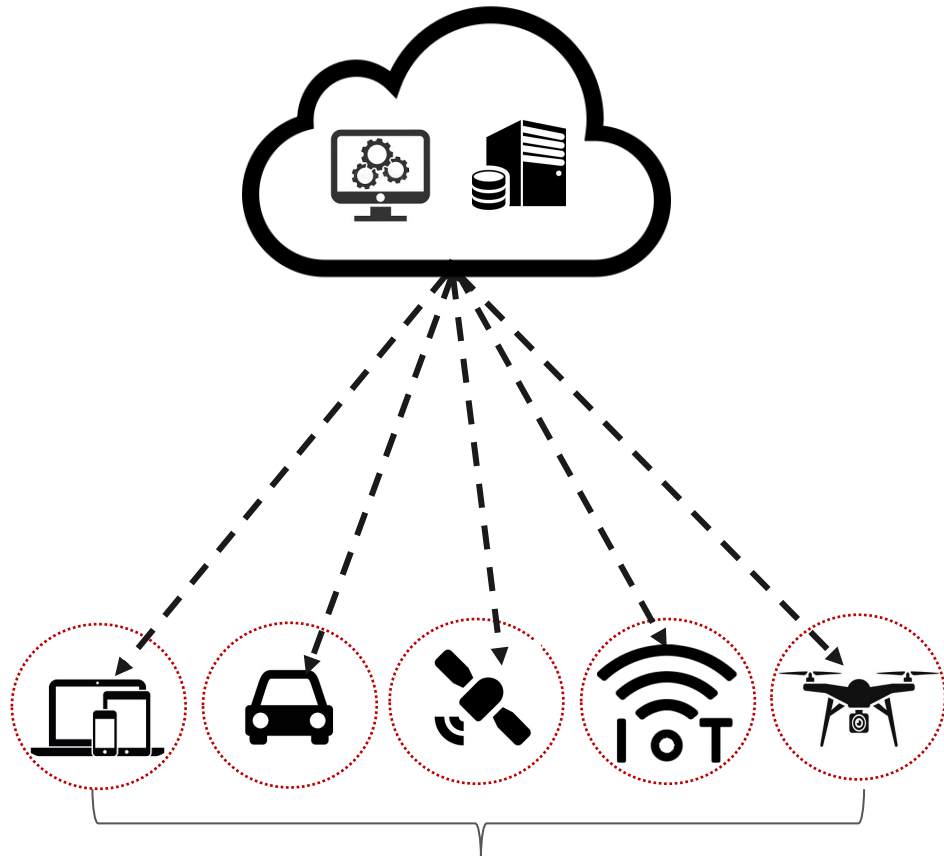# KINN△MI
Resilient Data Everywhere

HYBRID DATA FABRIC FOR THE CONNECTED WORLD

NGA ACCELERATOR – JUNE 24, 2021

DATA IS INCREASINGLY DISTRIBUTED AT THE EDGE

KINNAMI

Devices at the computing edge

" **75%** *of data at the edge by 2025*

– Gartner "

Edge computing needed for:

