The Future is FASTER than you THINK
Understanding the possibility
of
Predicting Instability

International Security Assessment and Analytic Capability - ISR

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International Security Assessment and Analytics Capability- Intelligence, Surveillance, and Reconnaissance (ISAAC-ISR)

1980: “In 2023 we will have flying cars!”

2023:

Background

The consensus among experts within senior level Army/Joint commands that there's currently a need for a system that provides the correlated, fused, linked, geographically displayed, auto-generated data from multiple sources that enable Commanders and senior staff to have an advantage over our competitors and make **decision** in regards to:

- Stability Operations
- Irregular Warfare
- GPC (Great Power Competition)
- Interagency Collaboration and assessments
- Humanitarian assistance
- All Domain Full Spectrum Operations
- Unconventional Warfare
- Special Operations
- TSC (Theater Security Cooperation)

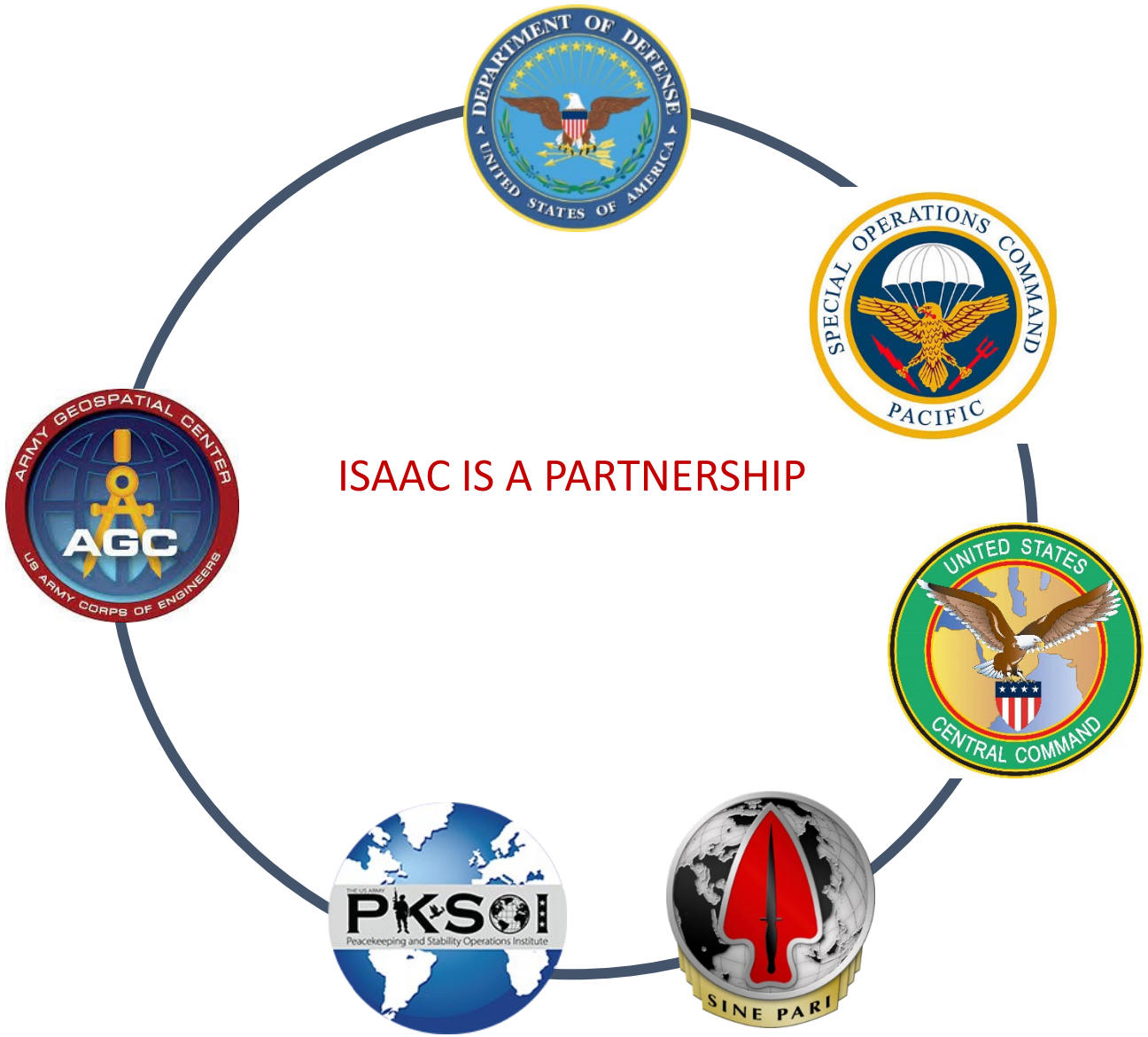
ISAAC-ISR Transition Strategy

- **Capability Program Office**
  - **Joint Force Product Manager**
  - **Joint Force Capability Coordination Office**
  - **Joint Force Capability Funding**

