

Expediting Key NextGen Transformational Capabilities:

Operations Perspective The need for global harmonisation

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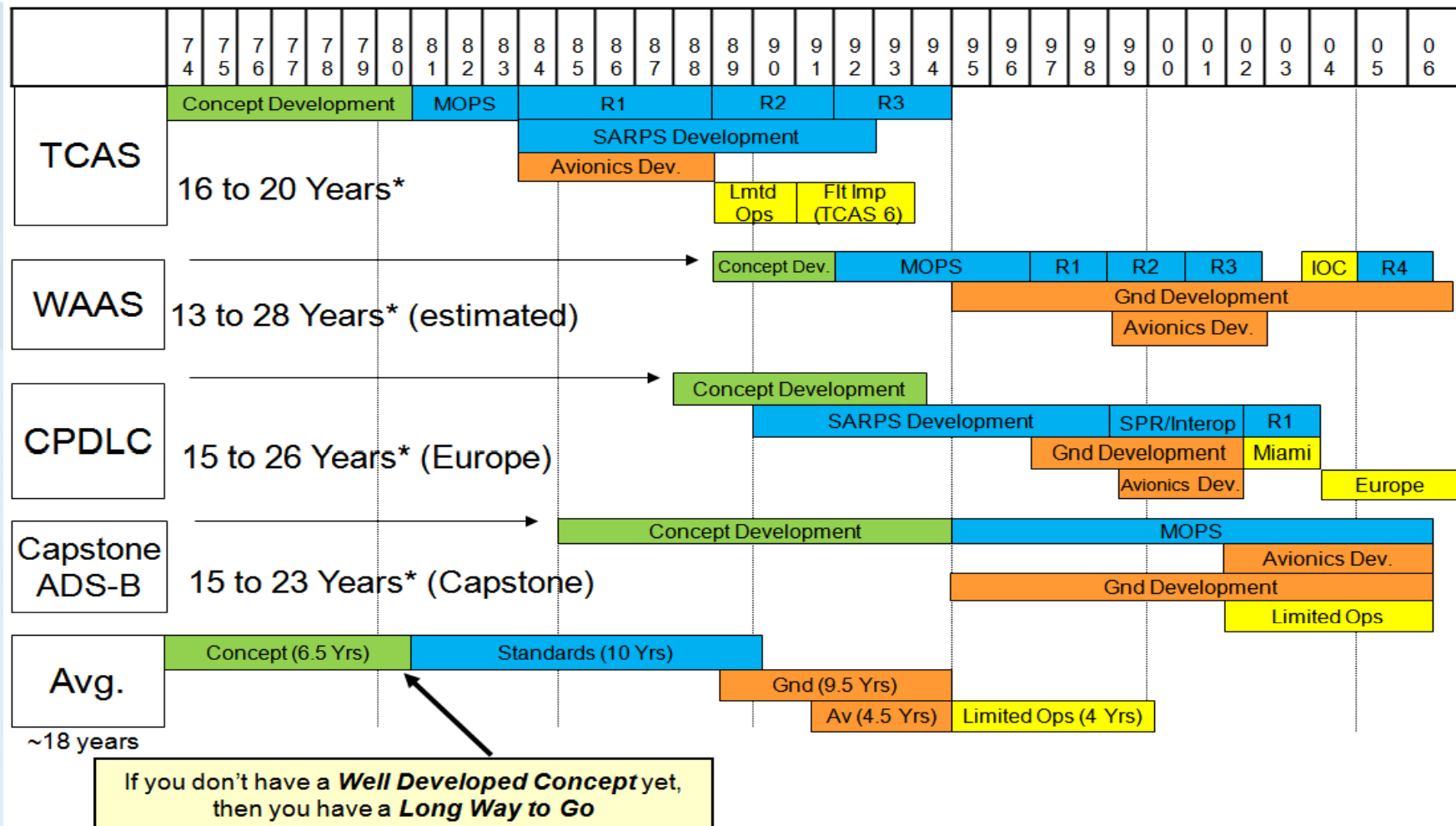
Global Harmonisation of standards and procedures

For on-time delivery of NextGen capabilities
- global standardisation becomes key issue.

Improving ATM performance will require changes to operating procedures
- for handling **multiple** aircraft operations

How to achieve global harmonisation of operational procedures **in-time** and **safely**?