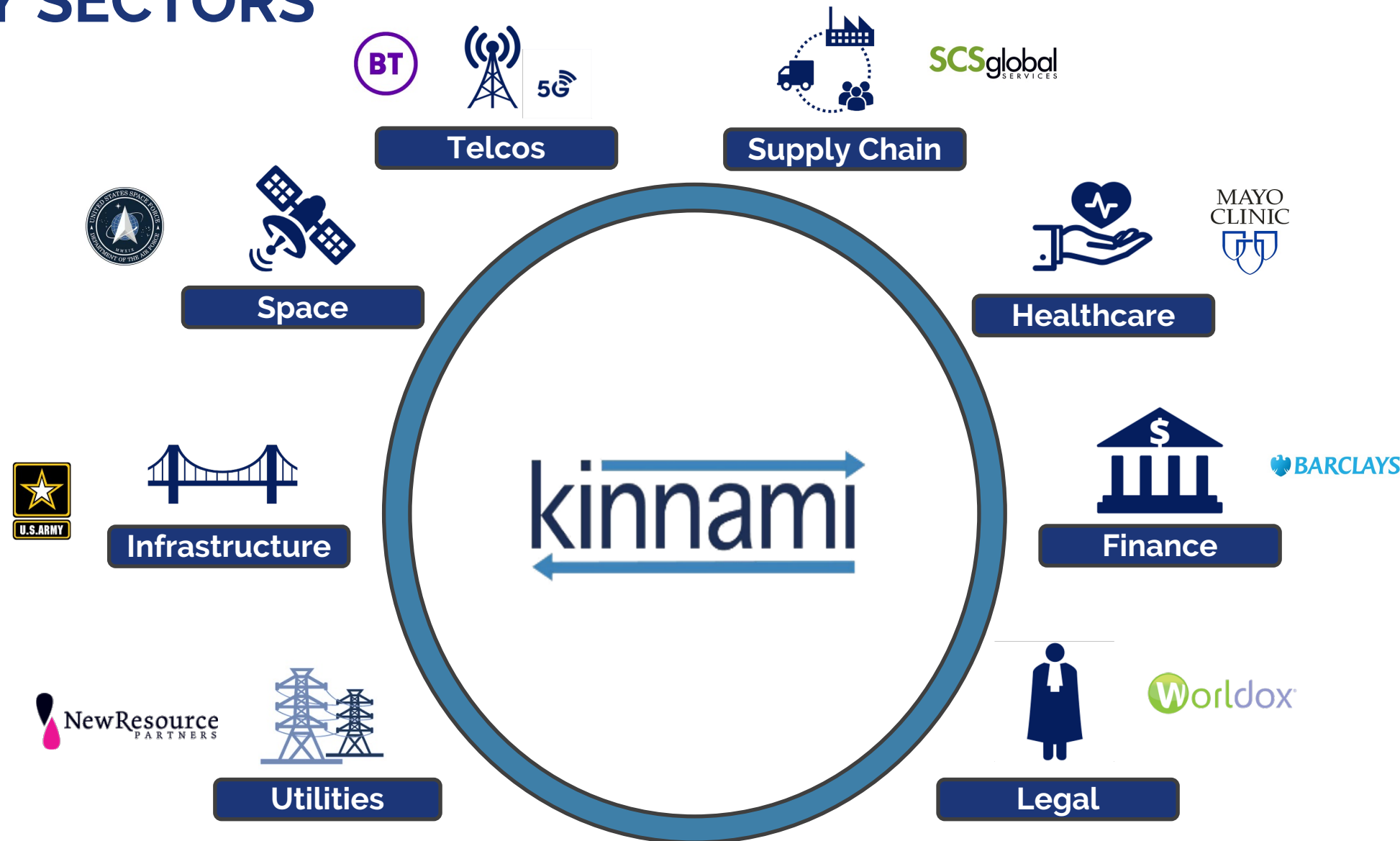- Real-time processing
- Large volumes of data
- Autonomous operations

