

PERSISTENT AND RESILIENT SPACE4ISR CAPABILITY

SPACE BASED ISR

REDUCTION IN SENSOR TO SHOOTER TIME

SCOPE

- Introduction
- Limitations: Utilisation of Int from Space
- Solutions Sought
- Conclusion

LIMITATIONS

- SATCOM downlink time
- Int processing and dissemination chain
- Decision making (C2)
- Info flow from C2 to Shooter

SOLUTIONS SOUGHT

- SATCOM downlink time
 - High BW downlinks
 - LASER communication
 - Inter Satellite Links
- Int processing and dissemination chain
 - Faster image processing
 - AI for change detection and identification
 - 'Smart' on board processing
 - Multi sensor fusion & multi domain fusion
 - Manageable Composite Operational Picture

SOLUTIONS SOUGHT

- Decision making (C2)
 - Automated solution and response generation
- Info flow from C2 to Shooter
 - Meshed links
 - Common/ interoperable protocols

CONCLUSION

- Breakthroughs in
 - Software
 - Processing power
 - Data storage/ compression/ access/ transmission
- Space
 - ISL
 - Power generation and management
 - Propulsion
 - Enhanced manoeuvrability

Secure Cyber Environment

THANK YOU