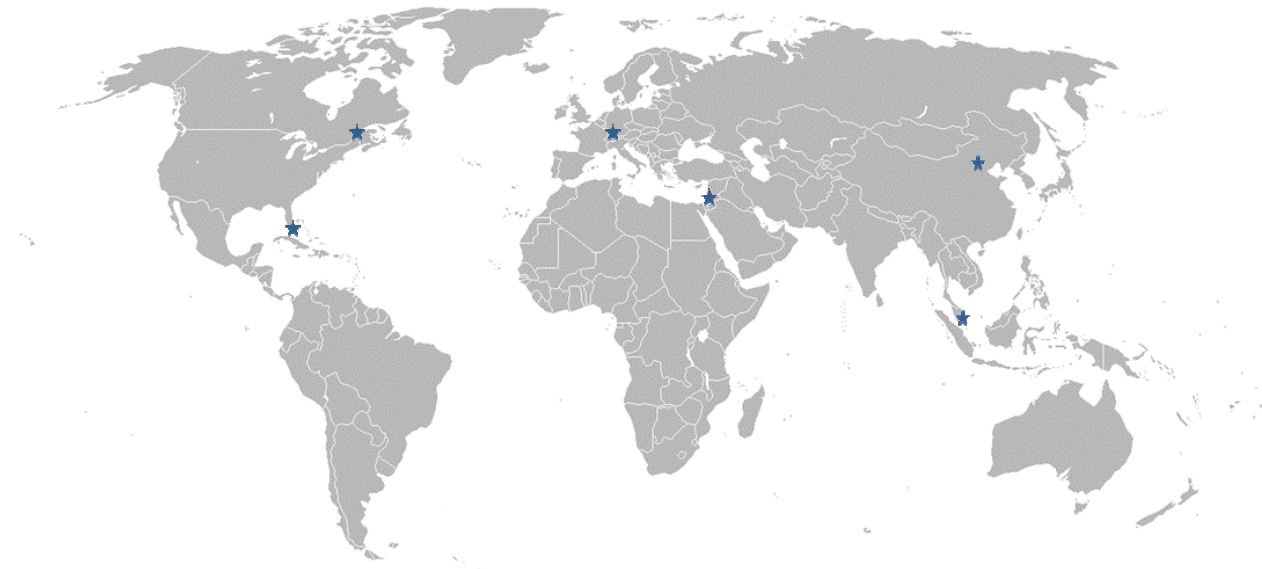
### Membership

- 287 airlines in 120 countries
- Flights by IATA members represent 83% of total scheduled air traffic



## Global Presence

- IATA has 54 offices in 53 countries
- Head Office: Montreal, Canada; Executive Office: Geneva, Switzerland
- Regional Offices: Amman, Beijing, Madrid, Miami, Singapore



