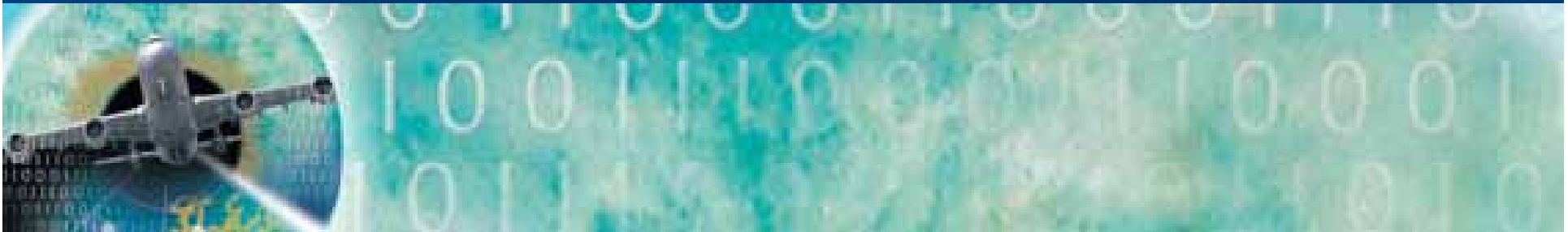


European ADS-B Regulation



John Law
Surveillance Programmes Manager
EUROCONTROL



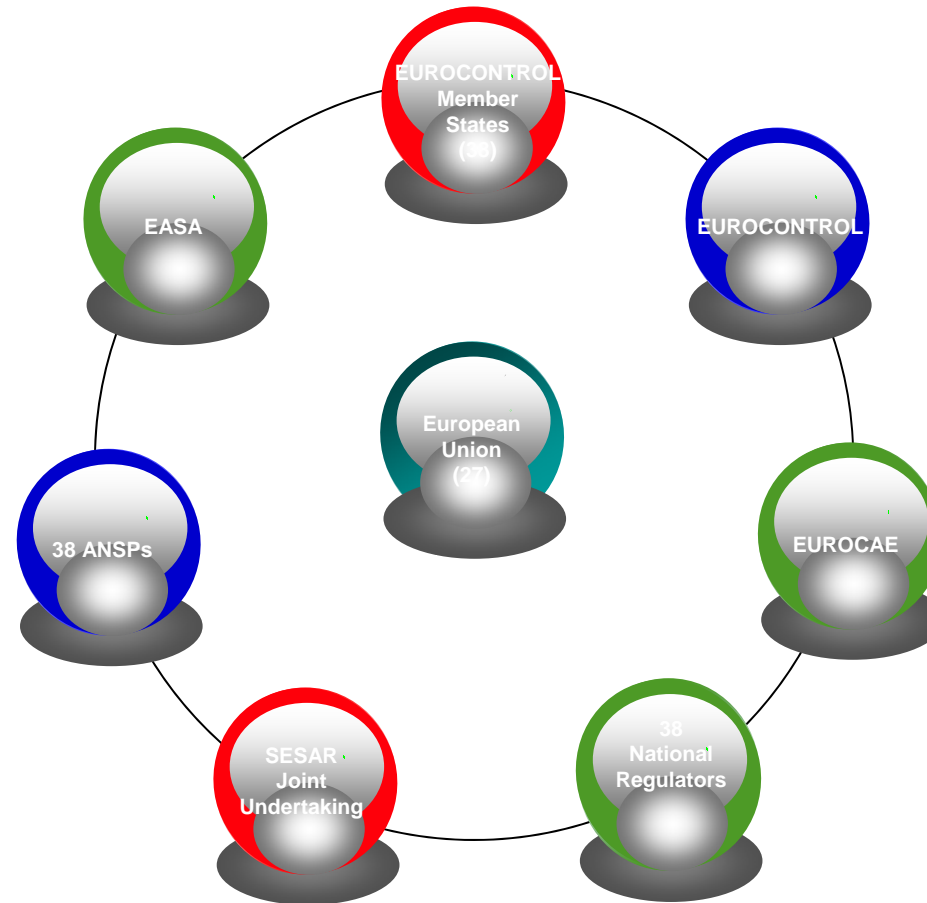
Regulators' Workshop Jakarta Aug 2010
European Regulation



Agenda

European ATM Institutions
EUROCONTROL Role
Surveillance Context
European ADS-B Regulation
Summary

ATM in Europe





EUROCONTROL - Role (1)

We do not Implement on behalf of European States
Our only operational units are CFMU/IFPS and MUAC

We Support Regulation but
EASA, EC & National Authorities are the Regulators not us

We do not issue Certificates or Approvals of any kind
EASA and National Authorities do that



EUROCONTROL - Role (2)

We Plan & Co-ordinate Implementation for States and ANSPs

Provide input to standards and specification definition
ICAO, EUROCAE, RTCA

Provide Test Facility & Monitoring Tools
support to ANSPs and Aircraft Operators

Provide Technical, Operational & Safety Support
Technical Guidance for ANSPs, Aircraft Operators
Certification and OPS Approval Guidance for Aircraft Operators

