



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



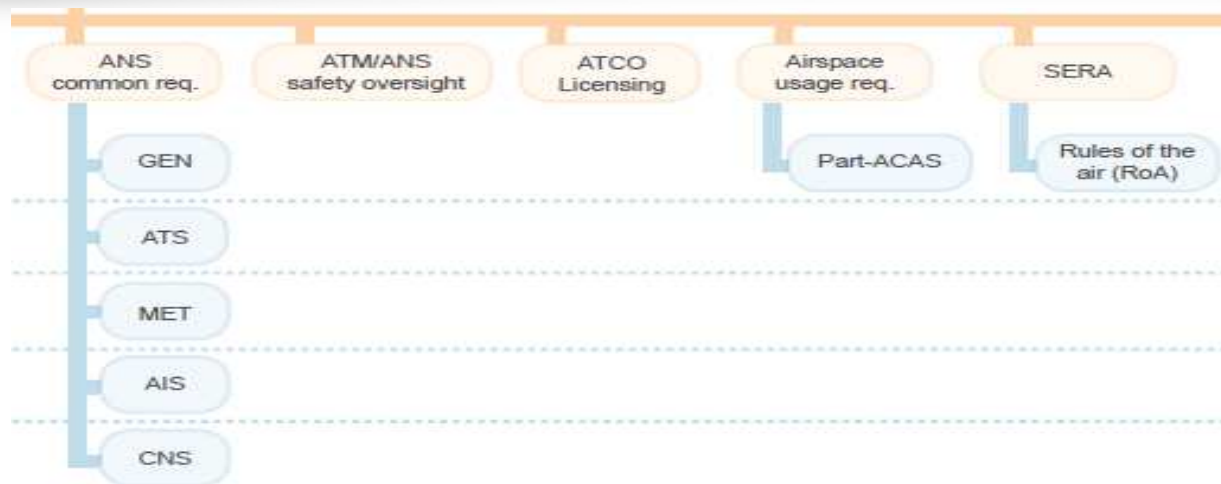
Headed by Mr
Patrick Ky

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)