- **Capability Technical Management/Program Office**
  - **Acquisition/Contract Management Office**
  - **Technology Sustainment**
  - **Data Acquisition and Fusion**
  - **Analytical Reach back Cell- Stability**
  - **Capability Distribution to GCC**
  - **Test & Experimentation**

ISAAC-ISR Technical Capability

PARTNERS/STAKEHOLDERS



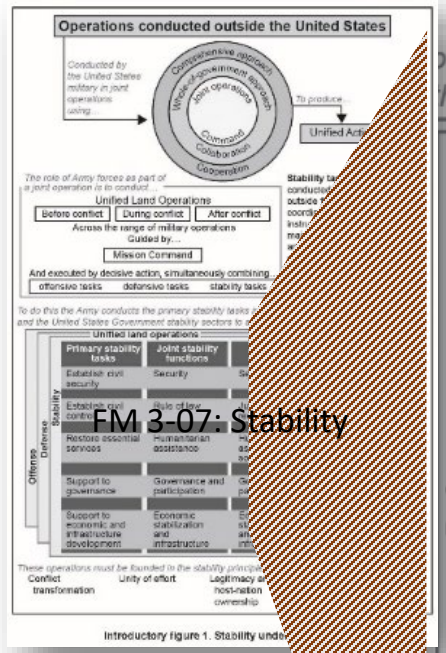
Military Stability Operations List

1. Security Sector Reform (SSR):** Enhancing the capacity and effectiveness of security forces.
2. Disarmament, Demobilization, and Reintegration (DDR):** Managing the transition of ex-combatants to civilian life.
3. Civil-Military Cooperation (CIMIC):** Collaboration between military and civilian entities for shared goals.
4. Counterinsurgency (COIN):** Combating and neutralizing insurgent threats.
5. Humanitarian Assistance and Disaster Relief (HADR):** Providing aid in crises to support affected populations.
6. Governance and Institution Building:** Strengthening governance structures and institutions.
7. Rule of Law and Justice Sector Reform:** Promoting legal frameworks and justice systems.
8. Information Operations (IO):** Using information to shape perceptions and influence behavior.
9. Psychological Operations (PSYOP):** Influencing attitudes and behaviors through communication.
11. Economic Stabilization and Development:** Supporting economic growth and stability in post-conflict areas.
12. Infrastructure Rehabilitation and Development:** Rebuilding and improving essential infrastructure.
13. Population Protection:** Safeguarding civilians from harm, including refugees and internally displaced persons.
14. Gender Mainstreaming and Women, Peace, and Security (WPS):** Integrating gender perspectives and empowering women in peace and security efforts.
15. Security Sector Assistance (SSA):** Providing support and advice to build the capacity of security forces.
16. Cybersecurity Operations:** Addressing threats in the digital domain to ensure stability.
17. Public Health Initiatives:** Combating disease outbreaks and promoting health in conflict-affected regions.
18. Environmental Stewardship:** Mitigating environmental damage and promoting sustainability.
19. Crisis Response Operations:** Rapid deployment to manage and respond to emerging crises.
20. Cultural Heritage Protection:** Preserving and safeguarding cultural sites and artifacts during conflicts. These operations collectively contribute to establishing conditions for sustainable peace and development in affected areas.
21. Media and Information Support:** Managing information flows and countering misinformation to shape public perception.
22. Border Security and Management:** Enhancing control and stability along national borders.
23. Transitional Justice:** Addressing past human rights abuses and promoting accountability.
24. Community Engagement and Empowerment:** Involving local communities in decision-making processes.
25. Water Resource Management:** Addressing water scarcity and ensuring access to clean water.
26. Counter-Narcotics Operations:** Combating the production and trafficking of illegal drugs.

