







NEW CONCEPTS

Rapporteur's Report
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Sector-Less Air Traffic Management

Vu Duong, Eurocontrol Experimental Centre

- Flight Trajectory Based vs. Airspace Based
- Today's Sector → Super Sector → Mega Sector → Sector-Less

Promising

Proposes a paradigm change

Open Questions

- Role of ATCo in sector-less environment
- Transition from "convoy MSP" to sector-less

Very early work ... which should continue









Automated Airspace Concept

Heinz Erzberger, NASA Ames

- Ground Based Trajectory Monitoring
 - Automated Airspace Computer System +
 - Tactical Separation Assisted Flight Environment System +
 - Ground-to-Air Datalink = Separation Assurance

Promising

New concept relying strongly on automation, progress on failure modes

Open Questions

- Mixed (equipped vs. non-equipped) traffic
- Role of automation vs. human controllers
- System and functional reliability

Very early work ... which should continue









Recommendations

Sector-Less

- Concentrate on operational issues in sector-less mode rather than working on transition issues
- Continue Investigation on operational issues for super / mega sector concept (convoy)

Automated Airspace Concept

- Continue investigations on
 - failure modes
 - operational issues for mixed traffic

Both concepts are promising and are addressing limitations in sector capacity - we recommend increased collaboration!