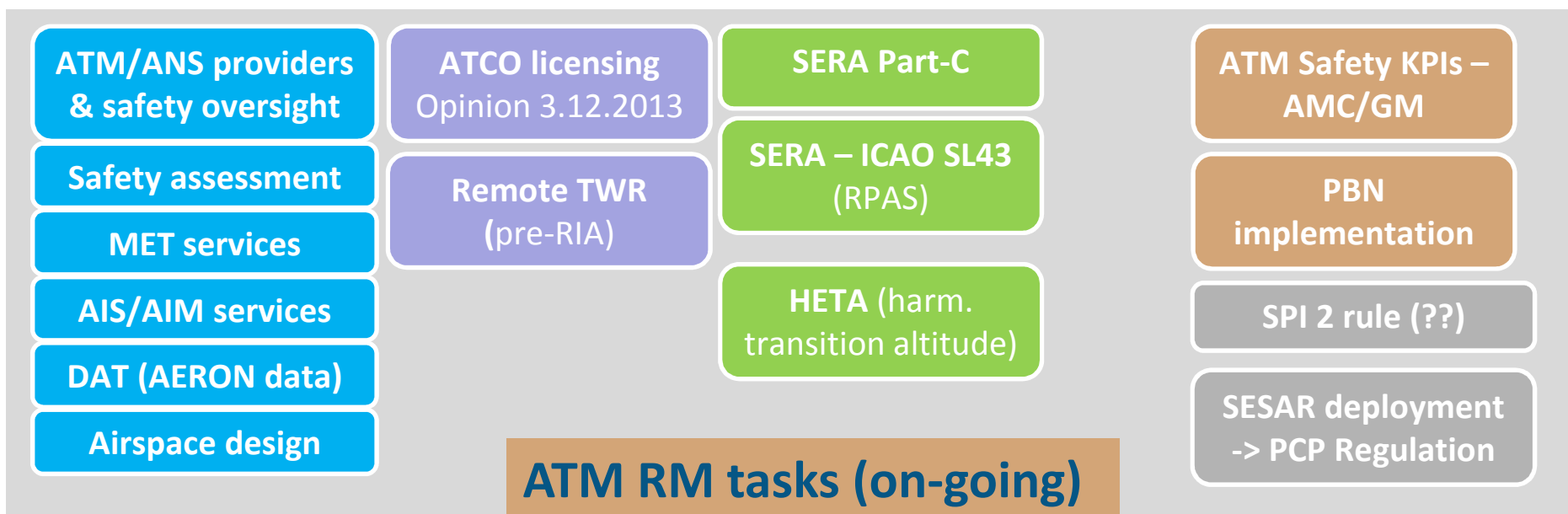
ATM RM tasks on-going



&

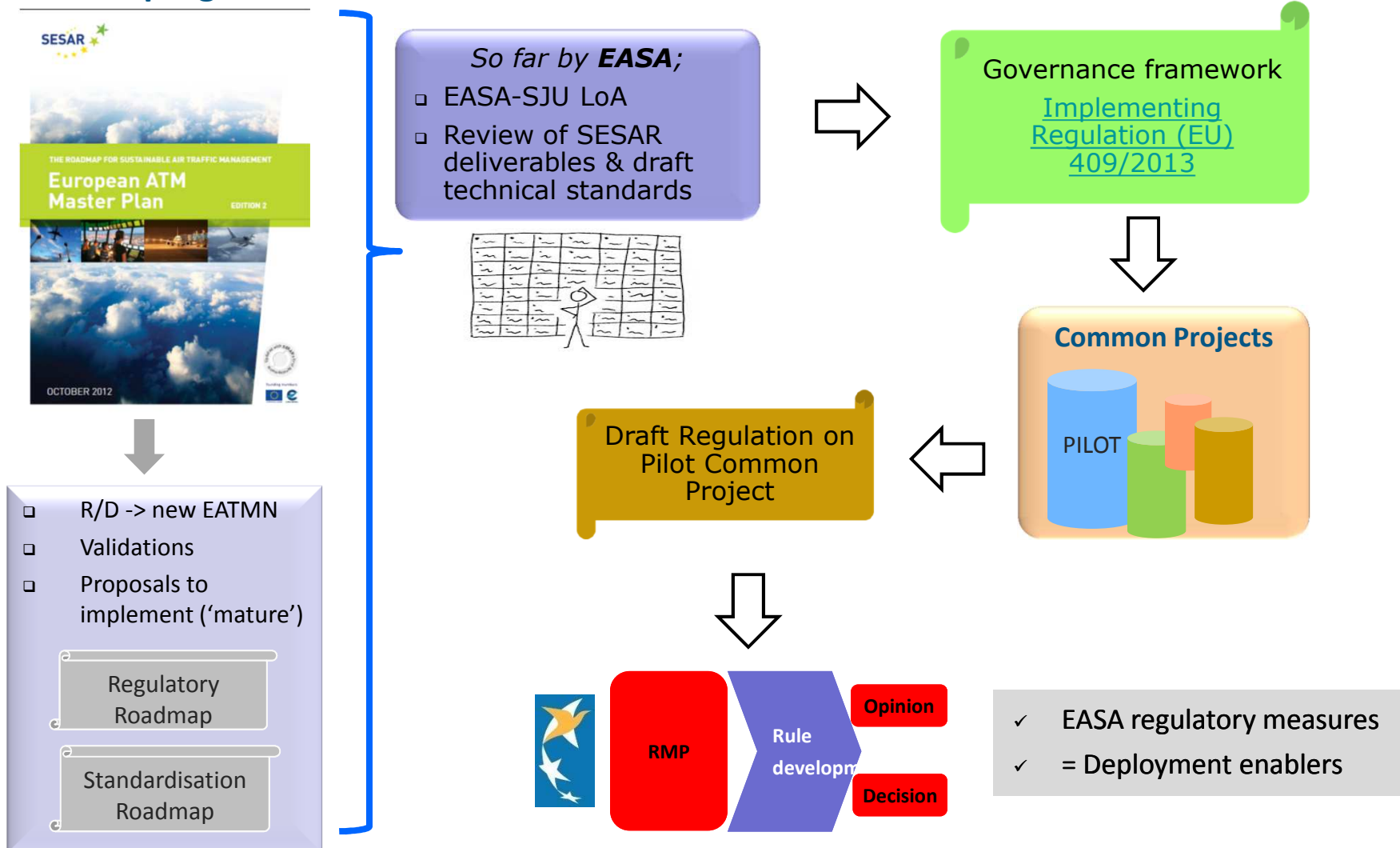


**SINGLE
EUROPEAN
SKY**



