

INTRODUCTION TO OPERATIONAL ART

By DR. M. VEGO

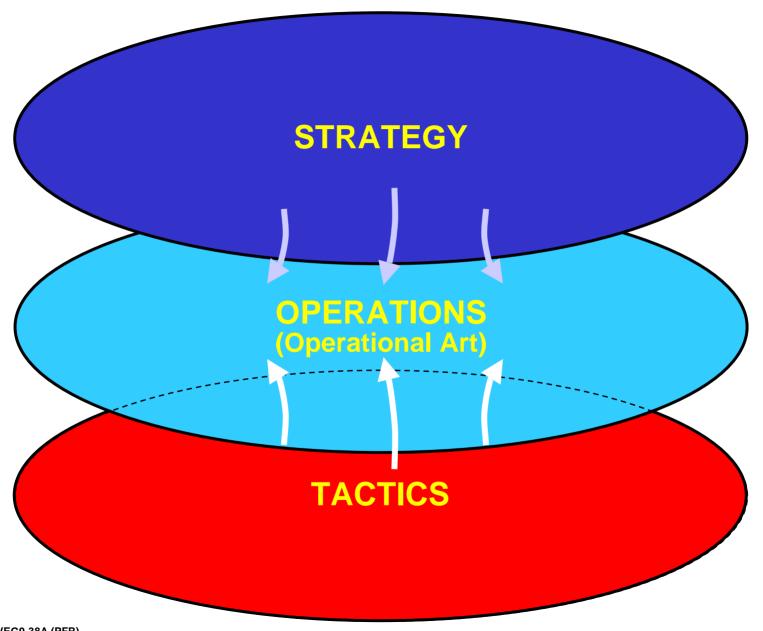
JMO DEPARTMENT, U.S. NAVAL WAR COLLEGE, NEWPORT, RI. "WAR IS NOT AN AFFAIR OF CHANCE. A GREAT DEAL OF KNOWLEDGE, STUDY AND MEDITATION IS NECESSARY TO CONDUCT IT WELL."

FREDERICK THE GREAT, 1747

TERMS USED

- GRAND TACTICS
- OPERATIONS (OPERATIONS)
- OPERATIONAL ART (OPERATIONSKUNST)
- OPERATIONAL ART (OPERATIVNOYE ISKUSSTVO)
- OPERATIONAL LEADERSHIP (OPERATIONSFUEHRUNG; OPERATIVE FUEHRUNG)
- OPERATIONAL WARFARE
- OPERATIONAL WARFIGHTING

HISTORICAL EVOLUTION OF COMPONENTS OF MILITARY ART



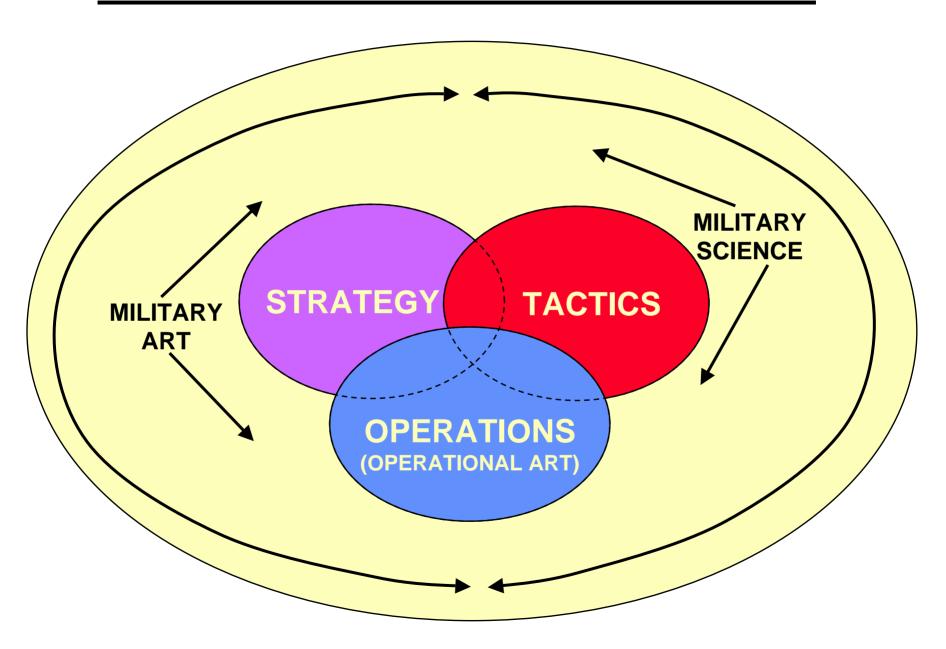
ON OPERATIONAL ART

- AN INTERMEDIATE FIELD OF STUDY AND PRACTICE BETWEEN STRATEGY AND TACTICS
- IT IS APPLIED ACROSS THE ENTIRE "OPERATIONAL CONTINUUM"
- IT DEALS WITH THEORY AND PRACTICE OF PLANNING, PREPARING, CONDUCTING, AND SUSTAINING MAJOR OPERATIONS AND CAMPAIGNS AIMED AT ACCOMPLISHING OPERATIONAL OR STRATEGIC OBJECTIVES IN A THEATER.

"THE NATION THAT WILL INSIST ON DRAWING A BROAD LINE BETWEEN THE FIGHTING MAN AND THE THINKING MAN IS LIABLE TO FIND ITS FIGHTING DONE BY FOOLS AND ITS THINKING DONE BY COWARDS."

SIR WILLIAM FRANCIS BUTLER

MILITARY SCIENCE AND MILITARY ART



IMPORTANCE

- TACTICS ALONE CANNOT ACCOMPLISH STRATEGIC OBJECTIVES IN A THEATER OR WIN THE WAR; RESULTS OF TACTICAL ACTIONS ARE USEFUL ONLY WHEN LINKED TOGETHER AS A PART OF SOME LARGER DESIGN FRAMED BY STRATEGY AND ORCEHSTRATED BY OPERATIONAL ART
- THE GAP BETWEEN STRATEGY AND TACTICS IS TOO LARGE TO BE BRIDGED WITHOUT AN INTERMEDIATE FIELD OF STUDY AND PRACTICE -- OPERATIONAL ART

- OPERATIONAL ART SEQUENCES AND SYNCHRONIZES SERIES OF TACTICAL ACTIONS TO ACCOMPLISH OPERATIONAL OBJECTIVES THROUGH THE CONDUCT OF MAJOR OPERATIONS; STRATEGIC OBJECTIVES IN A THEATER ARE NORMALLY ACCOMPLISHED THROUGH SERIES OF MAJOR OPERATIONS
- OPERATIONAL ART ALLOWS A SMALLER, BUT BETTER TRAINED AND SKILLFULLY LED FORCE GUIDED BY SOUND STRATEGY TO DEFEAT QUICKLY AND DECISIVELY A MUCH STRONGER FORCE.

- OPERATIONAL ART HELPS TO AVOID MORE COSTLY AND TIME-CONSUMING ATTRITIONAL WARFARE AT THE OPERATIONAL AND STRATEGIC LEVELS
- IT PROVIDES A FRAMEWORK AND KEY INPUTS FOR WRITING SERVICE AND JOINT/COMBINED DOCTRINE
- IT REINFORCES THE NEED FOR THE CLOSEST COOPERATION AMONG THE SERVICES -- JOINTNESS.

CHARACTERISTICS

- MOVEMENTS OF LARGE MULTI-SERVICE OR MULTI-NATIONAL FORCES OVER LARGE PART OF THE THEATER
- THE <u>DEPLOYMENT</u> FORMS THE VERY BASIS OF A PLAN FOR CAMPAIGN OR MAJOR OPERATION
- SEQUENCED AND SYNCHRONIZED EMPLOYMENT OF MILITARY AND NON-MILITARY SOURCES OF POWER

PREREQUISITES

- A SUFFICIENT PHYSICAL SPACE FOR MOVEMENTS OF LARGE FORMATIONS
- FULL MASTERY OF TACTICS
- THE COMMANDERS MUST HAVE THAT RARE ABILITY TO THINK BEYOND THE REALM OF PHYSICAL COMBAT
- THE EXISTENCE OF THE THEATER-WIDE STRUCTURE (C2; C2W; INTELLIGENCE; FIRES; LOGISTICS; AND PROTECTION).

COMPONENTS

MILITARY ART COMPONENTS

COMPONENT LEVEL OF WAR

> THEORY AND PRACTICE NATIONAL SECURITY STRATEGY OR ALLIANCE/COALITION STRATEGY)

STRATEGIC OBJECTIVE

ISSUING STRATEGIC GUIDANCE

ALLOCATION OF MILITARY RESOURCES AMONG THEATERS

BUILDING ALLIANCE/COALITION

ENHANCING COUNTRY'S GEOSTRATEGIC POSITION

AND SECONDARY THEATERS

DETERMINATION

OF PRIMARY

STRATEGIC

- NATIONAL-**STRATEGIC**
- THEATER-**STRATEGIC**

OPERATIONAL-STRATEGIC

THEORY AND PRACTICE

OPERATIONAL ART (OPERATIONS)

STRATEGY

OPERATIONAL INPUT TO CONFLICT/
WAR TEDNOMINE **OPERATIONAL** FUNTIONS FACTORS **OPERATIONAL OPERATIONAL ART** (OPERATIONS) ELEMENTS OF **OPERATIONAL TRAINING** METHODS OF COMBAT FORCE EMPLOYMENT

FUNCTIONS

OPERATIONAL

TACTICS

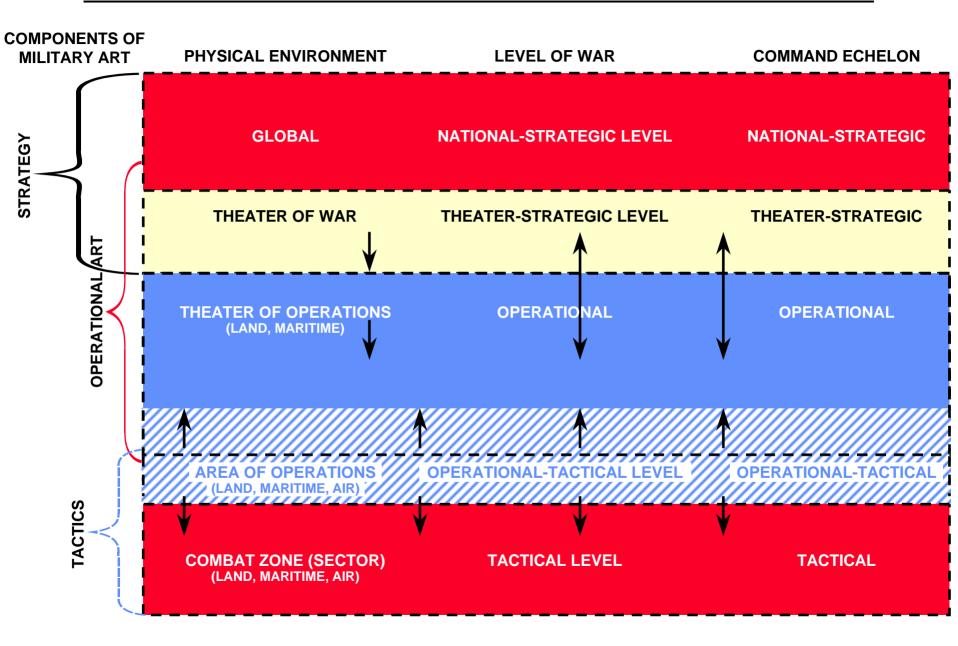
TACTICS OF BRANCHES TACTICAL PLANNING **TACTICS** TACTICS OF TYPES OF SHIPS / AIRCRAFT **TACTICAL**

TACTICAL

OPERATIONAL-TACTICAL

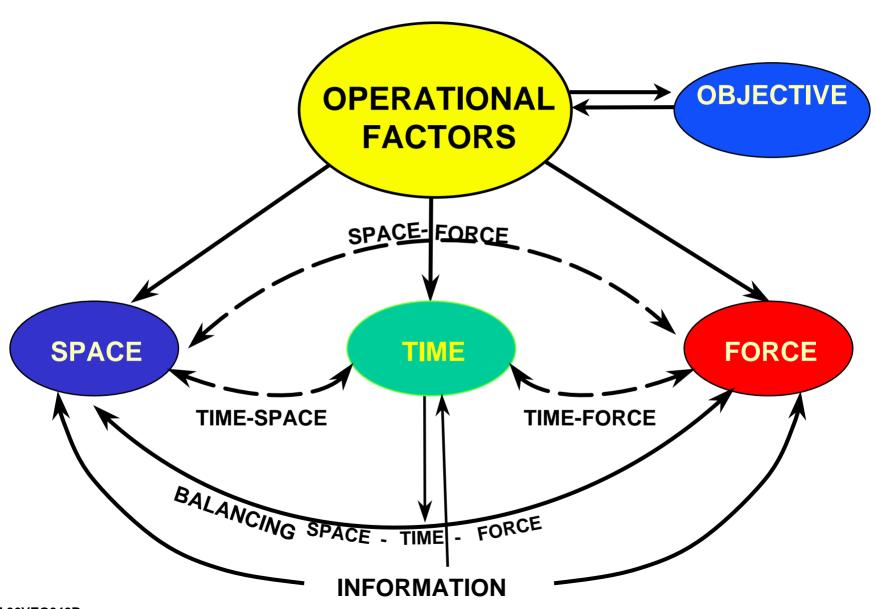
PPT-99-VEGO-40 (PFR)

