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ENHANCING COMMUNICATION & COLLABORATION AMONG AIRPORT STAKEHOLDERS

SAFE SKIES - PARAS 0003 Project

Program of Applied Research in Airport Security

April 21, 2016



PROJECT OBJECTIVES

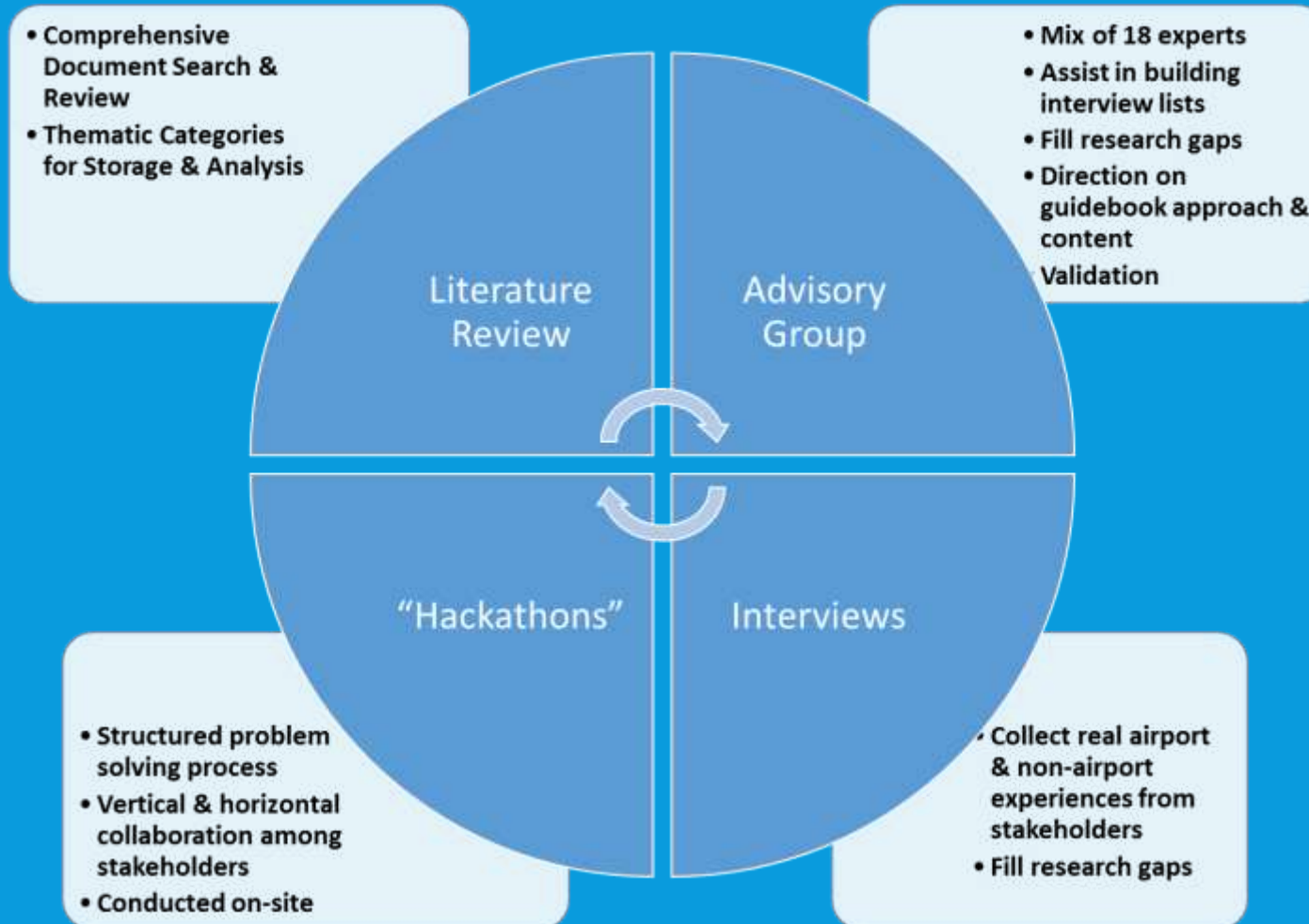


Develop Practical Guidebook for C2 among Airport Stakeholders

- Scalable to Airport Types & Sizes
- Summary of Industry Best Practices
- Lessons Learned
- Focus Areas:
 - ✓ Operational
 - ✓ Financial
 - ✓ Communication
 - ✓ Technology
 - ✓ Administration / Legal



RESEARCH APPROACH





ADVISORY GROUP – AREAS OF EXPERTISE



Public Safety
Airport Security
Airport Operations
Airport Concessions
Technology
Public Relations
Social Media
Airport Communications
Financial Management
Airline Operations



