

Hawai'i Cloud Innovation Summit 2023

# Using Innovation to Help Protect and Defend the Indo-Pacific Region

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SMX



# Agenda

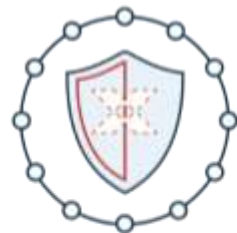
- Introduction to SMX
- Support to the INDO-PACIFIC Region
- Advanced Technology Initiative | STORMBREAKER
- Commitment to Hawaii & Workforce Development

# Who We Are and What We Do

We are a team of technical and domain experts driving next-generation mission support and digital transformation solutions for clients in the US and around the globe. We deliver scalable and secure technical solutions grounded in our deep understanding of mission and informed by advanced technologies. We exist to solve not sell in order to accelerate impactful outcomes for our clients, who are stewards of missions that matter.



Cloud



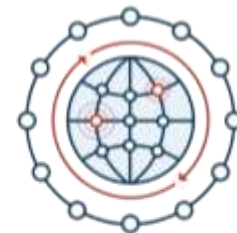
Cybersecurity



Data &  
Analytics



Digital  
Transformation



Mission  
Operations &  
Intelligence



Modeling,  
Simulation &  
Training



# Who We Serve ~ Clients with Missions that Matter

## Diverse Set of DoD, National Security, FedCiv, SLED and Commercial Clients

Combatant Commands  
System Commands &  
Programs  
Intelligence Agencies  
Federal Civilian



State & Local Government  
Education & Nonprofits  
Financial  
Medical & Pharma



# From Data to Dominance

*SMX: Transforming Data to Accelerate Wargaming and Decision-Making in the Indo-Pacific*

*“The enemy of our games was always Japan, and the courses were so thorough that after the start of World War II, nothing that happened in the Pacific was strange or unexpected.”*

**Admiral Chester W. Nimitz**  
Commander in Chief, U.S. Pacific Fleet

# SMX: A Force Multiplier in the INDO-PACIFIC

## Intelligence Surveillance & Reconnaissance (ISR)



Two COCO AISR platforms (CL605 & King Air 350ME)

Multi-Int: EO/IR, FMV, SAR, SIGINT

Over 450 ISR missions executed since August 2020 with direct action on known VEOs



Three Maritime Support Vessels (MSV)

Transport & support to USARPAC & SOF maritime ISR operations

40,000 NM range – 30 day sustainment



### Data/Sensors

- Direction/Tasking
- Prioritization
- Collection Target Requirements
- All available Collection Platforms
- Government Intel Data

### Actionable Intel

- Real-time Target ID
- Historical/New Partner Relationships
- Enhanced Situational Awareness
- Fused Multi-Intel
- FMV Time-phased Tracking & Review
- Pattern & Behavioral Detection

### Innovative Technologies

- Edge-Based Cloud processing
- Proven AI/ML Data techniques
- Tethered operations enable real-time SIGINT via SAT links
- Scalable ePED capability for cross AOR support



Able to fill gaps in Theater ISR

Forward deployed location postured for crisis

Quick, adaptable support to Partner Nations, Exercises & Events



# SMX: A Force Multiplier in the INDO-PACIFIC

## Data Transformation



## Decision-Making

### Intelligence Processing, Exploitation, Dissemination (PED)

- SOCPAC
- USARPAC
- USINDOPACOM, CENTCOM, AFRICOM

### USINDOPACOM J6 Mission Data Platform (MDP)

- Ingests and tags data with classification level
- Made available via cloud to US, FVEY, JPN

### USINDOPACOM J6 Mission Partner Environment (MPE)

- Data transport layer for partners
- Zero Trust implementation

### USINDOPACOM J5 STORMBREAKER

- AI/ML enabled plans & wargaming capability
- Provides fused data objects for military units (Blue/Red/Green) based on authoritative data to illuminate Coarse of Action (COA) options
- Wargames & analyses COAs to inform decision-making, resourcing, TPFDD
- Integrate the planning process with Partner Nations

### Joint Fires Network (JFN)

- Provide PM and theater architecture support to implement JFN
- Supporting integration across STORMBREAKER, JFN and other mission applications



# USINDOPACOM STORMBREAKER



## Challenge

USINDOPACOM and the wider DoD lacked a high fidelity, advanced technology planning and decision-making tool to quickly generate and analyze multiple military options then wargame these options in a data-driven environment.

