Army Intelligence 2020 and Beyond

Globally Engaged… Regionally Aligned… Enabling Decisive Operations

Agenda

- *Army Intelligence Corps Today – Mission/Imperatives*
- *What We Learned – Capabilities and Enterprise*
- *Army Intelligence 2020 and Beyond: What We Are Building*
- *Our Major Initiatives for FY13-15*
- *Our Objective at End State*

Role of Our Army Intel Corps

"I think [it's] very clear that... [our] main objective… is to preserve this magnificent land force that's been built over the last 10 years, and ensure we remain in the future what we are today: the greatest land power the world's ever seen."

- Hon. John McHugh

"Our Army is the Nation's Force of Decisive Action, A Relevant and Highly Effective Force for a Wide Range of Missions."
- GEN Raymond Odierno, CSA

- America's Force of Decisive Action
- Globally Engaged, Regionally Responsive
- Capable of Rapidly Dominating any Operational Environment
- Interoperable with Joint/Multi-National/Interagency Partners

Role of Army Intel Corps – 2012

- ✓ Provide the Best Trained, ***Multi-Disciplined Intelligence Force*** to Enable Decisive Action For the Nation's Current and Emerging Contingencies
- ✓ Build the MI Force of the Future with a ***Versatile Mix of Capabilities*** to Meet the Demands of a Robust, Ready, ***Regionally Engaged*** and ***Responsive Army***
- ✓ Keep our Army Intelligence Force in the Fight – Provide the Resources and Direction to Ensure ***No Cold Starts, No MI Soldier at Rest***
- ✓ Provide Solutions that Allow Our Soldiers on Point to Leverage the Technology, Expertise, and Intelligence in the Intelligence Enterprise

Army Intelligence Corps Today

- ***58,000 Strong*** **(30k AC / 18k RC / 10k DAC)**
  - **4.5% of Army**
- **Embedded in Every Echelon, Agency – Supported by a National-to-Tactical Enterprise**
- **Anchoring the COCOMs Read of Human Domain**
- **Regionally Aligned, Mission Focused**
- **Adaptable, Innovative, Scalable and Tailorable**
- **Experts From Space to Mud**
- **Leveraging the Intelligence Enterprise to Empower our Soldiers at the Forward Edge**

- Best in Multi-Int Fusion
- Largest Service HUMINT Force
- Most Agile Service CI Force
- Globally Employable AISR Force
- Developing Advanced Analytics for IC/ DCGS
- Fully Engaged Cyber Force
- Superb GEOINT Force
- 58% Deployed-Multiple Tours
- ~60% Regionally Aligned

Our Team of Teams

IC | *G-2* | *INSCOM* | *MIRC* | *NGB* | *ICOE* | *TRADOC* | *J-2/G-2* | *MI ECB Force* | *ASA ALT*

Our Operational Environment – Complex, Lethal, Volatile

Ends
- Wealth
- Resources
- Political authority
- Influence
- Sovereignty
- Identity
- Legitimacy

Ways
- Competition
- Cooperation
- Conflict

Means
- Attack the "will"
- Complexity – Chaotic Conditions – Anti-access
- Asymmetry

Essential Elements of the Complex Environment

- **Multitude of Independent Actors**
  - Threat, Malicious, and Neutral/Friendly Actors
- **Technology Enables Effective Action** – Violent and Nonviolent – and Rapid Adaptation
- **Lack of Effective Governance or Rule of Law**

Threats

Terrorist | Paramilitary | State Actor

Criminal | Militias | Hybrids

Malicious Actors

Radical Ideologues | Criminals

Opportunists | Competitors

"Neutrals" and Friendlies

Media | Population?

NGOs

Coalition Partners

Characteristics

Lethal
- Well Armed
- Technology Proliferates to Many
- Non-linear Relationship between Economic and Military Power

Persistent
- Victory Ill Defined
- **Blurred Transitions,** e.g. Conflict to Post Conflict.
- Unexpected Friction

Asymmetric
- Sidestep US Preferred "Way of War"
- Deny ISR & Strike Options
- Exploit Cyber
- Unforeseen Effects from Actions

What We've Learned Since 2001…

Army Intel Must Adapt

New Norm

Resolution Thresholds Required at the Find – Fix Intersection

IDENTITY Resolution	None	Presence	Behavior		Association	Positive ID
GEOLOCATION Resolution	Country	City	Neighborhood		House/Vehicle	
TEMPORAL Resolution	Months	Weeks	Days	Hours	Mins	Real-time

