

Proposal for Presentation at the  
Twelfth International Command and Control Research and Technology  
Symposium  
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***(Unintended) Effects Based Operations;  
Dealing with Secondary Effects***

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# *Dealing with Secondary Effects*

Objective: Session participants understand the intellectual and logical foundations of an effects based approach

Desired effects to be achieved

- (1) you are aware that nations, and some non-state actors, may be considered as complex adaptive systems
- (2) you appreciate that an action taken to influence a complex adaptive system will also produce secondary effects
- (3) you recognize the advantages of a system of systems analysis to effects based operations.

# Why Adopt an Effects Based Approach?

Effect #1: You are aware that nations, and some non-state actors, may be considered as complex adaptive systems

*System:* regularly interacting or interdependent group of items forming a unified whole...under the influence of related forces

*Complex:* Multiple interacting parts

*Adaptive:* elements react to external as well as internal stimuli.

# Why Adopt an Effects Based Approach?

Effect #2: You appreciate that an action taken to influence a complex adaptive system will also produce secondary effects

*To alter the state of a system, it is necessary to understand the interaction of the elements that make up the system. It is impossible to change one element of the system without affecting the remaining elements.*

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# Why Adopt an Effects Based Approach?

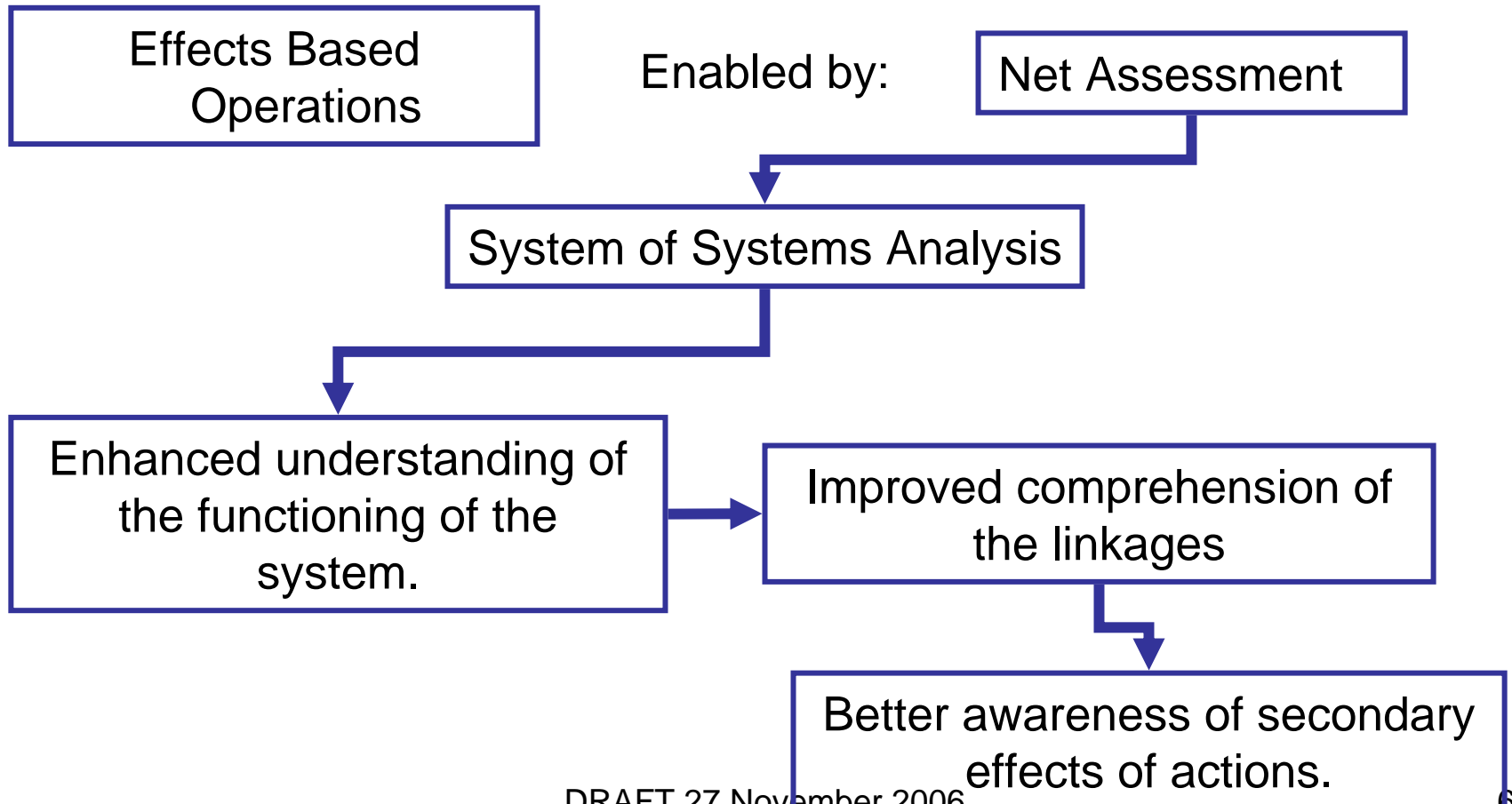
Effect #3: You recognize the advantages of a system of systems analysis to effects based operations

*Effective decision making requires a net assessment capability that harnesses the current political, military, economic, civil, information and infrastructure factors that affect all actors.*

Bi-SC Strategic Vision, August 2004

# Why Adopt an Effects Based Approach?

Effect #3: You recognize the advantages of a system of systems analysis to effects based operations



# ***Dealing with Secondary Effects***

## *Whither the CCRP?*

Theme:	Exploration and adoption of Command and Control to meet the challenges of the 21st Century
Concept:	Effects Based Operations
Driver:	System of Systems Analysis
Capability:	Identification of key systems, design of desired effects and assessment of their subsequent impact