RELATIONSHIP BETWEEN COMPONENTS OF MILITARY ART AND THE LEVELS OF WAR

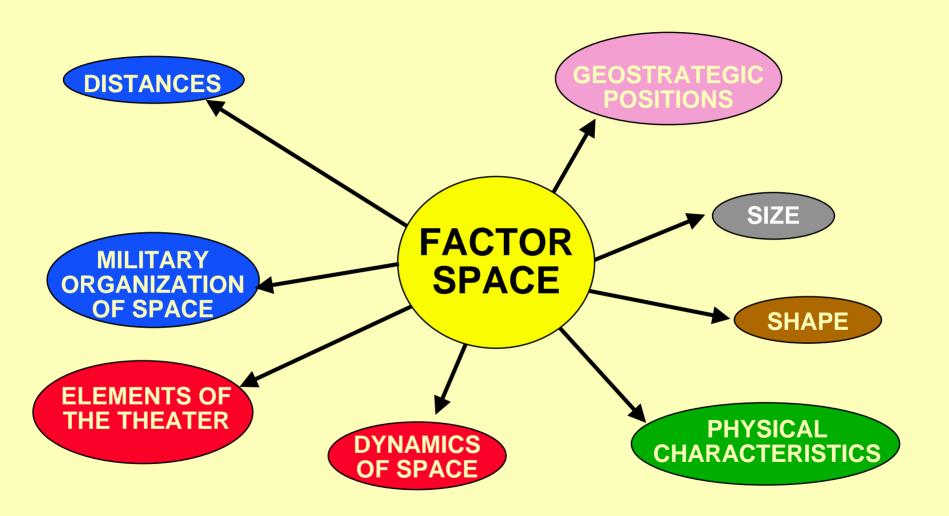


OPERATIONAL FACTORS

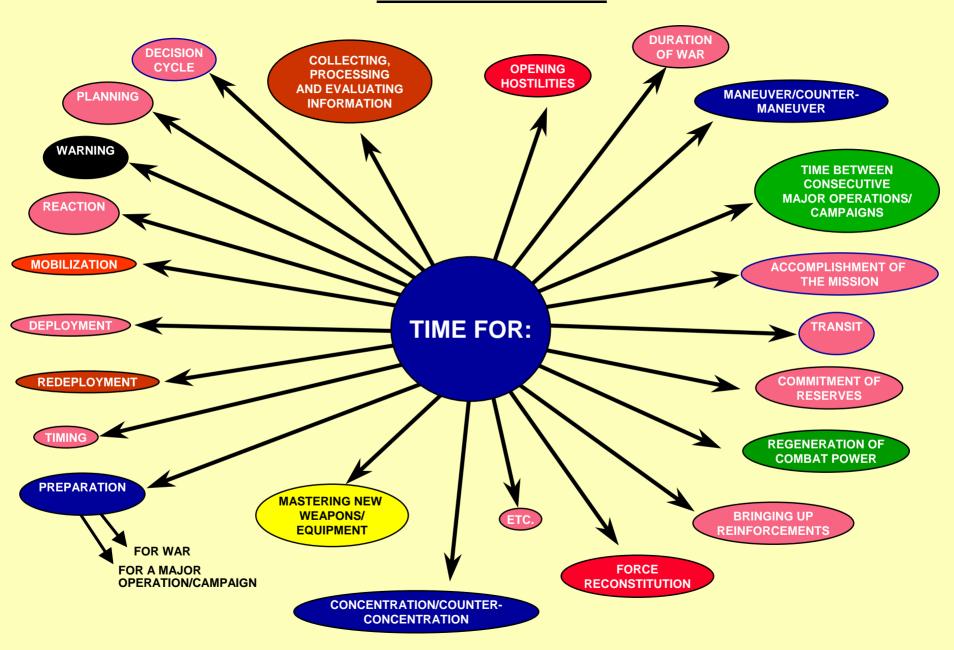
OPERATIONAL FACTORS



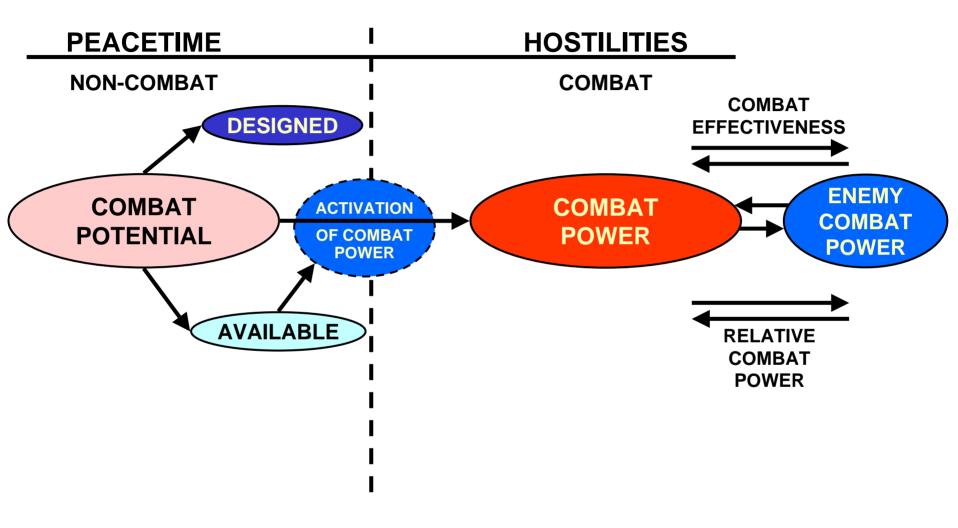
THE FACTOR OF SPACE



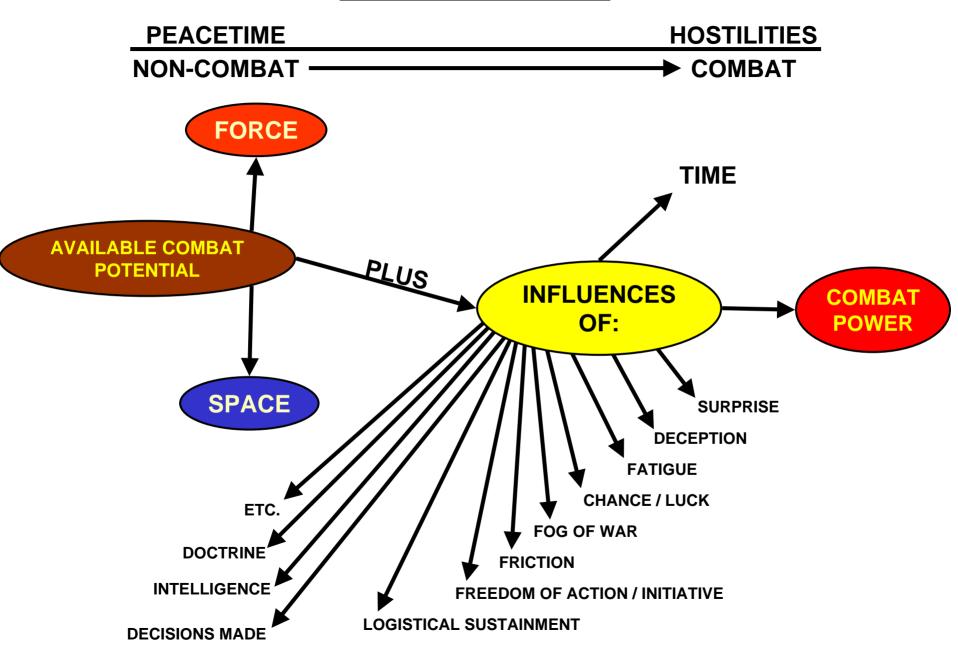
THE FACTOR OF TIME



COMBAT POTENTIAL vs. COMBAT POWER

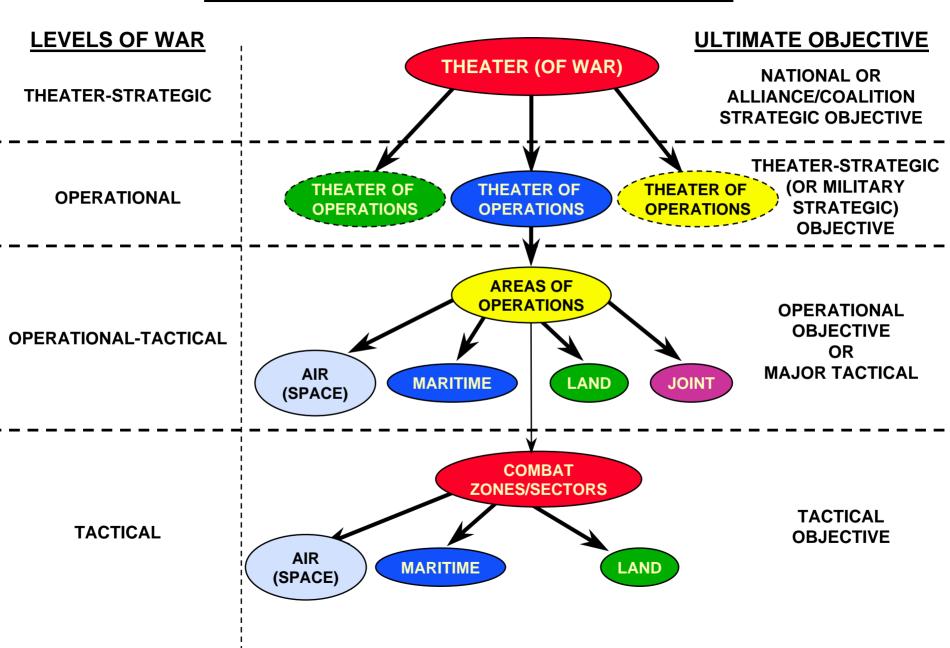


COMBAT POWER

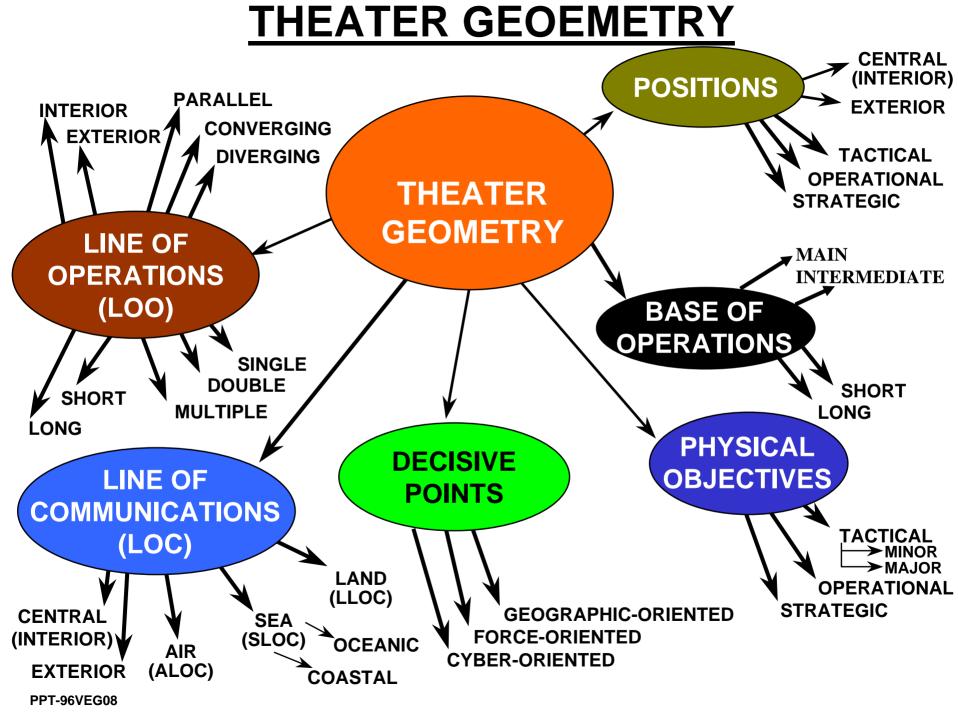


THE THEATER

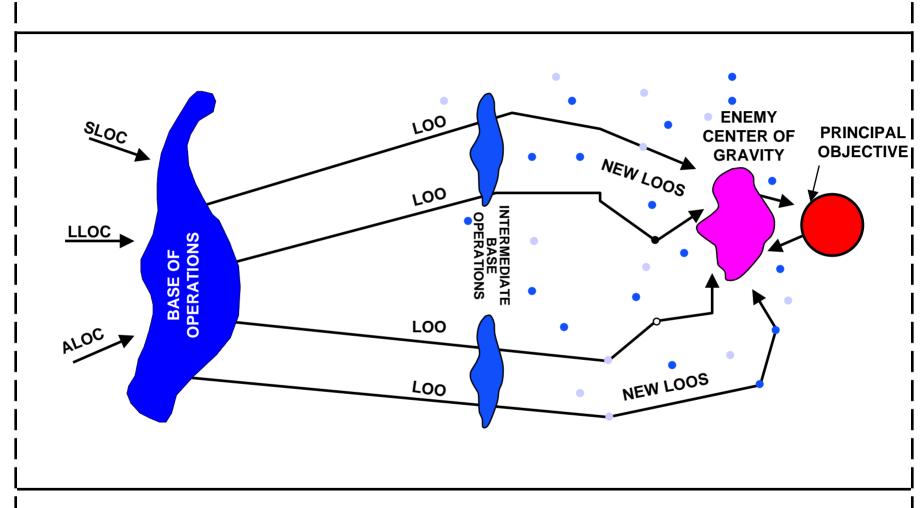
THEATER STRUCTURE AND LEVELS OF WAR



