



US Army Transformation: IT as a Force Multiplier

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Transformation is About



Desert Storm



Future War

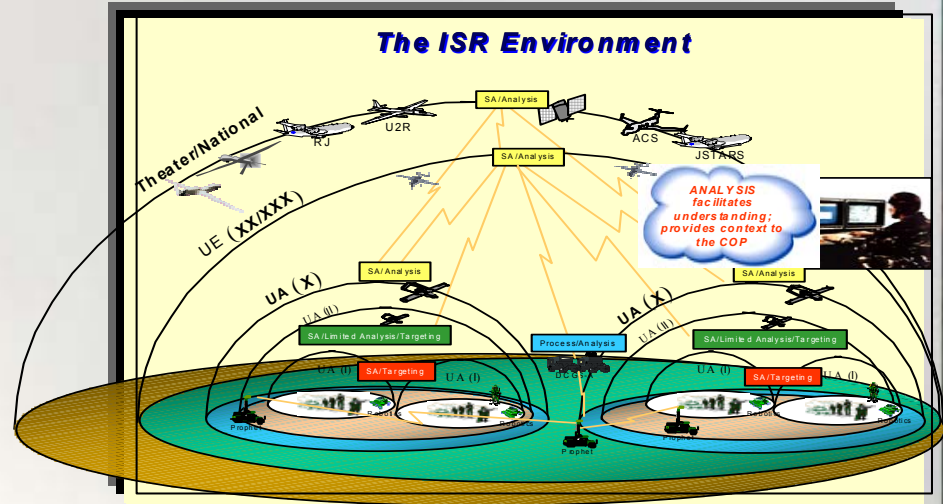
Characteristics

- | | |
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| <ul style="list-style-type: none"> ▶ Massed Formations – Fight after buildup ▶ Sequential, contiguous operations ▶ Linear warfare that attacks enemy formations and controls terrain and/or populations ▶ Massive logistics build up; large logistical tail ▶ Intelligence by contact and direct observation | <ul style="list-style-type: none"> ▶ Massed Effects – Fight joint on arrival ▶ Networked, simultaneous operations ▶ Non-linear warfare that directly attacks enemy centers of gravity ▶ Small logistics footprint with reach logistical capability; more teeth, less tail ▶ Enhanced situational awareness via global C4ISR |
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... Changing the Way We Think and Fight

Objective Force Warfighting Concepts

- ▶ **See First** – Establish an “unblinking eye,” continuous C4ISR coverage to achieve a Common Operating Picture (COP)
- ▶ **Understand First** – Collaborative planning, instantaneously disseminate commander’s intent, recon by action
- ▶ **Act First** – Joint, simultaneous maneuver and strategic strike paralyzes enemy, precludes achievement of his objectives...
- ▶ **Finish Decisively** – Destroy the enemy’s ability to continue and achieve moral dominance quickly



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The Objective Force – A force that is strategically responsive and dominant at every point on the Spectrum of Operations



What can be done to ensure IT effectiveness as a Force Multiplier?



Academia

- Teach/Preach secure software coding practices
- Develop students with holistic understanding of systems and internetworking
- Develop students with critical thinking, logical analysis, and communication skills
- Encourage public service

Industry

- Develop and adhere to Secure Software Coding Standards
 - CMM type model
- Develop adaptive, secure, self healing networking and systems technology
- Focus on IDS development that learns norms and identifies the abnormal
- Develop near real time Detect and React tools-with <1% false positives