Surveillance Environment Europe

- Good radar coverage
- Mode S radars until ~ 2025
- ADS-B / Wide Area Multilateration for non-radar areas
- ADS-B / WAM potential for terminal / en-route areas
- ADS-B expected to replace a radar layer
- Applications based on ADS-B In in the longer term





Single European Sky Implementing Rules

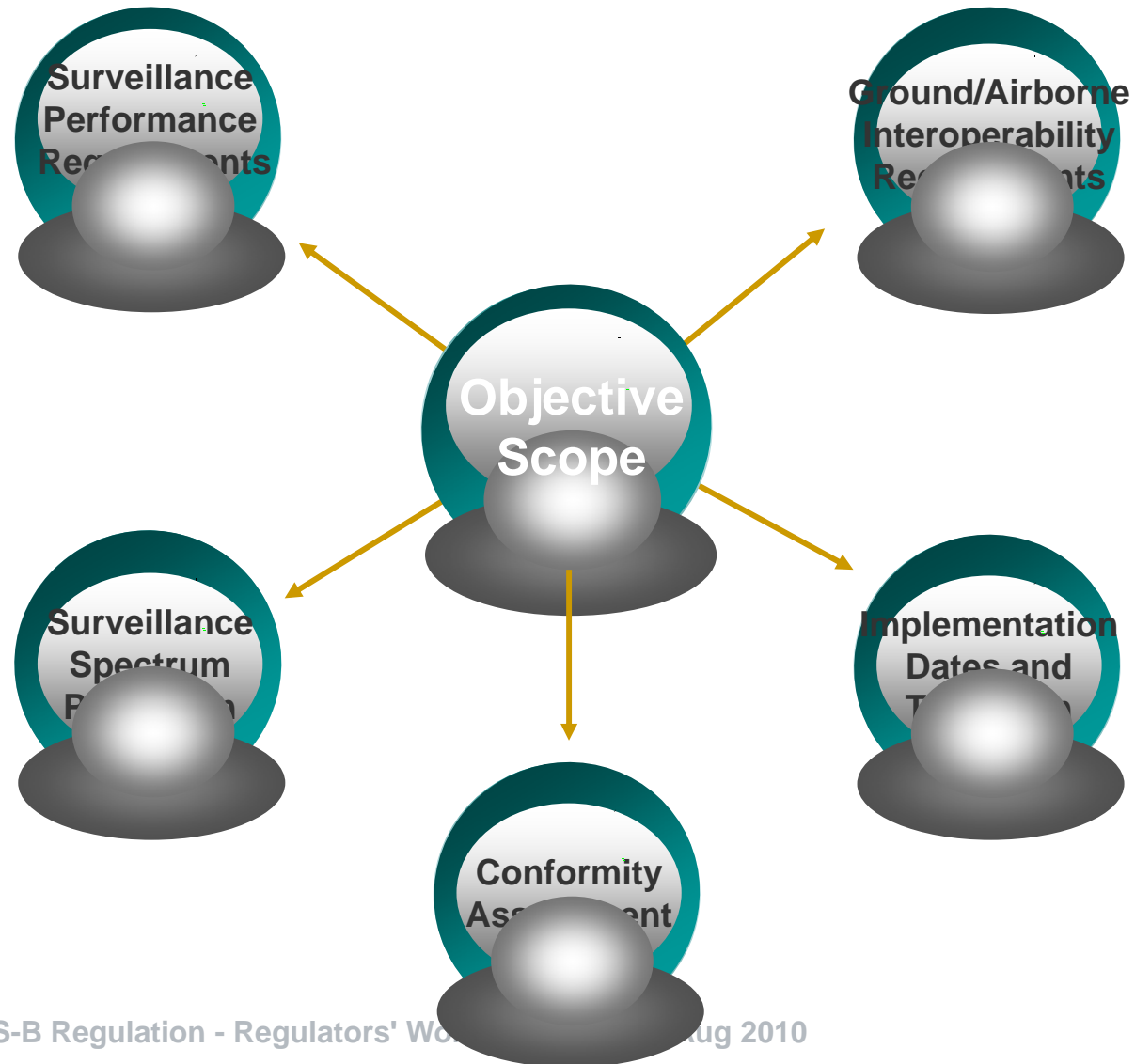
EUROCONTROL mandated by European Commission to develop Draft Implementing Rule

- Surveillance Performance and Interoperability (SPI IR)

-
- National Authorities (Civil and Military)
 - Civil and Military ANSPs
 - Airspace Users' Organisations
 - International Organisations (including NATO)
 - Military Airspace Users
 - Industry
-



Single European Sky Surveillance Performance and Interoperability



European Commission Single European Sky
Surveillance Performance & Interoperability
Implementing Rule
(SPI IR)