AIRPORT SELECTION CRITERIA



- Size
- Governance
- Heavy Meteorological Conditions
- A-CDM Participation
- A-CERT
- Extensive Systems Integration
- Web-based Collaboration Tools
- Tech-Enabled Operations Center



LITERATURE REVIEW APPROACH



Metadata Criteria:

- Operational Strategies
- Technology & Integration
- Emergency Response
- Airport Security
- Communications Strategies
- Admin / Legal

Data Collection Forms

Database of References



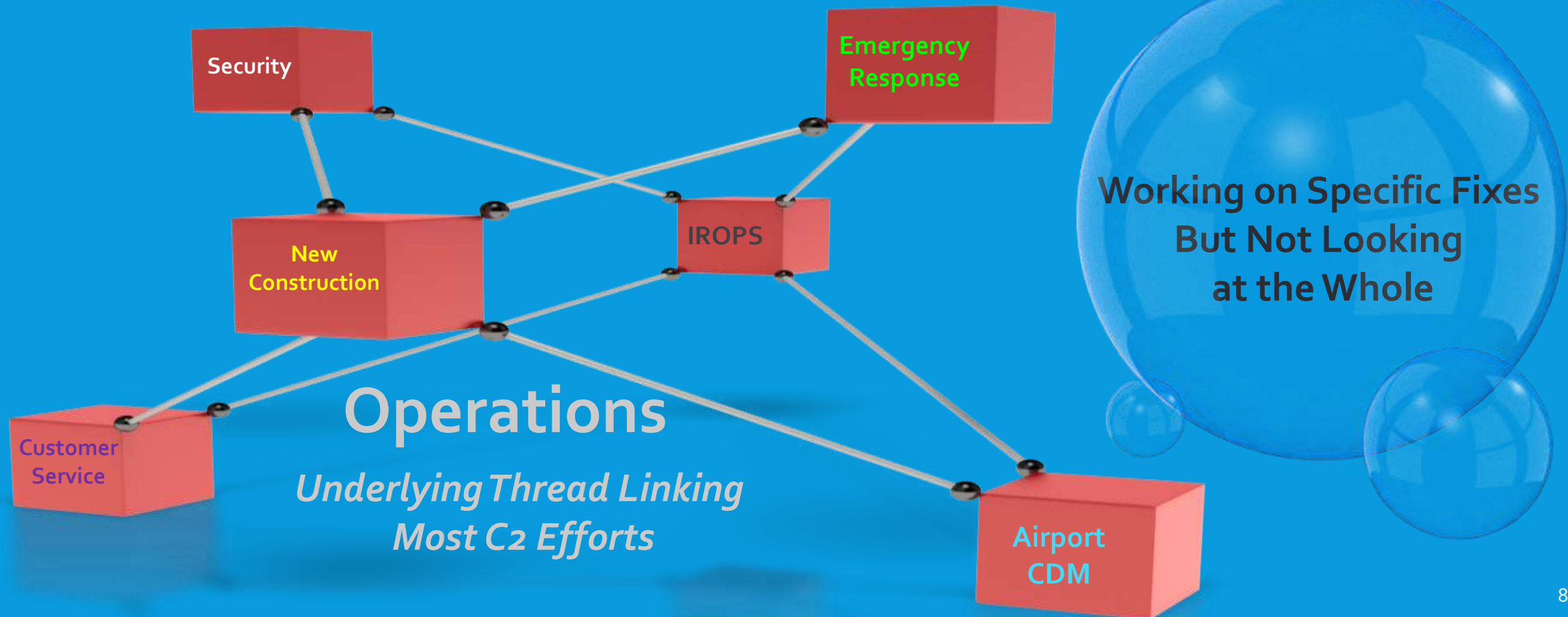
“HACKATHONS”



- Structured Problem Solving
- “Swarm” Airport C2 Challenges
- Create Known/Unknown Improvement Opportunities
- Diagnosis, Priority Setting & Idea Setting /Ranking
- Develop Bold Ideas for Reinventing C2 Processes