KEY: Network Attack · IDF Teams · IED Emplacers

The Operational Environment Has Changed

- ***Networked Versus Hierarchal Threats: The Norm***
  - ***Multitude of Actors, Networks***
- ***Hi-Res Tracking, Multi-INT Confirmation A Must***
  - **Support Engagement at the Lowest Level**
  - **Individual Identity Resolution, Discriminate Lethality**
  - **Socio-Cultural Context A Must**
- ***National to Tactical Intelligence Support Required***
  - **Access to IC Networks, Experts at All Levels A Must**
  - **Premium on PED, Reach back – Critical Investment**
- ***Real-Time Intel/Ops Integration Essential to Enable Decentralized Operations at Team/Squad Level***

Requires Investment in:

- **FMV Sensors – Hi Resolution**
- **SIGINT (Geo-location)**
- **DOMEX**
- **HUMINT (Interrogation)**
- **HUMINT (Source Ops)**
- **Counter Intelligence (Insider Threat)**
- **Advanced SIGINT (Internals/CNO)**
- **Increased PED**
- **Advanced Analytics, Fusion**
- **Assured Connection to LandISRNet**
- **Language/Regional Immersion**
- **No Cold Starts, No *MI Soldier At Rest***
- **Globally Engaged, Employable**

New Capabilities

Intel 2020 and Beyond

New Structures

Expand Regional, Global Depth -- Provide COCOMs Fidelity to Identify Individuals, Networks…

Intel 2020 and Beyond… What We Are Investing In

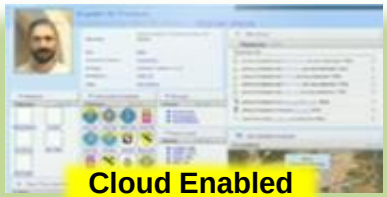
Expand Access, Extend Reach, Reduce Blinks, Expand Ops

Shared Situational Awareness

Intelligence 2020
LandISRNet

Shared Purpose

1 DCGS-A
Ubiquitous Access to Data

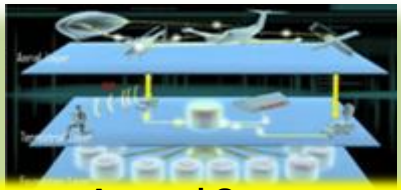


Cloud Enabled
Ease of Use

Advanced Analytics

Joint/IC Interoperable
CPOF/MC Interoperable

2 RITE
Relevant Intelligence to the Edge



Assured Comms

Robust Processing Power

To the Edge

3 Integrated Sensors/Collectors
Aerial, Terrestrial, Cyber

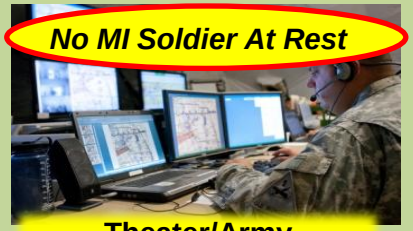
Optimized

Multi-Functional

Fully Integrated

4 Foundry/IROC
Fully Leveraging the Force

Home Station/ Reach



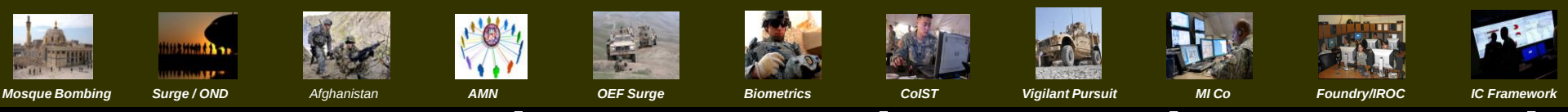
Theater/Army

Empowering Our Soldiers
At the Forward Edge

5 Enhanced Force Structure

Theater – GCC/ASCC – SOF – JTF/Corps – Division – BCT – Battalion – Company - Squad
- National to Tactical Enterprise -

Distributed Common Ground Station – Army (DCGS-A)



Joint Intelligence Operations Capability-Iraq/Afghanistan 2005 → DCGS-A to Afghanistan 2007 → DCGS-A Global Enterprise 2010 → DCGS-A to Intelligence Community Cloud 2012