- All aircraft flying IFR/GAT
 - Mode S ELS
 - Mode S EHS and ADS-B Out
 - Fixed wing >5700 kg or >250kts TAS
(Option for ADS-B specific airspace mandate)

-
- | | |
|----------------------------|------------|
| ● Forward fit | 8 Jan 2015 |
| ● Retrofit | 7 Dec 2017 |
| ● ANSPs utilise ADS-B data | 2 Jan 2020 |
-

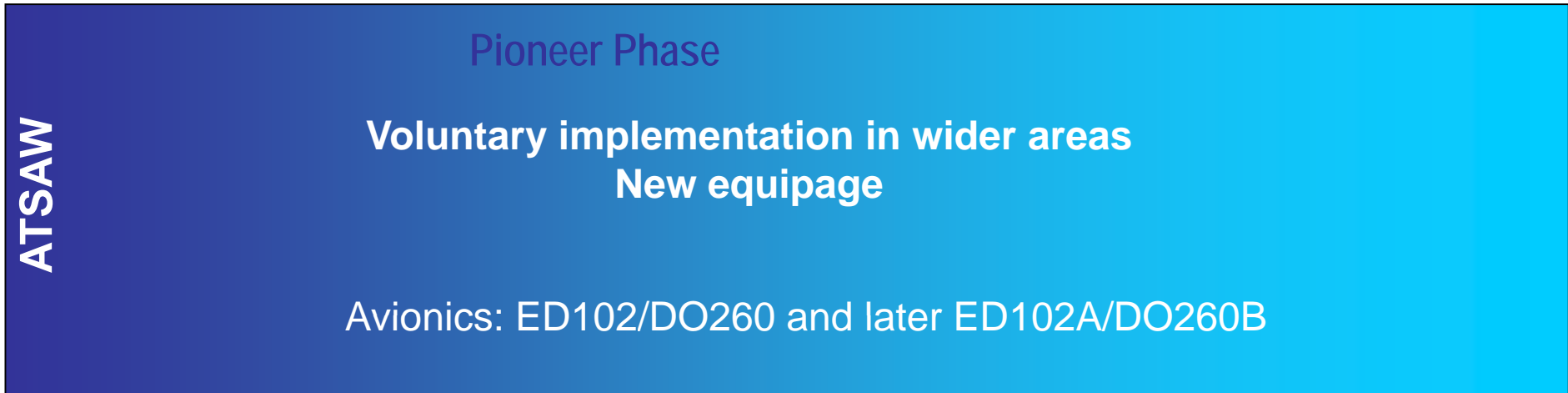
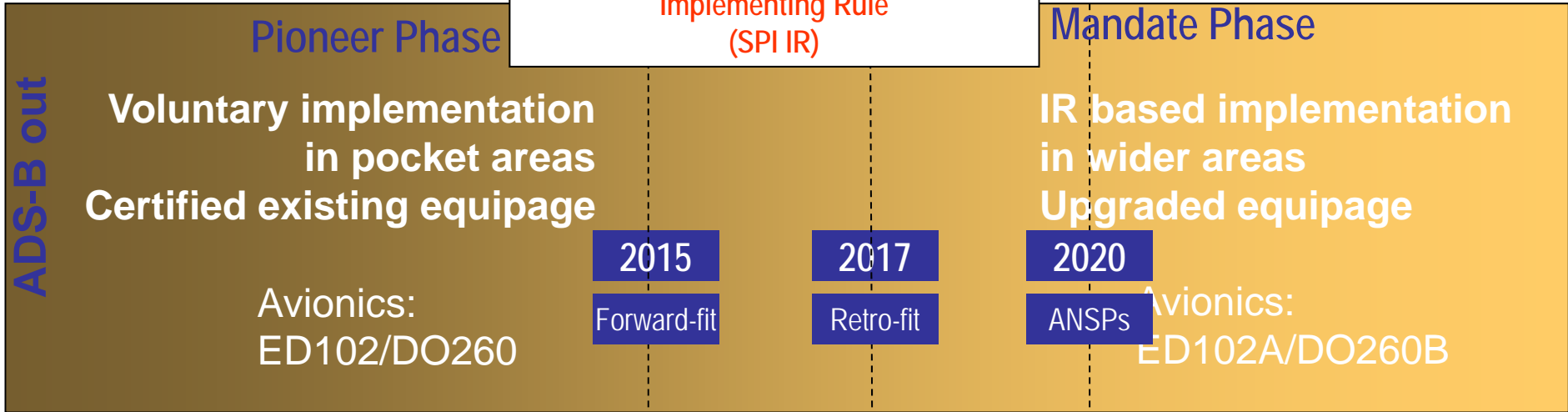


- SPI IR published in European Community Official Journal: Qtr 2 2011



ADS-B Deployment Phases

European Commission Single European Sky
Surveillance Performance & Interoperability
Implementing Rule
(SPI IR)



Single European Sky - SPI IR





Thank you