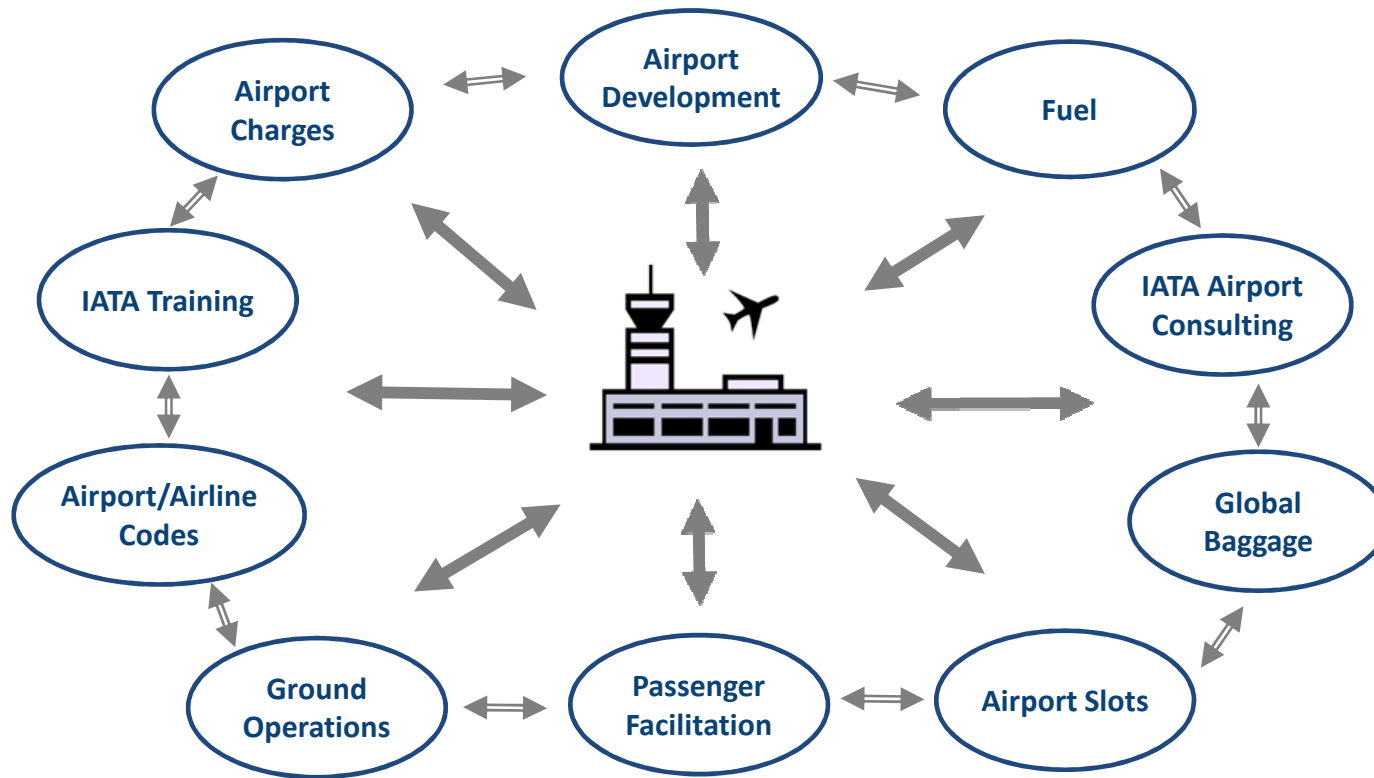


## Why is IATA interested in Airport Infrastructure?

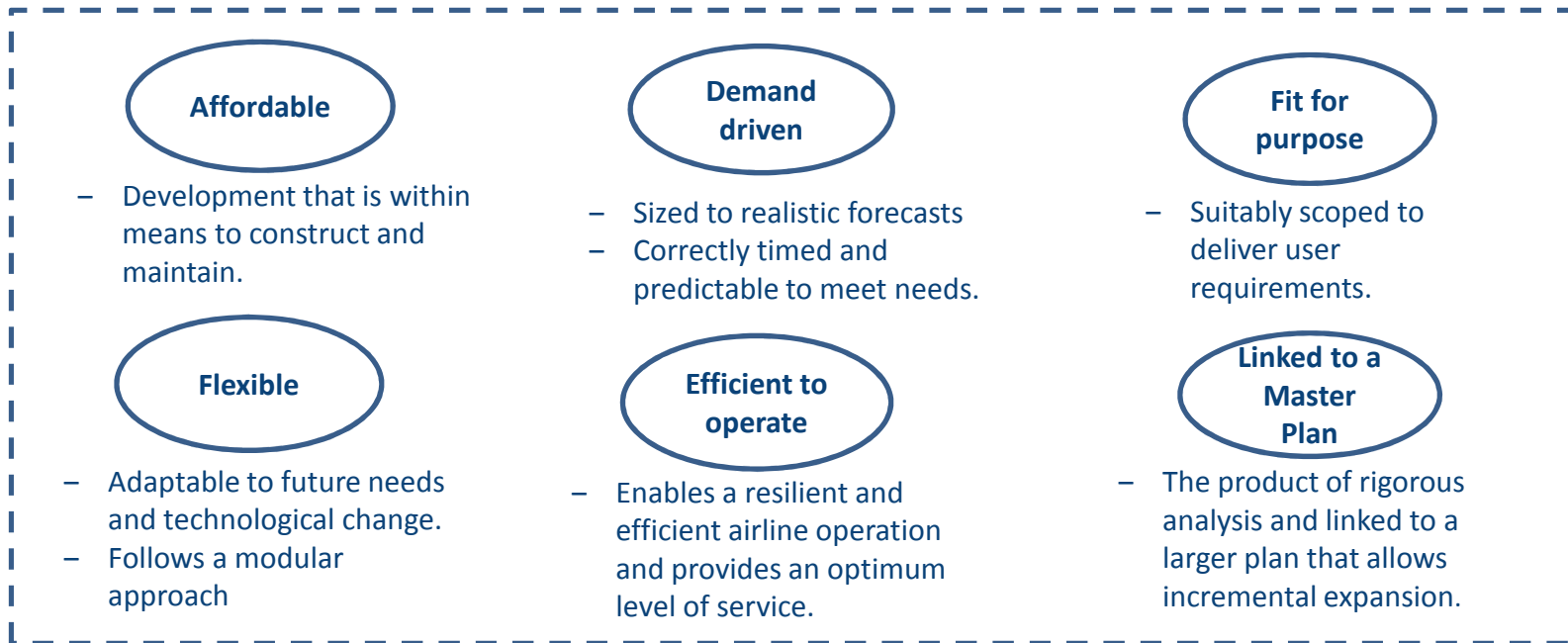
- IATA expects 7.8 billion passengers to travel in 2036, a near doubling of the 4 billion expected to fly this year.
- While growth on this scale brings opportunities, it will also put pressure on airport infrastructure that is often already struggling to cope with demand. Many airports are becoming constrained, causing delays, crowding and poor service levels.
- Planning for growth and ensuring adequate infrastructure is in everyone's interest and requires effective cooperation among stakeholders including airports, governments, and airlines.



# Therefore, IATA is involved in many different aspects of Airports



# It is important to strive for airport development that is..



↗ via Collaboration and Consultation



# IATA Airport Development Reference Manual



## What is the Airport Development Reference Manual?

- Recognized globally as the aviation industry's **guide** for planning new airports or expanding existing infrastructure
- Joint publication from Airports Council International (ACI) and IATA and endorsed by both organisations
  - The interests of airports and airlines are closely linked, as business partners
- Currently, the 10<sup>th</sup> edition is in circulation since 2014
  - 5<sup>th</sup> release, last updated in May 2017; 1<sup>st</sup> edition in 1995
- Application on CD, Software for Windows, Floating License with update function and recently Mobile was added





## Industry Standards: Airport Development Reference Manual

- The ADRM brings together the recommendations of leading industry experts on the best practices for the development of sustainable and efficient ‘world class airports’
- A key reference manual to “future proofing” i.e. links to “NEXTT”
- Recognized as one of the aviation industry’s most important guides for planning new airports or expanding existing infrastructure
- Supported by the ADRM community
- To be used in conjunction with:
  - ICAO Airport Planning Manual (Document 9184)
  - ICAO Aerodrome Design Manual (Document 9157)
  - ICAO Airport Services Manual (Document 9137)
  - And many other International and National guidelines and standards



## Who uses the ADRM?

➤ The ADRM is a global product and is used by a wide range of professional teams such as:

- Airport Planners, Airport Consultants
- Airlines and Airports
- Architects, Structural and Mechanical Engineers,
- Airport Security Planners, Government Authorities and Airport Authorities

and others involved in airport development and planning, capacity planning, terminal planning, apron design and more.