Sensor Data

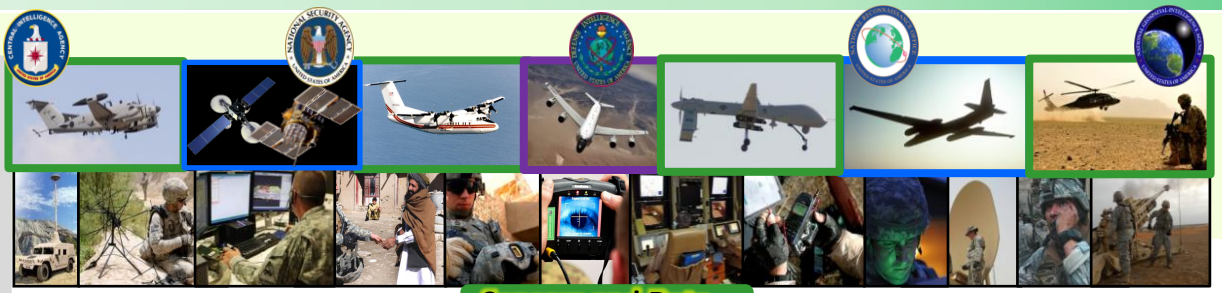
Comms & Down Links

Processing

Tagging Security

Exploitation & Analysis Tools

Tactical Operations Center (TOC)



ISR Sensor Surge
- Tripled Human Sensors
- Quadrupled Aerial Collection Hours per Month
- Document & Media Collection
- Tactical Biometric Collection
- Text Databases Explode

Sensors and Data

SIGINT | GEOINT MASINT | HUMINT | Biometrics | FMV | DOMEX | Radar | Battlefield Reporting

1 Common Enterprise Framework - IC

2 Accessible Data

Migrate to Cloud

Advanced Analytics

3 Common Workstations

SIPC

5 SIPRNet

Direct to Decision Maker for Target Execution and Immediate Tactical Awareness

5 DCGS-A

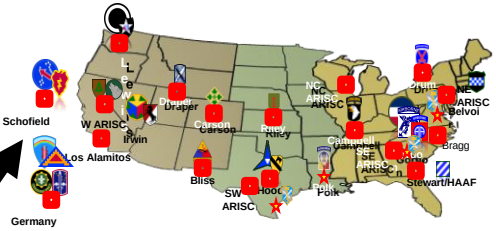
Common Understanding and Fusion

NSANet
SIPRNe
JWICS
Coalitio n

DCGS-A

- Common Enterprise Framework
- Common Data Ingestion and Tagging
- Common Analysis/Exploitation Platform
- Ability to Manage Data
- Advanced Analytics
- Common Understanding at All Echelons
- Reliable Reachback to IC

4 Intelligence Reach



Opportunities:
- ❑ Expand Access, Enable Reach
- ❑ Fusion
- ❑ Situational Understanding

Relevant Intelligence to the Edge Initiative (RITE)
ISR Communications & Processing Beyond the COP

AMERICA'S ARMY:
THE STRENGTH OF THE NATION

What is Relevant ISR to The Edge?

SPACE LAYER

CONUS Data Links

Inter Theater Data Links

FOUNDRY/IROC

Headquarters/ Airbase

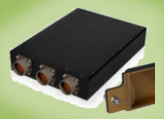
Forward Operating Base

Mesh Aerial Layer

QNT Radio
Software Defined
2-8MBps
150nmi

Mesh Networking
Deployed to OEF ~18 Months
Supporting 1 BCT in OEF

Micro Computing



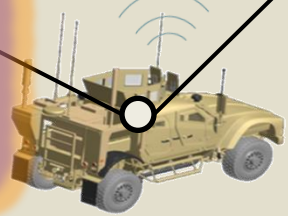
Micro Computing
100s of Cores
Low Power

Vigilant Pursuit
Deployed to OEF
14 Vehicles Supporting OEF

Tactical Cellular

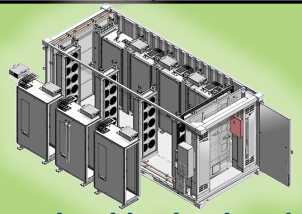
High Speed
Secure
14-42MBps
2km

3G/4G Cellular
Deployed to OEF ~ 18 Months



Vigilant Pursuit

Deployable Cloud Node



Deployed to OEF
Supporting OEF ~24 Months

EDGE Node

In Use at CKC

Soldiers at the "Edge"