institutions
behavior
mainstreaming
structures
misinformation
response
stabilization
cooperation
providing
humanitarian
relief
borders
establishing
scarcity
frameworks
building
crisis
integrated
activities
clean
involved
assistance
insurgent
often
stability
operations
judicial
shape
respond
given
affected
enhancing
capacity
communities
trafficking
affected
threats
approach
functioning
range
illegal
addressing
management
capacity
government
gender
resource
justice
strengthening
national
influencing
conflicts
accountability
abuses
sector
sector
legal
institutions
governance
environmental
water
managing
information
justice
empowerment
systems
counterinsurgency
perceptions
stewardship
managing
rights
civil-military
along
support
legal
collaboration
rapid
ddr
judicial
information
protection
effectiveness
addressing
fostering
post-conflict
key
decision-making
building
ensure
wps
supporting
crisis
civil-military
outbreaks
manage
safeguarding
security
safeguarding
public
economic
forces
development
shape
neutralizing
infrastructure
cultural
governance
education
support
systems
contribute
education
integrating
disaster
economic
sustainability
cultural
enhancing
providing
improving
demobilization
development
infrastructure
assistance
resilience
health
processes
water
reform
civilian
forces
corruption
reform
combating
post-conflict
military
perspectives
corruption
institution
women
peace
areas
stability
frameworks
military
effectiveness
promoting
disarmament
crises
gender
activities
protection
comprehensive

GPC Stability Index Methodology

STEP 1 | Define GPC Stability Index Categories based on JP 3-07: Stability



FM 3-07: Stability

…o this the Army conducts the primary stability tasks integrated into the joint stability functions
…he United States Government stability sectors to achieve the end state conditions…

Unified land operations

Primary stability tasks	Joint stability functions	Stability sectors	End state conditions
Establish civil security	Security	Security	Safe and secure environment
Establish civil control	Rule of law	Justice and reconciliation	Established rule of law
Restore essential services	Humanitarian assistance	Humanitarian assistance and social well-being	Social well-being
Support to governance	Governance and participation	Governance and participation	Stable governance
Support to economic and infrastructure development	Economic stabilization and infrastructure	Economic stabilization and infrastructure	Sustainable economy