Only 9 years to 2018



NextGen Avionics Roadmap v1.0 Oct 2008



International Standards

ASMGCS an illustration

- ASMGCS – improves safety
- Also can be used to improve throughput
- Use of ASMGCS to separate surface a/c not yet approved
- But capability is out there – and is getting used
- One European airport controllers have asked for changes to official procedures
- Another airport had a serious incident through lack of clear procedures...



International Standards and rule making ICAO procedures

Many European countries the ICAO Doc 4444 still the legal reference to underpin new operational procedures.

Changes will affect operators (controller, pilot and AOC) roles and responsibilities and procedures and will require some safety analysis **before** modifications to Doc 4444 can be described – takes time

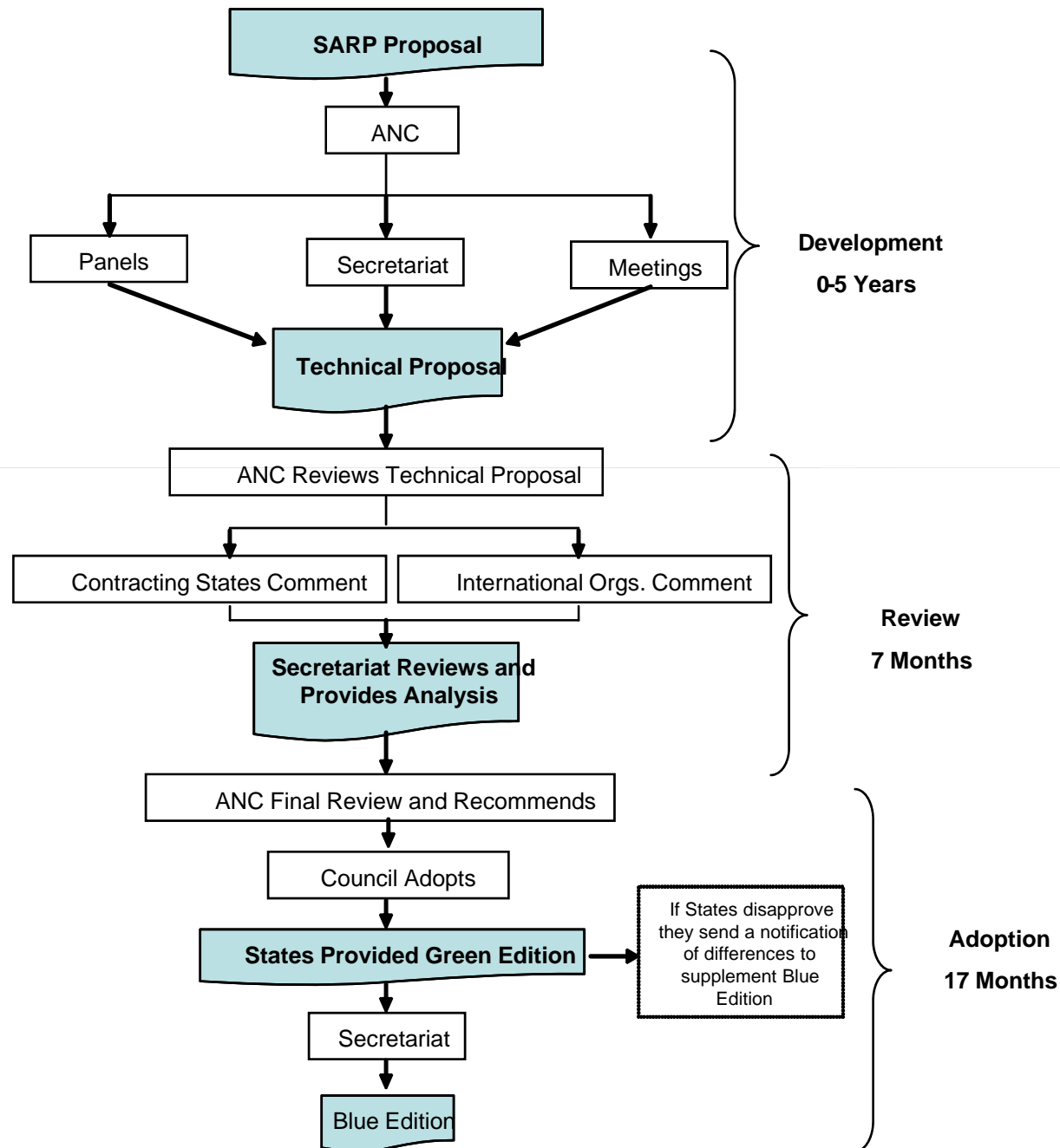
- Need to anticipate regulatory issues
- Learning curve for regulator

