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

Ho Wei Sean
Head (Centre of Excellence for ATM Programme Office)
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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

• 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

Tower Simulator at ATM Research Institute
Source: DLR
Air Traffic Flow Management — Collaborative Decision Making

- 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 Prosly, 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