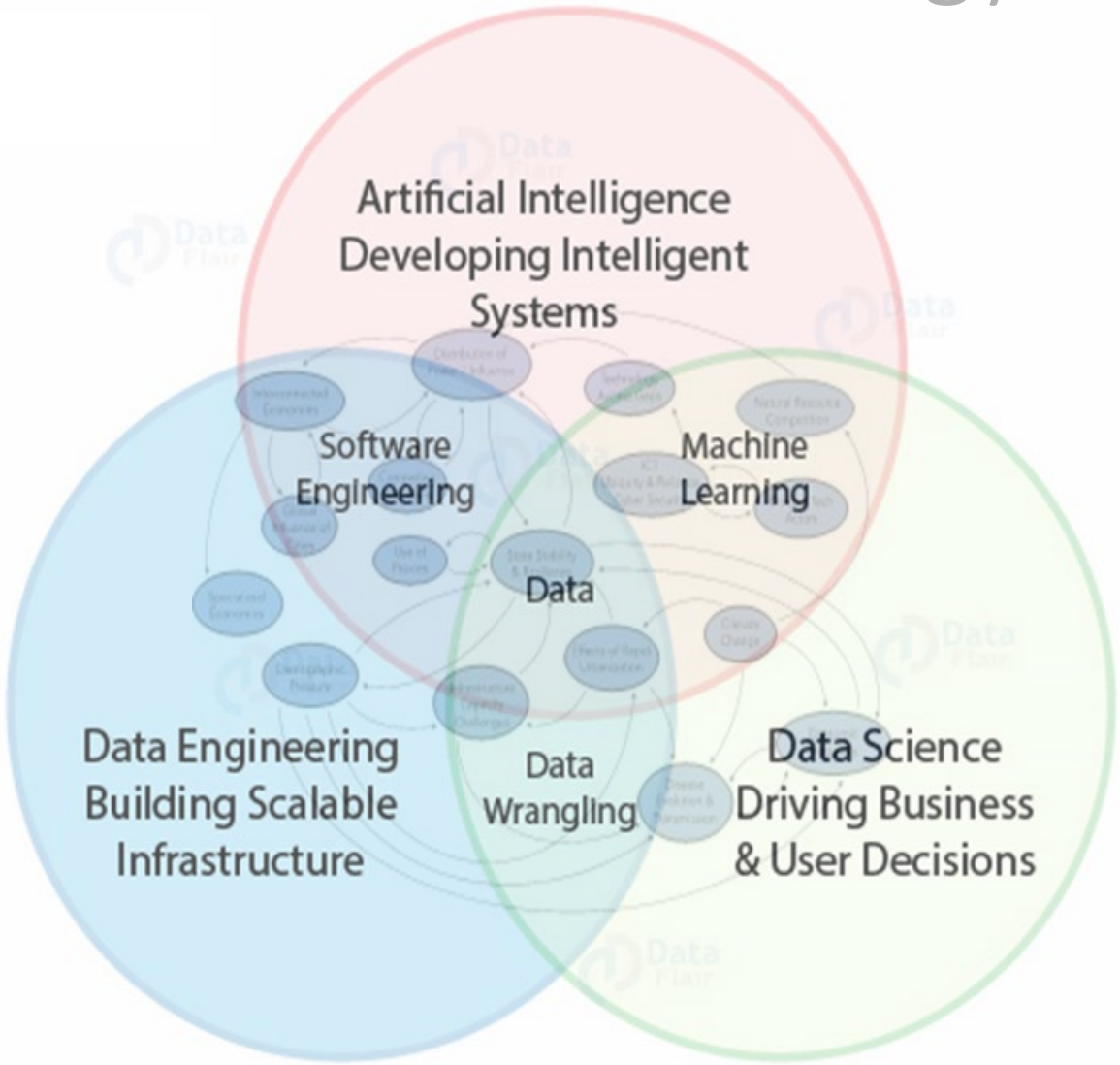
Defense

Stability

…se operations must be founded in the stability principles of…

…onflict …transformation | Unity of effort | Legitimacy and host-nation ownership | Building partner capacity

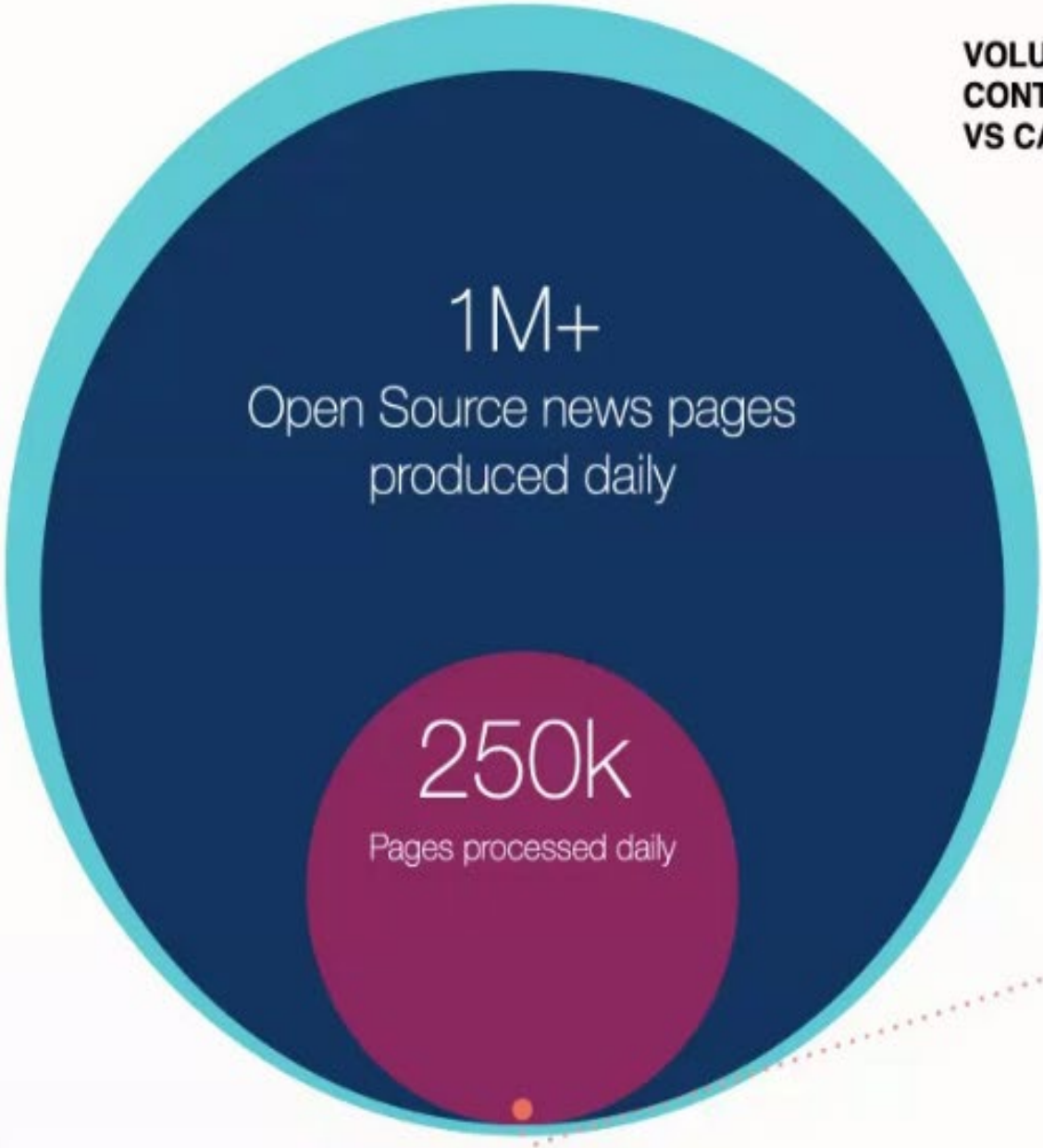
Key Elements of the ISAAC-ISR Prototype Science & Technology