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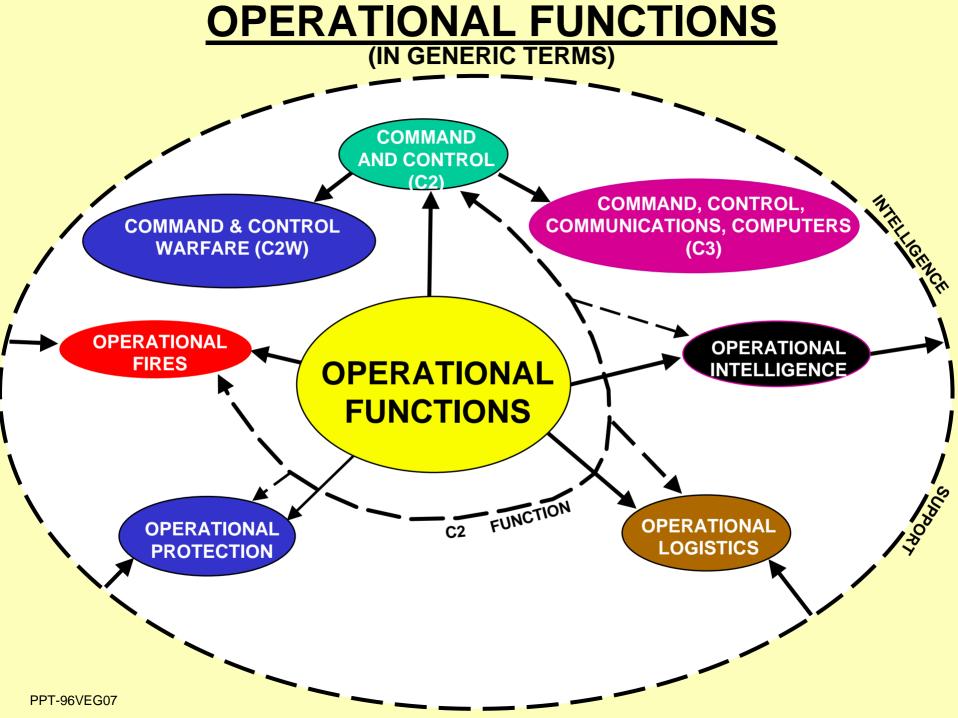
THEATER GEOMETRY



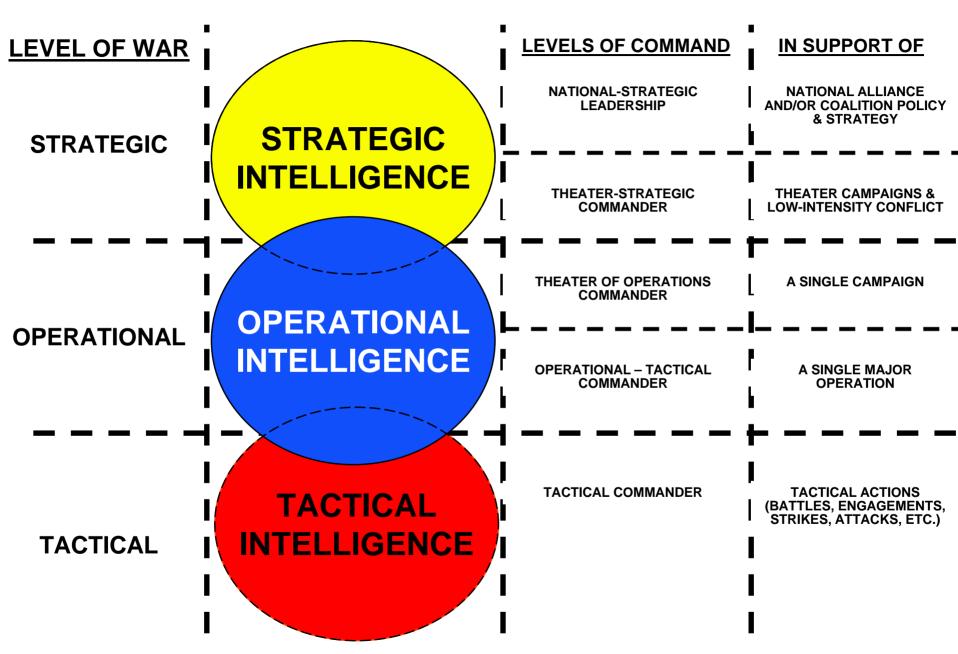
DECISIVE POINTS

- GEOGRAPHIC-ORIENTED
- FORCE=ORIENTED

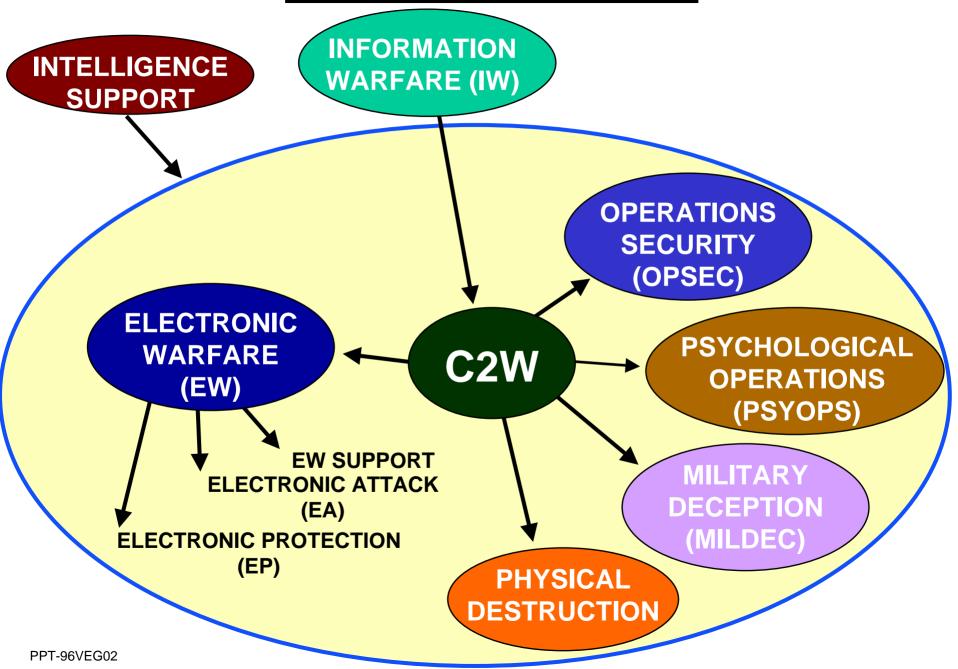
OPERATIONAL FUNCTIONS



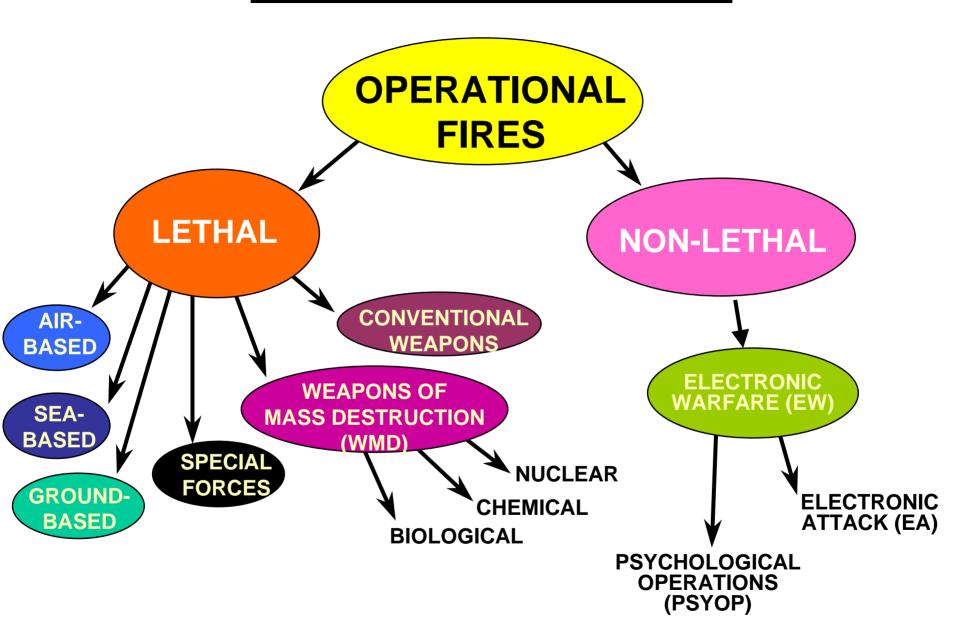
SCALE OF INTELLIGENCE EFFORT



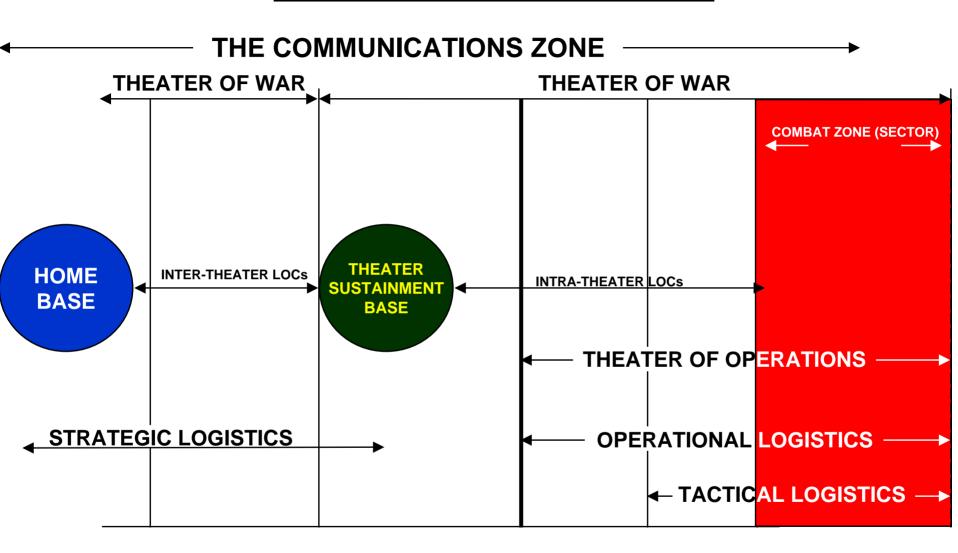
C2W COMPONENTS



TYPE OF OPERATIONAL FIRES

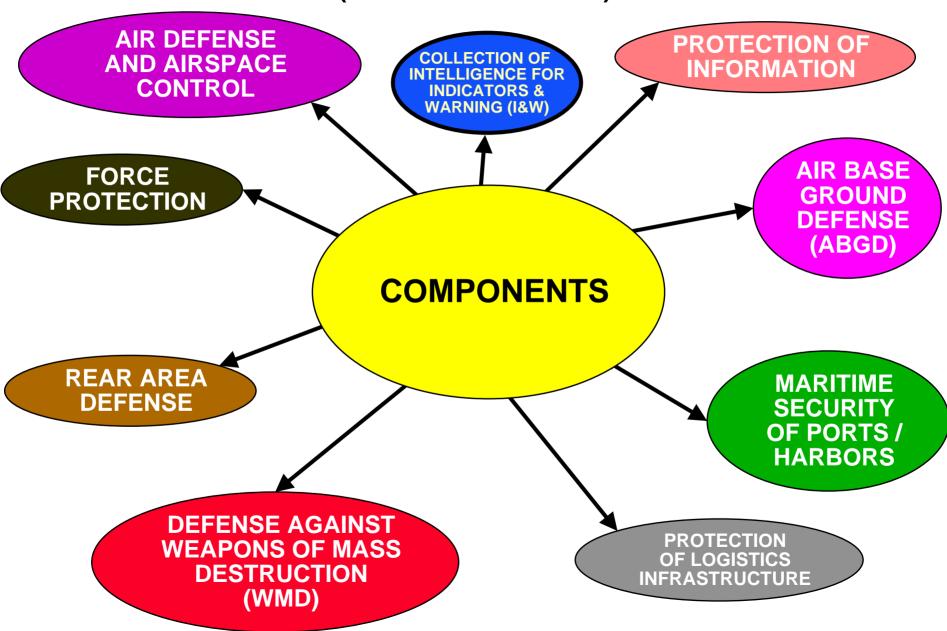


SCALE OF LOGISTICAL SUPPORT



OPERATIONAL PROTECTION

(IN GENERIC TERMS)

