

The Digital Living Plan

Enabling the Third Offset and
Human-Machine Battle
Networks

The Autonomy Imperative

“There is one thing that will improve the performance of the battle network more than any other ... exploiting advances in artificial intelligence and autonomy. That will allow the joint force to assemble and operate human-machine battle networks of even greater power.”

Robert Work, Deputy Secretary of Defense

Speaking to the Air Force Association, Sep, 2016

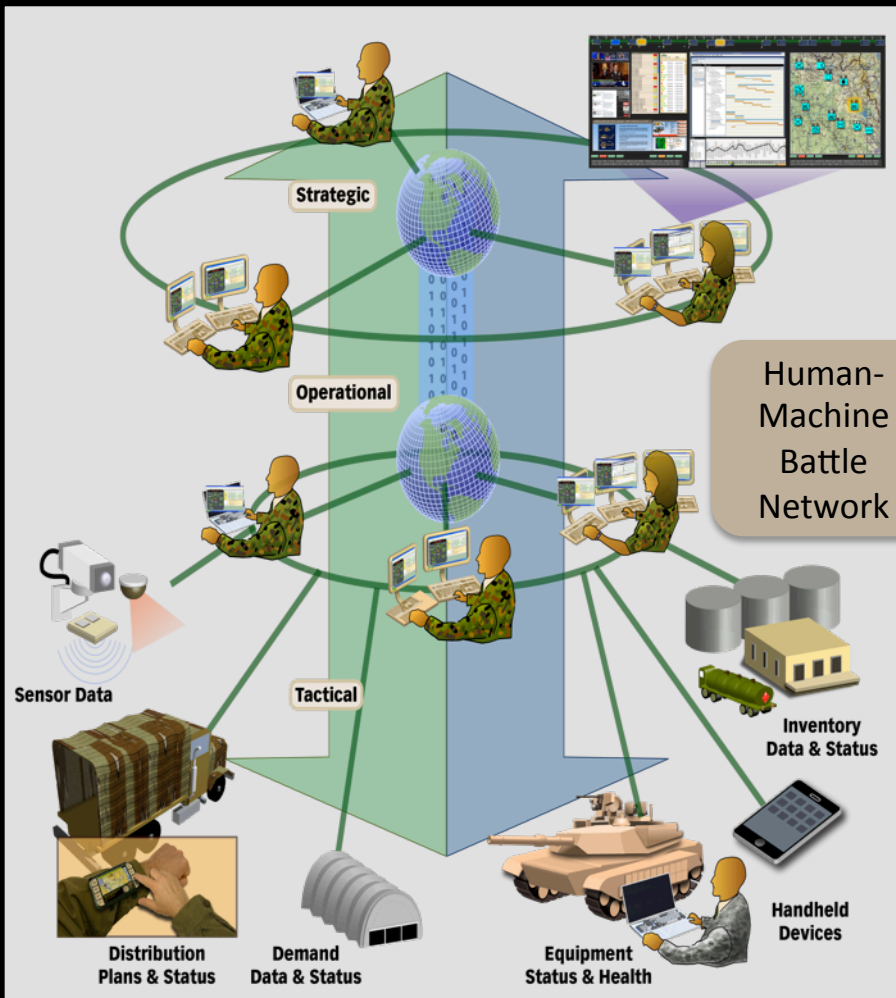
“...the mother of all technologies, artificial intelligence.”

GEN Mark Milley, Army Chief of Staff

Speaking at AUSA Annual Meeting, Oct, 2016

To achieve this vision – people, organizations and autonomy (robots & systems) must perform distributed collaborative planning and dynamic, adaptive execution

Distributed Collaborative Planning



• Digital Living Plan:

- Tasks x Units x Resources in Space & Time
- Supports secure, distributed fine-grained collaborative planning
- Supports automated decision support for planning & execution

Interconnects:

- Ops – Log – Intel
- Strategic – Operational - Tactical
- Planning – Execution
- Soldiers, Devices, Weapon Systems
- Joint / Coalition
- Interoperability with Enterprise systems

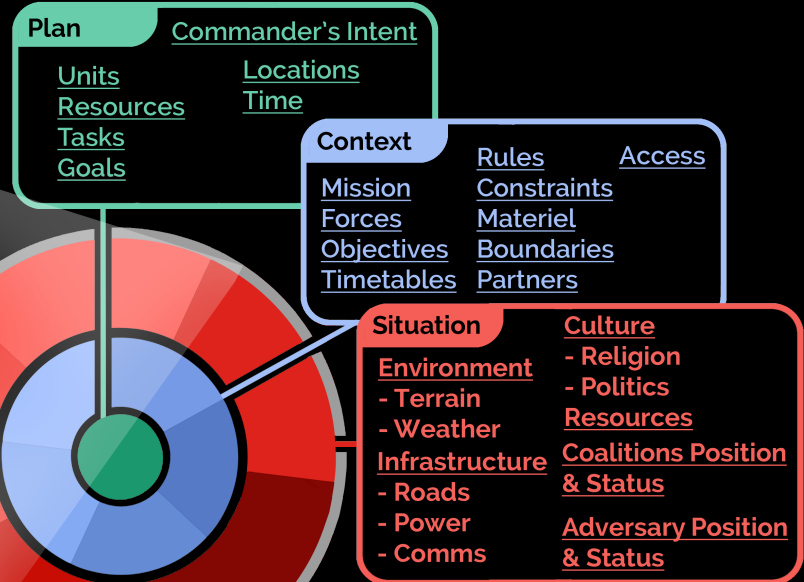


Digital Living Plan

- Captures mission & plan content in a form understandable to both humans and machines
 - Who? Force Structures (Friend, Foe, Coalition, etc.)
 - What? Activities assigned (Kinetic and non-kinetic)
 - Where? Geospatial location actual and relative to forces and targets
 - When? Timing & Synchronization
 - Why? Commander's Intent & Mission Context
 - How? Resources (Equipment & Supply)
- Tied to Battlespace situation (objects, movements, pre- and post-conditions for actions)

Digital Living Plan: Planning In Context

DIGITAL LIVING PLAN(S)
IN CONTEXT



Essential Concept:

A shared representation that allows both people and computers to understand the underlying meaning of the information.

Living Plan is the Connective Fabric



Cornerstone of:

- Collaboration
- Coordination
- Integration
- Synchronization
- Resource Mgmt

Can be made:

- Secure
- Dynamic
- Resilient
- Robust
- Network-aware

To learn more about the Digital Living Plan and AI-based Planning and Decision Support, please contact:

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Come by our booth to see the power of real AI applications built on the Digital Living Plan...