ISAAC-ISR in Minsky

News Sources	**250k+**
Articles (total)	**150m+**
Articles (daily)	**250k+**
Models trained	**35**
Entities ID'd	**10m+**
Languages	**20+**

VOLUME OF OSINT CONTENT CREATED VS CAPACITY TO DIGEST IT



10-30 pages an analyst can manually assess / day

Generative AI for ISAAC: Stability CKI Files

Reports, Manuals and Doctrine Publications

Doctrine Publications

- ADP 3-0 – Operations
- ADP 3-07 – Stability
- ADRP 3-07 – Stability
- AFDD 2-0 – Global Integrated Intelligence, Surveillance & Reconnaissance Operations
- JDN 1-19 – Competition Continuum
- JDN 1-22 – Joint Force in Strategic Competition
- JDN 2-19 – Strategy
- Joint Guide for Interagency Doctrine

Field Manuals

- FM 3-0 – Operations
- FM 3-13 – Information Operations
- FM 3-22 – Army Support to Security Cooperation
- FM 3-24 – Insurgencies and Countering Insurgencies
- FM 3-24.2 – Tactics in Counterinsurgency
- FM 3-57 – Civil Affairs Operations
- FM 3-61 - Communication Strategy and Public Affairs Operations

Large-Scale Combat Operations Books

- Volume 1 – Weaving the Tangled Web
- Volume 2 – Bringing Order to Chaos
- Volume 3 - Lethal and Non-Lethal Fires
- Volume 4 – The Long Haul
- Volume 5 – Deep Maneuvers
- Volume 6 – Into the Breach
- Volume 7 – Perceptions are Reality
- Volume 8 – The competitive Advantage
- Volume 9 – The last 100 Yards

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Generative AI for ISAAC: Stability CKI Training Files

Reports, Manuals and Doctrine Publications

Joint Publications

- JP 3-07 – Joint Stabilization Activities
- JP 2-0 – Joint Intelligence
- JP 2-01.1 – Joint Tactics, Techniques and Procedures for Intelligence Support Targeting
- JP 3-0 – Joint Campaigns and Operations
- JP 3-02 – Amphibious Operations
- JP 3-04 – Information in Joint Operations
- JP 3-05 – Joint Doctrine for Special Operations
- JP 3-06 – Joint Urban Operations
- JP 3-07.3 – Peace Operations
- JP 3-08 – Interorganizational Cooperation
- JP 3-09 – Joint Fire Support
- JP 3-10 – Joint Security Operations in Theatre
- JP 3-13.2 – Military Information Support Operations
- JP 3-16 – Multinational Operations

Joint Publications (cont.)

- JP 3-18 – Joint Forcible Entry Operations
- JP 3-22 – Foreign Internal Defense
- JP 3-24 – Counterinsurgency
- JP 3-27 – Homeland Defense
- JP 3-28 – Defense Support of Civil Authorities
- JP 3-29 – Foreign Humanitarian Assistance
- JP 3-31 – Joint Land Operations
- JP 3-34 – Joint Engineer Operations
- JP 3-57 – Civil-Military Operations
- JP 3-60 – Joint Targeting
- JP 3-68 – Joint Noncombatant Evacuation Operations
- JP 4-0 – Joint Logistics
- JP 4-02 – Joint Health Services
- JP 5-0 – Joint Planning