## Overview of the ADRM

Key chapters

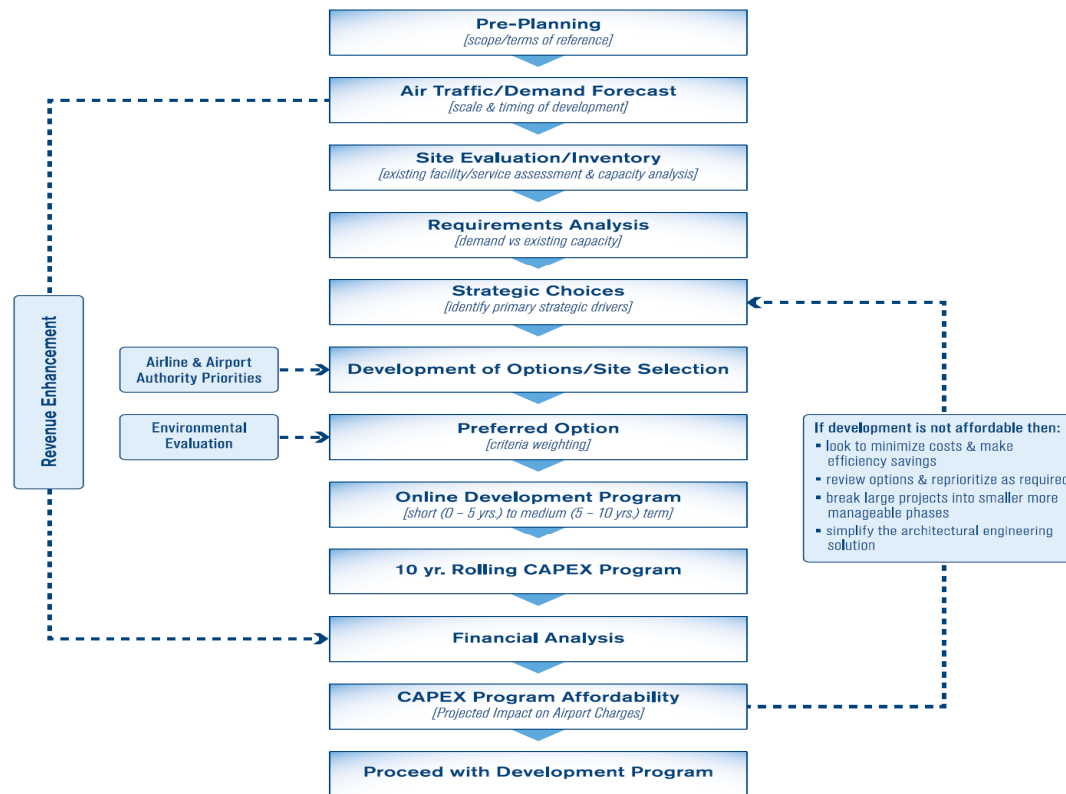
➤ Forecasting

➤ Planning

- Master Planning
- Airside Infrastructure
- Passenger Terminal
- Cargo Terminal
- Airport Support Elements
- Surface Access Systems
- Airport Simulation



