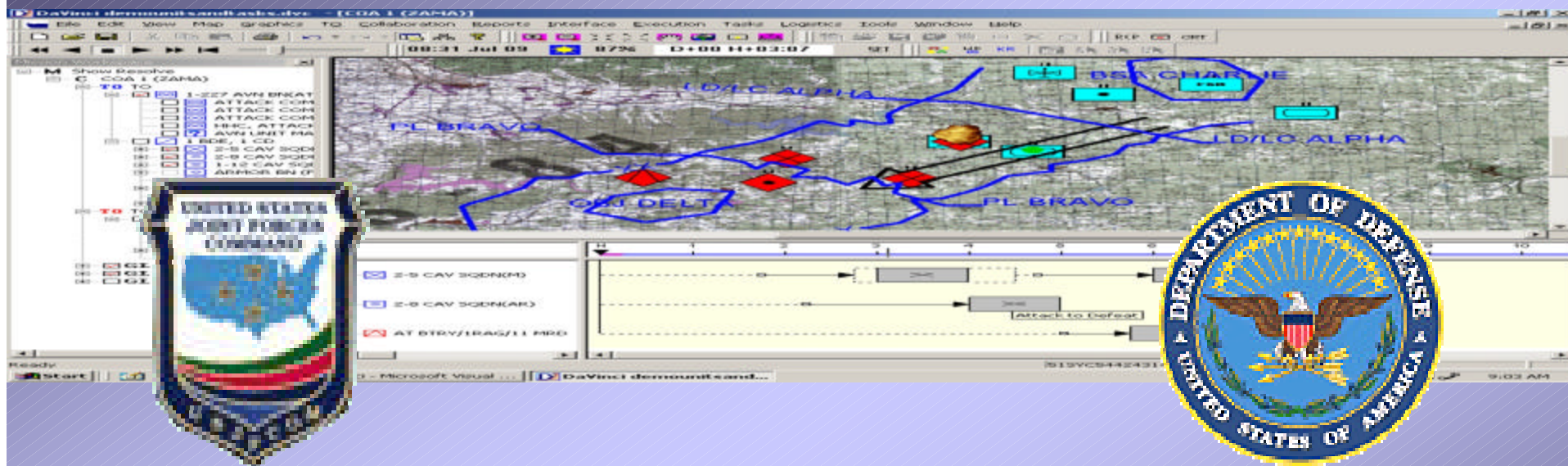


# Single Integrated Ground Picture



## 2003 Interoperability and System Integration

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# Single Integrated Ground Picture (SIGP) Vision ...

- The SIGP is the **collection, correlation** and **visualization** of force level data that depicts current locations, battlefield geometries, resources and status' of red, blue, gray and other ground battlefield forces and systems.
- The SIGP uses **near real-time** and **real-time** information that is correlated, scalable and filterable, to support the tactical commanders C4ISR requirements.
- Data is provided to commanders via his System to Human Interface, **SHI**, (advanced situational maps and a series of overlays, resource tables, charts, reports, audio, etc.). The SIGP is **tailorable in content** and the **area of regard**, relevant to a given battle commander, to improve the commander's **situational understanding of the battlespace**.
- Through the use of advanced **collaborative tools** and **net-centric based capabilities**, the SIGP will expand the commander's knowledge and understanding of the battlespace, allowing the commander to more precisely and decisively command & control that battlespace.