PRELIMINARY RESEARCH FINDINGS – SILOS OF C₂

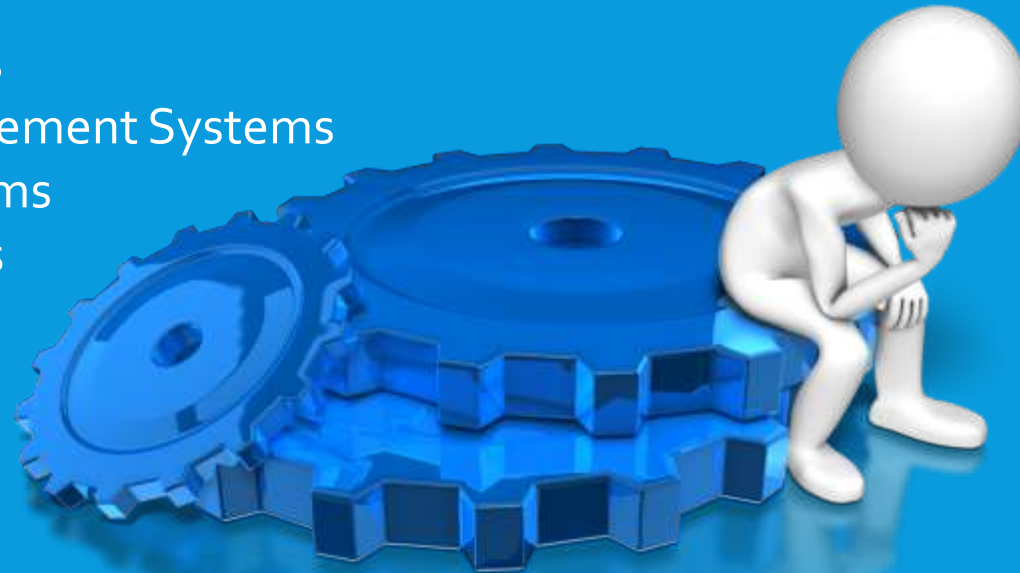




PRELIMINARY RESEARCH FINDINGS - TECHNOLOGY

Data Integration & Systems Interoperability Challenges

- CCTV / Video Analytics
- Physical Access & Control Systems
- Security Credentialing Systems
- Safety Management Systems
- Surface Management Systems
- Ground Transportation Management Systems
- Emergency Notification Systems
- Passenger Processing Systems
- Flight Information
- Weather Information





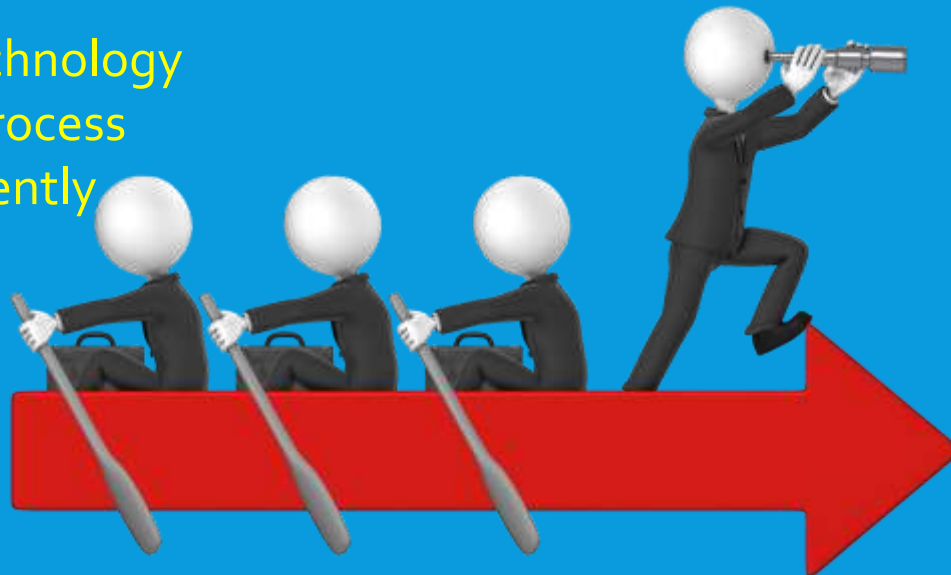
PRELIMINARY RESEARCH FINDINGS - FINANCIAL

Larger Airports

- Difficult & Protracted Procurement Process
- Cost/Benefit Analysis not Used Frequently
 - DEN Used Fuel Consumption of Idling Aircraft

Smaller Airports

- Can't Justify Cost of Sophisticated Technology
- Difficult & Protracted Procurement Process
- Cost/Benefit Analysis not Used Frequently





PRELIMINARY RESEARCH FINDINGS - MISCELLANEOUS

• Larger Airports:

- Deploying Technologies
- Wins Achieved
- No Continuous Improvement
- Progressive; Forward Thinking
- Embracing "Big Data" & CDM
- Interest in Going to Next Level

• Smaller Airports:

- Less Processes/Systems
- More Face-to-Face Oriented
- Single Point of Authority/Contact
- Small Staff/Small Budgets
- "Too Busy" to Learn Something New
- Desire to Improve