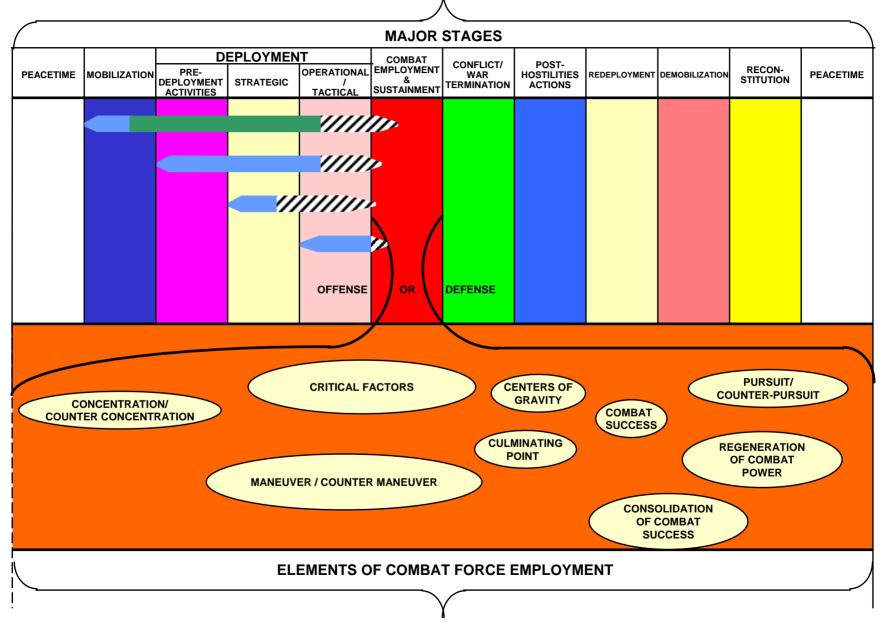


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STAGES OF COMBAT FORCE EMPLOYMENT

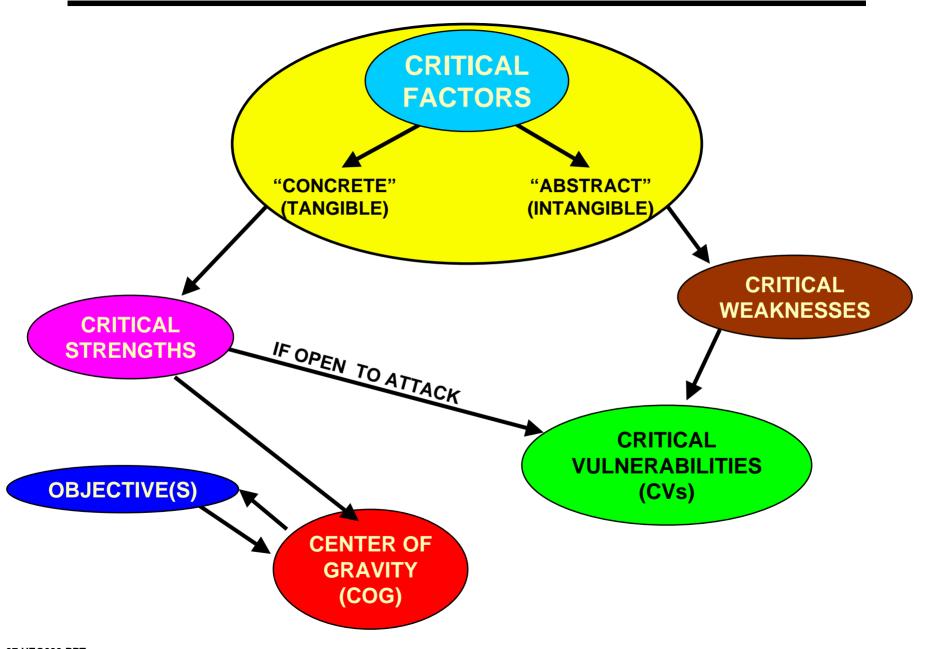
STAGES AND ELEMENTS OF COMBAT FORCE EMPLOYMENT

MILITARY DECISION-MAKING AND PLANNING



ELEMENTS OF OPERATIONAL WARFARE

CONCEPT OF CRITICAL FACTORS



CRITICAL FACTORS

"PHYSICAL" (TANGIBLE)

CRITICAL FACTORS

"ABSTRACT" (INTANGIBLE)

GEOGRAPHIC

- → GEOSTRATEGIC POSITION
- **→** GEOPOLITICAL POSITION
- **→** POSITIONS
- **→** BASE OF OPERATIONS
- **→**LINES OF OPERATIONS
- **→** LINES OF COMMUNICATIONS
- →ETC.

MILITARY

- → ARMED FORCES
- → INDIVIDUAL SERVICES (ARMY, NAVY, AIR FORCE)
- →THEATER ARMY, FLEET, AIR FORCE
- → NUMBERED ARMY, FLEET, AIR FORCE
- → MAJOR FORCE ELEMENTS (AIR CORPS, NAVAL TASK FORCES, AIR TASK FORCES)
- → TACTICAL UNITS (DIVISIONS, BRIGADES, REGIMENTS, NAVAL SQUADRONS / GROUPS, AIR DIVISIONS / REGIMENTS / SQUADRONS)
- **→INTELLIGENCE**
- → C³I NODES
- → LOGISTICAL SUPPORT AND SUSTAINMENT
- **→** BATTLEFIELD SURVEILLANCE
- →INTELLIGENCE AND WARNING (I&W)
- →ETC.

NON-MILITARY

- **→** STATE ORGANIZATION
- **→** ECONOMY
- → MINERAL RESOURCES
- **→** AGRICULTURE
- **→** FINANCES
- **→** BANKING
- **→** ENERGY RESOURCES
- →ETC.

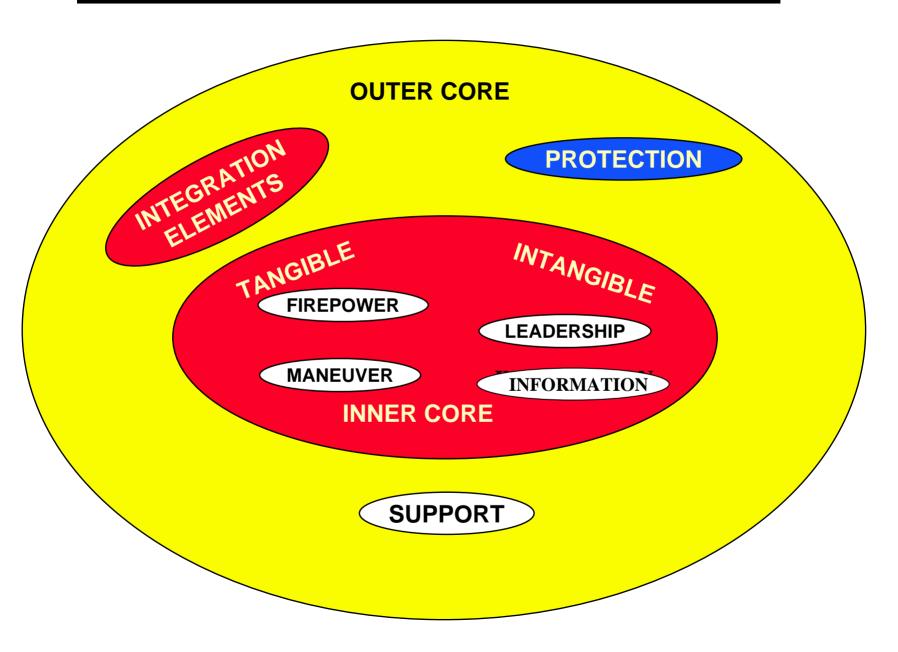
- **→** POLITICAL
- → DIPLOMATIC
- **→** PSYCHOLOGICAL
- **→**WILL TO FIGHT
- **→** LEADERSHIP
- → ALLIANCE/COALITION COHESION
- → ALLIANCE / COALITION'S COMMUNITY OF INTERESTS
- **→ PUBLIC SUPPORT**
- **→ UNITY OF COMMAND**
- → SERVICE / JOINT DOCTRINE
- **→** MORALE
- → DISCIPLINE
- **→** COMBAT TRAINING
- **→** COMBAT READINESS
- →ETC.

CENTER OF GRAVITY

(IN GENERIC TERMS)

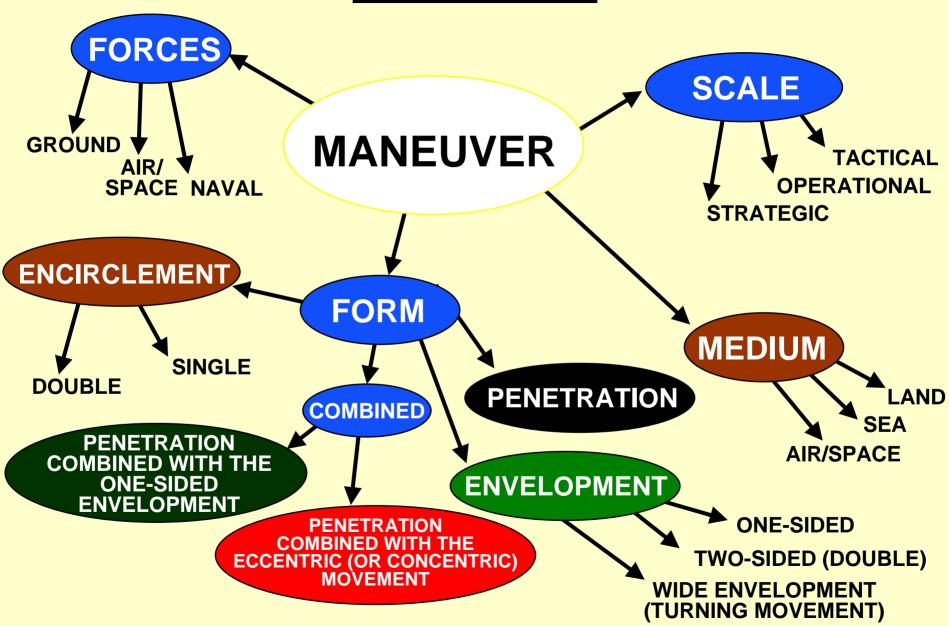
"IS A SOURCE OF 'MASSED STRENGTH' --PHYSICAL OR MORAL OR A SOURCE OF LEVERAGE WHOSE SERIOUS DEGRADATION, DISLOCATION, **NEUTRALIZATION, OR DESTRUCTION** WILL HAVE THE MOST DECISIVE IMPACT ON THE ENEMY'S OR ONE'S OWN **ABILITY TO ACCOMPLISH A GIVEN MILITARY OBJECTIVE.**"

