# **WORLD CIVIL AVIATION REPORT**



### Table of Contents

#### **Foreword**

S In Focus

- 10 Promoting GlobalPeace and ProsperityThe Past and Futureof the ChicagoConvention
- 16 Gender Equality
   Linked to the
   Continued Expansion
   of Aviation

24
Innovation and Technology

- 26 The Future is Now
- 34 Remotely PilotedAircraft System:ICAO Leads the WayTowards Integration
- 40 The Buzzing Skies: Very Low Altitude Operations

46

### Economic Development

- I. Industry Performance in Numbers
- 49 Revenue Passenger-Kilometres (RPK) and Freight Tonnes-Kilometres (FTK) Evolution since 1944
- 50 World Air Carrier Data
- 59 World Airport Data
- 70 Outlook to 2045
- II. Regulatory and Industry Developments
- 75 Passenger Assistance Regulations Related to Travel Disruptions
- 82 Measuring the Benefits of Aviation: The New Aviation Satellite Account
- 86 Lies, Damned Lies, and Statistics
- 98 The Impact of Exchange Rates on International Airline Results
- 104 Airport Networks:
  A Survival Strategy for
  Economically
  Non-Viable Airports
- 110 New Governance for
  Defining Guidelines on
  Airport Slot Allocation at
  the Global Level

114

### Aviation and the Environment

- 116 International Civil
  Aviation and Adaptation
  to Climate Change
- 120 The Latest

  Developments in

  CORSIA Implementation
- 128 Turning Policy into
  Action: CapacityBuilding and
  Assistance to Advance
  Environmental
  Protection in Aviation

132

## Air Navigation Capacity & Efficiency

- 134 The ICAO Aircraft Registry Network
- 140 Performance-basedNavigation andEstablished on RNPAR Implementation
- 148 Performance-based
  Aerodrome Operating
  Minima
- 152 Changes to Annex
   14 Aerodromes,
   Volume I —
   Aerodrome Design
   and Operations:
   Reduce Airport Costs
   and Increase Airline
   Opportunities

160

### Aviation Safety

- 162 Accident Statistics and Analysis - Scheduled Commercial Operations - 2018
- 168 Global AeronauticalDistress and SafetySystem
- 176 Fitness To Fly A Medical Guide for Pilots
- 180 ICAO Integrated Safety
  Trend Analysis and
  Reporting System
  (iSTARS)

184

#### Security and Facilitation

- 186 Aviation Security
  Statistics 2018
- 188 Fostering
  Aviation Security
  Innovation
- 194 An Overview of Border Control Management Principles
- 208 The ICAO Digital
  Travel Credentials
  Concept

218 Training

219 Aviation Training Intelligence

Amendments to the ICAO Annexes

234
Amendments to the ICAO PANS

237

#### **Appendices**

- 238 World Map of ICAO Regions and Member States
- 240 Regional Air Transport Traffic 2018
- 275 Acronyms