

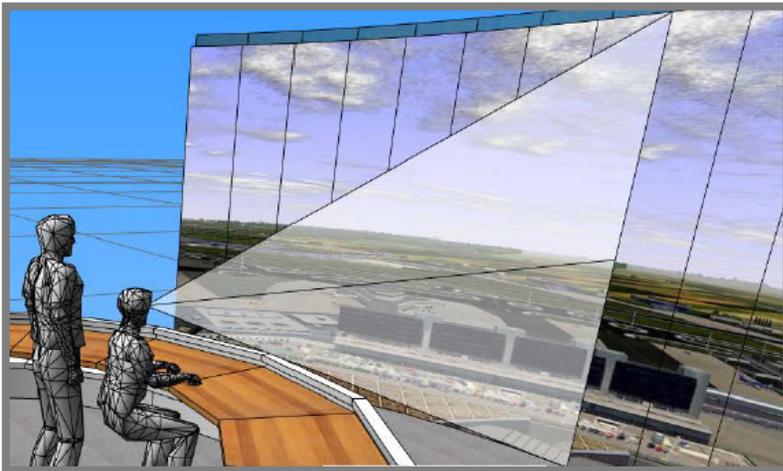
Enhancing Safety – Contributing through Centre of Excellence for Air Traffic Management

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Enhancing Safety; Increasing Capacity and Efficiency

- Need to maintain high level of safety, as air traffic grows – latest GASP
- This also involves growing capacity and improving efficiency, including through advancing and harmonising air traffic management (ATM) - latest GANP and ASBU
- States can contribute through driving and facilitating the development of new and better capabilities and solutions

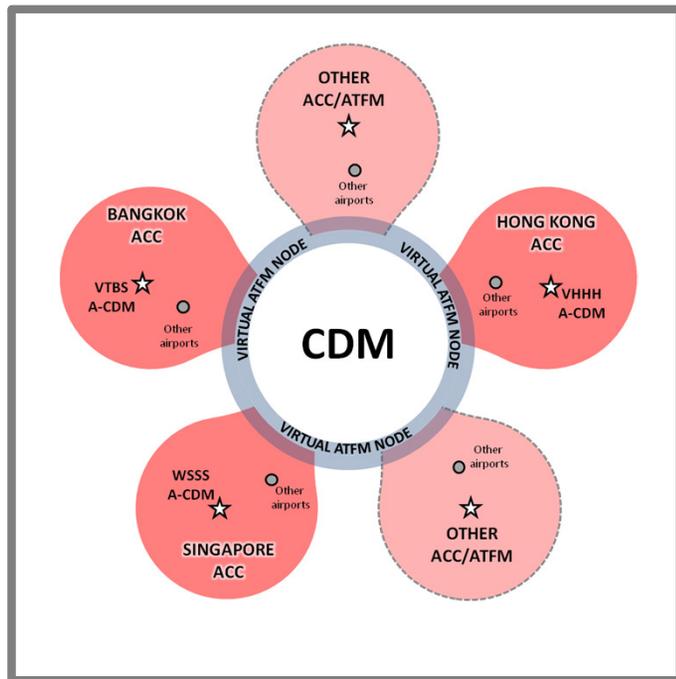


Tower Simulator at ATM Research Institute

Source: DLR

- Singapore has established Centre of Excellence for ATM
 - Ecosystem of research institutes, academia, think-tanks and industry
 - Research and development
 - Solutions for Asia-Pacific region

Air Traffic Flow Management – Collaborative Decision Making



A Distributed Multi-Nodal ATFM network

- ATFM balances capacity and demand
- A new solution for ATFM leveraging CDM for Asia-Pacific being developed
- Through the CoE for ATM, concept of operations for a multi-nodal ATFM developed in collaboration with Airbus Prosky, AEROTHAI and Hong Kong CAD
- Operational trial of ATFM demonstration system based on the ConOps involving various stakeholders scheduled in June 2015

Data Sharing and Analysis

- Data sharing within region / sub-region for enhancing safety and ATM
- RASG - Asia-Pacific initiative to enhance safety through regional data collection, analysis and information sharing
 - Demonstration system being planned
- ASEAN initiative for ASEAN ATM modelling and simulation to analyse air traffic flows into the future
 - Tool being installed in ATM Research Institute in Singapore

Enhancing Aviation Safety through Innovation and Partnership

- ICAO leadership and active participation by States and Regions
- As States put in place fundamental safety oversight system and State Safety Programme, States can also contribute to enhancing aviation safety into the future through driving and facilitating initiatives
- Centre of Excellence for ATM provides nexus for innovation and partnership
- Common goal of all States and the industry to enhance aviation safety