



EUROPEAN AVIATION SAFETY AGENCY  
AGENCE EUROPÉENNE DE LA SÉCURITÉ AÉRIENNE  
EUROPÄISCHE AGENTUR FÜR FLUGSICHERHEIT

# Fourth EASA International Cooperation Forum (ICF 4)

*Jussi Myllarniemi*

*10-11 June 2014, Cologne*

Your safety is our mission.



# Regulatory objectives by EASA

## EASA



Founded in 2003



Built on experience from the JAA



Located in Cologne, Germany



Staff of more than 700



Headed by Mr Patrick Ky

## REGULATORY OBJECTIVES

- To establish & maintain high and uniform level of safety
- To facilitate free movement (= recognition)
- To promote cost-efficiency in regulatory processes and avoid duplication
- To assist Member States to fulfil their ICAO obligations
- To promote Community views on safety standards and rules with 3rd countries and international organisations
- To provide a level playing field in internal market (= industry)



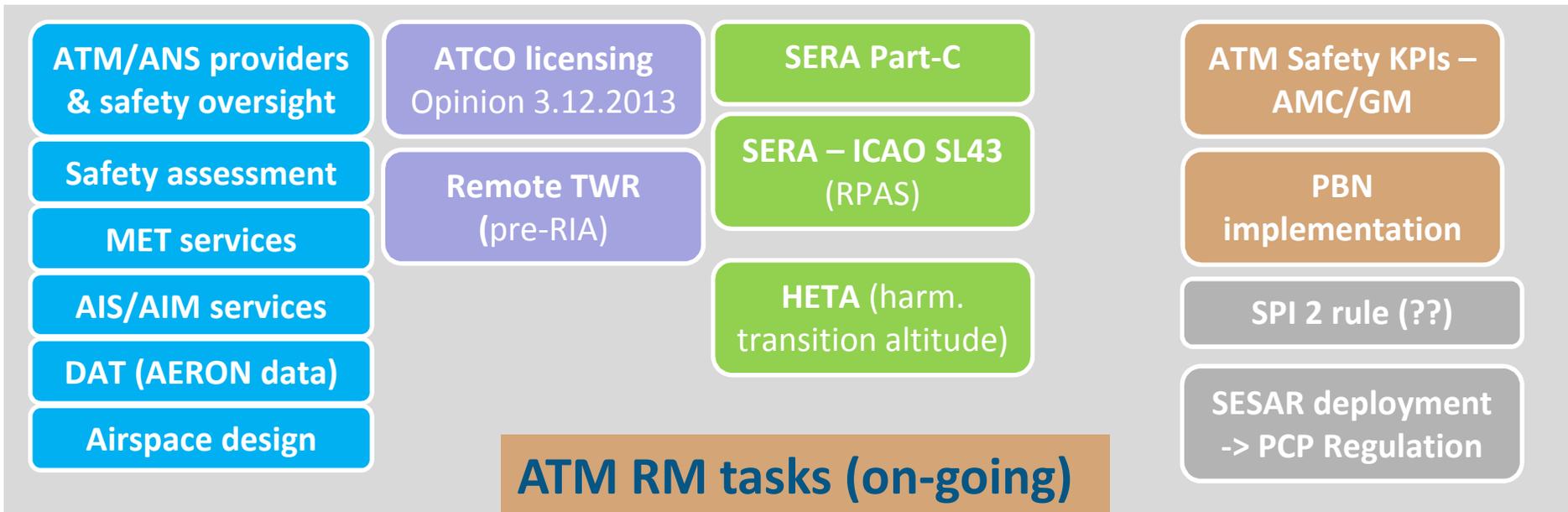
# ATM RM tasks on-going



&



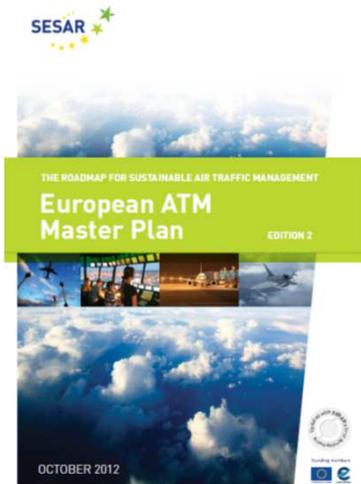
**SINGLE  
EUROPEAN  
SKY**





# SESAR deployment

## SESAR programme



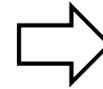
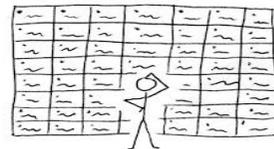
- R/D -> new EATMN
- Validations
- Proposals to implement ('mature')

