

Airports and Airlines' Measures on Preventing Runway Incursion and Runway Excursion

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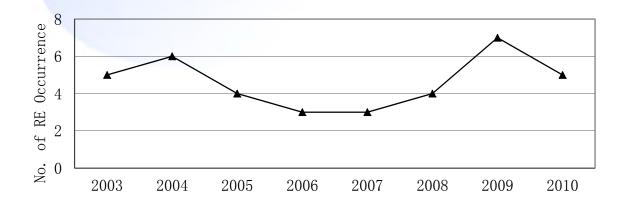
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1. Background









2. Deployment by CAAC

CAAC issued *China Civil Aviation Runway Safety Plan* in 2008.

- Administration and responsibility;
- Requirements of operation;
- Risk management;
- Supervision and inspection;
- Human factors;
- Information management;
- Education and training.



2. Deployment by CAAC

CAAC revised *Civil Airport Aircraft Movement Area Technology Standard* in 2009.

- Signal facilities and marking;
- Taxiway signs;
- Visual aids on restriction area.

CAAC developed an *Administration Program for Preventing RI By Airport's Vehicles and Persons* in 2011.

- Runway Safety Team;
- Requirements on operation of vehicles and persons.



3. Training in Airline

RI

Runway-holding position marking
Use Taxi route map
Non-suspend air construction notice

RE

- Stabilized approach
- **Go around firstly**
- Call out actively
- Brake use regularly
- Relation between RE and others
- Psychology