# SIGP Implementation Strategy ...

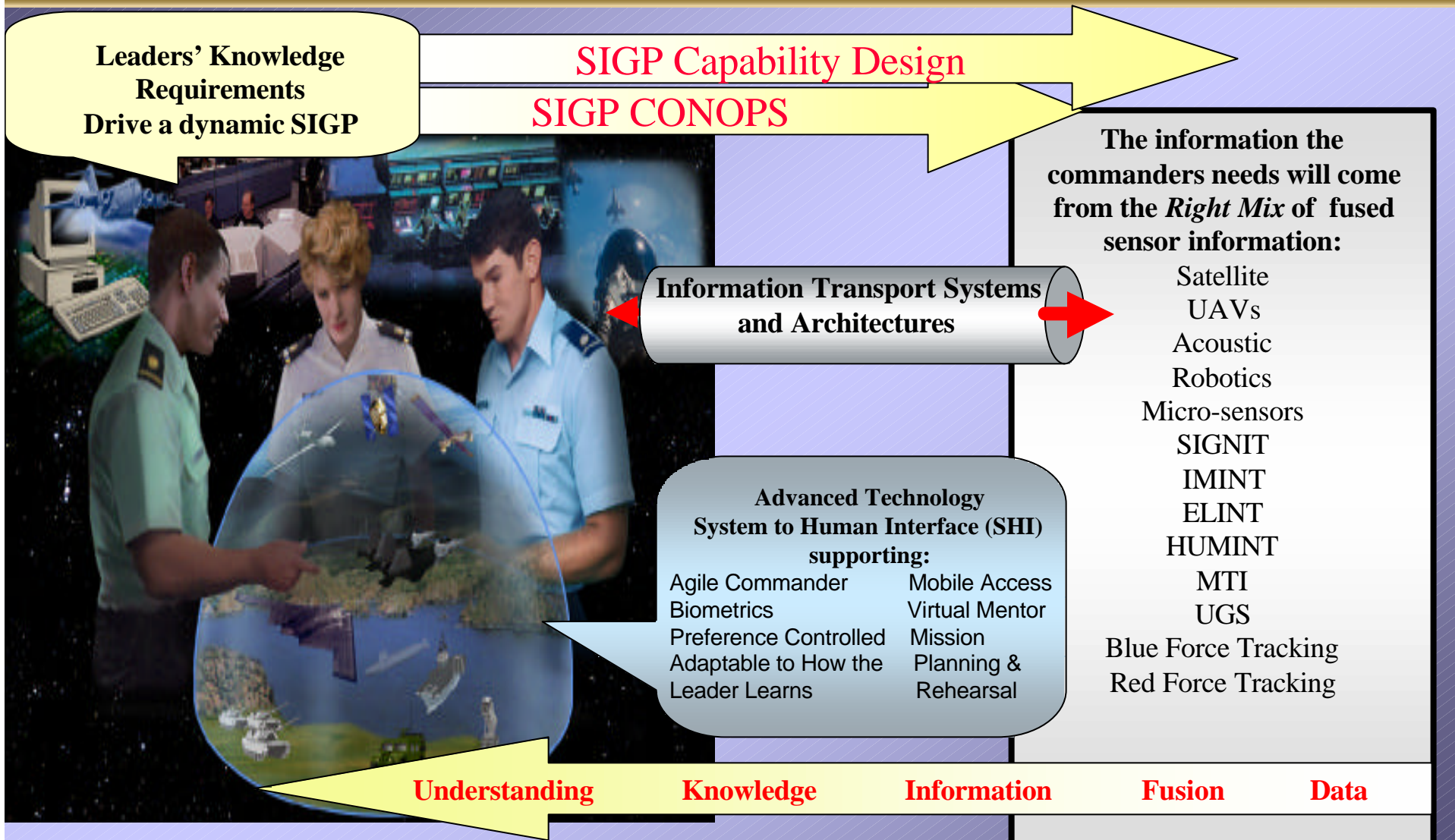
SIGP has two distinct phases focused on the **Warfighter's needs**

- Phase I – *Fix* selected legacy and POR systems' interoperability problems (Requires Baseline & Gap analysis)...*focus on combatant commander's issues and interests.*
- Phase II – *Transform* ground forces and systems into a capability based integrated, fully interactive, physical and logical networked force...with increased operational capability, tempo, and reduced overhead as key performance parameters...*focus on joint transformation initiatives.*

# *SIGP addresses today's Warfighter's Issue Trends...*

- **Coalition**
  - **COP**
  - **Info Exchange (Multi-level)**
  - **Language Translation**
  - **CONOPS**
  - **Interoperability**
- **Distributed Operations**
  - **Data Mining/Networks**
  - **System Baseline**
  - **COP(s) Sharing**
  - **Network Management**
  - **Joint Enroute Planning**
  - **MLS/Guards**
  - **Joint Fires**
- **ISR**
  - **CONOPS**
  - **Transmission**
  - **Storage**
  - **Intelligence System Management**
  - **Collaborative Information Environment**
  - **BFT**
- **Logistics**
  - **MTS**
- **Standing JTF**
  - **Architecture**
  - **CONOPS**