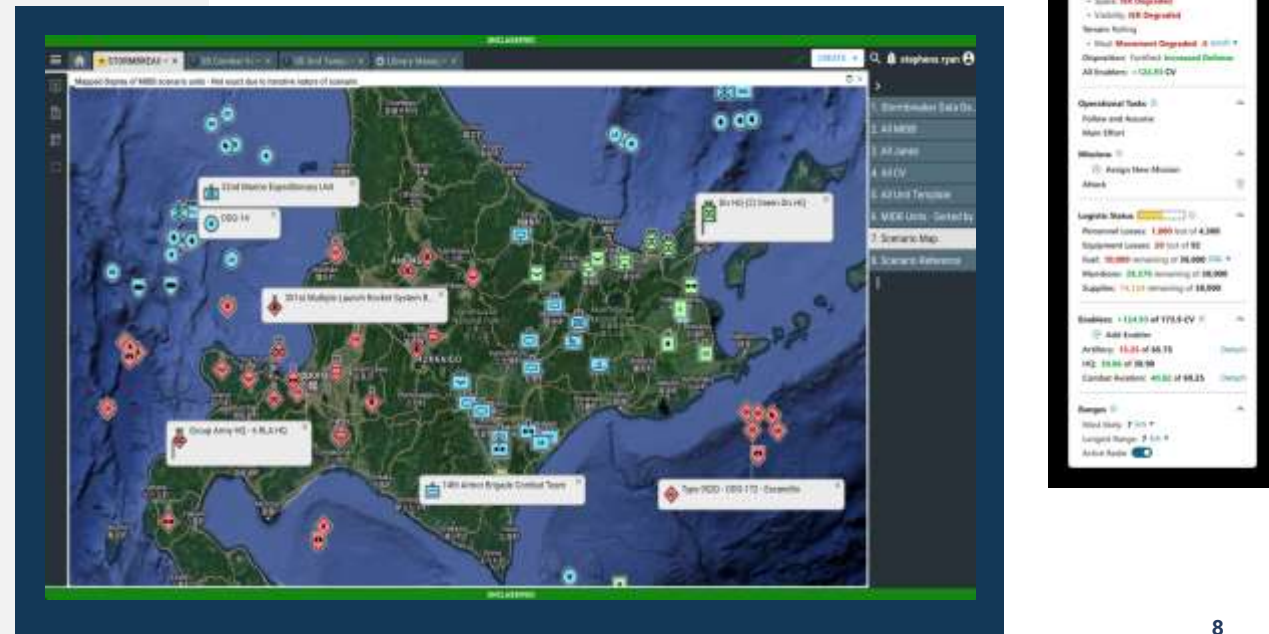
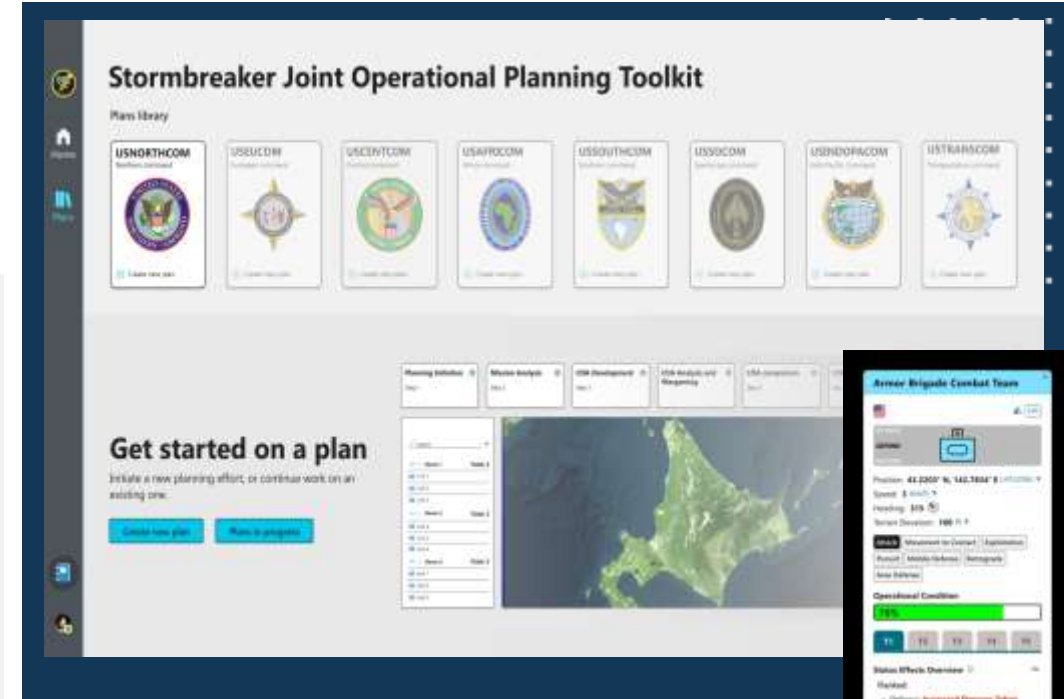
## Solution.

