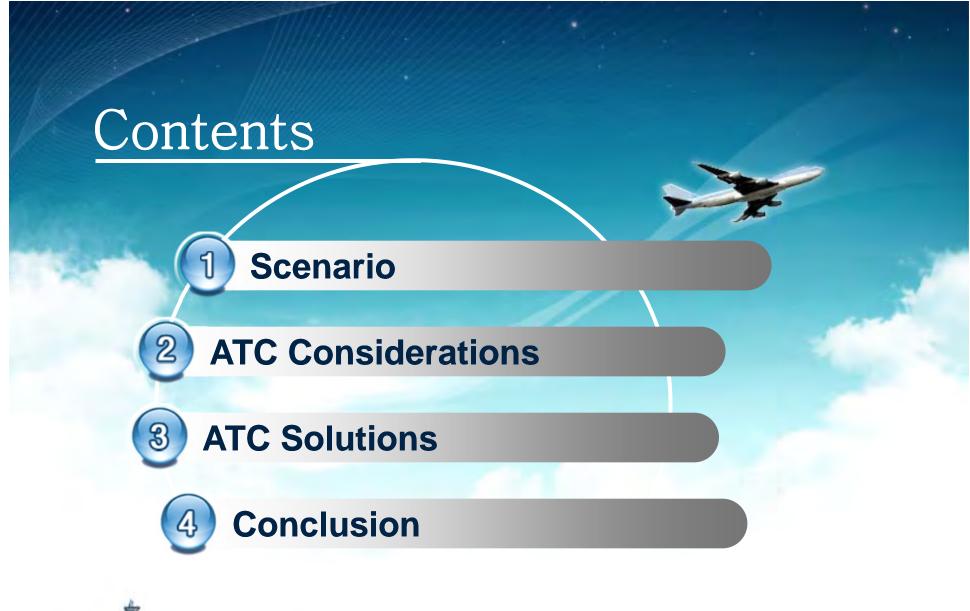


-Taking a Collaborative Approach-

Presented to RRSS By Kyung SHIN
Assistant Director, KOCA, MLTM
22th, May, 2012



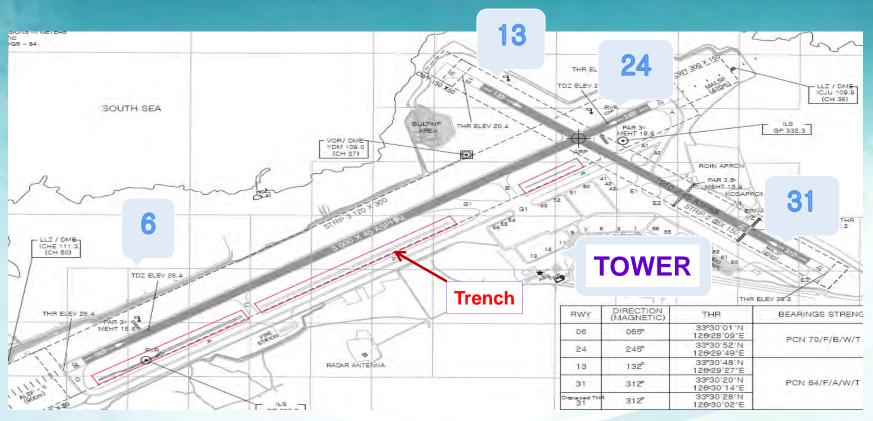




### > Scenario

#### Construction Plan

> A trench was dug across one of the runways





### Scenario (Cont'd)

#### Construction Plan

- To recovery work schedule
  - From 21st March 2012 until 31th March
  - > During between 1300 UTC and 2100 UTC daily
  - > Except for aircraft with prior notice 30 minutes