# Knowledge Requirements Drive the End to End Realization of the SIGP Capability



# SIGP - OSD Suggested Candidate Legacy Systems/Programs

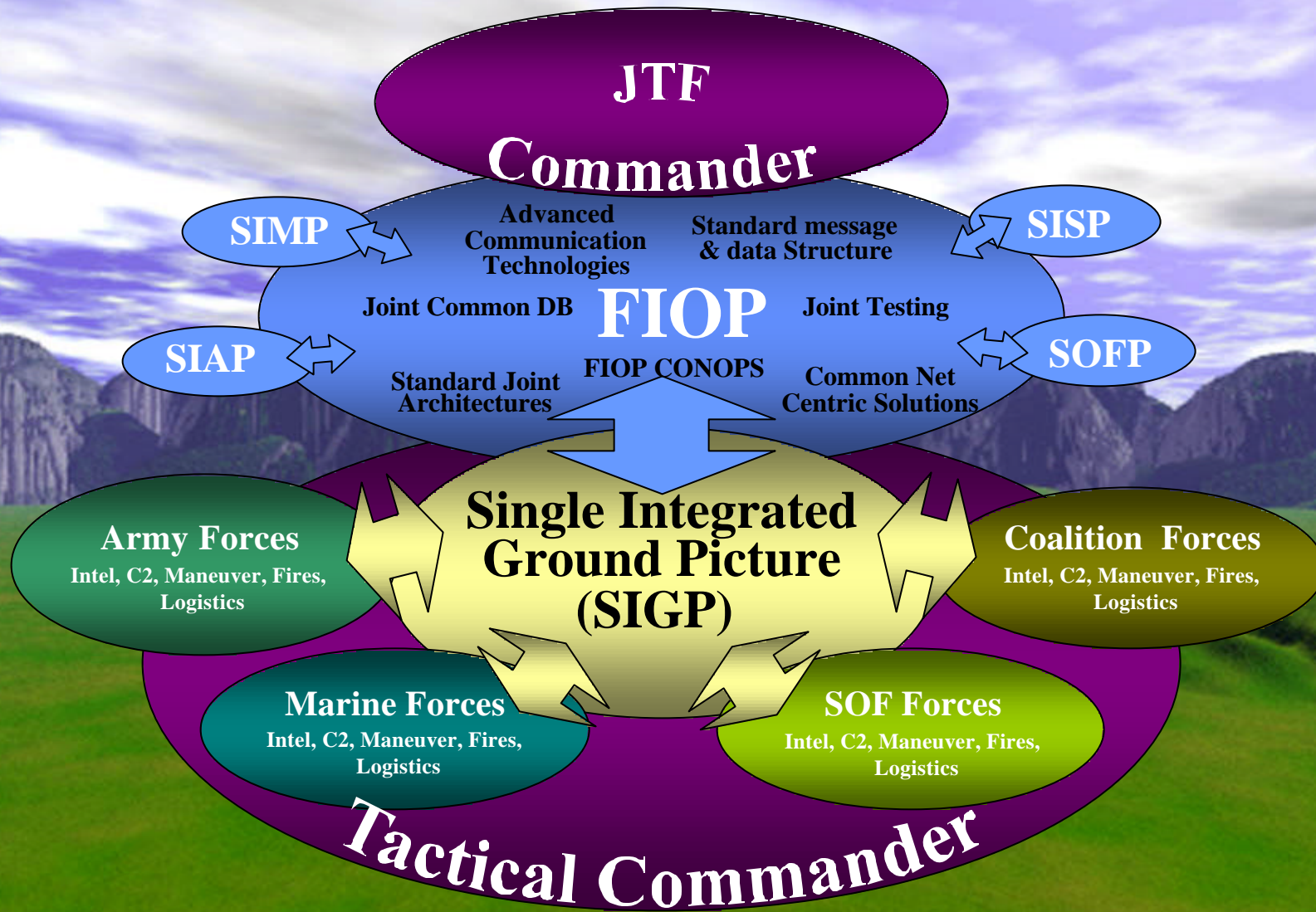
- Precision Engagement/Time Sensitive Targeting
- Blue Force Tracking
- Shared Tactical Ground Picture (multi- nation interoperability project)
- Coalition Combat ID ACTD (CCID ACTD)
- CAESAR Project (Coalition Aerial Surveillance and Reconnaissance)
- DOD Combat Identification Architecture
- Battlefield Target ID Device (BTID)
- MCS/TCO Interface (Army & Marine Corps, sponsored by JFCOM)
- Marine Corps Ground Picture (DCAT)
- Link 16 to VMF
- Link 16 ACTD
- MIP
- JTF WARNET
- 4D Cube (x,y,z, & time interoperability)
- FCS & its impact on legacy systems
- Joint fires Network/TES
- Movement Tracking System (MTS)
- Special Operations Forces Picture (SOFP)
  
- Target Location Error
- BDA
- Remote Tagging (RF Tags)
- Responsive CAS
- Information Fusion
- Automatic Assembly/disassembly of Networks
- Extending networks (Line of Sight/non Line of Sight)
- Multilevel Security

