



Office of the Undersecretary of Defense for Research & Engineering Directorate of Defense Research & Engineering for Advanced Capabilities Prototypes & Experiments

Joint International Experimentation

2021 Pacific Operational Science & Technology
(POST) Conference

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DDR&E(AC) Mission



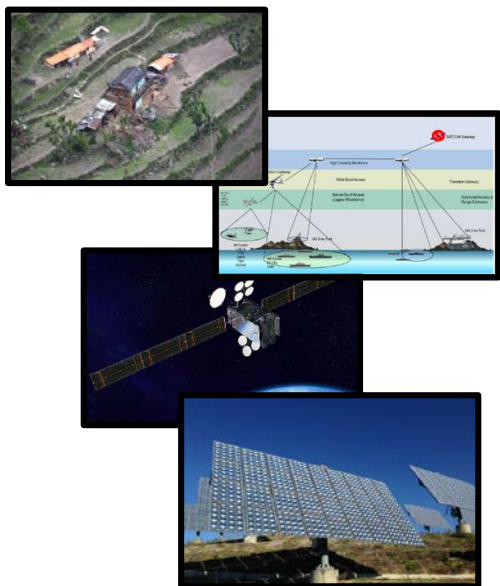
**Concepts
Innovation
Requirements
Modernization Areas**



**Engineering & Analysis
Prototypes & Experiments
Demonstrations
Test Range Infrastructure**



**Transition to
Programs of
Record**



**Joint Staff, Services,
OSD, CCMDs**





International Partnership – Prototyping INDOPACOM



Strategic Opportunity

- Cooperative, structured US and partner nation R&D will maximize modernization, increase interoperability, and strengthen coalition partnerships
- Jointly identify technologies and experiments that benefit allied partnerships
- Allies devoting R&D resources to modernize their military capabilities in similar priority areas

Solutions:

International Prototyping:

- USD (R&E) works with INDOPACOM J85 and staff to identify opportunities that align to critical needs of Partner Nations and expand operational venues for experimentation and collaboration

Joint International Experimentation (JIE)

- Field experiments/ technology demonstrations, in cooperation with Partner Nations
- Provide relevant operational environments for testing and assessment of technologies and to enhance coalition defense and security needs and provide mutual benefits from increased cooperation

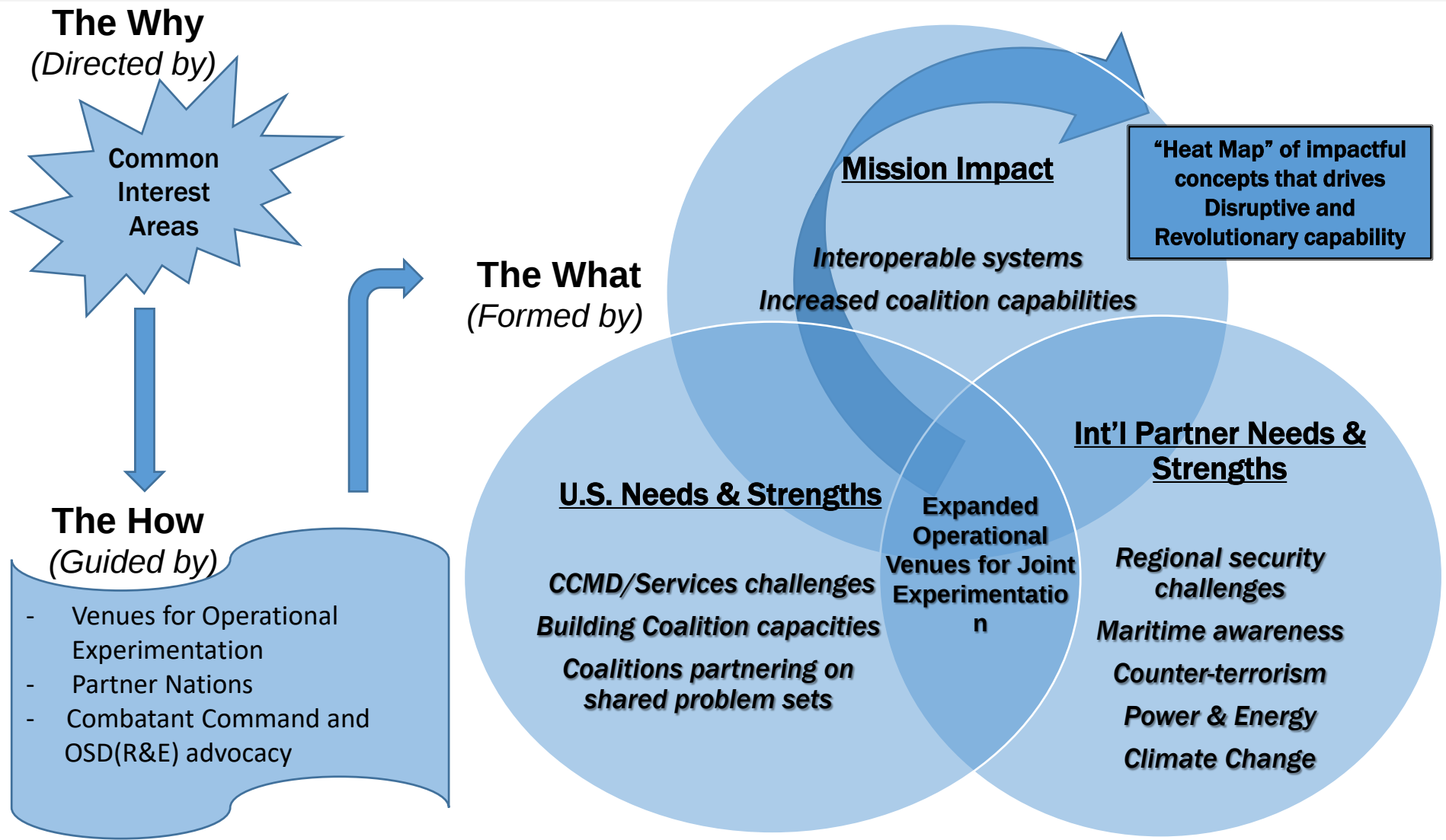
Foreign Comparative Testing (FCT):

- Find, assess, and field already developed foreign technologies to deliver affordable, near-term solutions to satisfy capability gaps, enhance lethality, and increase readiness
- US Gov -to- Foreign Industry technology evaluation executed under a contract

Strengthening Partnerships with Allies to deliver operational capability



Pathway for International Engagement





Enabling Joint Experimentation



- Enable Security Cooperation Strategy
- Support and promote interoperability with partner nation through science & technology (S&T)



Focus Areas



- **Expand experimentation venues to host nations to explore urgent needs and build coalition capacity**
- **Increase coalition cooperation with CCMD**
- **Enhance Common Interest Items:**
 - o Maritime Awareness
 - o Counter Piracy
 - o Interoperability
 - Communication
 - Data sharing
 - o Global Climate Change
 - o Renewable Energy
 - o Alternative Medical Distribution





Summary



- International partnerships identify, and execute cooperative experimentation to meet US and Partner Nation needs
- FCT finds, assesses, and supports the fielding of allied and partner nation technology to the US Warfighter
- Promote interoperable capabilities and strengthen coalition relationships between our Innovation and Industrial bases



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