3. Training in Airlines

Standard Control in Takeoff and Landing

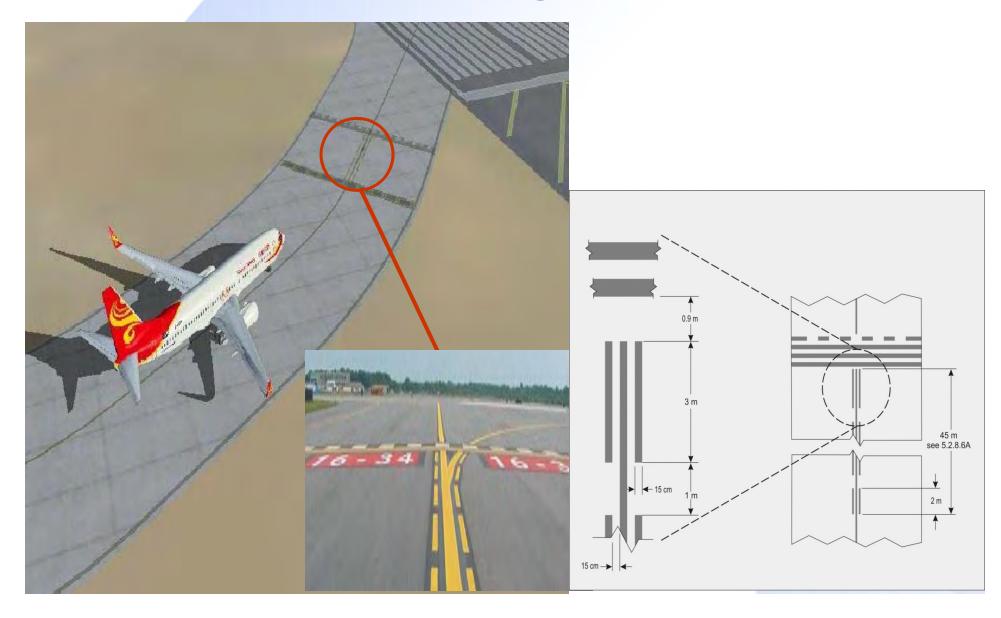




All pilots have accepted the training



3. Training in Airline

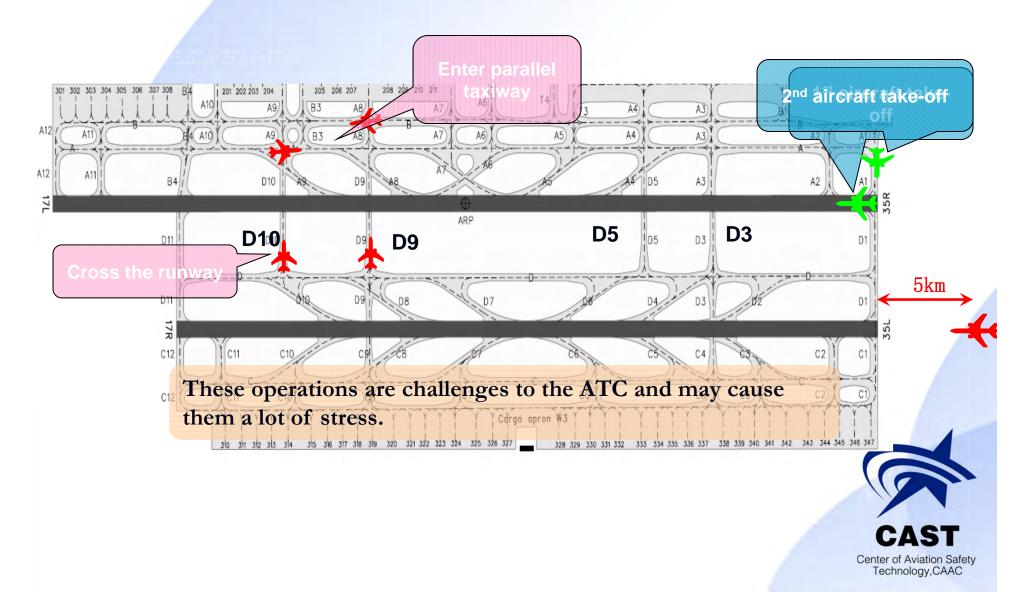


4. Measures for Airports

Design, Layout and Operation Visual aids EMAS



Design, Layout and operation

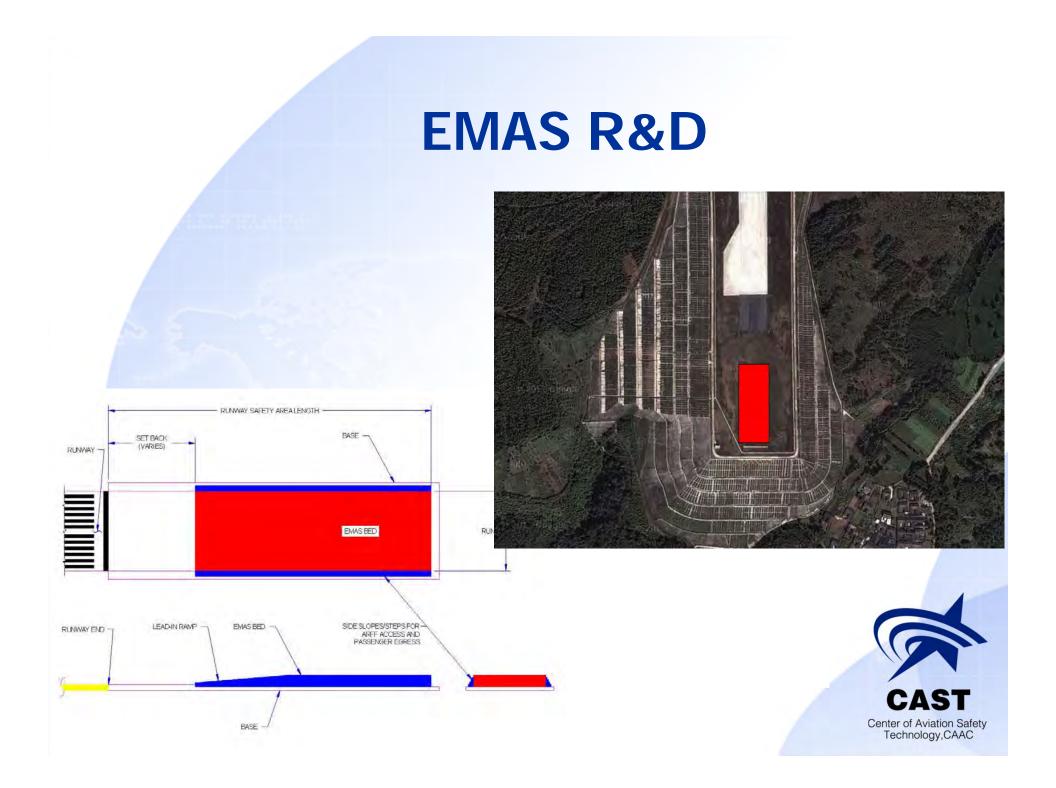




Center of Aviation Safety Technology,CAAC



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EMAS R&D

6 demonstration tests in 2011
20 to 60 kt

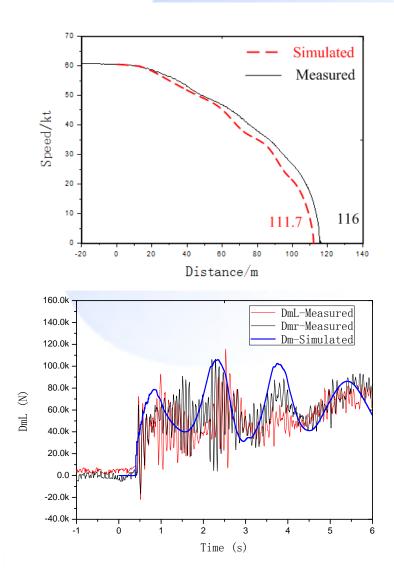




materialsmodelsafety



EMAS R&D



- Material productivity (quality assurance system)
- Ability to design the system(accuracy)
- Design methodology
- Specific design scheme(rationality and feasibility)

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5. Future Development

From plan to reality
From training to use
From technology to standard