CENTER OF GRAVITY'S COMPOSITION

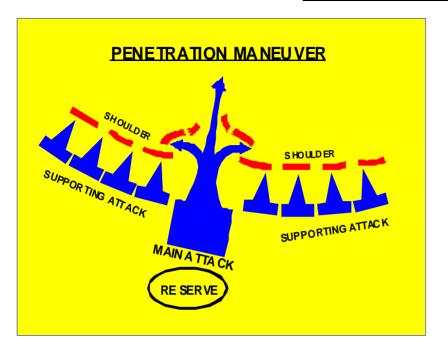


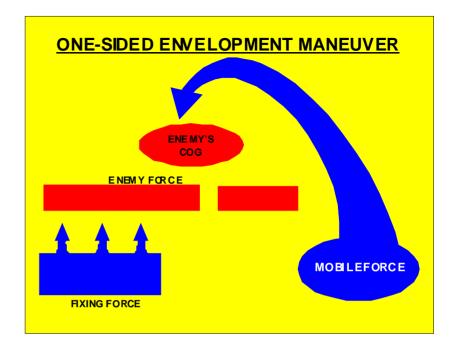
OPERATIONAL MANEUVER

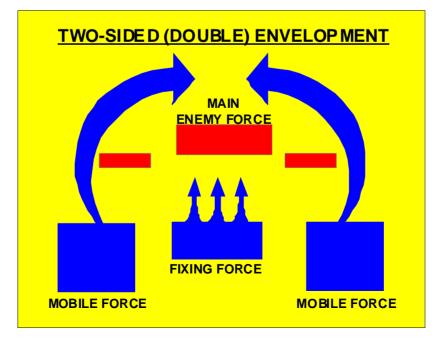
MANEUVER



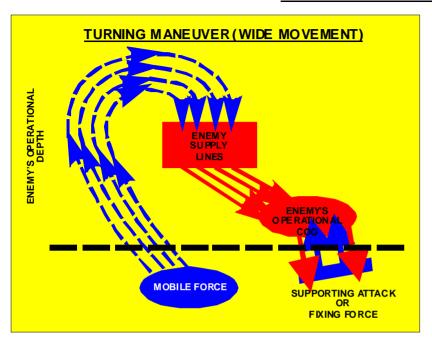
OPERATIONAL MANEUVER, PART 1

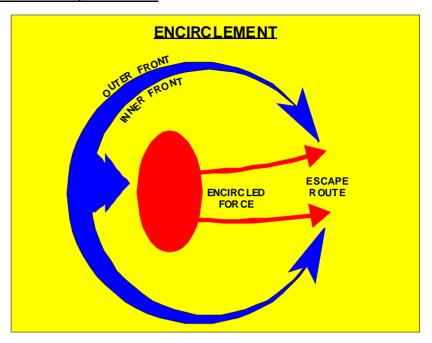


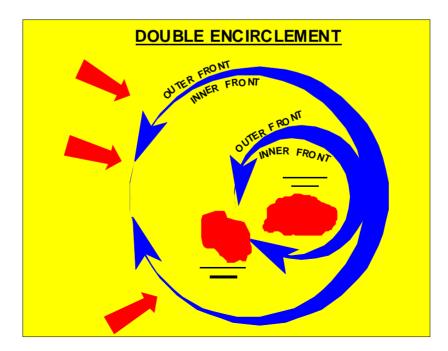




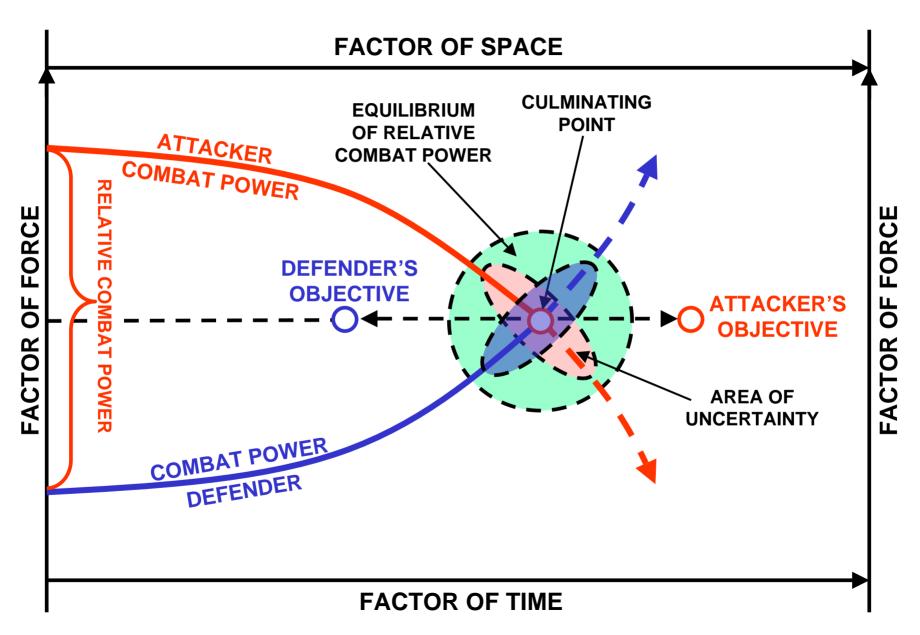
OPERATIONAL MANEUVER, PART 2



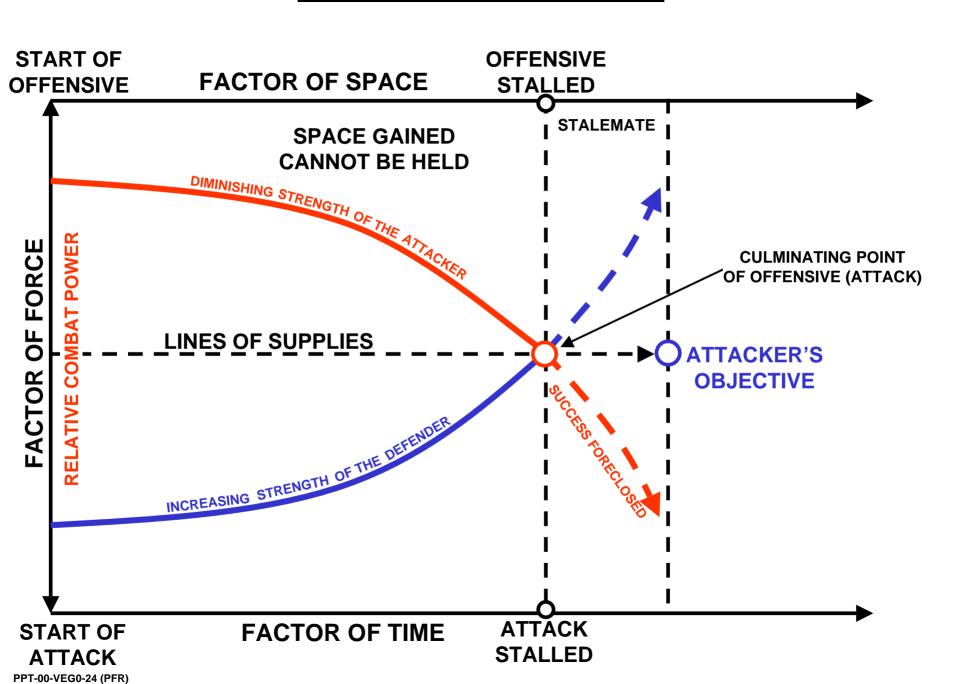




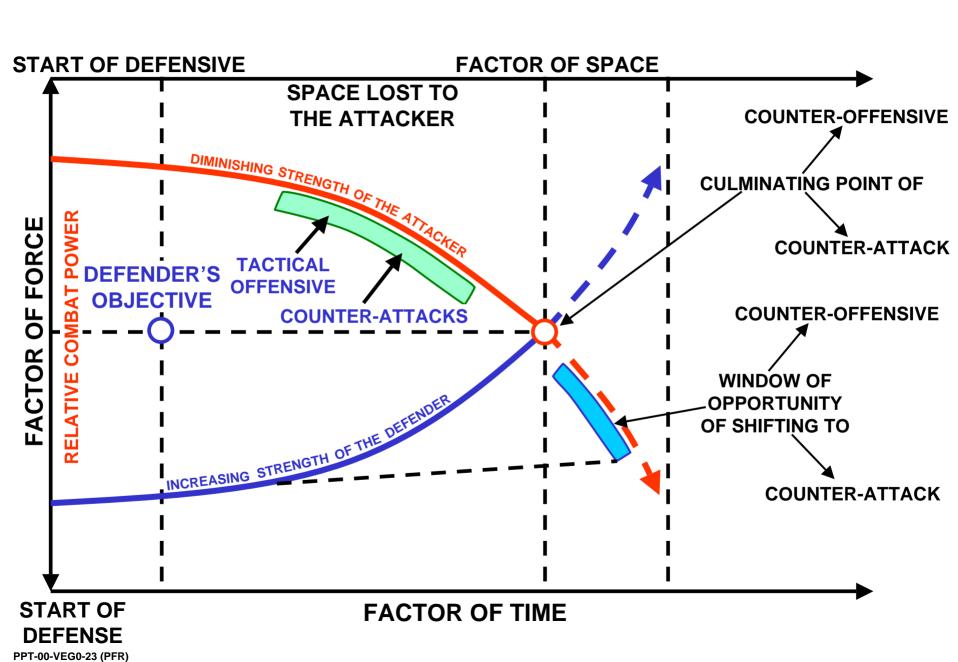
THEORY OF CULMINATING POINT



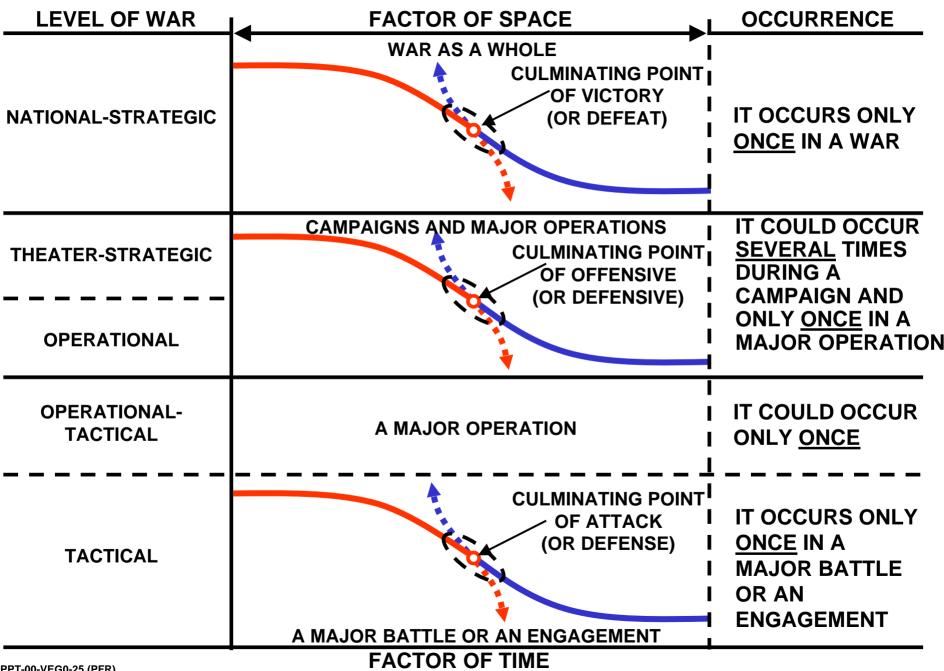
ATTACKER'S CULMINATION



DEFENDER'S CULMINATION

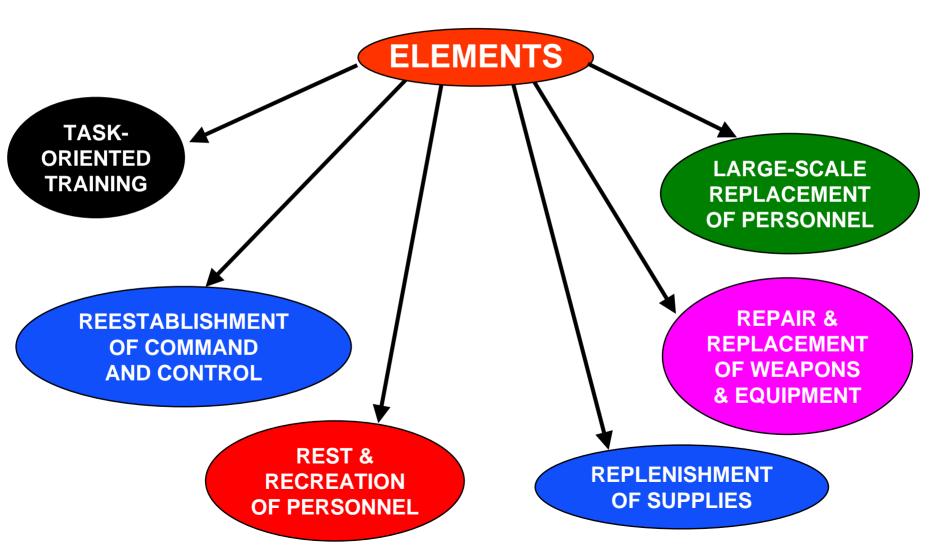


CULMINATING POINT AND THE LEVELS OF WAR



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REGENERATION OF COMBAT POWER

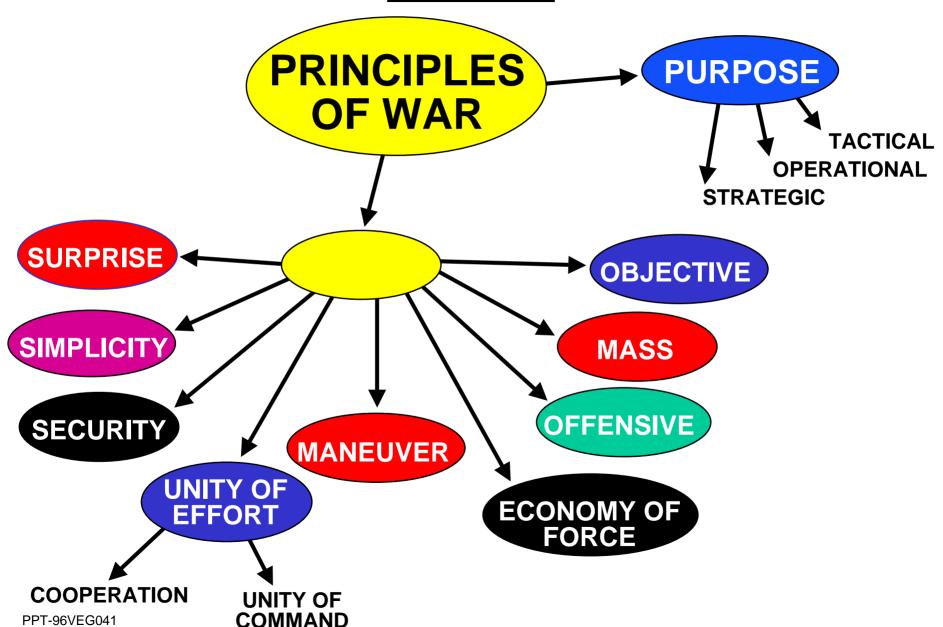


PRINCIPLES OF OPERATIONAL WARFARE

"THERE HAVE EXISTED IN ALL TIMES
FUNDAMENTAL PRINCIPLES ON WHICH
DEPEND GOOD RESULTS IN
WARFARE.... THE PRINCIPLES ARE
UNCHANGING, INDEPENDENT OF THE
KIND OF WEAPONS, OF HISTORICAL
TIME AND OF PLACE."

