

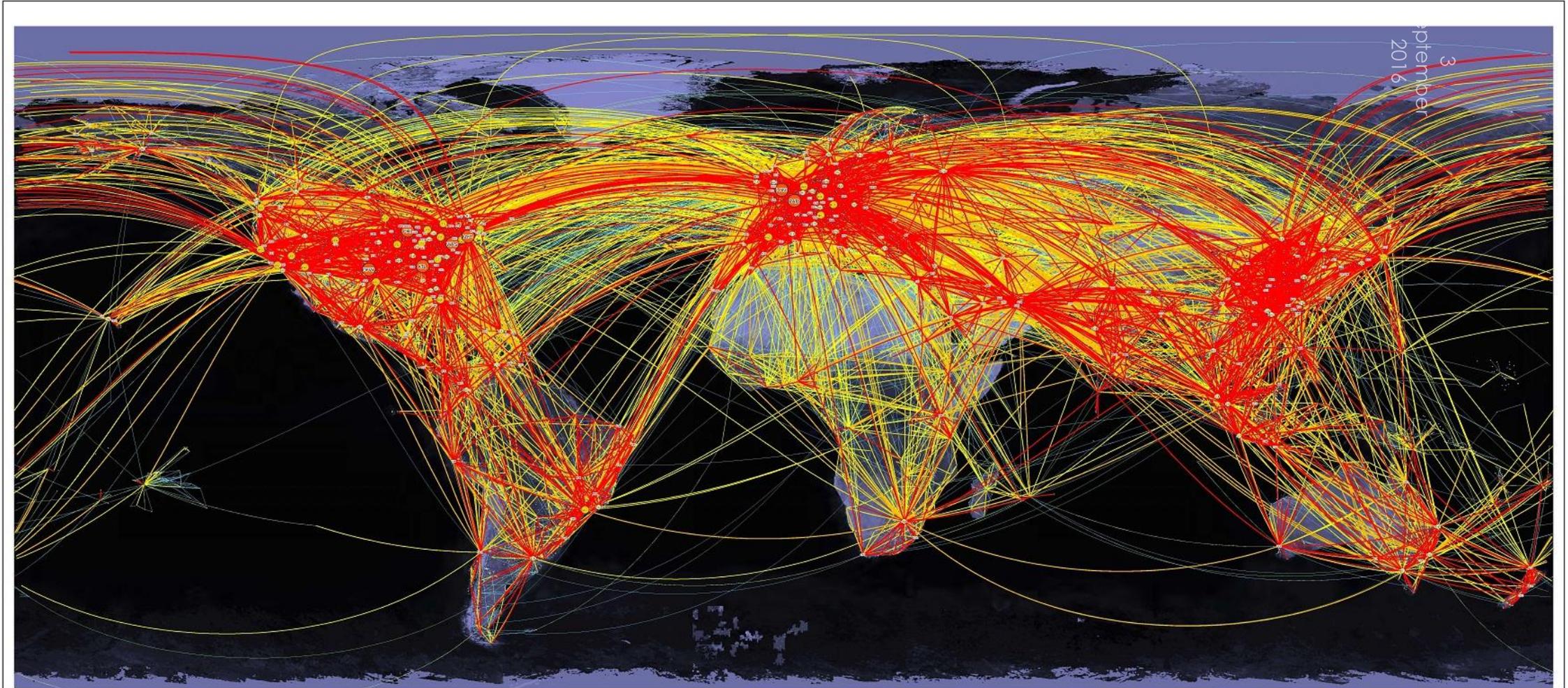


THE NEED FOR INT'L COOPERATION

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Air Traffic Flow Chart 2030



THE FACTS

- ▶ Significant efforts by States to meet compliance with ICAO SARPs
- ▶ Traffic growth:
 - ▶ critical in specific regions
- ▶ Sustainable growth is at risk
 - ▶ Bottlenecks
- ▶ Cooperation is needed
 - ▶ Neighbouring countries
 - ▶ Regional arrangements

ASECNA

- ▶ Mission: “ensuring safety in air navigation”
- ▶ Established in 1959 (revised in 2010)
- ▶ Common services:
 - ▶ En route air navigation
 - ▶ Organization of airspace and routes
 - ▶ Aeronautical information
 - ▶ Meteorology

COCESNA

- ▶ Mission: “to provide safe and efficient air navigation services”
- ▶ Established in 1960
- ▶ Common services:
 - ▶ Air navigation services
 - ▶ Safety oversight agency
 - ▶ Training institute