Regulatory Roadmap

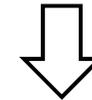
Standardisation Roadmap

So far by **EASA**;

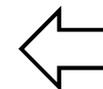
- EASA-SJU LoA
- Review of SESAR deliverables & draft technical standards



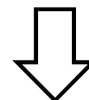
Governance framework  
Implementing Regulation (EU) 409/2013



**Common Projects**



Draft Regulation on Pilot Common Project



RMP

Rule development

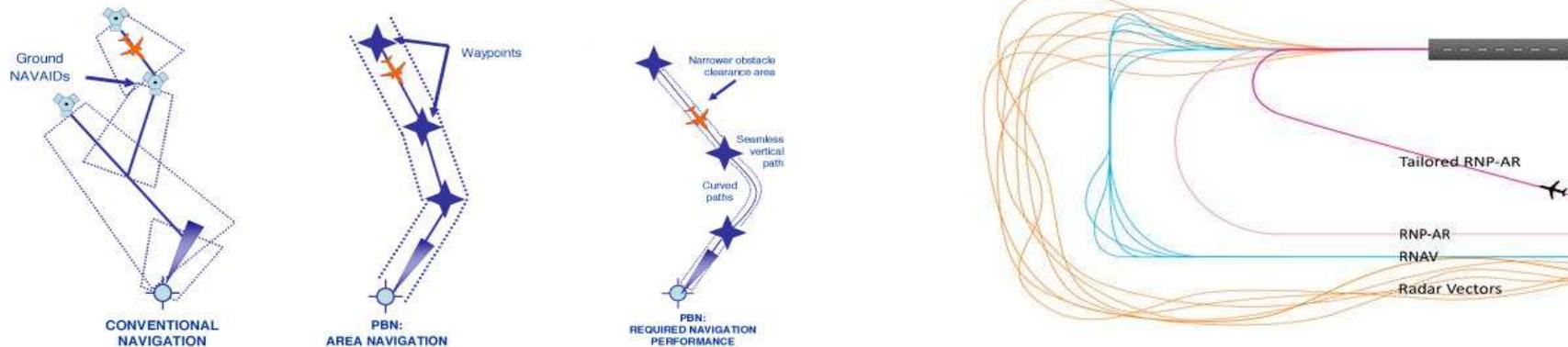
Opinion

Decision

- ✓ EASA regulatory measures
- ✓ = Deployment enablers



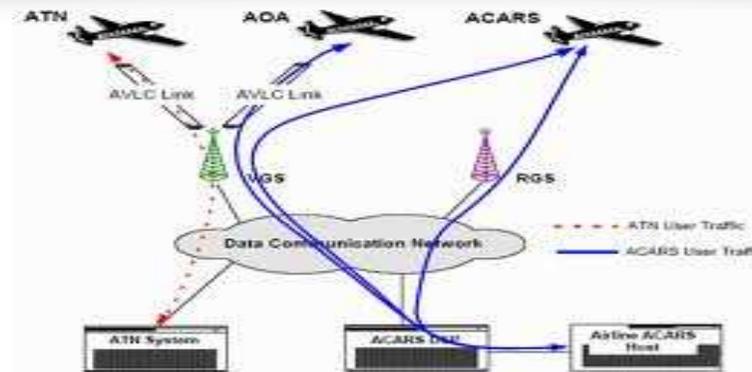
# Total systems approach – “case PBN”



- Need for harmonized and complementary set of rules
  - aircraft with required functionality;
  - flight crew and ATC trained on PBN operations;
  - consistent and safe en-route and approach/departure procedures;
  - consistent aeronautical data (e.g., databases, charts);
  - accurate and sufficient ground and space navigation infrastructure
- Deployment – technical regulation to define common standards & economic regulation for ‘what, where and when (and by whom)’