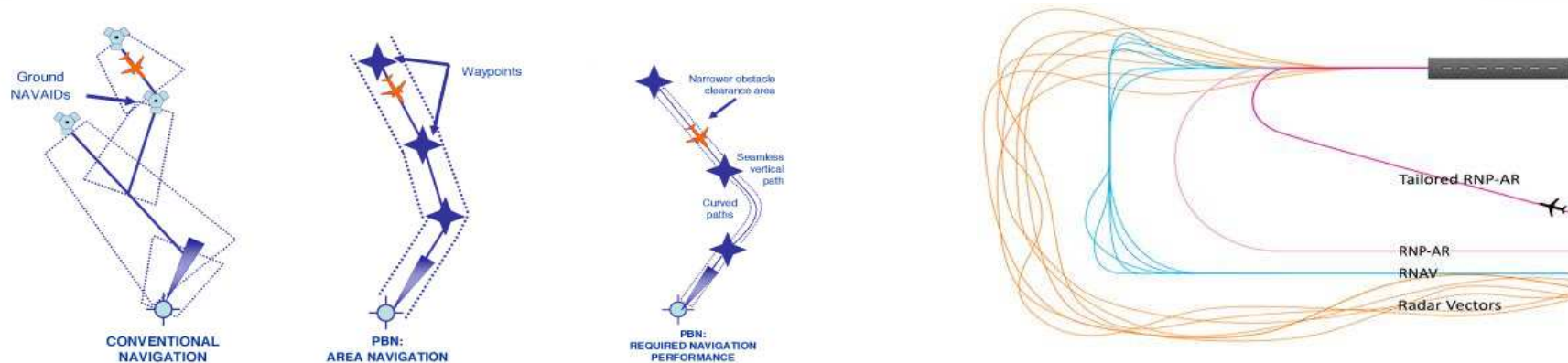
SESAR deployment

SESAR programme





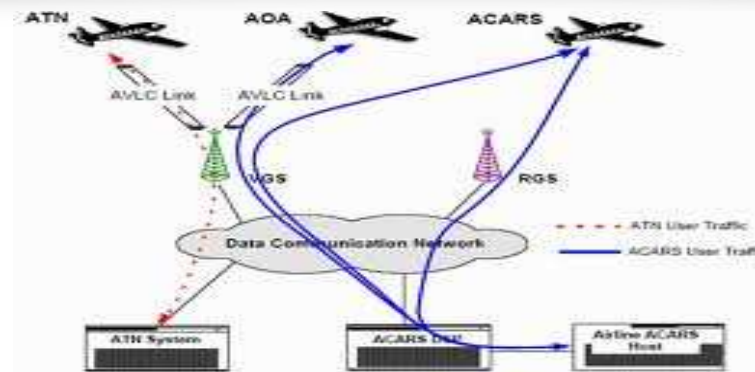
Total systems approach – “case PBN”