Need to account for

- Operator Training (incl. refresher and off-nominal situations)
- Operator Licensing

ICAO process

Up to 7 years to get approval



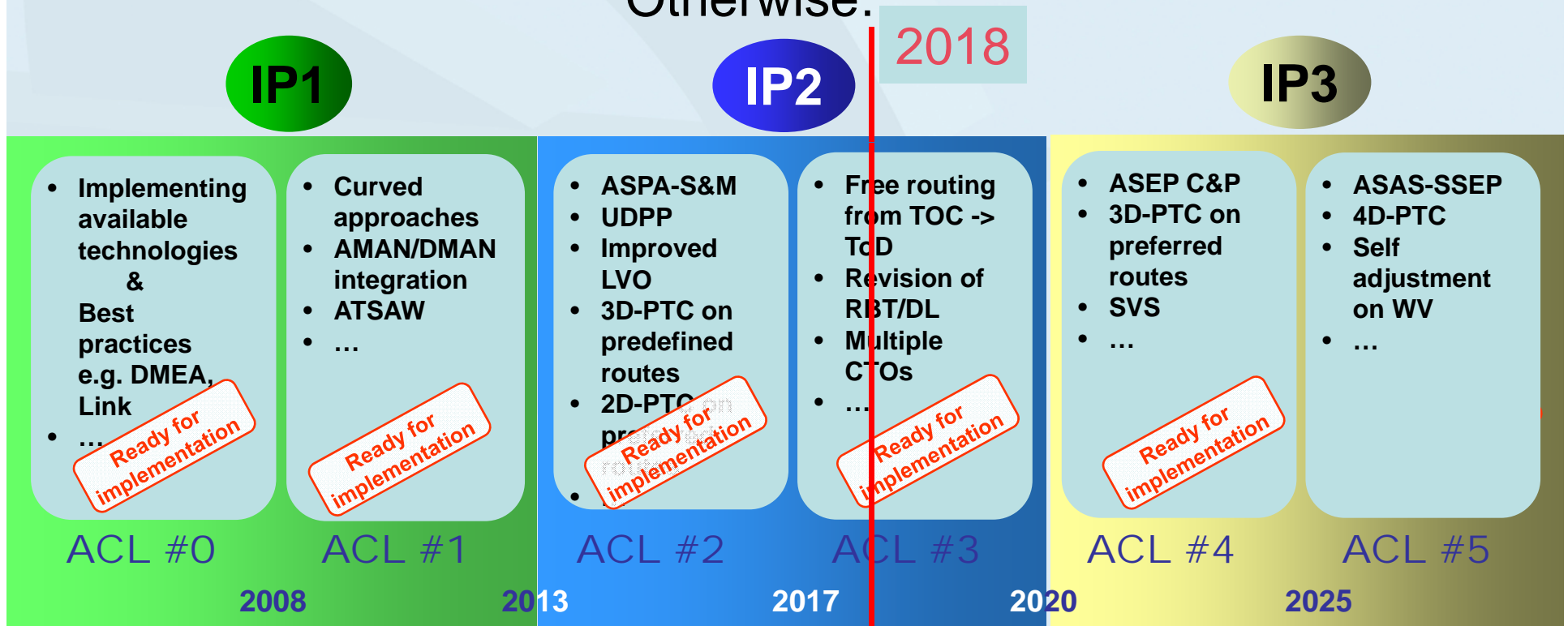
What needs to be done

- Identify procedures (& standards) that will be affected
- Identify all agencies and processes that will be involved
 - May require streamlining of some processes
- Create joint work plan (SESAR-NextGen-ICAO)

- JPDO Global Harmonisation Work Group in discussion with SESAR
 - ICAO to be involved
 - European/US Action Plans probable vehicle to prepare work for standards bodies

Ambitious deadlines

Urgent need to identify changes to international standards
Otherwise.



Thankyou

Questions

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