

SECURITY FOR AIRPORTS, AIRCRAFT, AIRSPACE, AND AIR TRAVELERS (SATAAT)

Integrated Approach Toward a Self-Improving Aviation Security

Dr. Chen-Chung (C. C.) Hsin

22 January 2006
 NACOTA/WCTA Technical Symposium

CAASD MITRE

© 2006 The MITRE Corporation. All rights reserved.

Everyone is Scrambling to Make Air Transportation More Secure

Prevent




Protect

React

MITRE

© 2006 The MITRE Corporation. All rights reserved.

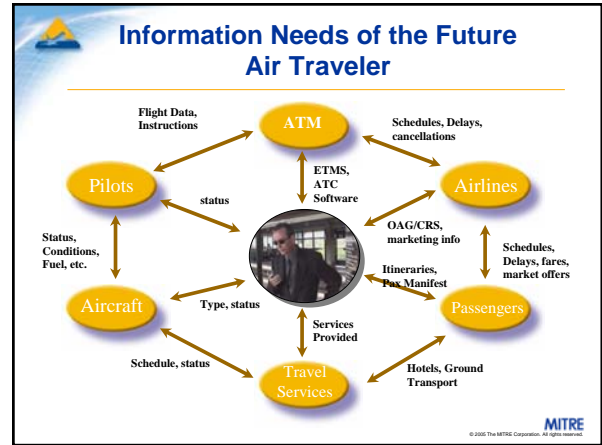
But Where Has That Left the Passenger?




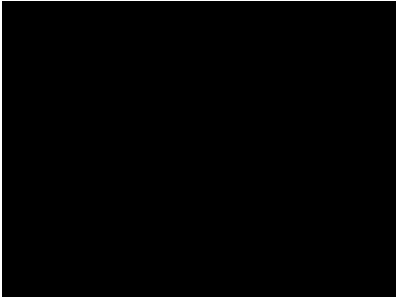
Source: http://www.reveljournal.com/hij_home/2004/Jan-13-Tue-2004/photos/airport.jpg

MITRE

© 2006 The MITRE Corporation. All rights reserved.



Imagine A World...

MITRE

© 2006 The MITRE Corporation. All rights reserved.

Aviation Security Must Serve the Traveling Public

- Complement, not dominate the experience
- Avoid Stove Pipes
- Manage Flows
- Use Space and Time
- Continuous Sensing