HANDLING EDGE DATA IS A CHALLENGE FOR MANY SECTORS
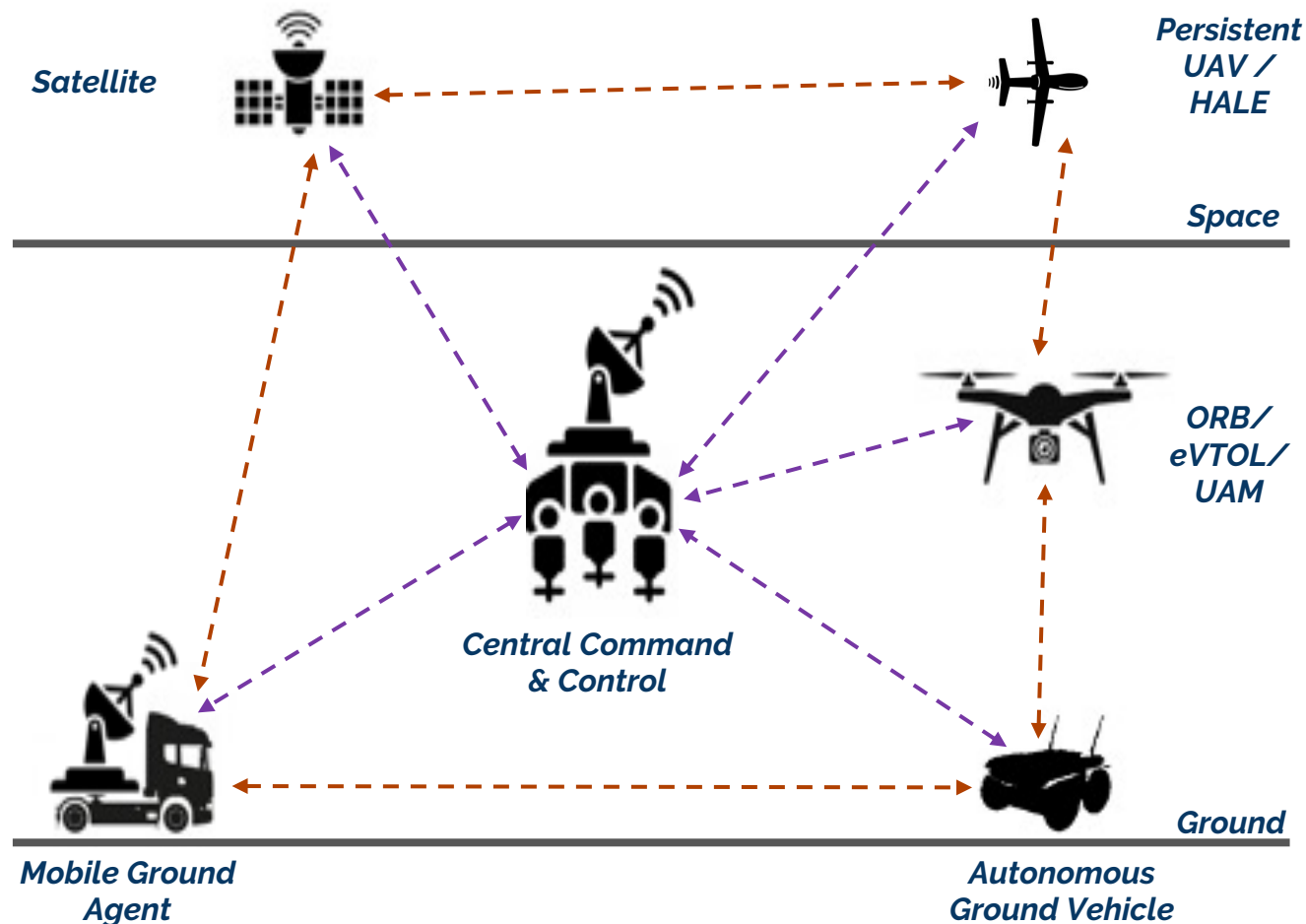
KINNAMI

Telcos

BT
5G

Supply Chain

SCSglobal
SERVICES

Space

UNITED STATES SPACE FORCE
DEPARTMENT OF THE AIR FORCE

Healthcare

MAYO CLINIC

kinnami

Infrastructure

U.S.ARMY

Finance

BARCLAYS

Utilities

NewResource
PARTNERS

Legal

Worldox

HELPING THE U.S. AIR FORCE DEVELOP SECURE AIR DATA NETWORKS

Distributed Air Data Networks for Autonomy

- Satellite
- Persistent UAV / HALE
- Space
- Central Command & Control
- ORB/ eVTOL/ UAM
- Mobile Ground Agent