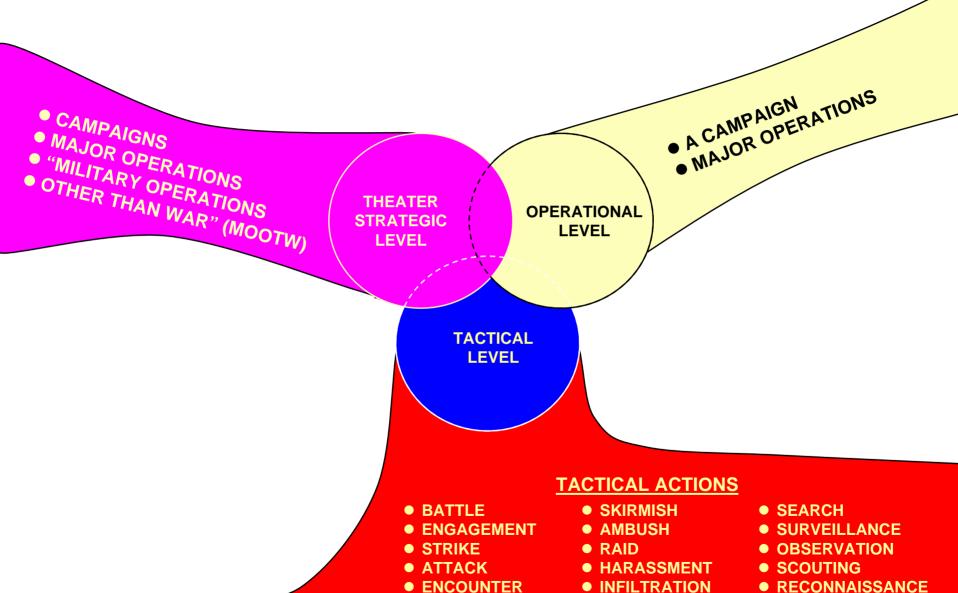
BARON ANTOINE HENRI DE JOMINI

PRINCIPLES OF WAR (GENERIC)



METHODS OF COMBAT FORCE EMPLOYMENT

LEVELS OF WAR AND COMBAT FORCES' EMPLOYMENT

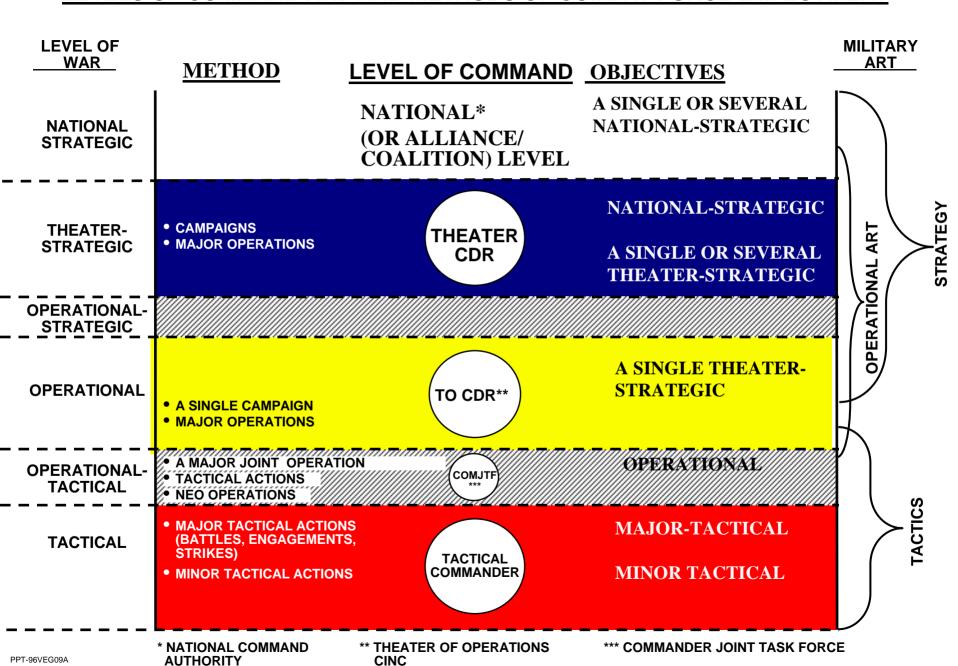


DUEL

PATROL

• ETC.

LEVELS OF COMMAND AND AND METHODS OF COMBAT FORCE EMPLOYMENT

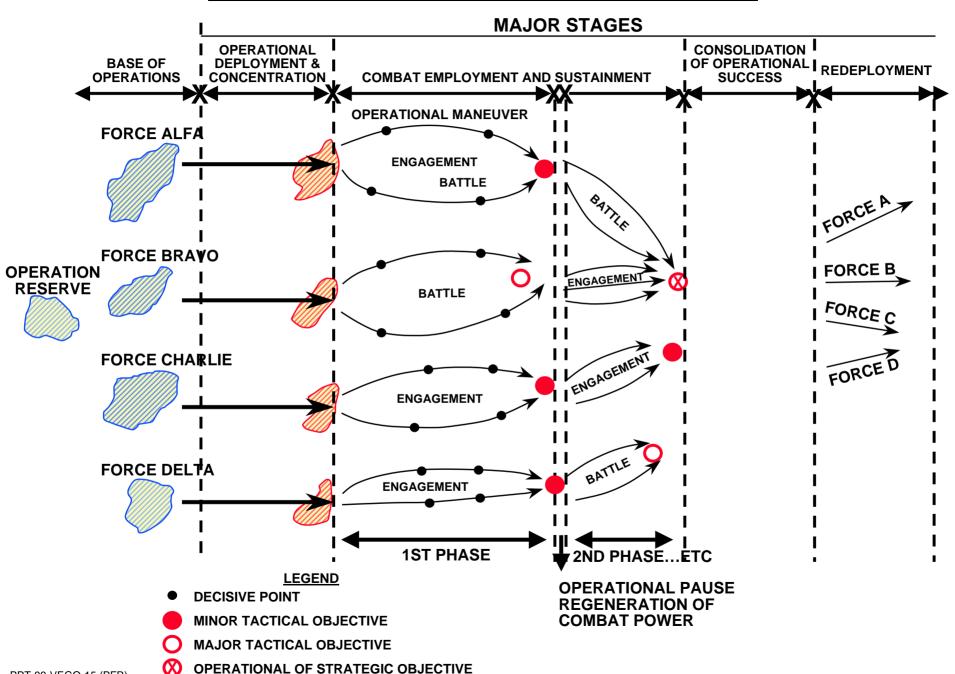


MAJOR OPERATIONS

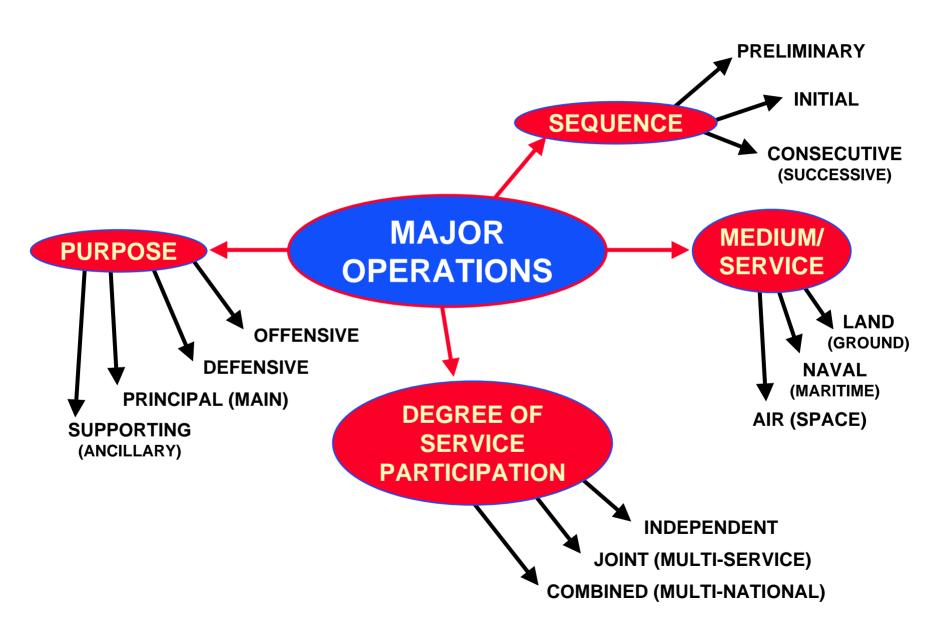
MAJOR OPERATION (IN GENERIC TERMS)

A MAJOR OPERATION CONSISTS OF A SERIES OF BATTLES, ENGAGEMENTS, STRIKES, AND OTHER TACTICAL ACTIONS SEQUENCED AND SYNCHRONIZED IN TERMS OF SPACE AND TIME TO ACCOMPLISH AN OPERATIONAL (AND SOMETIMES STRATEGIC) OBJECTIVE IN A GIVEN PART OF THE THEATER.

SCHEME OF A MAJOR OPERATION



MAJOR OPERATIONS



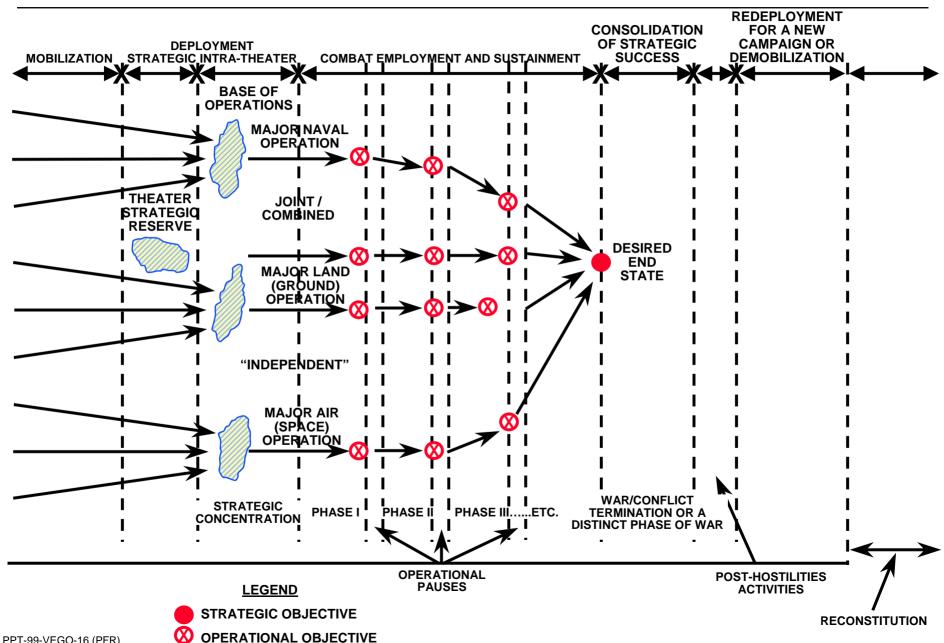
CAMPAIGNS

CAMPAIGN (IN GENERIC TERMS)

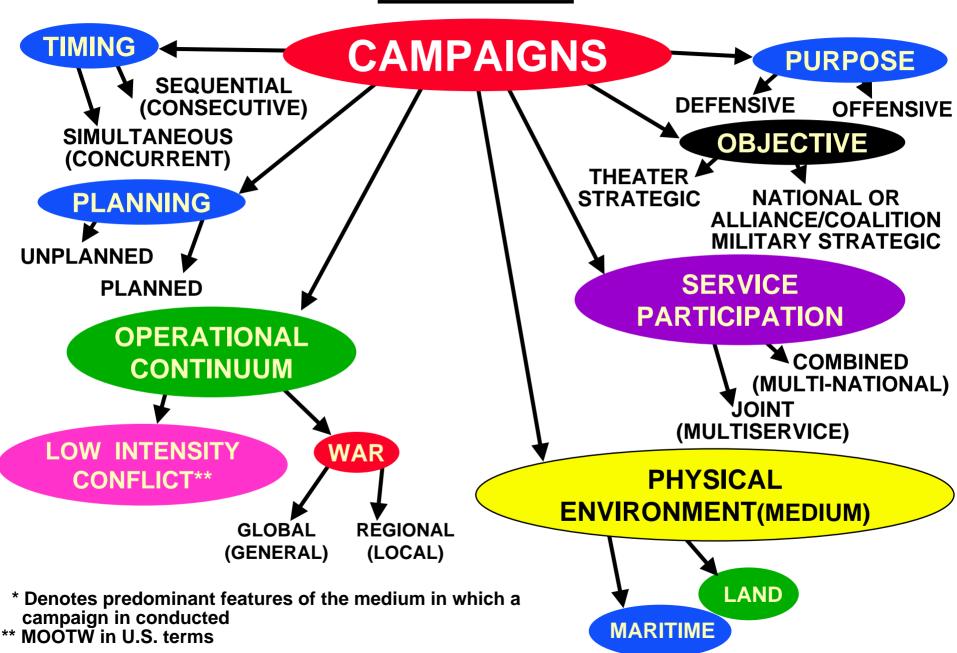
A CAMPAIGN CONSISTS OF A SERIES OF MAJOR OPERATIONS SEQUENCED AND SYNCHRONIZED IN TERMS OF SPACE AND TIME AND AIMED TO ACCOMPLISH A STRATEGIC OBJECTIVE IN A GIVEN THEATER OF OPERATIONS.