# IATA's recommended Master Planning Process

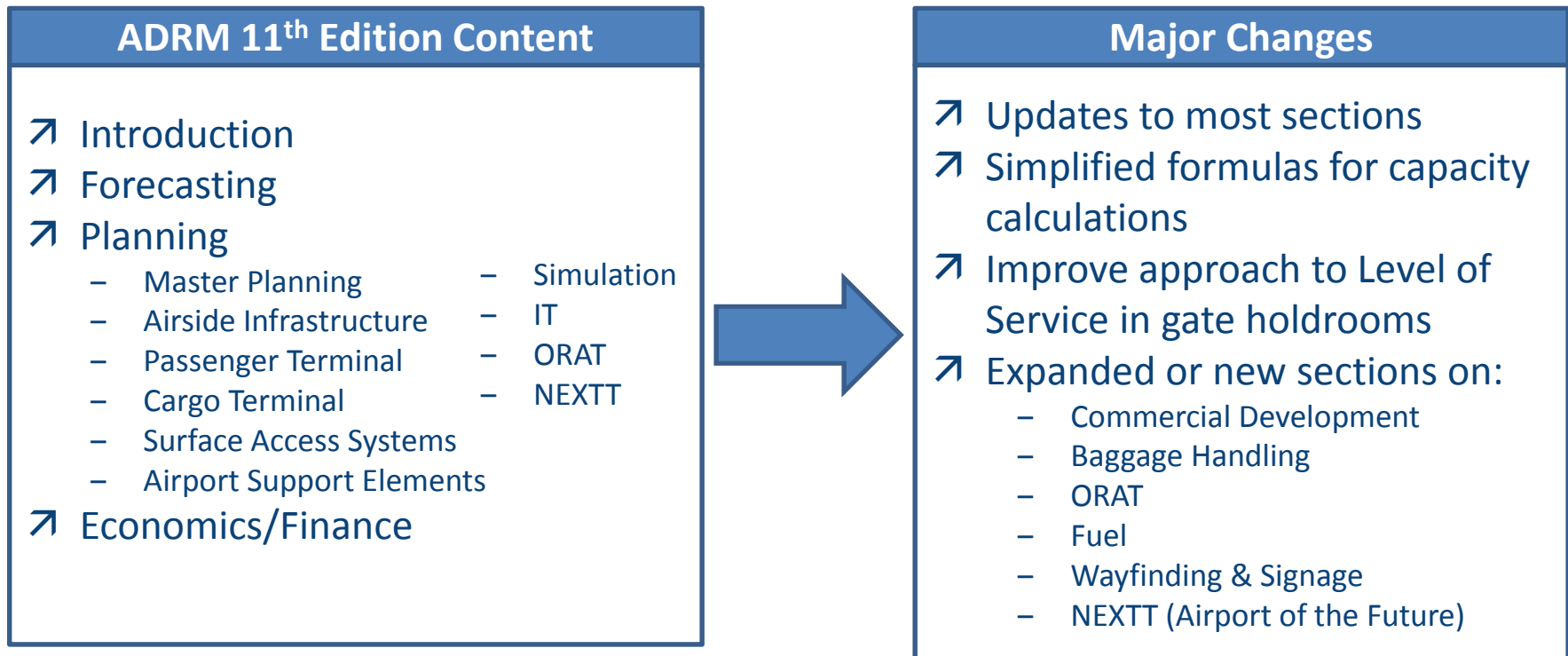




## Why update the ADRM?

- The ADRM needs to keep evolving to meet industry needs and developments
- Through the ADRM Community and many industry experts a further update to the ADRM was warranted
- 11<sup>th</sup> Edition is being working on now

# ADRM 11<sup>th</sup> Edition – Content and Changes





## ADRM Update Highlights

- Forecasting (inclusion of the Design Day Schedule)
- Planning
  - Master Planning (Review and update)
  - Airside Infrastructure (updates to MARS stands and Electric Ground Service Equipment (GSE))
  - Passenger Terminal
    - Update LoS section related to Gate Occupancy considerations
    - New and Simplified Formulas
    - New section on Commercial Development
    - New Section on Wayfinding and Signage
    - New expanded Section on Baggage Handling Systems
    - Overall review of the text



## ADRM Update Highlights

- Cargo Terminal (Review and update to include Warehouse of the Future)
- Review of Airport Support Elements (New section on Fuel)
- Review of Surface Access Systems
- Revised and updated section on Airport Simulation
- New Section on IT
- New Section on ORAT
- Airport of the Future / NEXTT (Integrated in each section)  
<https://nextt.iata.org/>

➤ New section on Economics/Finance

## ADRM 11<sup>th</sup> Edition – development schedule



Action	Timeline
Content Development	Nov 2017 – Aug 2018
Review by Airports Council International (ACI) and Airport Consultants Council (ACC)	Sep 2018
ADRM Task Force Review	Oct 2018
Copy Editor & Review	Nov 2018 – Dec 2018
Publishing	Dec 2018 – March 2019
Delivery to Market	26-28 Mar 2019 (PTE London)





Thank you!

**Mark Rodrigues**

Assistant Director - Airport Development

Tel: +1 786 427 8473 Cell: +1 305 440 8641

E-mail: [rodriguesm@iata.org](mailto:rodriguesm@iata.org)