■ Initial Programs/Initiatives to concentrate on

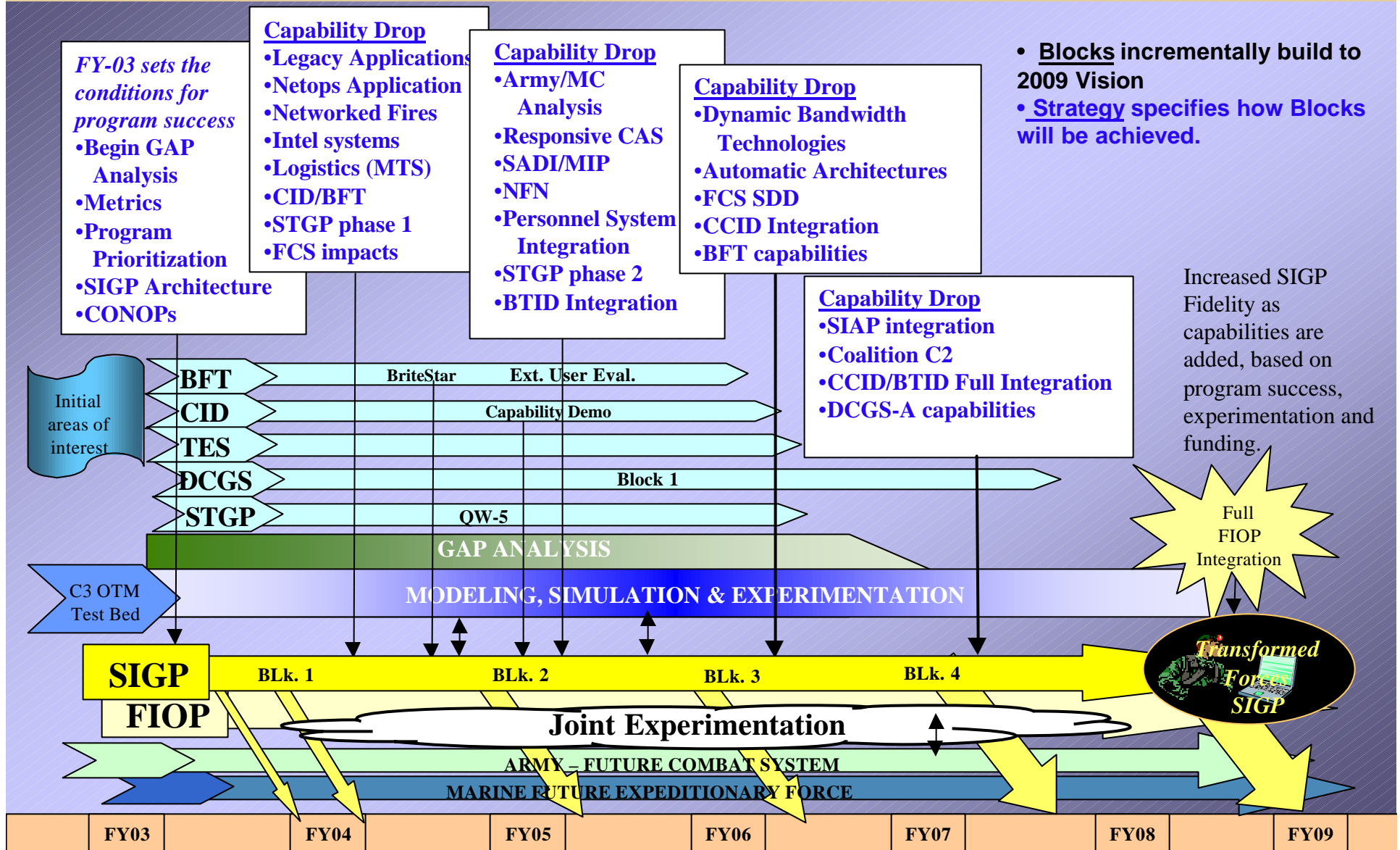
■ Programs Added upon investigation

- NCES
- Integration of Wire, Video, and Data Products into CTP
- Dynamic Bandwidth Allocation
- FIOP Integrator/oversight
- Secure GPS
  
- NFN
- SADI
- ADOCS
- NETOPS
- C2PC
- DCGS
- ABCS/FBCB2
- Software Blocking

# *SIGP in the Battlespace Concept...*



# SIGP Way Forward...Capability Spiral Drops





# The Logical Starting Point