SCHEME OF A CAMPAIGN

MAJOR STAGES

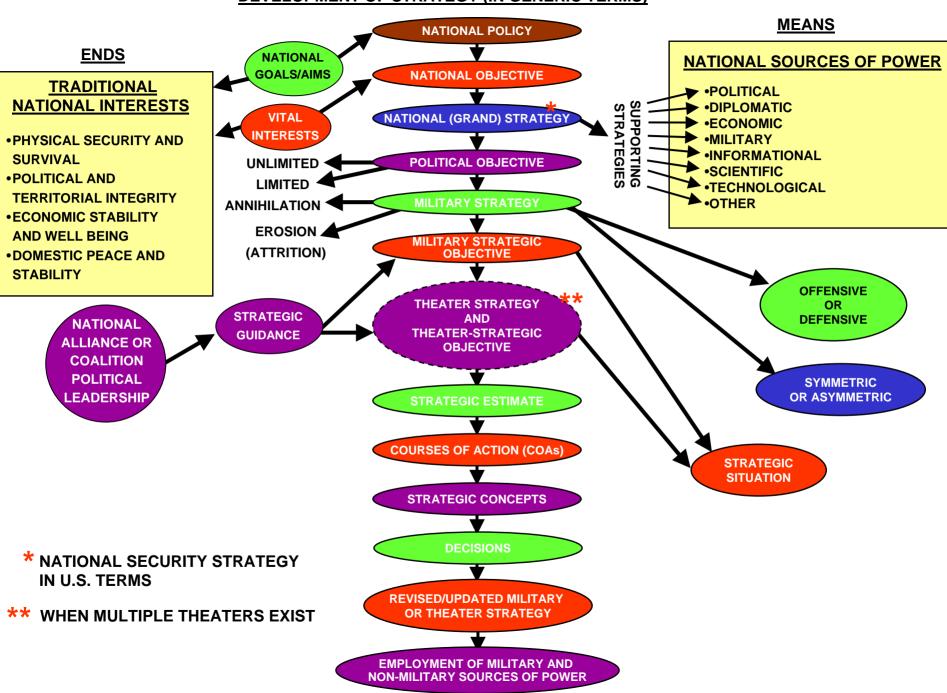


CAMPAIGNS

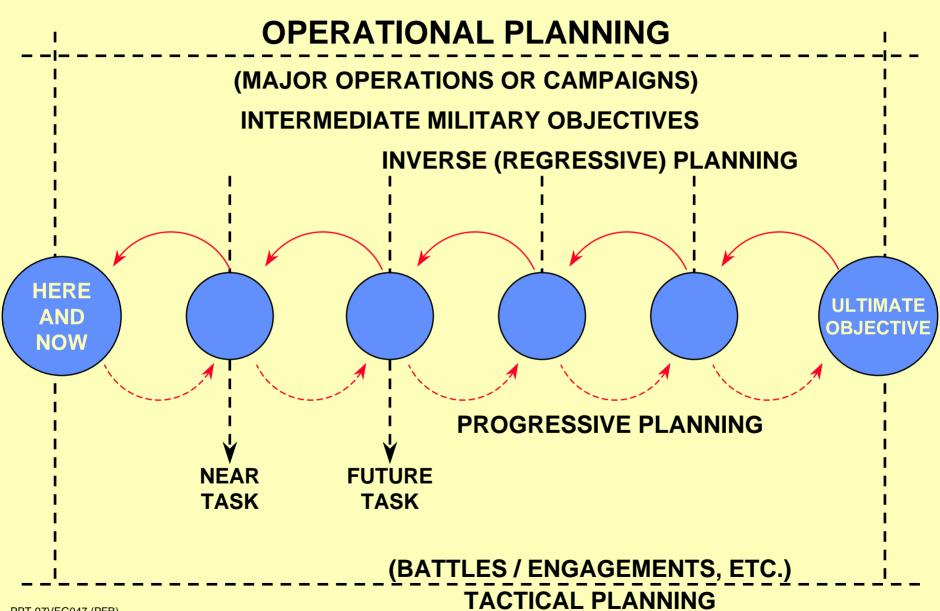


OPERATIONAL PLANNING

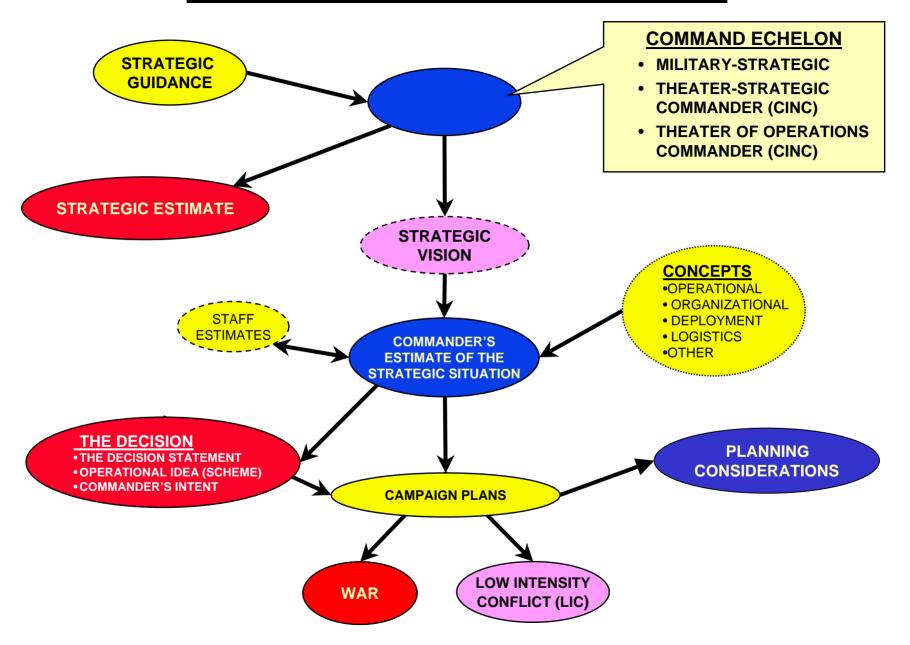
DEVELOPMENT OF STRATEGY (IN GENERIC TERMS)



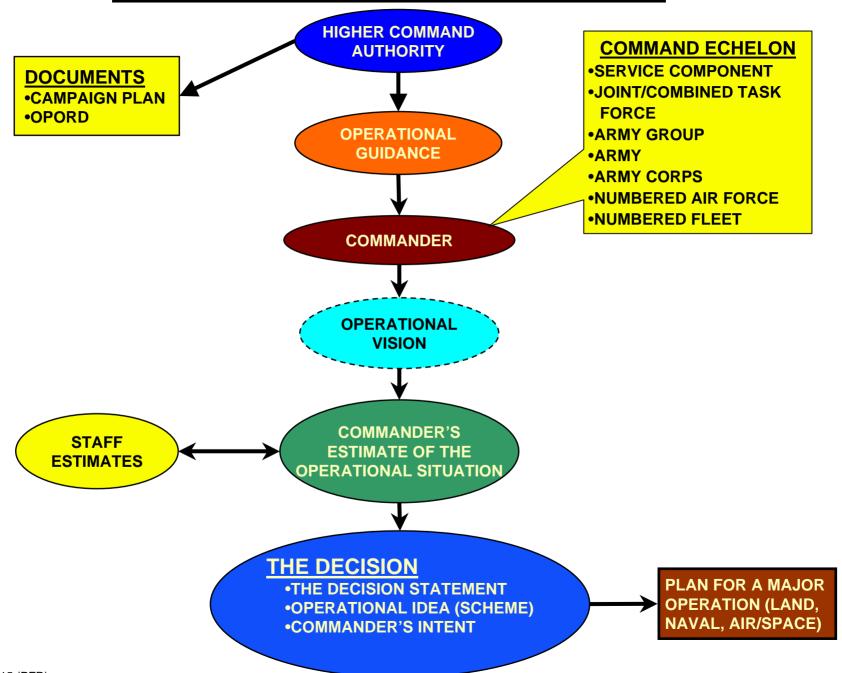
TYPE OF PLANNING



CAMPAIGN PLAN DEVELOPMENT



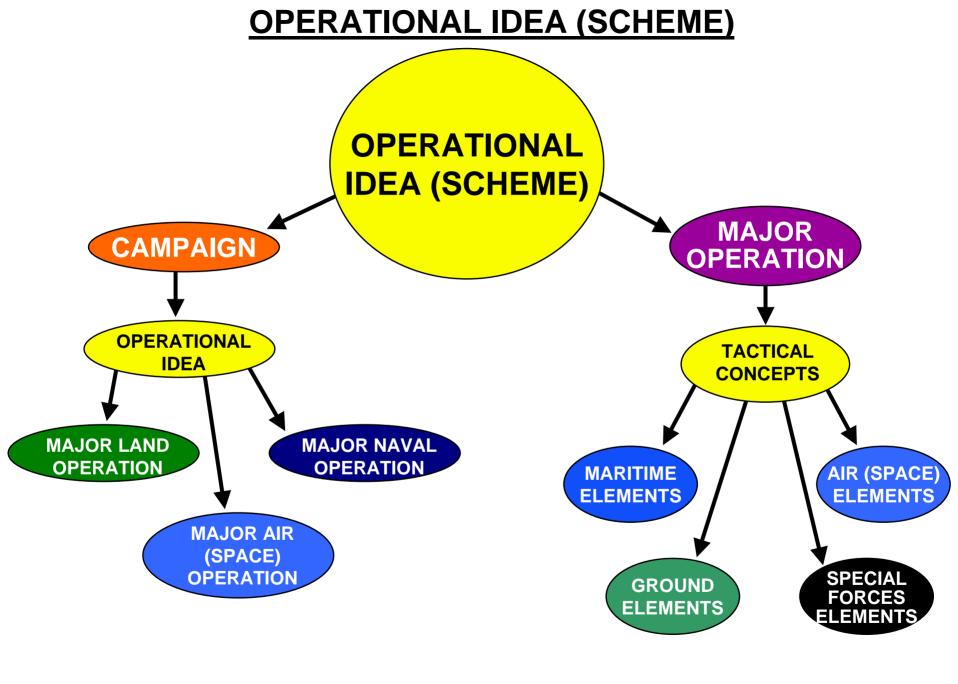
MAJOR OPERATION PLAN DEVELOPMENT



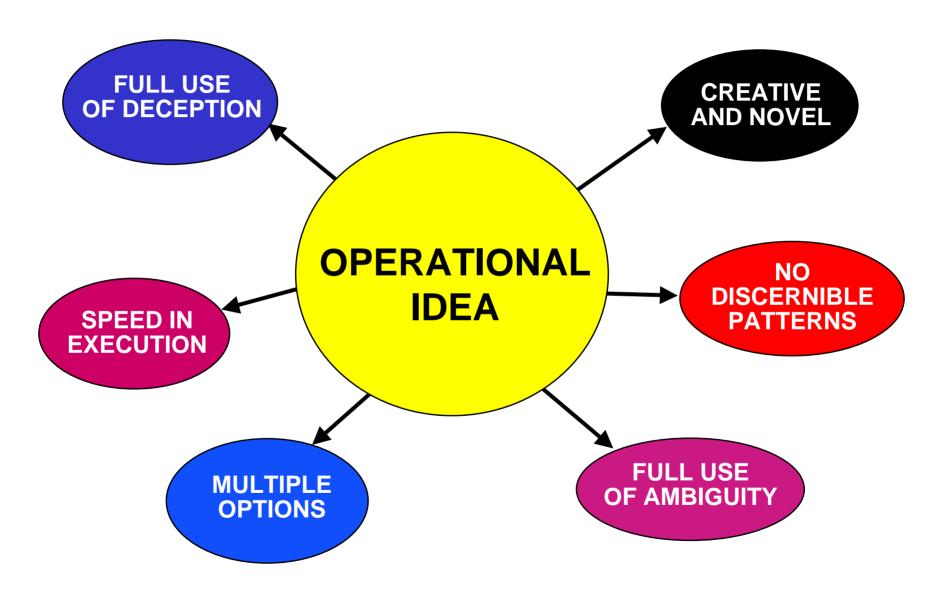
OPERATIONAL DESIGN

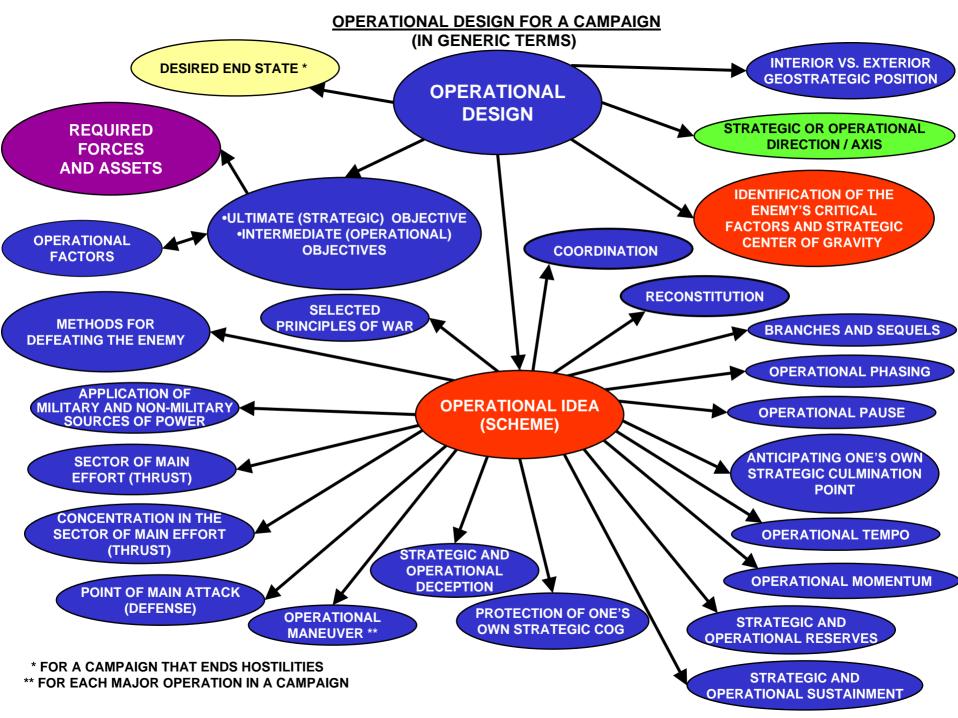


OPERATIONAL IDEA (SCHEME)