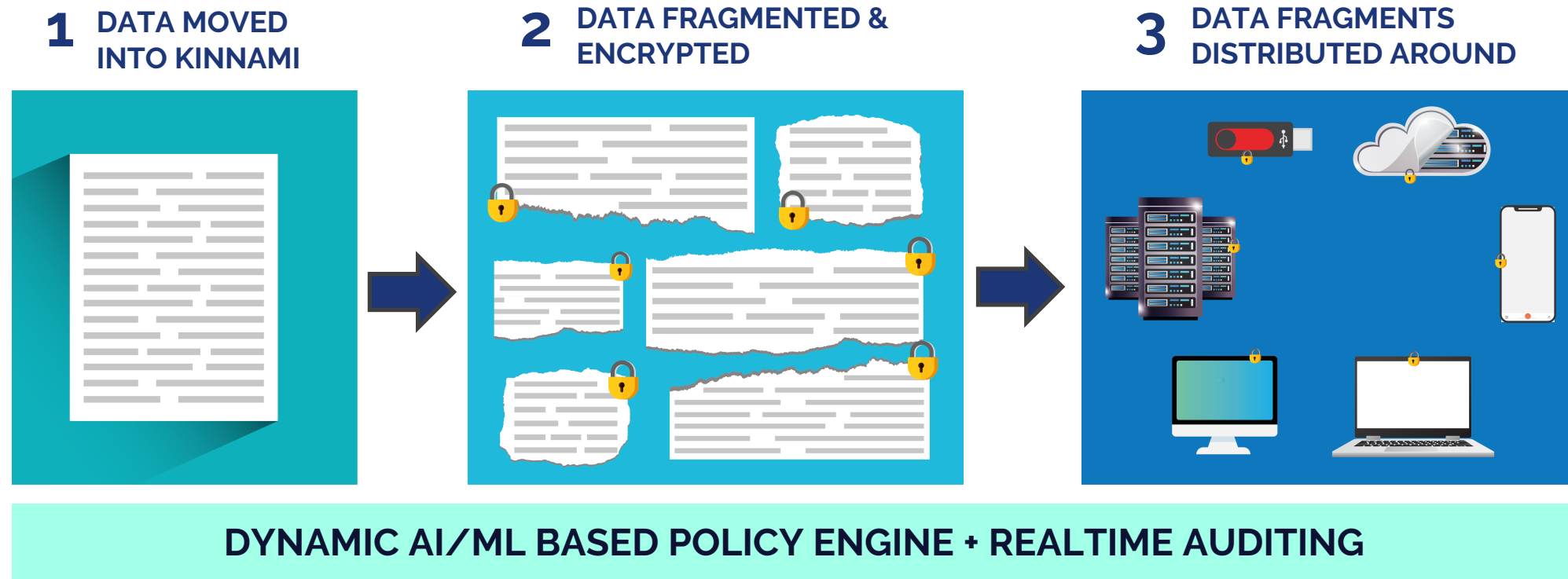- Autonomous Ground Vehicle
- Ground

IT DEPARTMENTS CANNOT IGNORE
THE EDGE ANYMORE

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> **Existing Patchwork of IT Solutions Will Not Work for Secure Data Management at the Edge!**

🔧 Millions & billions of devices

🔧 Devices not physically secure

🔧 Network reliability not guaranteed

🔧 IT resources are not always available

DATA BREACHES GROWING EXPONENTIALLY

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**GLOBAL INCIDENT ACTIVITY GROWTH VS. 2009
(BASED ON # OF INSURANCE CLAIMS FILED)**