# Data Link example – lessons learnt



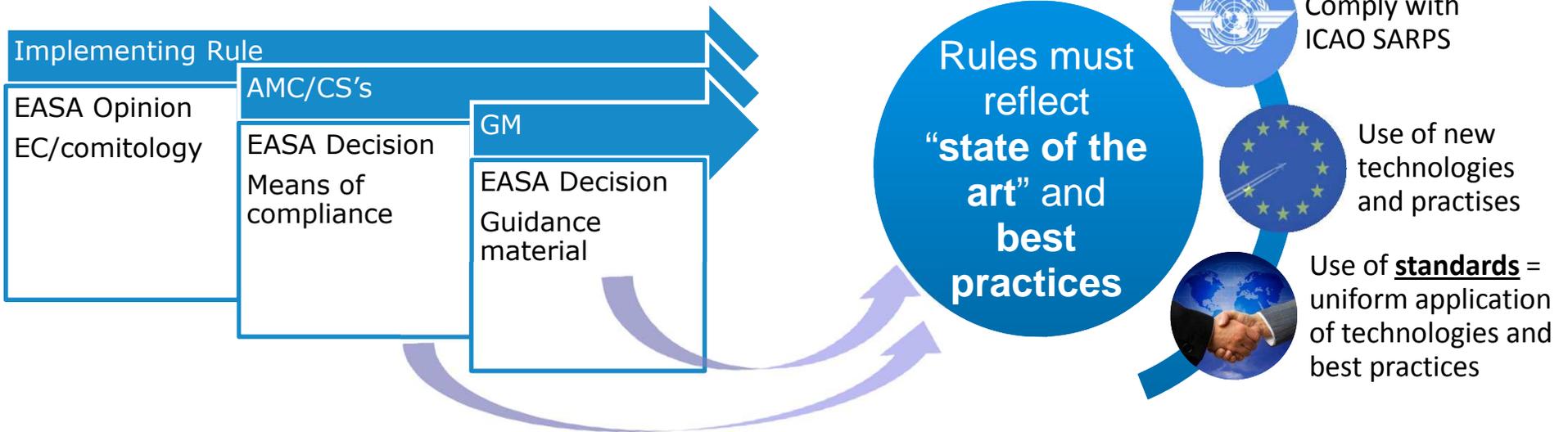
- Industrialisation has to deploy both ground infrastructure and airborne systems -> enhanced global performance needs more sophisticated airborne/ground systems' interactions
- Common concept-of-operations in EATMN;
  - 'Architect' and defined 'design' are needed
  - R&D -> validation -> centralised CBA and safety case
  - Local change management (ANSP/NSA) to 'credit' of centralised assessments
  - Common concept -> common governance to react to problems
- Total system approach ...



# Example – Remote TWR Services (1)

## Rulemaking Programme

RM task:  
Remote TWR





# Example – Remote TWR Services (2)



Pre-RIA =  
is rulemaking  
needed and when?

The screenshot shows a document titled 'European Aviation Safety Agency – Rulemaking Directorate Preliminary Regulatory Impact Assessment'. The main heading is 'Technical requirements for remote tower operations' with the reference 'RMT.0624 – 2.6.2014'. A radar chart titled 'B16' shows scores for five categories: Safety risks (20), Regulatory co-ordination and harmonisation (10), Environmental issues (10), Social issues (10), and Economic issues (10). Below the chart is an 'EXECUTIVE SUMMARY' box containing the following text:

**EXECUTIVE SUMMARY**

This proposal addresses a safety and regulatory coordination issue related to the development of new technology allowing the provision of air traffic services from a remote location, following the SESAR outcome. The specific objective is to mitigate the safety risks that could appear with the introduction of the new concept of remote tower operations and to define the appropriate regulatory framework to enable its safe implementation and to facilitate economic development.

The current safety risk level is considered to be unaffected if the identified safety risks are appropriately mitigated and an appropriate set of European safety regulations is developed.

The resulting Pre-RIA score is B16. See radar chart and Chapter 3 for the driving factors.

Based on this Pre-RIA, rulemaking is recommended.



## Example – Remote TWR Services (3)

- ▶ Pre-RIA in consultation (2.6. 2014 ->)
  - ▶ RMT.0624 on Remote tower operations
  - ▶ Pre-RIA → is rulemaking necessary? If yes, what is its priority?
  - ▶ EASA advisory bodies (States, industry) supported establishing RMT
  - ▶ Options; 1 - do nothing, 2 - flexible requirements, 3 - comprehensive req.
  - ▶ Scope (focus); single small/low-density aerodromes
  
- ▶ Regulatory aspects addressed
  - ▶ Local safety assessment; common/minimum criteria, non-ATS tasks, status of generic SESAR Safety Assessment Report
  - ▶ Approval of new technology; minimum functional/performance requirements
  - ▶ ATS and operational requirements
  - ▶ ATCO & AFISO HF and competence aspects, training requirements
  - ▶ “Interface” aspects; oversight authority, airspace users, aerodrome operator
  - ▶ Other aspects exist; e.g. societal
  
- ▶ EASA proposal
  - ▶ Rulemaking recommended; task complex, not controversial



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**Thank you for your  
attention!**

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