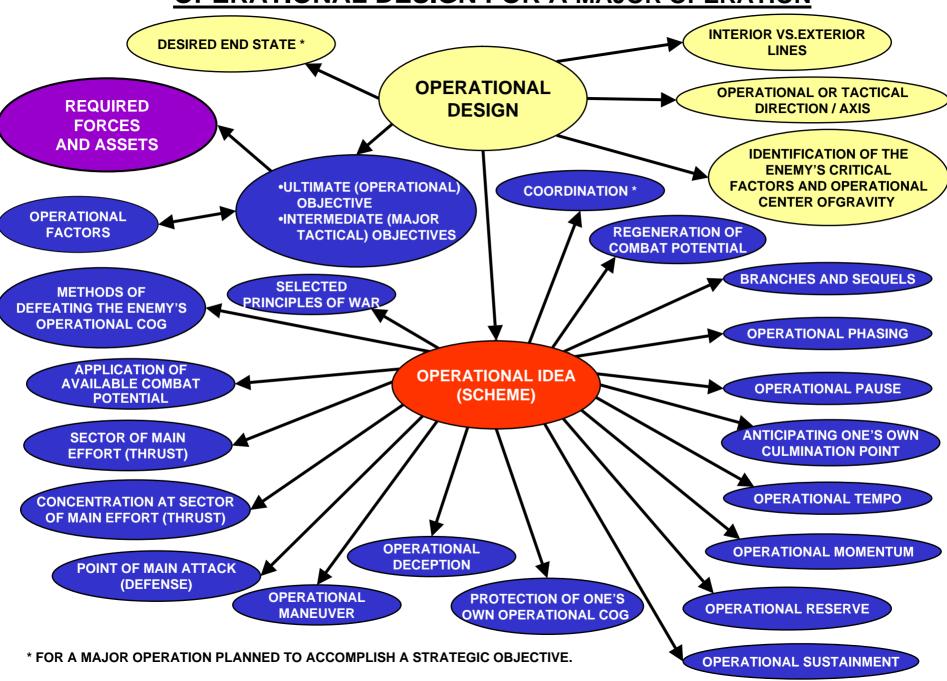


OPERATIONAL IDEA FEATURES



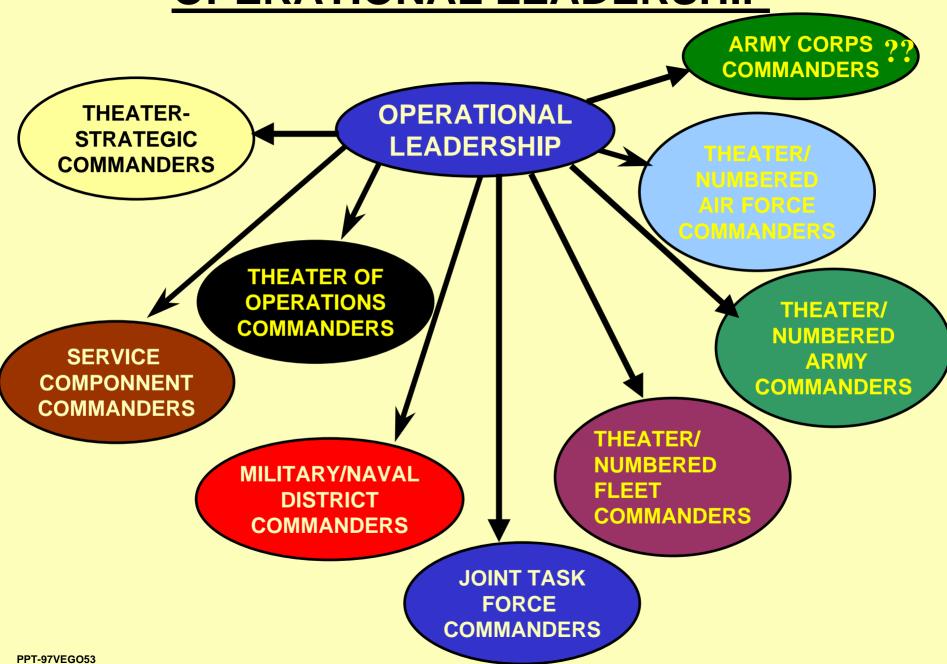


OPERATIONAL DESIGN FOR A MAJOR OPERATION



OPERATIONAL LEADERSHIP

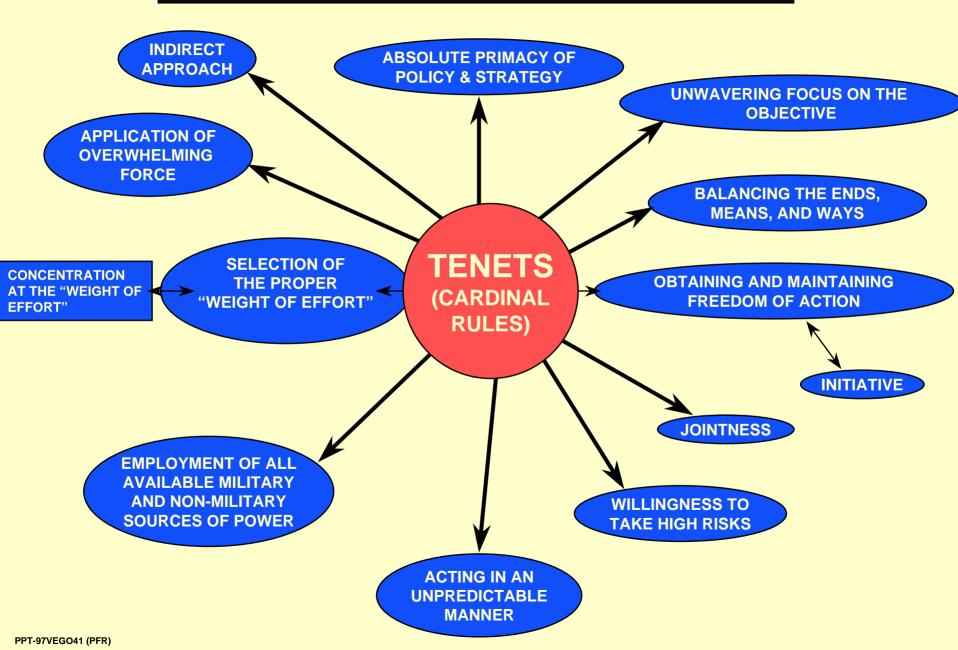
OPERATIONAL LEADERSHIP



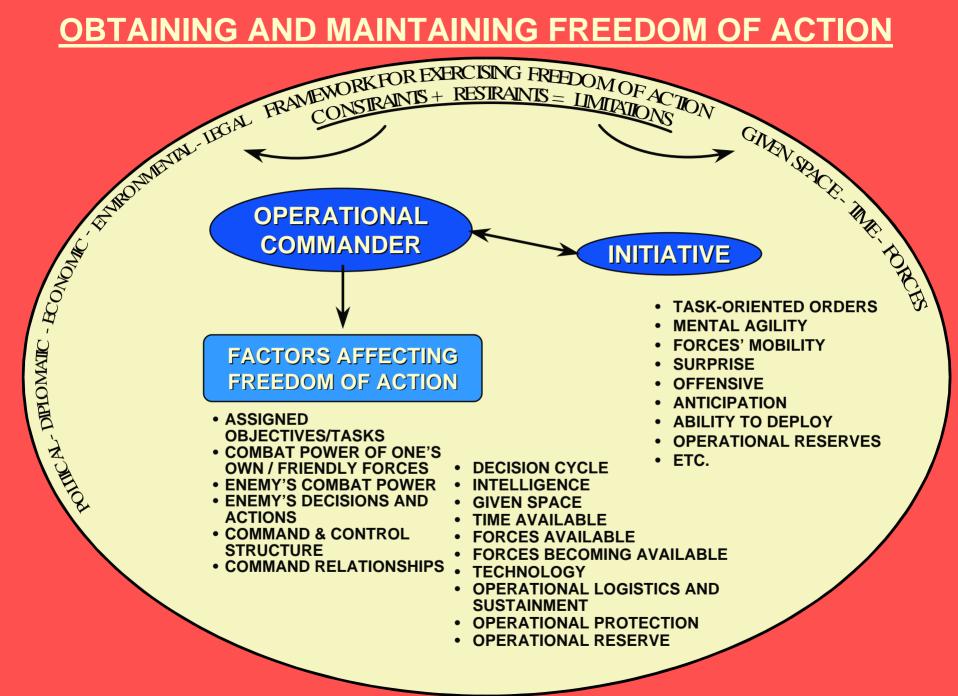
OPERATIONAL COMMANDER'S REQUIREMENTS



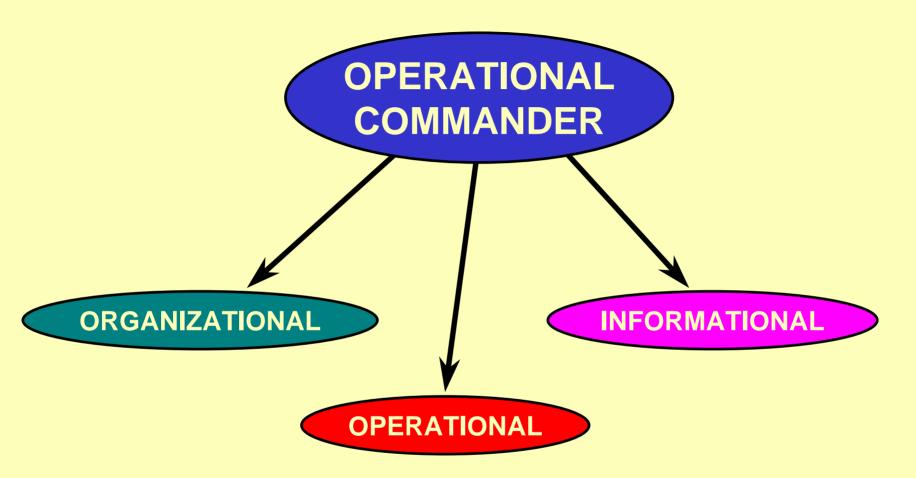
TENETS OF OPERATIONAL LEADERSHIP



OBTAINING AND MAINTAINING FREEDOM OF ACTION



TYPE OF DECISIONS



THE FUTURE

- WARS WILL BE WON OR LOST AT THE OPERATIONAL AND STRATEGIC LEVEL; HENCE, THE CRITICAL IMPORTANCE OF OPERATIONAL ART WILL NOT BE REDUCED
- INFORMATION WILL INCREASINGLY AFFECT THE FACTORS OF SPACE, TIME AND FORCE
- NEW TECHNOLOGICAL ADVANCES WILL COMPRESS SPACE AND TIME SEPARATING LEVELS OF WAR
- HOWEVER, THE NEED FOR THE OPERATIONAL LEVELS OF COMMAND WILL REMAIN.

- NEW METHODS OF COMBAT FORCE EMPLOYMENT WILL EMERGE
- STRIKES WILL REPLACE BATTLES AND ENGAGEMENTS, WHILE MAJOR OPERATIONS WILL BECOME THE MAIN METHOD OF COMBAT EMPLOYMENT TO ACCOMPLISH NOT ONLY OPERATIONAL BUT ALSO STRATEGIC OBJECTIVES IN A GIVEN PART OF THE THEATER.