EUROCONTROL

- ▶ Mission: “achive safe and seamless ATM across Europe”
- ▶ Established in 1960 (revised 1996)
- ▶ Common services:
 - ▶ En route ATM
 - ▶ Route charges
 - ▶ Air Traffic Flow Management
 - ▶ Program management (ATM master plan)
 - ▶ R&D
 - ▶ Training institute

WHY COOPERATION

- ▶ Resources required: financial, technological, human
- ▶ Traffic growth may create bottle necks and ultimately inefficiencies
- ▶ Regional dimension of the challenge

THREE MAIN REASONS

- ▶ Sustainable growth of aviation
- ▶ No country left behind
- ▶ CO2 emissions, operations in the basket of measures

THE NEED FOR A COOPERATION ARRANGEMENT

- ▶ Cooperation as result of a crisis: CFMU
- ▶ Cooperation as means to anticipate crisis:
 - ▶ Network manager
 - ▶ Route charges
 - ▶ Performance review mechanisms
 - ▶ ASECNA, COCESNA

AREAS OF POTENTIAL REGIONAL DIMENSION

- ▶ Flow and capacity management
- ▶ Route Charges
- ▶ Regional Air Navigation Plan implementation
- ▶ Safety Oversight
- ▶ Aeronautical information data bank
- ▶ SAR
- ▶ Accident Investigation
- ▶ Surveillance: ADS-B
- ▶ Comm
- ▶ ATM
- ▶ Training

THE SCALE OF ENGAGEMENT

- ▶ Support / assistance programs (ad-hoc)
- ▶ Bilateral / multilateral programs (ad-hoc)
- ▶ MOU / MOC sharing information and resources
- ▶ Common mechanisms / coordination
- ▶ Common institutions / organizations
- ▶ Common regulation
- ▶ Common law

COOPERATION STEPS

- ▶ 1st step: sharing information
 - ▶ Radar data
 - ▶ Flight plan data
 - ▶ Other operational data
- ▶ 2nd step: sharing services
 - ▶ SAR
 - ▶ Calibration
 - ▶ Accident investigation
 - ▶ Safety oversight

COOPERATION STEPS (cont.)

- ▶ 3rd step: common ATM facilities and operations
 - ▶ EUROCONTROL
 - ▶ ASECNA
 - ▶ COCESNA

SUSTAINABILITY of a COOPERATION ARRANGEMENT

- ▶ Addressing the Need (present or future)
- ▶ Autonomous operation
- ▶ Institutional foundation, solid governance
- ▶ Sound financial scheme, business case
- ▶ Capable workforce

THE CHALLENGE

- ▶ What kind and level of regional arrangements?
 - ▶ Mechanisms
 - ▶ Tools
 - ▶ Institutions
- ▶ What is the evolving role of the ICAO Regional Offices?

THE EUROPEAN CASE

- ▶ Many States
- ▶ Small airspaces
- ▶ Requirements from civil and military
- ▶ Dense population, nearby capitals, close main hubs
- ▶ Continuous growth of traffic

THE EUROPEAN PREVIOUS CONTEXT

- ▶ Capacity of airspace and airports to the limit
- ▶ Multiplicity of regulations
 - ▶ Operations
 - ▶ Airworthiness
 - ▶ Licenses
- ▶ Aviation could have become a hándicap to economic growth

EUROPEAN PAST ARRANGEMENTS

- ▶ Aircraft operations: JAA developing JARS
- ▶ Air navigation: EUROCONTROL
 - ▶ ATM Master Plan
 - ▶ EATCHIP
 - ▶ RVSM

EUROPEAN INSTITUTIONAL EVOLUTION

- ▶ The EU
 - ▶ European Council
 - ▶ European Parliament
 - ▶ European Commission
 - ▶ Easa (2003)
- ▶ EUROCONTROL (1960)
 - ▶ Centralised services
- ▶ EC + EUROCONTROL : Single European Sky

EVOLUTION

- ▶ From coordination of flow operations
- ▶ To a continental Network Manager
 - ▶ Centralised operation center
 - ▶ Flow and capacity management
 - ▶ Flight planning operations
 - ▶ Information management
 - ▶ Crisis & contingency management
 - ▶ Post operatios analysis

GLOBAL MECHANISMS ?

- ▶ Towards a single global sky
 - ▶ ADS-B satellite based
 - ▶ Aeronautical Information data bank ?
 - ▶ Global ATFM?
-
- ▶ A transparent and efficient airspace will require global mechanisms and regional arrangements