### Scenario (Cont'd)

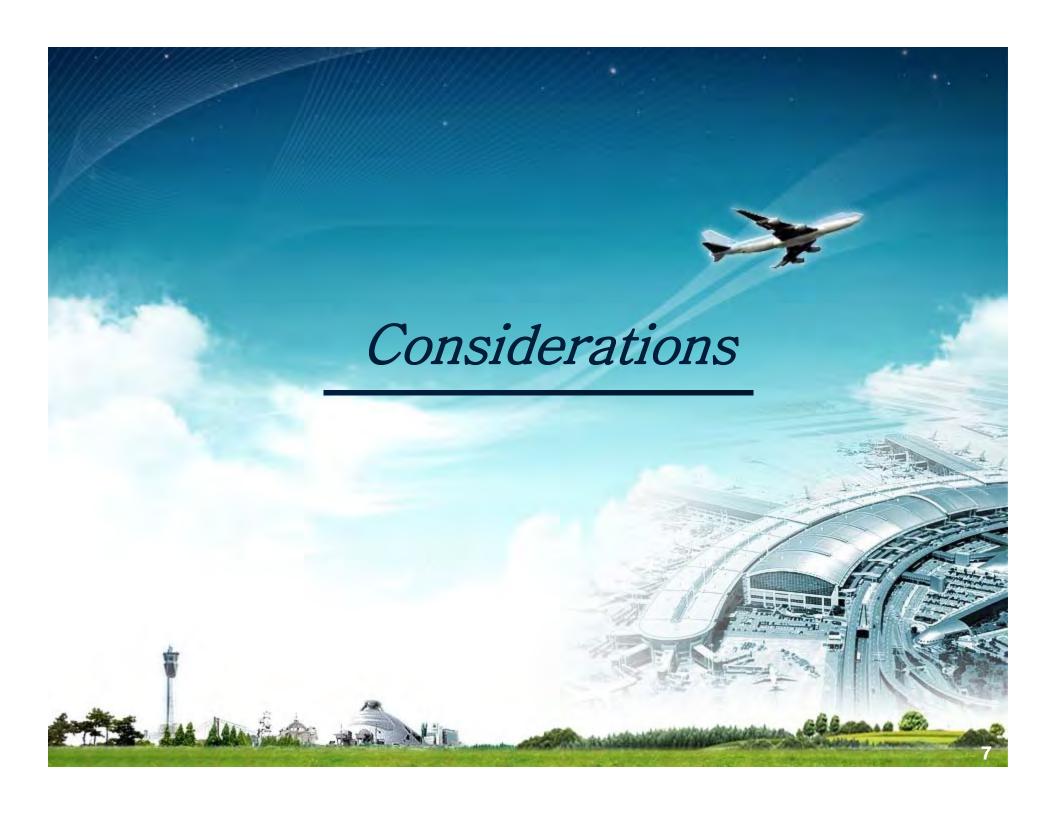
- Review Runway
  - Cross Runway
    - > Runway 6/24 (3,180 x 45)
    - > Runway 13/31 (1,910 x 45)
      - ✓ Both runways are activated
      - ✓ But, Use Runway 6/24 primarily
- Traffic Management
  - 5 ATCs work in tower
    - Handle approximately over 350 traffics/day
      - ✓ Max. 34 aircrafts / hour



### Scenario (Cont'd)

- Normal Procedure
  - Stop take off and land
  - ✓ Holding traffics
  - > Check the happening
  - > Decide close the runway or not
    - ✓ To notice if the runway is closed
  - Change ATIS
  - Manage traffics



