Track 1: Short and Mid-Term Improvements to ATM operations

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More seriously...

- How can we increase throughput, safety, efficiency and environmental acceptability of airport and en-route operations in the short and mid-term?
- Regulations (separation standards for airport departures)
  - Enhanced capabilities (navigation performances, predictability, controllability, N.B. limited in the short term)
  - Better dissemination of information (CPDM)
  - Better use of available information (decision-support tools, cooperative tools)

Short and Mid-Term Improvements to ATM Operations

Airport and En-route Improvements

- Decision-support tools: variety of approaches, not specific to US or Europe = area for potential cooperation (cross validation?)
- Validation issues: at all stages of development up to implementation (variability, representativity, field involvement...) : emergence of metrics to evaluate conflict probes
- Need for a better understanding of complexity and safety aspects
Short and Mid-Term Improvements to ATM operations

Collaborative Planning and Decision-Making
1. emerges in the US as a TFM enhancement
2. migrates to Europe as a buzzword
3. spreads in both US and Europe as a way of thinking
requires
- clarification of institutional issues (sensitivity of commercial information, security, equity, etc.)
- theoretical background (information flow, support for collaboration, etc.)
- development of new applications

Short and Mid-Term Improvements to ATM operations

- Collaborative Planning and Decision-Making
  - dissemination of information
  - enhancement of information
  - consideration of new constraints/priorities
  - delegation of decision-making

Need for US/Europe cooperation
More specific solutions
Short and Mid-Term Improvements to ATM operations

Conclusion: 4 focus areas

- Information Management
- Validation
- Decision-Support Tools
- Modeling