- 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



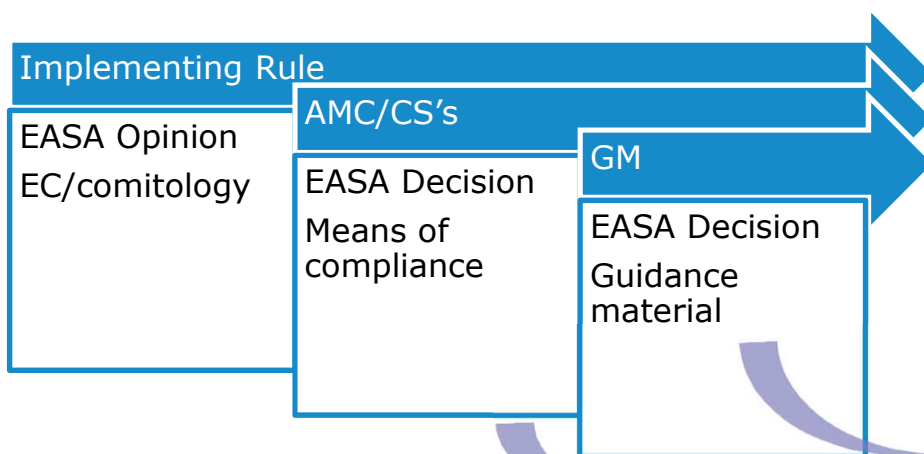
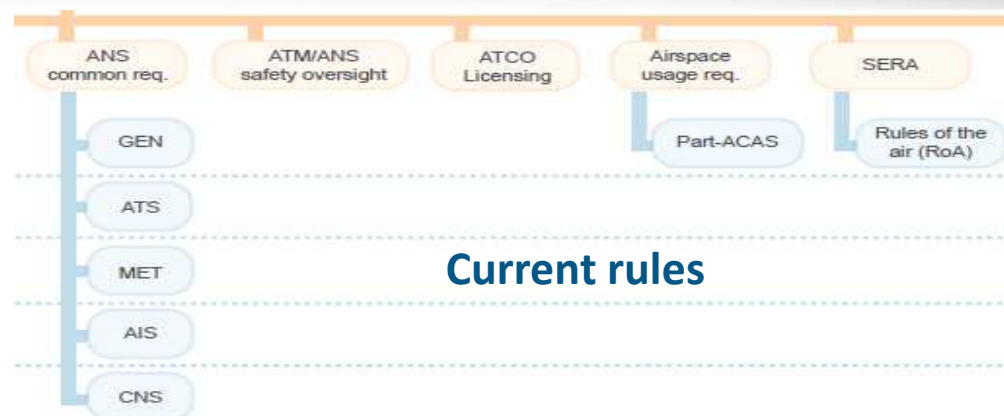
- Industrialisation has to deploy both ground infrastructure and airborne systems -> enhanced global performance needs more sophisticated airborne/ground systems' interactions
- Common concept-of-operations in EATMN;
 - 'Architect' and defined 'design' are needed
 - R&D -> validation -> centralised CBA 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



Rules must reflect
“state of the
art” and
best
practices



Comply with
ICAO SARPS



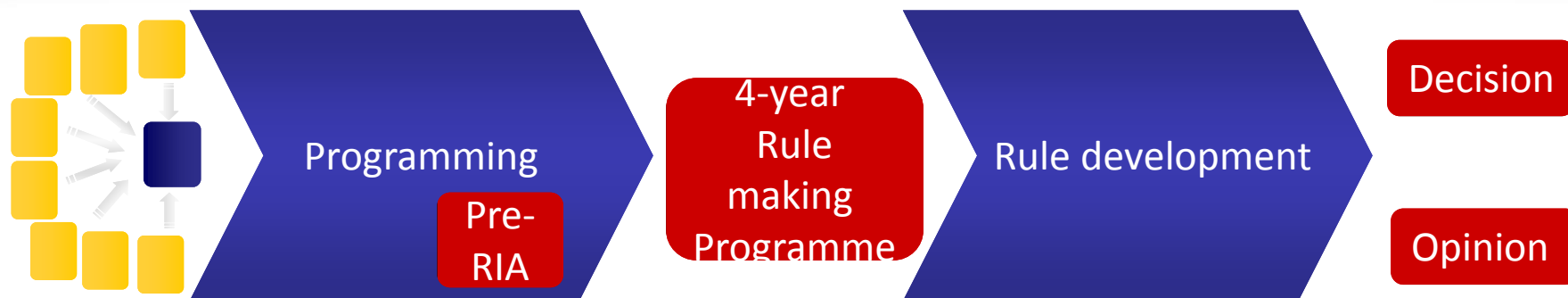
Use of new
technologies
and practises



Use of **standards** =
uniform application
of technologies and
best practices



Example – Remote TWR Services (2)



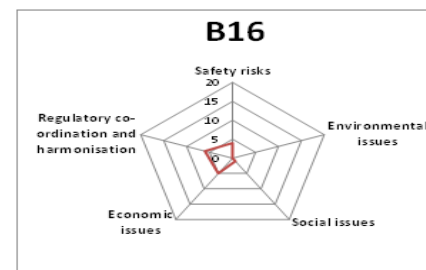
Pre-RIA =
is rulemaking
needed and when?



European Aviation Safety Agency – Rulemaking Directorate Preliminary Regulatory Impact Assessment

Technical requirements for remote tower operations

RMT.0624 — 2.6.2014



For explanation on the Pre-RIA methodology, see Explanatory Note.

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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