Misc. Documents

- Joint Guide for Intelligence Preparation of the Operational Environment
- R46389 – Intelligence, Surveillance and Reconnaissance Design for Great Power Competition
- Rand Corporation - Preparing the Army for Stability Operations

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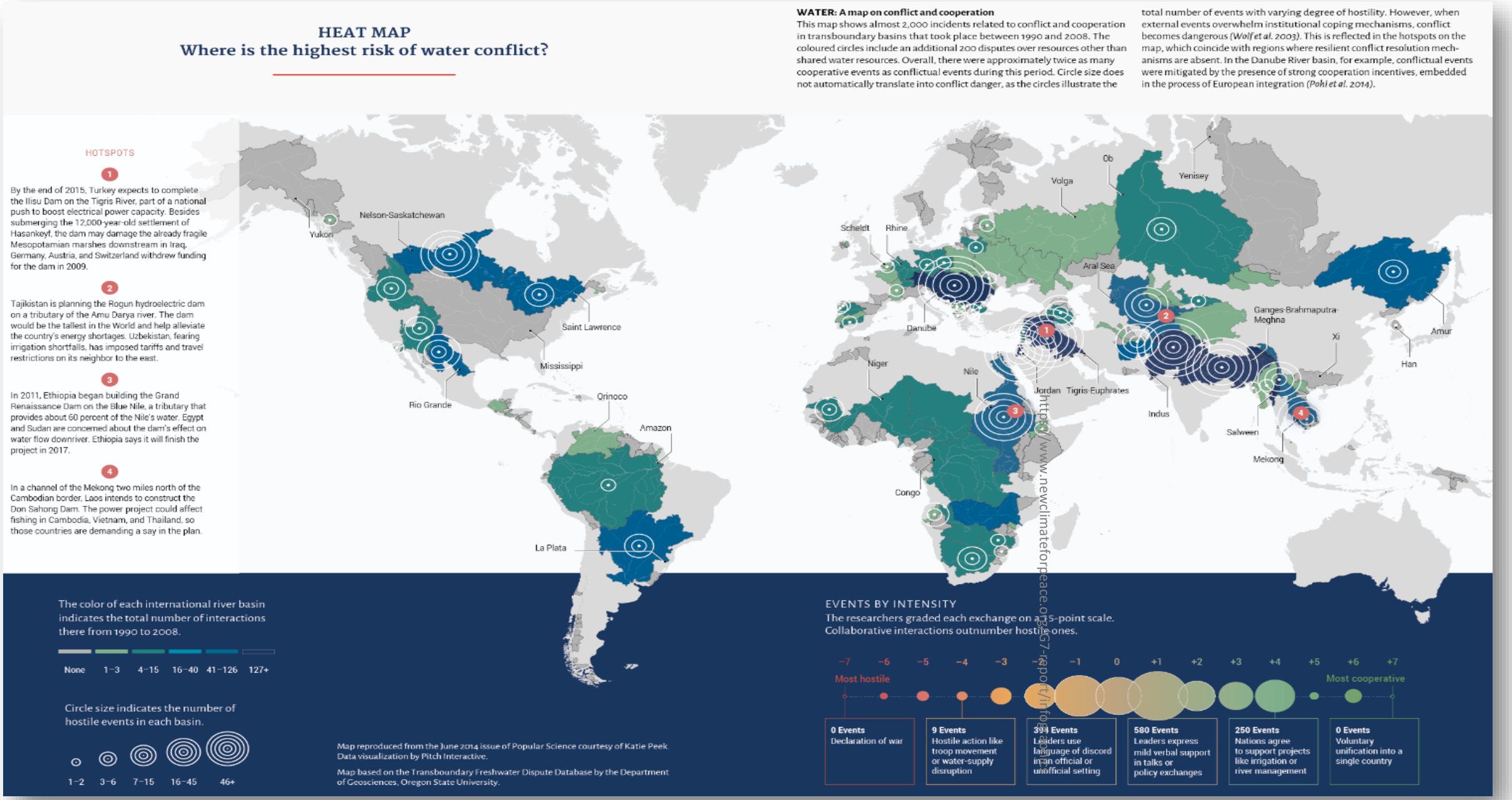
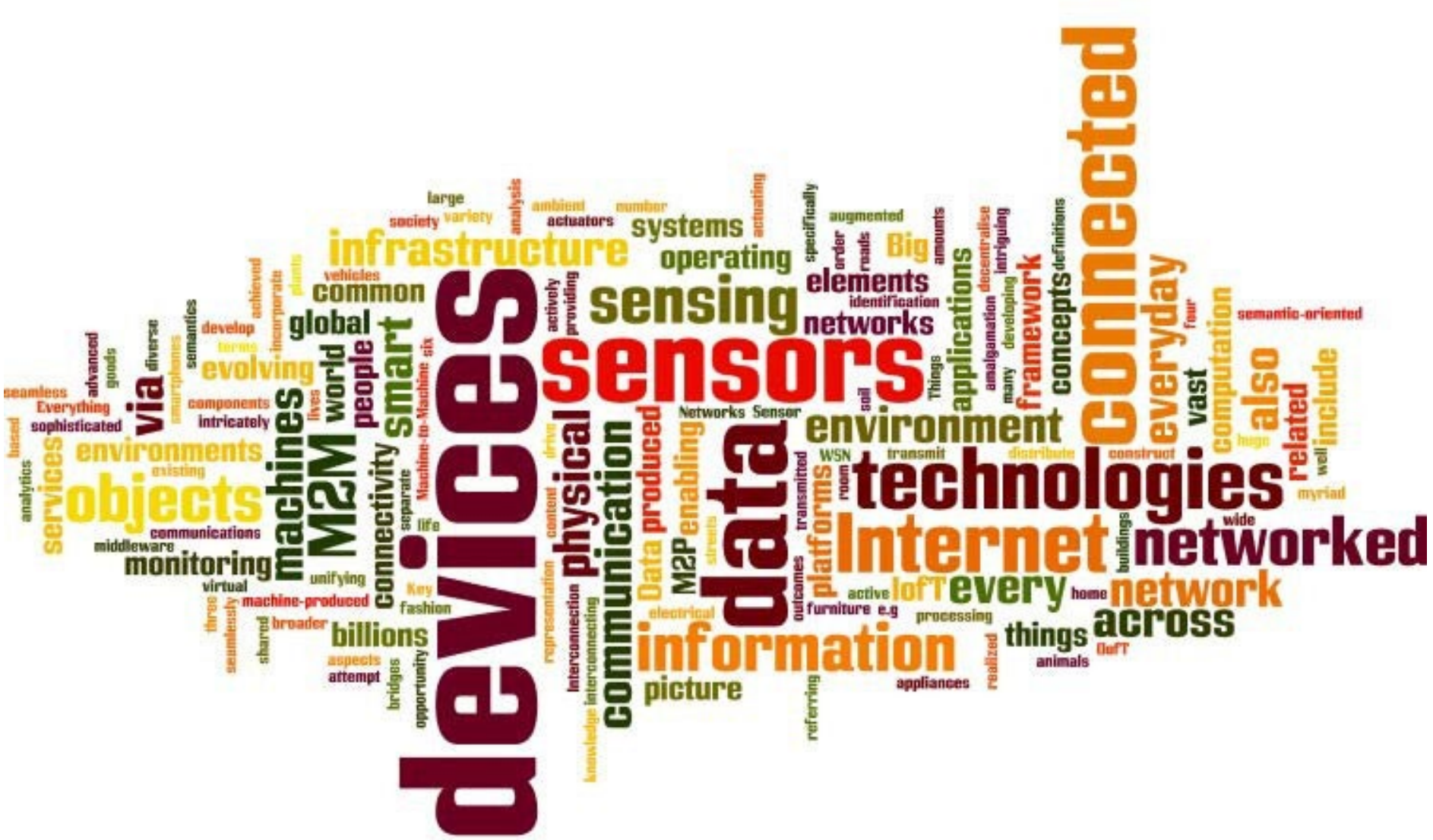
Why is the ISAAC-ISR GPC Stability Index Important