EDGE Devices

Soldier Worn
Augmented HUD
Low Power
High Bandwidth

REF / DARPA / PEO Soldier

- ☑ Testing at Fort Huachuca APR2010
- ☑ Evaluation at NIE 11.2
- ☑ Deployment to OEF (RC-S)
- ☑ ISR Sensor Testing at Fort Dix
- ☑ DCGS-A Lite Connectivity Testing
- ☐ 18th Airborne Corps JOAX
- ☐ NIE 14.1
- ☐ Requirements CDD ICW SIGCoE
- ☐ Potential Solution for WIN-T(3)(I)

Deployed Technology

Component of RITE

NIE 14 Series Participant

Previous NIE Participation

RITE: Enabling Tactical Communications, Collection, and Computing

Integrated Sensor Coverage Area (ISCA)

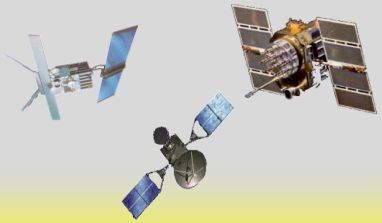
AMERICA'S ARMY:
THE STRENGTH OF THE NATION

Integrated Sensor Coverage Area

Four Layers

Space

Imagery, SIGINT, OPIR, Strategic Comms, GPS



1 Aerial

SIGINT, GMTI/DMTI, HIS, WAS, EO/IR, HD FMV, FOPEN, LIDAR

Aerial ISR Strategy 2020

2 Terrestrial

SIGINT, HUMINT, MASINT, ES2, RITE, Multi-Functional Tms, 3G/4G Comms

Vigilant Pursuit MFT Solution

3 Cyber

Offensive Operations
Defensive Operations
Defend the Homeland

780th Expansion

Seamless Sensor Integration

DCGS-A / IC Cloud

National to Tactical — *Analyst*

1 *FOUNDRY / IROC*

Foundational Layer

TACTICAL FORCE

Tailored ISR Sensor Packages for All Contingencies

Foundry / Intelligences Readiness Operations Capability (IROC)

Foundry: No Cold Starts

90,000 Soldiers Trained

Foundry

- Target Immersion
- Pre-Deployment QRC Systems Training
- Network Access DCGS-A, NSA-Net
- MTTs/LETs
- Theater/Intelligence Community Accreditations
- Intelligence MOS Technical Skills Sustainment/SME Access
- SMEs/Mentors
- SCIFs
- Secure Classrooms

Foundry Requirements

- COCOM/ASCC Mission/Rqts
- Commander's Training Priorities
- Commander's Intelligence Focus
- Unit METL

Unit MI Elements: SIO, MSE G2, BDE S2, MICO, BN S2, COIST, ACE, AEB, JDIC, BfSB…

UGS | JIDCs | UAS | MFTs
DCGS | Analysts | Biometrics
Source Ops | GEOINT | CoIST
CI | Interrogation | Aerial ISR
MICO | DOMEX | SIGINT

Results

- Increased Intelligence Soldier Readiness
- Improved Collective Task/METL Proficiency
- Improved Support & Enhancement of Mission Command
- Increased Unit/Army Readiness

Home Station

MTT

LET

Collective Training

Gate

1 Institutional — *Foundational*

2a Home Station Training

2b Foundry
- Unit — *Tm/Collective SCI Access/LET*
- Immersion/Credentialing — *Technical/ TGT Immersion*

3 Culminating Training Event — *Tm/Crew/Unit Operations*

Overwatch

4 Allocated/Apportioned — *Overwatch/Reachback*

Force Structure Initiatives

Army MI – On Point Around the Globe

Globally Engaged

- COCOM/ASCCs' Force of Choice
- Providing Multi-Int Support to BCTs, Divs in the Fight…
- Anchoring Theaters' Read of the Human Domain
- Building Partnership Capacity
- Ensuring No Cold Starts…
- No MI Soldier at Rest…

Adjusting to Emerging Threats

- Thickening the Army and DOD's Cyber, HUMINT Forces
- Reinforcing the Army's Boundaries Against the Insider Threat

Integrating New Tech/TTPs

- Integrating Advanced Technology Into the Force
- Introducing New Concepts, TTPs for Soldier Employment
- Advancing Solutions to Tomorrow's Problems

Enabling Decisive Operations While Transforming in the Breach

Questions