Claim Growth, %

Legend: Social | Unknown | Physical | Misuse | Malware | Hacking | Error

OUR UNIQUE SOLUTION: DISTRIBUTED P2P DATA MANAGEMENT & SECURITY SOFTWARE

KINNAMI

1 DATA MOVED INTO KINNAMI

2 DATA FRAGMENTED & ENCRYPTED

3 DATA FRAGMENTS DISTRIBUTED AROUND

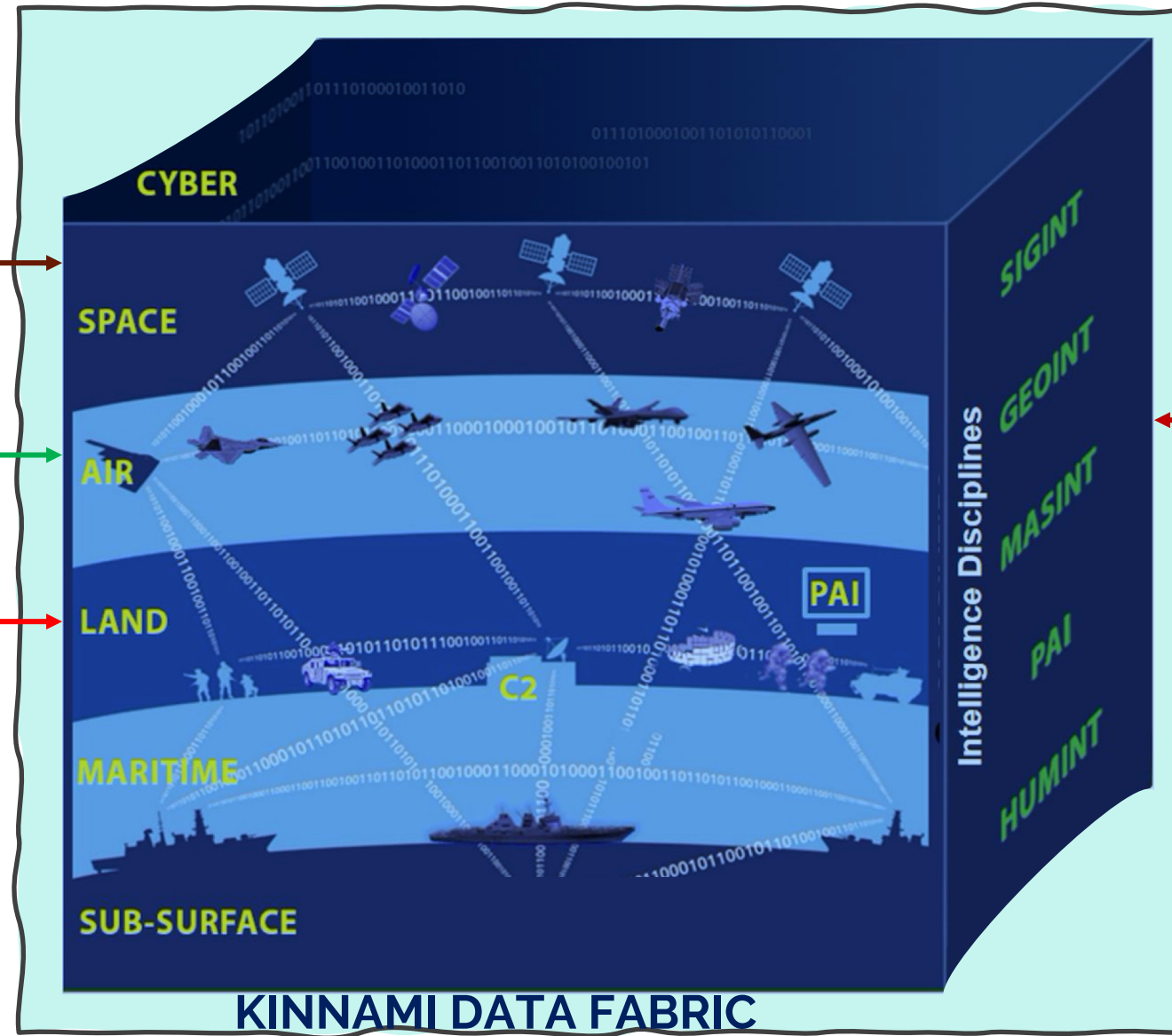**DYNAMIC AI/ML BASED POLICY ENGINE + REALTIME AUDITING**

CURRENT DoD USE CASES

- Secure space data sharing
- Secure air data networks
- Sensor data infrastructure
- Digital engineering data management

KINNAMI DATA FABRIC

SUPPORTING NGA MISSION NEEDS

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Data Sharing

- ✓ **Near-Real Time Operational GEOINT Data Updates (SFG)**

- ✓ **Near Real-time Delivery of Mission Critical Data to Edge (SFA, SFH, SFD, TDOC)**

