Presentation to the Air Line Pilots Association Air Safety Forum

Neil R. Wilson
President & CEO, NAV CANADA
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Making great strides in operational safety.
20th Anniversary as the owner and operator of Canada’s civil Air Navigation System.
Top priority: renewing connections with partners.
We all care passionately about air safety.
My presentation to you today:

1. The NAV CANADA story.
2. Current safety and service initiatives.
3. New technology – space-based ADS-B.
World’s **second-largest ANS**, by traffic volume. 
18 million square kilometres of airspace.

source: [www.arcgis.com](http://www.arcgis.com)
Our operations.

7 Area Control Centres  
41 Air Traffic Control Towers  
55 Flight Service Stations

8 Flight Information Centres  
51 Community Aerodrome Radio Stations  
31 Maintenance Centres
Controlling the North Atlantic.
Polar routes growth.

Traffic Increase on Polar Routes
More than 15 times between 2003 and 2015

<table>
<thead>
<tr>
<th>Year</th>
<th>Outbound</th>
<th>Inbound</th>
</tr>
</thead>
<tbody>
<tr>
<td>2003</td>
<td>1,200</td>
<td>1,200</td>
</tr>
<tr>
<td>2004</td>
<td>1,800</td>
<td>2,400</td>
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<tr>
<td>2005</td>
<td>3,000</td>
<td>5,000</td>
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<tr>
<td>2006</td>
<td>4,500</td>
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<td>2007</td>
<td>6,000</td>
<td>9,000</td>
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<tr>
<td>2008</td>
<td>7,500</td>
<td>11,250</td>
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<tr>
<td>2009</td>
<td>8,600</td>
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<td>2010</td>
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<td>2011</td>
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<td>14,700</td>
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<tr>
<td>2014</td>
<td>14,000</td>
<td>15,200</td>
</tr>
<tr>
<td>2015</td>
<td>16,000</td>
<td>16,800</td>
</tr>
</tbody>
</table>

Number of Flights

The ANS transfer.
Safety is our business imperative.
Surplus revenues are re-invested in the system.
Overcoming adversity.
Controller-Pilot Data Link Communications.
Controller-Pilot Data Link Communications.

556,000 DOMESTIC MESSAGES in FEBRUARY 2016
Includes 258,000 Automated and System Messages

16% Over FEBRUARY 2015

CPDLC Messages | Domestic

- Pilot Response 45%
- ATC Instruction 42%
- Pilot Report 2%
- Pilot Request 2%
- Pilot Free Text 1%
- Pilot Other 0%
- ATC Enquiry 2%
- ATC Free Text 4%
- ATC Response 2%
- Pilot Response 45%
Surplus revenues are re-invested in the system.

1. Average changes since charges were fully implemented on March 1, 1999
2. Consumer Price Index - Growth assumed to be 1.5 per cent for 2016 and
Safety.

RATE OF IFR-TO-IFR LOSSES OF SEPARATION
per 100,000 aircraft movements (five-year moving average)

Note: The data in the above chart reflects losses of separation between two aircraft operating under instrument flight rules.
Our people.
Runway Safety Incursion Prevention Panel.
Canadian Safety Officer’s Partnership.
Collaborating for safety.

- Air Transport Operations Consultation Committee
- Air Navigation System National Advisory Committee
- Air Operations Consultation Meetings
Annual Corporate Safety Plan.
Enhancing communications with Phraseology Guides.
Developing new technology.

- Canadian Automated Air Traffic System (CAATS)
- Gander Automated Air Traffic System (GAATS+)
- Tower-Terminal Automation System
Weather systems upgrade.

91 AWOS Sites Installed
177 Wx Camera Sites Installed
176 HWOS Installed
Invested $2 billion in technology, systems and facilities.
Space-based ADS-B: available world-wide.
Global surveillance coverage.
Global surveillance coverage.
Investing in changes to our procedures, systems and technology.
Iridium satellites scheduled for launch in September.
Aireon ALERT service.

Aircraft Locating and Emergency Response Tracking
Enhancing safety through innovation.
Push the boundaries of the possible.

“The very idea of America was intertwined with humanity’s desire to explore”

– Ashlee Vance
Thank You!