



*The Practical Implications of S&T
for Defence Transformation*

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S&T important, but should

- be linked to capability requirements
- be derived from a Concept of Operations (CONOPS)
- reflect the appropriate level of joint, combined, and inter-agency interaction and interoperability required to meet CF and national objectives



Canada - 9,98M Km²

Europe – 6,57M Km²

Aerospace security In cooperation with the United States through NORAD

*Security in the
3rd Dimension*

5600+ km / 3,500+ miles

6400 + km / 4,000 + miles

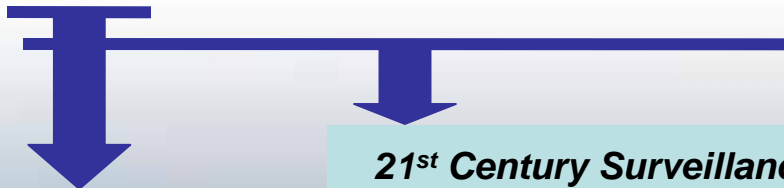
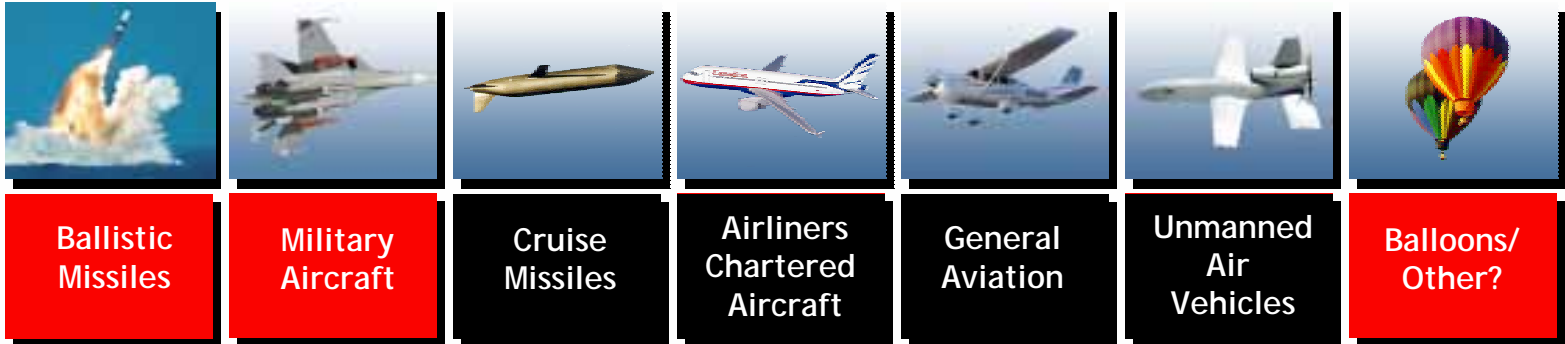
Canada¹³¹



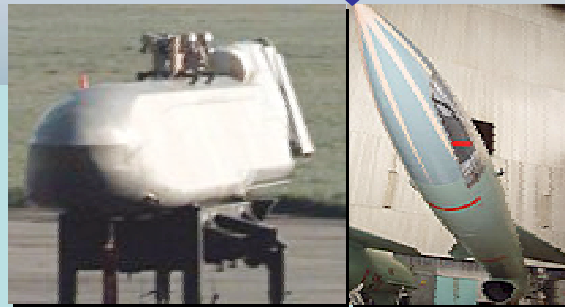
**Monitor and control unwanted and unauthorized activity
in *airspace and maritime approaches***



Potential Aerospace Threats



21st Century Surveillance Challenge



Most challenging military threat





Detect

Validate

Assess

Characterize

Decide

Direct

Control



Today

The Future?

Air SURVEILLANCE



ACTIVE CONTROL Of Airspace

Airspace

Aerospace?



Canada

Protecting Cities and Critical Infrastructure



Sensors, Operators and Decision Makers

Connected by data-link systems



For Increased Effectiveness



Persistent wide area aerospace surveillance systems capable of all weather small target detection

The 3-D display of fused sensor data in real time

The sharing of 3-D real time situation awareness

Control systems capable of rapidly detecting, sorting, identifying and tracking small targets



Questions?

Canada¹³¹