- ✓ **Data Collaboration w/ External Partners – NASA, Commercial Cos (SF)**

Multi-Level Security

- ✓ **Near Real-time Geo-Fencing for Classified Information (N2W-R)**
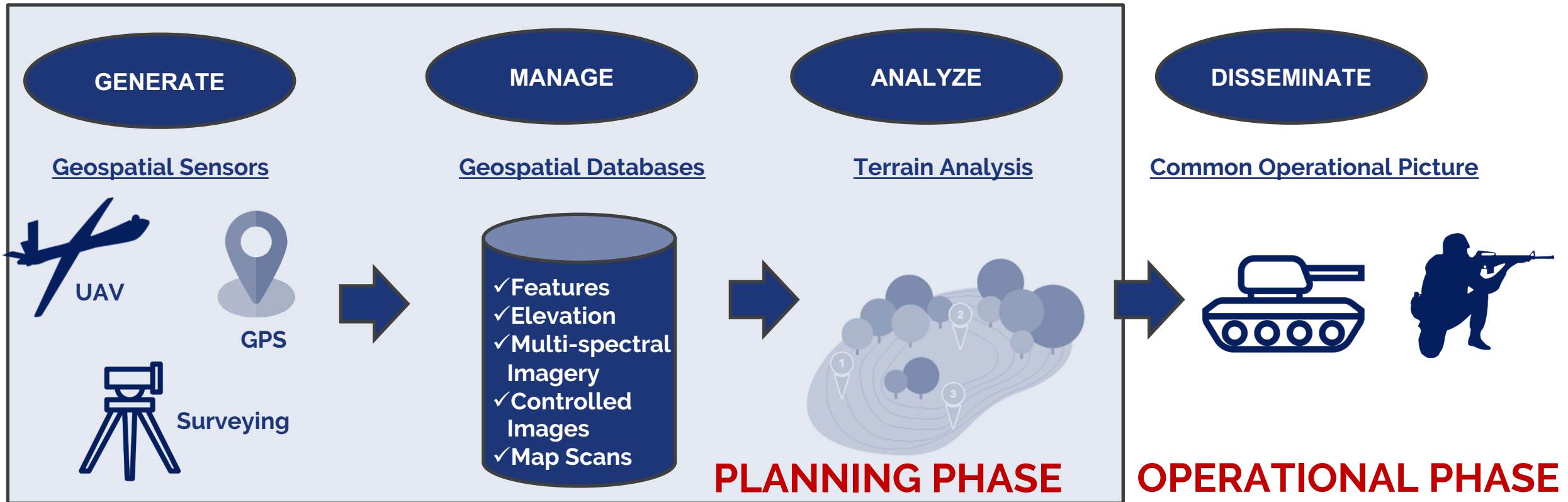
Chain of Custody

