



US Europe AP5 Practitioners workshop

Session 7

Managing the process

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Managing the ‘process’?

Summarise the next session using the words of a famous film actor

“What does it all mean”

Austin Powers

Managing the ‘process’?

Topics

- **Validation Data Repository (VDR)**
- **Maintaining a schedule**
- **Relevancy of the work - Utility**
 - Keeping the overview
 - Maintaining relevance
 - Stakeholder involvement - requirements?

What is being 'tested'

Concepts

Too generic to test

'Conops'

'Contextual' and testable.

- **clear working procedures for 'operators' -
controllers/pilots,**
- **based upon stable simulator functional
capabilities**
- **placed into an operational context -
various detailed 'traffic scenarios'**



VDR and Maintaining Schedule

VDR

Well documented facility

Still to be fully exploited

Centralised, standardised web-based approach

Experimental design, results and conclusions

‘Maintaining a schedule’

Rate of change in ATM is slow

**Need for appropriate information to support
decision making**

Emphasis should be on quality more than schedule

Relevancy of the work

Why are we doing this?

Who are the users of the output?

What do they need?

Why? - To provide evidence to Decision makers and those with influence.

How do they express their needs?

Requirements and critical review!



'Key Stakeholders' and Criteria

Who are the Decision makers and those with influence?

Investors - ANSP's, airlines

Operators - Controllers, pilots

Users - airlines, airspace users

Suppliers - technologies

Regulators - Safety

Strategists/Planners - Eurocontrol/FAA

Have differing criteria, influence and interest depending on the application being researched

Need to determine the 'judgement criteria' of these influence groups from the outset.

Performance and behavioural requirements

Identifying key stakeholder acceptance criteria should drive performance and behavioural requirements - which in turn drives analysis.

E.g.

Airspace users - access, flexibility

Operators - usability, manageability (incl. safety).

Caution - Some stakeholders need 'numbers' but some need behavioural evidence.



Performance requirements - Eurocontrol approach

Strategic Performance
Framework
(SPF)



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**Validation Needs
(Initiate R&D)**

SPF Assessment Periods

- Period 1: 2001 - 2004
 - ECIP input for baseline and plans
 - Capacity Plans of Stakeholders
- Period 2: 2005 - 2007
 - Baseline = 2004
- Period 3: 2008 - 2011
 - Baseline = 2007
- Period 4: 2012 - 2020
 - Baseline = 2011

Most Challenging Environments

- ACCs (mov/hr, busy hour)

UnitName	2000	2004		2007		2011		2020	
LONDON ATCC	364	424	17%	463	10%	522	13%	647	24%
MAASTRICHT UAC	250	301	20%	337	12%	387	15%	498	27%

- TMAs (mov/hr, busy hour)

UnitName	2000	2004		2007		2011		2020	
PARIS ACC / ZDAP	179	207	16%	219	6%	237	9%	267	13%
LONDON FIR-FIC	234	269	15%	293	69%	329	13%	403	23%

- Airports (mov/hr, busy hour)

UnitName	2000	2004		2007		2011		2020	
Amsterdam - Schipol	105	126	20%	144	15%	170	18%	229	35%
Paris - CDG	101	119	18%	120	1%	123	3%	130	6%
London - Heathrow	91	95		98		104		112	

Thoughts

- **How to ensure that key stakeholders are involved and informed -**
 - capture performance and behavioural requirements?.
- **How to ensure a reasonable overview -**
 - ATM a rich environment with many forces and agendas - how to manage - not just analysis tools and methods?