Army Intelligence 2020 and Beyond
• 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 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

“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
• **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
**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

**Malicious Actors**
- Criminal
- Militias
- Hybrids

**“Neutrals” and Friendlies**
- Radical Ideologues
- Criminals
- Opportunists
- Competitors
- NGOs
- Coalition Partners
- Media
- Population?

**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

*Army Intel 2020 – Must Build An Adaptive Force That Can Understand The Environment*
What We’ve Learned Since 2001…

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**

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**Army Intel Must Adapt**

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

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**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

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

**New Capabilities and Beyond**

- New Structures
AMERICA’S ARMY: THE STRENGTH OF THE NATION

Intel 2020 and Beyond… What We Are Investing In

Expand Access, Extend Reach, Reduce Blinks, Expand Ops

Shared
Situational Awareness

Intelligence 2020
LandISRNet

1 DCGS-A
Ubiquitous Access to Data

Cloud Enabled
Ease of Use

2 RITE
Relevant Intelligence to the Edge

Advanced Analytics

3 Integrated
Sensors/Collectors
Aerial, Terrestrial, Cyber

Robust Processing Power

4 Foundry/IROC
Fully Leveraging the Force

To the Edge

5 Enhanced Force Structure

Joint/IC Interoperable
CPOF/MC Interoperable

No Cold Starts

Home Station/Reach

No MI Soldier At Rest

Theater/Army

Empowering Our Soldiers
At the Forward Edge

Theater – GCC/ASCC – SOF – JTF/Corps – Division – BCT – Battalion – Company - Squad
- National to Tactical Enterprise -
Distributed Common Ground Station – Army (DCGS-A)
AMERICA'S ARMY: THE STRENGTH OF THE NATION

DIRECT TO DECISION MAKER FOR TARGET EXECUTION AND IMMEDIATE TACTICAL AWARENESS

SIPRNet

NSANet

Coalition

JWICS

Comms & Down Links

Processing

Tagging Security

Exploitation & Analysis Tools

Tactical Operations Center (TOC)

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

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

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

DCGS-A Global Enterprise 2010

DCGS-A to Intelligence Community Cloud 2012

DCGS-A to Afghanistan 2007

Joint Intelligence Operations Capability-Iraq/Afghanistan 2005
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

Inter Theater Data Links

Deployable Cloud Node
- Deployed to OEF Supporting OEF ~24 Months

Deployed Technology
- Component of RITE
- NIE 14 Series Participant
- Previous NIE Participation

Edge Node
- In Use at CKC

Forward Operating Base

Mesh Aerial Layer
- QNT Radio
- Software Defined
- 2-8MBps
- 150mni
- Mesh Networking
- Deployed to OEF ~18 Months
- Supporting 1 BCT in OEF

Tactical Cellular
- High Speed
- Secure
- 14-42MBps
- 2km
- 3G/4G Cellular
- Deployed to OEF ~ 18 Months

Micro Computing
- Micro Computing
- 100s of Cores
- Low Power
- Vigilant Pursuit
- Deployed to OEF 14 Vehicles Supporting OEF

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)

RITE: Enabling Tactical Communications, Collection, and Computing
Integrated Sensor Coverage Area (ISCA)
Integrated Sensor Coverage Area

Four Layers

- **Space**
  - Imagery, SIGINT, OPIR, Strategic Comms, GPS

- **Aerial**
  - SIGINT, GMTI/DMTI, HIS, WAS, EO/IR, HD FMV, FOPEN, LIDAR
  - Aerial ISR Strategy 2020

- **Terrestrial**
  - SIGINT, HUMINT, MASINT, ES2, RITE, Multi-Functional Tms, 3G/4G Comms
  - Vigilant Pursuit MFT Solution

- **Cyber**
  - Offensive Operations
  - Defensive Operations
  - Defend the Homeland
  - 780th Expansion

Seamless Sensor Integration

DCGS-A / IC Cloud

Foundational Layer

- National to Tactical Analyst
- TACTICAL FORCE

Tailored ISR Sensor Packages for All Contingencies
Foundry / Intelligences Readiness Operations Capability (IROC)
Foundry: No Cold Starts

Foundry Requirements
- COCOM/ASCC Mission/Rqts
- Commander’s Training Priorities
- Commander’s Intelligence Focus
- Unit METL

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

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

Home Station Training
- UGS
- JIDCs
- UAS
- MFTs
- DCGS
- Analysts
- Biometrics
- Source Ops
- GEOINT
- CoIST
- CI
- Interrogation
- Aerial ISR
- MICO
- DOMEX
- SIGINT

MTT

LET

Collective Training

Gate
1
Institutional

2a
Home Station Training

2b
Foundry

3
Culminating Training Event

4
Allocated/Apportioned

Gate
1
Institutional

2b
Foundry

3
Culminating Training Event

4
Allocated/Apportioned

Gate
1
Institutional

2b
Foundry

3
Culminating Training Event

4
Allocated/Apportioned

Gate
1
Institutional

2b
Foundry

3
Culminating Training Event

4
Allocated/Apportioned

Gate
1
Institutional

2b
Foundry

3
Culminating Training Event

4
Allocated/Apportioned

Gate
1
Institutional

2b
Foundry

3
Culminating Training Event

4
Allocated/Apportioned

Gate
1
Institutional

2b
Foundry

3
Culminating Training Event

4
Allocated/Apportioned

Gate
1
Institutional

2b
Foundry

3
Culminating Training Event

4
Allocated/Apportioned
Force Structure Initiatives
**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

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*Enabling Decisive Operations While Transforming in the Breach*