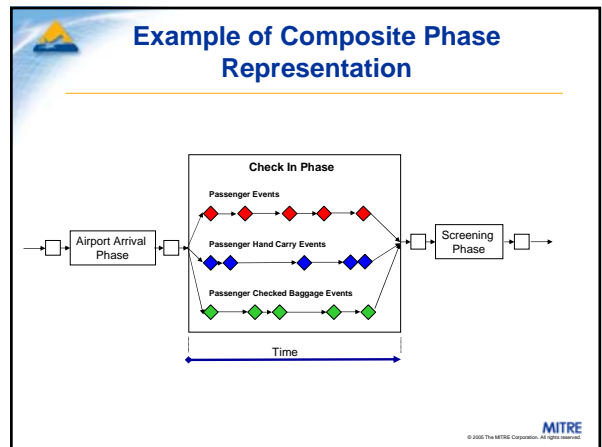
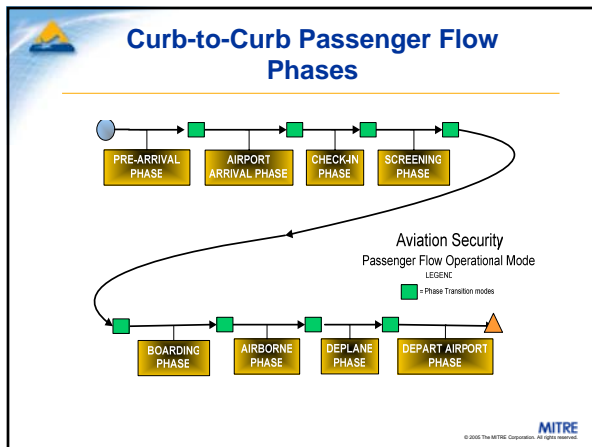
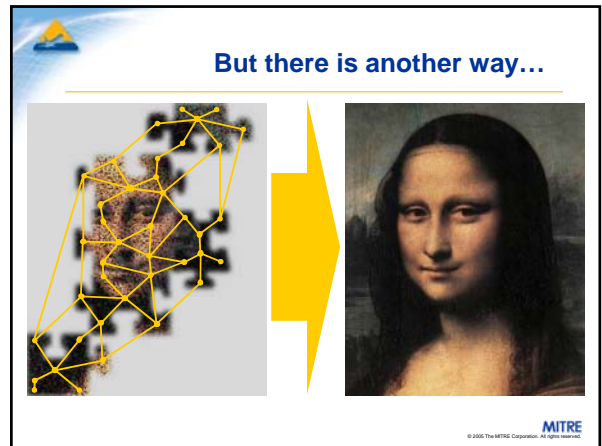
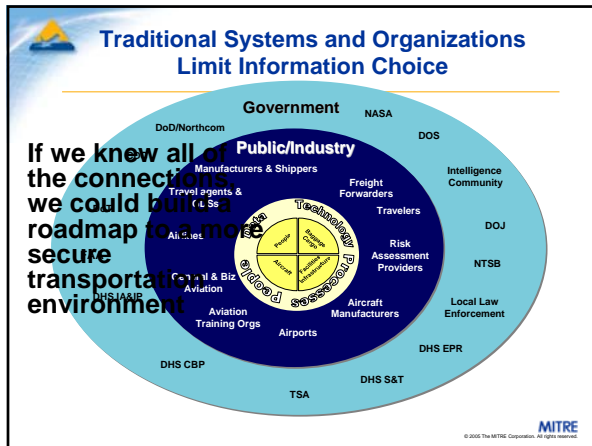
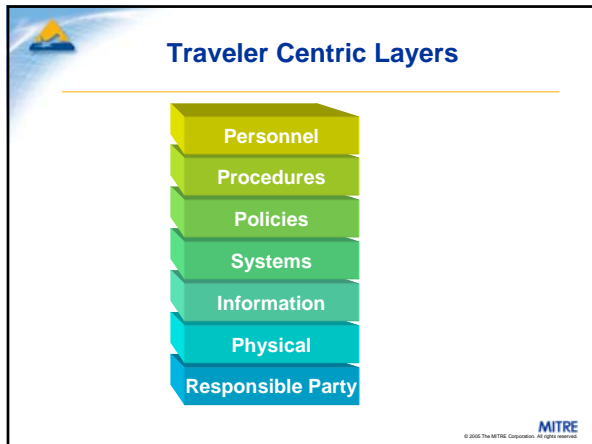


Photo credits: UL <http://www.the-human-race.com/images/environment/smokestacks.jpg>, UR, LL <http://www.arsip.meds.com/archives/07/02/gallery.html>, LR www.crispata.com/sample/pages/smokestack_color_submit.html

MITRE

© 2006 The MITRE Corporation. All rights reserved.





The "New System"

- Efficient Flow in all segments of system
- Multi-level security architectures
- Early detection and correlation of events
- Increase automation decision aids
- Avoid/protect single points of failure
- Provide common inter-organization situational awareness
- Construct self-healing information/decision networks
- Distributed/mobile command and control
- Manage the "soft inside"

MITRE
© 2005 The MITRE Corporation. All rights reserved.

"Move Anyone or Anything, Anywhere, Anytime, On Time"

AND

Know Almost Anything about Almost Everything in Almost Real Time"

MITRE
© 2005 The MITRE Corporation. All rights reserved.

CENTER FOR ADVANCED AVIATION SYSTEM DEVELOPMENT

Thank You

MITRE