Innovation in Aviation Security



October 22, 2014

ICAO Symposium on Innovation in Aviation Security



PRESENTATION OVERVIEW

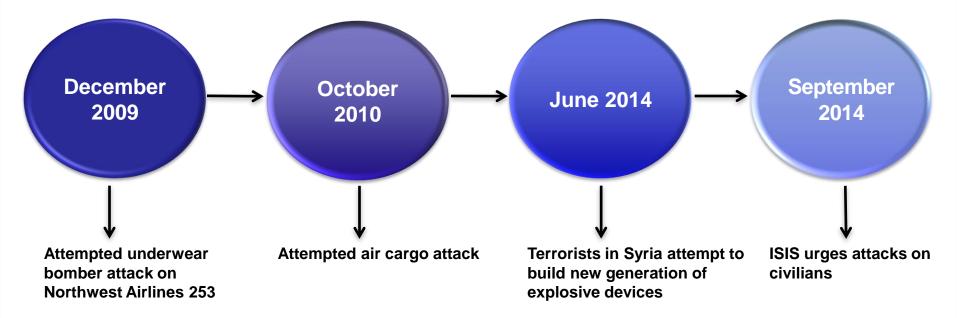
- Context
- The Threat
- Risk-Based Approach
- Industry and International Engagement
- Technological Innovations
- Challenges and vulnerabilities

CONTEXT

- Economic importance of air transportation
- Opportunities for the future
- Regional growth rates

EVOLVING TERRORIST THREAT

• Terrorists are still focused on civil aviation



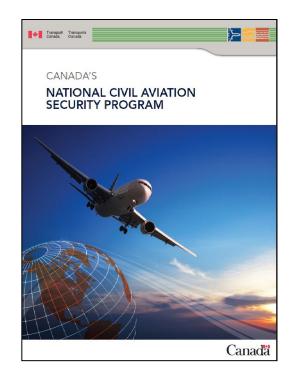
SUCCESS FACTORS

- Partnerships
 - International
 - Industry
- Analysis
 - Risk-based
- Review

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NATIONAL CIVIL AVIATION SECURITY PROGRAM

- Canada's National Civil Aviation Security Program, a key commitment under the Air India Inquiry Action Plan, was published in April 2013:
 - Articulates the principles used in policy and regulatory decisions
 - Outlines a cooperative approach to aviation security based on risk management and increased engagement of international and industry partners



AVIATION SECURITY REGULATORY REVIEW

- Restructuring and revitalizing the regulatory framework to reduce red tape and compliance burden for industry.
- Implementing new Aviation Security Program requirements, starting at airports, to promote proactive management of security in a way that is integrated, comprehensive, coordinated and risk-based.
- Developing, implementing, and communicating risk-based principles to apply in decision-making.

PRINCIPLES AND APPROACH TO REGULATION

- Regulate only when necessary
- Decisions to regulate will be based on risk
- Regulations will be outcome-based and promote flexible approaches where possible
- Regulations will be removed when they are outdated and have no value
- Regulations will be aligned with other government programs, international standards, and key partners

THE ROLE OF RISK ASSESSMENT

- Employ a multi-modal risk assessment methodology to:
 - Manage strategic risks to Canada's aviation system
 - Set priorities for major program areas
 - Assess emerging issues and gaps
- Risks to Canada's civil aviation security program are assessed during annual risk assessment workshops, attended by key federal government partners and industry.
- Results from the annual workshop and ongoing risk assessments help guide policy and program development and support the development of a National Aviation Security Risk Context Statement.

INDUSTRY ENGAGEMENT

- Risk Assessments and Information Sharing
- Policy Development
- Approach to Regulatory Mechanisms
- Oversight Approach
- Preparedness and Response
- Technological Development

ACHIEVING EFFICIENCY AND EFFECTIVENESS

One-Stop Security:

Canada is in the process of advancing a One-Stop Security Program

Liquids, Aerosols and Gels:

• With improved technology to detect threat posed by LAGs, Canada is working with the European Union, Australia and the U.S., to gradually eliminate restrictions

Canada–U.S. Hold Baggage System Mutual Recognition

 Mutual recognition of hold baggage screening systems as new technology is deployed

Trusted Traveller Programs (NEXUS):

• Mutual recognition of passenger screening for trusted traveller programs

INNOVATIVE TECHNOLOGIES AND PROCESSES

- Full Body Scanners (FBS) have been in use at Canadian airports since January 2010 and are important to Canada's multi-layered approach to aviation security.
- These systems, which use millimetre-wave technology, can detect anomalies on a passenger, including metallic and non-metallic objects concealed under clothing.
- In 2013, Canada deployed Automatic Target Recognition software for FBS to enhance passenger privacy by eliminating passengerspecific images, while maintaining Canada's commitment to ensuring the highest levels of security.

CHALLENGES AND VULNERABILITIES

- Promoting a globally harmonized policy based on risk
- Meeting international standards, which enables airlines to operate internationally
- Working together to increase security and alignment of security programs (e.g., capacity-building)

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