

UNPACKING SESAR SOLUTIONS REMOTE TOWER SERVICES

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Airspace users view

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Ryanair

Hosted by:



#SESAR

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Europe's favourite low fares airline

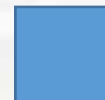


The benefits of Remote Towers



The benefits of utilising technology (rather than steel and concrete) are:

- Reduced capital expenditure
- Reduced operational expenditure
- Greater flexibility and higher safety levels
- Enhanced controller tools such as enhanced runway incursion monitoring.



But.....



- **SEASAR has not delivered**
- **Massive cost for Airlines with no return**
- **Tied up in EU bureaucracy**
- **ANSPs not investing/ ATC unions striking**



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The question for Airlines



- Is the technology there to support Remote Towers ?
- Is the safety technology available for aircraft ?
- Is the safety technology available for ANSPs ?



Technology



- Human interface
- Stronger, Faster, Higher, Deeper
- Better task management
- Improved situational awareness
- Increased safety margins
- Reduced risk
- Cost effective

Rockwell Collins Enhanced Vision System



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Airborne Safety Nets



- Transponder Collision Avoidance System (TCAS)
- Enhanced Ground Proximity Warning System (EGPWS)
- Global Navigation Satellite System (GNSS)
- Predictive Windshear System (PWS)
- Runway Awareness and advisory System (RAAS)



Ground based Safety Nets



- Short Term Conflict Alert (STCA)
- Area Proximity Warning (APW)
- Minimum Safe Altitude Warning (MSAW)
- Approach Path Monitor (APM)
- Advanced Surface Movement Guidance and control system (A-SMGCS)
- Runway Incursion Monitoring and Collision Avoidance System (RIMCAS)



Luton Airport A-SMGCS

Benefits



- Safer, advanced technology
- Greater efficiency-Low
- No more ivory towers
- Off site locations
- Cost effective contingencies
- Better resource management
- Shared services
- Multiple applications



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Thank You

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