**STORMBREAKER:** USINDOPACOM's program to develop an Artificial Intelligence (AI)-enabled Joint Operational Planning Toolkit (JOPT) to support planning, wargaming, analysis and execution of multi-domain, operational-level Course of Action (COA) development

- Accelerate the Joint planning Process
- Transform authoritative data to meet the fidelity & veracity requirements of AI & ML
- Provide a rapid COA development and analysis capability during Crisis Action Planning

## Impact

Multiple operational planning tools exist however, not one addressed the full scope of the Joint planning process (JPP). Wargames are still conducted on map-boards with dice and do not have the advantage of real-time, detailed information of Red and Blue force capabilities/readiness.



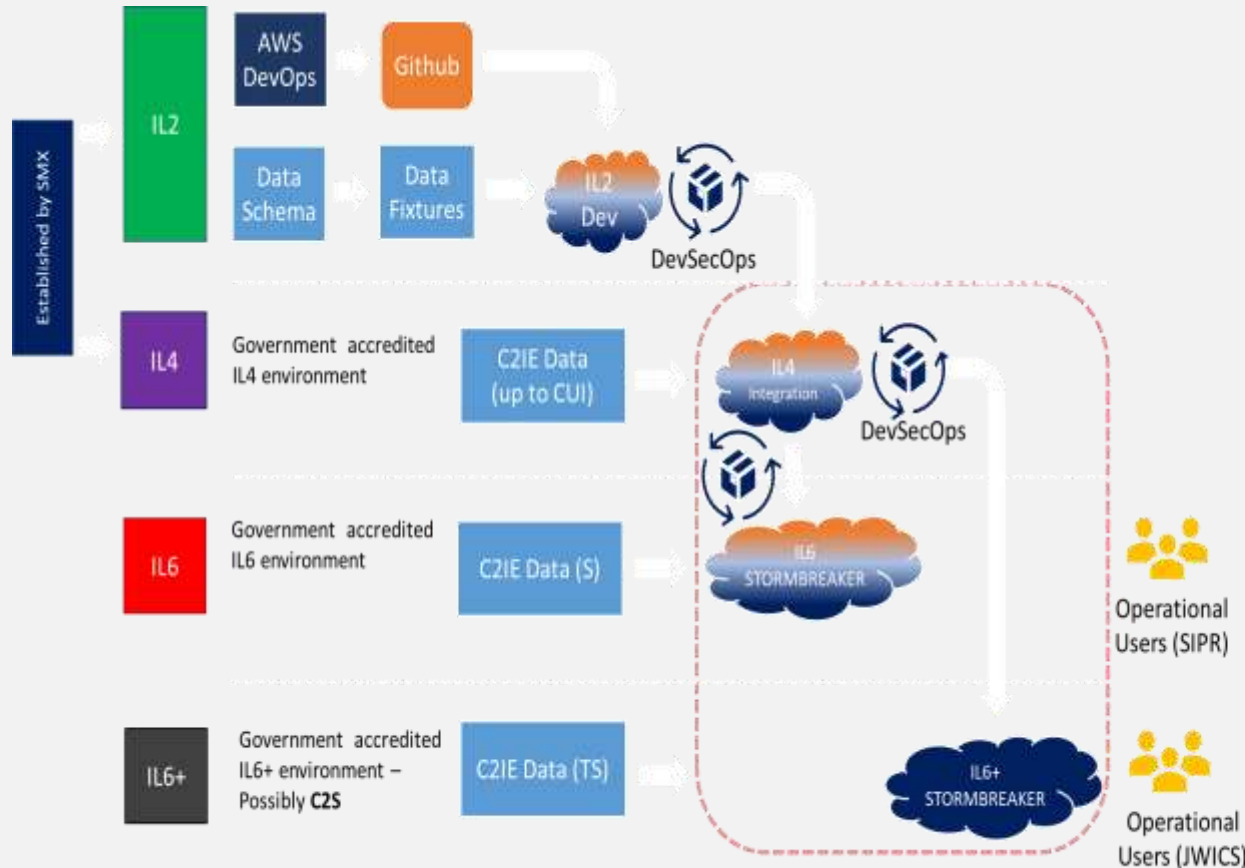




# USINDOPACOM STORMBREAKER



## STORMBREAKER Cloud Deployment



- STORMBREAKER application design intended to be as flexible as possible for cloud deployment
- Requirements capture is on IL2 - Sprint management and additional requirements capture in CUI (IL4) environment.
- Development will occur on the unclassified (IL2) environment due to mixed nature of the development team.
- Integration must occur at the CUI (IL4+) level due to CUI software (CAPCO library) integrated into C2IE, RII's Data Repository solution.
- Deployment and acceptance testing must occur at the IL6 or IL6+ due to classified nature of OPLANs, military unit data, and intelligence data needed by planners.
- Goal is to deploy to an accredited cloud environment at the S and TS levels so the application will need to go through the ATO process in each environment.

Together, SMX and AWS provide a range of mission benefits including risk mitigation, improved decision making, hands on practical, scenario exploration, and the ability to learn from history.

Physical simulations can be expensive, requiring significant resources and manpower and the SMX digital simulation solution can be a more cost-effective way to regularly practice and test strategies.

Leveraging AWS provides infrastructure savings of over 30% on average combined with a 2X reduction in time to delivery and access to the leading technology innovations on demand within a fully accredited and compliant environment.

# SMX Investing in Hawaii



- On island with ~100 employees serving INDOPACOM Combatant Command and its Service Components.
- Engaged with Hawaii Chamber of Commerce to grow STEM related jobs on island, the launching of the Pacific Innovation & Intelligence Initiative and joining the Military Affairs Council.
- Military Skillbridge program and college internships hiring 50% full time on average.
- Community service projects to include Diamond Head State Park cleanup and Paepae O He'eia Fishpond.
- Career fairs at University of Hawaii, Kamehameha Schools.





# Please submit your **feedback**. Thank you!



<https://www.pulse.aws/survey/BJFYLYKS>

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# Hawaii Cloud Innovation Summit 2022

# Thank you!