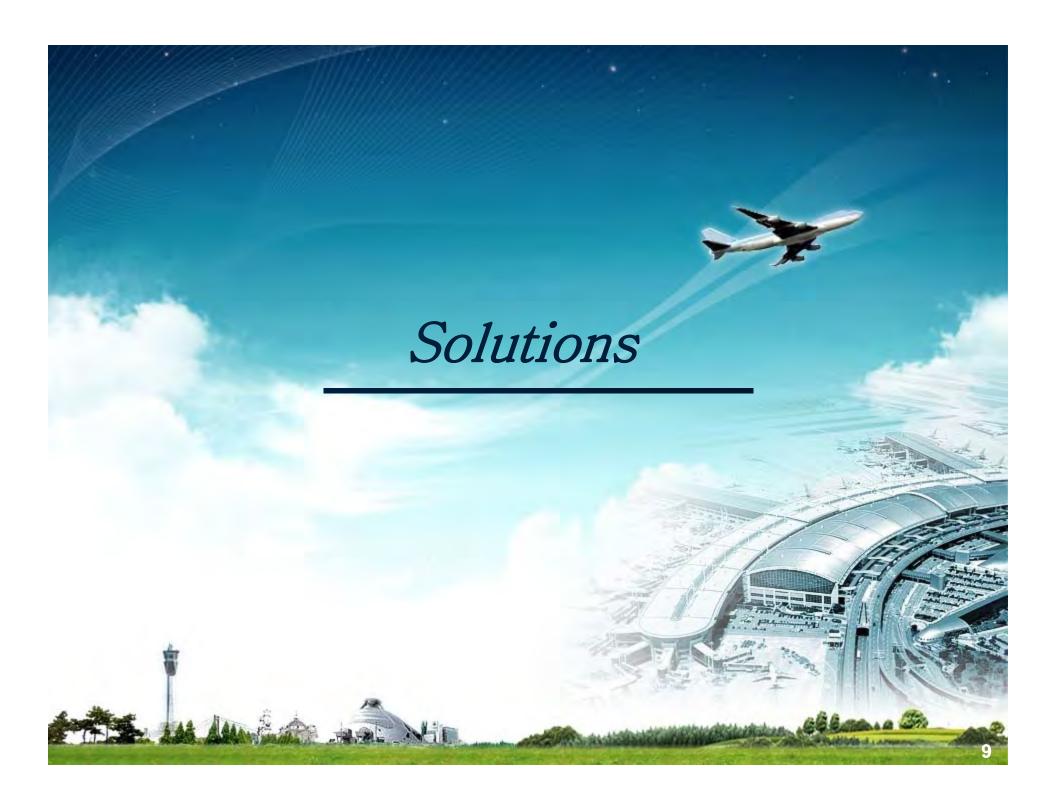


### CC

#### Considerations

- Tower Staffing Plan
  - Additional ATCs
- Taxi and Ground Movement Plan
  - > Need a single point of access/exit
- Need for up-to-date information
  - Develop "Briefing Package" for ATC



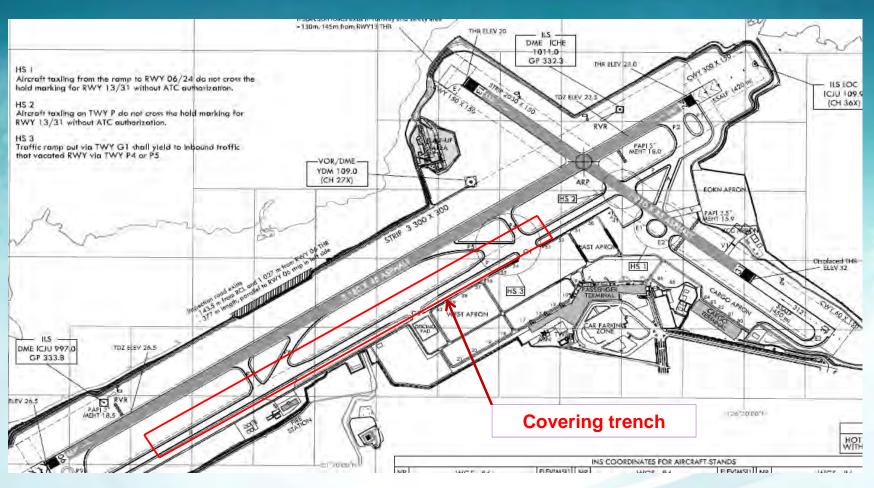


### > Solutions

- Safety ensure procedures
  - Take safety education
    - ✓ SOP, Safety seminar, Simulation training...
  - > Make Quick Reference Book
  - Understand ATC Communication
    - ✓ Standard Phraseology
  - Mitigation hazards
    - ✓ NOSS,...



#### Construction of covering trench







Safety efforts





#### Safety efforts





#### Stop bar

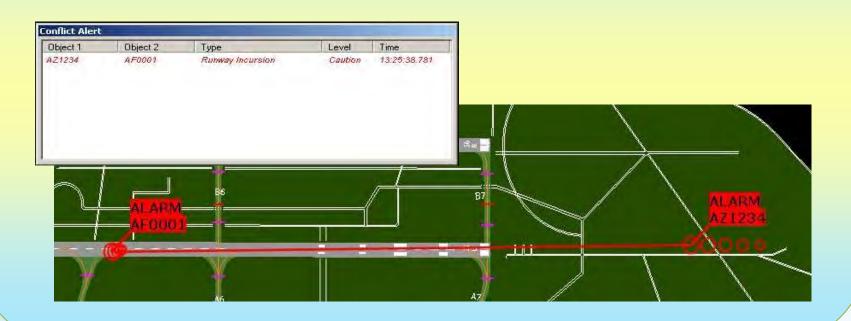
- > STBs are installed at all runway access points.
  - ✓on/off automatically or manually







- Surface conflict alarm
  - > Sound Alarm
  - **≻Pop-up alert window** 
    - √ Alert do not stop until acknowledge







- Surface prevent beam (in the future)
  - Using Laser beam
    - ✓ When the ATC clearance issues,
      To prevent incursion for stopbar
  - Using Sound alarm
    - ✓ When the ATC clearance issues,
      To prevent incursion for vechles' drivers





### Conclusion

- ❖ As the air traffic volume grows, the chance of accident also increases.
  - Runway incursions have been identified as a major hazard to the safety of aircraft worldwide.
  - To prevent runway incursions, we have proper operation procedure and advanced surveillance System.
    - ✓ Consist of RST for standardization, Harmonization





# Thank you