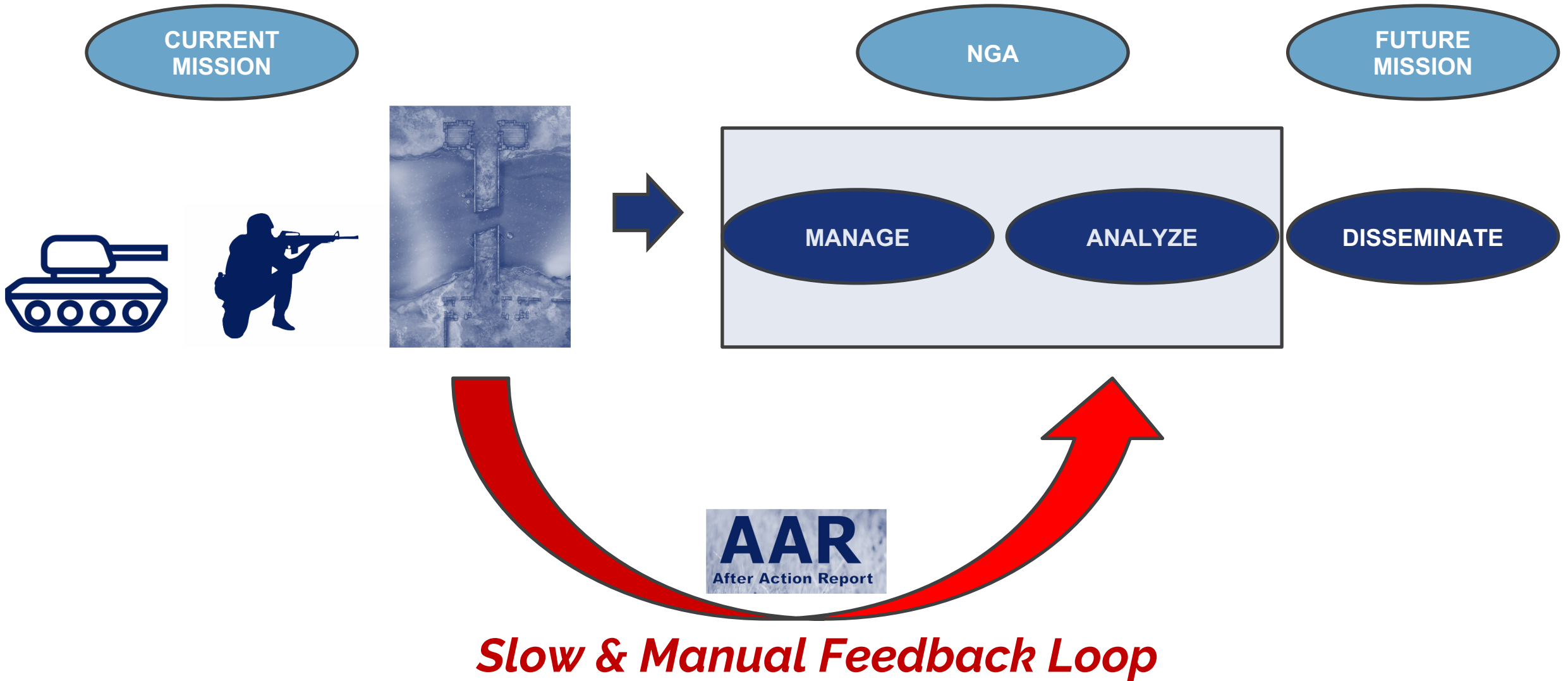- ✓ **Automatic Cradle to Grave Immutable Records Management & Tracking (SF)**