Convergence of Technology



TECHNOLOGY CONVERGENCE

COMPUTING	DEVICES	INTERACTIONS
Explosition of devices, data and hyper-connectivity to drive larger automation	Devices available everywhere driving by a sensors, data and embedded everywhere	New experiences of interactions powered by decentralized communications
Massive	**Distributed**	**Immersive**
Intelligent	**Generated**	**Decentralized**
Connected	**Embedded**	**Virtual**

QE
UNIT
Engineering Community

International Security Assessment and Analytic Capability – Open Source Intelligence, Surveillance and Reconnaissance (ISAAC-ISR) OV-1

Intelligence

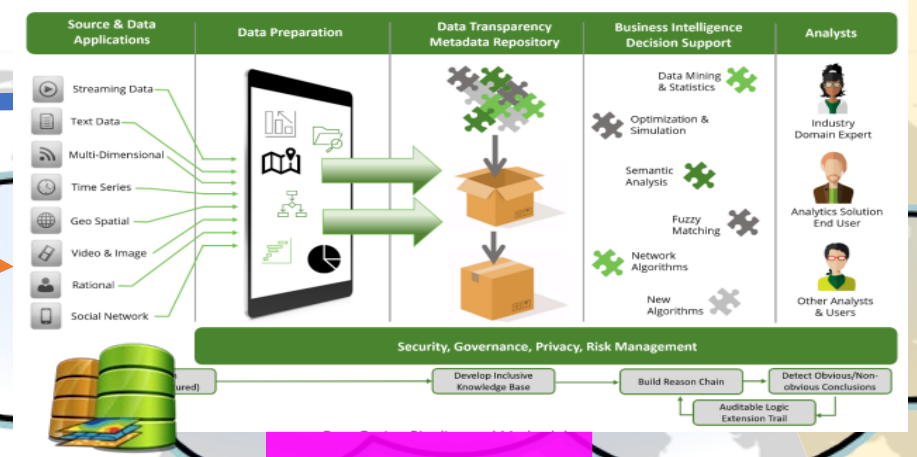
Combatant Commands

Interagency Partners

DOD/USG Information Systems

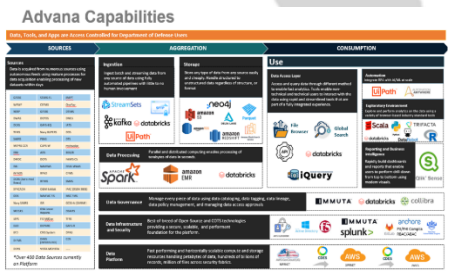
Publicly Accessible Information (PAI) Data Sources

Bing · Google · reddit



Final Products

Cloud-Based Knowledge Portal



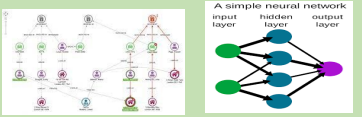
Analysis

Qualitative Analysis

Geospatial Views

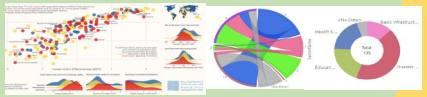
NLP Analysis

Graphing/ Hu Networks



Geospatial Analysis

Quantitative Analysis



Verification and Validation Data Collection

GeoHive · PREMISE

Generative AI for ISAAC: Stability Training Files

Trusted, Approved Publications, Videos and Podcasts

- A Good Neighbor of Bad Governance: China’s Energy and Mining Development in Southeast Asia
- A New Framework for Understanding and Countering China's Gray Zone Tactics
- A Restraint Approach to US China Relations
- Assessments of Operations in the Information Environment for the Eastern Mediterranean and South China Sea
- CCP Weapons of Mass Persuasion
- China is testing the limits of India and the world
- China’s Emergence as a Second Nuclear Peer
- China’s Grand Strategy
- China’s Historical Plutonium Production
- China’s Nuclear Modernization and Expansion
- Common Characteristics of “Successful” Deradicalization Programs of the Past
- Competing in the Gray Zone: Russian Tactics and Western Responses
- Deterring Countering and Defeating Conventional Nuclear Integration
- Evaluating Chinas Road to Cyber Super Power
- Gaining Competitive Advantage in the Gray Zone
- How Russian and Chinese News Media Present the Commercialization and Militarization of the Space Domain
- Korea-Strategic-Outcomes-ViTTa-Q8-Summary-Report
- NSI Aggrieved Populations Reports: Indonesia Country Report
- Operations in the Information Environment
- Spheres of Influence in the Coming Decades
- Toward an Inclusive & Balanced Regional Order: A New US Strategy in East Asia
- UNO Terrorism in the Philippines and Its Influence on Great Powers
- US Command Perspectives on Campaigning in Support of Integrated Deterrence

ISAAC-ISR Wrap up

- Increase participation from the CoP and CoI
- Leverage current and future RDT&E/O&M Funds for Phase II
- The only Convergence Tech Program developed focused on this community with 100 years of SME Advisors equivalency

- Phase I, Phase II, Transition to PKSOI/AGC
  - INDOPACOM
  - AFRICOM
  - CENTCOM
  - NORTCOM (Artic)

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Questions