NEAR REAL-TIME GEOINT DATA UPDATES DURING MISSIONS

KINNAMI

GENERATE

Geospatial Sensors

UAV

GPS

Surveying

MANAGE

Geospatial Databases

✓ Features
✓ Elevation
✓ Multi-spectral Imagery
✓ Controlled Images
✓ Map Scans

ANALYZE

Terrain Analysis

DISSEMINATE

Common Operational Picture

PLANNING PHASE

OPERATIONAL PHASE

NEAR REAL-TIME GEOINT DATA UPDATES DURING MISSIONS

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CURRENT MISSION

NGA

FUTURE MISSION

MANAGE   ANALYZE

DISSEMINATE

KINNAMI

Secure Continuous Feedback
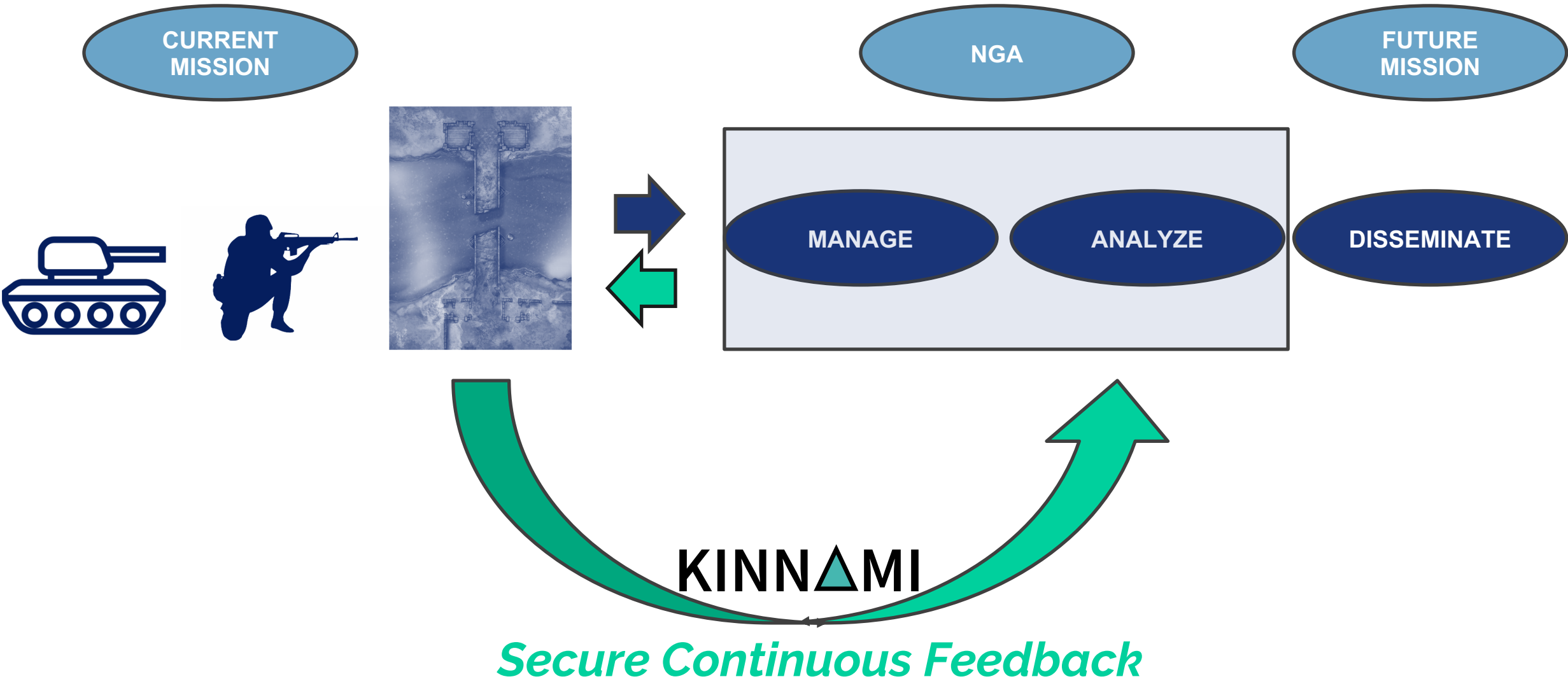
KINNAMI UNIQUELY BRINGS RESILIENT DATA MANAGEMENT TO EDGE COMPUTING

STORAGE SOLUTIONS

SECURITY SOLUTIONS

Microsoft Azure

Symantec

aws

KINN△MI DLP

Google Cloud

Forcepoint

virtru

LED BY SEASONED OPERATORS

KINNAMI

EXECUTIVES

Sujeesh Krishnan	Chris Chandler	Patricia Frair	Dr. Eng Lua	Edward Chandler	Dr. Sam Bakri
CEO	CTO	CMO / Advisor	CIO / Advisor		

Sujeesh Krishnan — CEO
i2, EY, MIT

Chris Chandler — CTO
VERITAS, Symantec, University of BRISTOL

Patricia Frair — CMO / Advisor
MCC, viota, NEWISYS, Cornell University

Dr. Eng Lua — CIO / Advisor
NTT, Microsoft, UNIVERSITY OF CAMBRIDGE

Edward Chandler
MERRILL (A Bank of America Company), London Business School, PAI PARTNERS

Dr. Sam Bakri
MAYO CLINIC, Kind consumer, HARVARD BUSINESS SCHOOL

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Pervade Software, CYBER WALES

Dr. Guy Bunker — Cybersecurity & DLP Expert
VERITAS, hp, clearswift

Dr. Dan Geer — Computer Security Researcher
MITPROJECTATHENA, OpenMarket
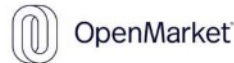
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