

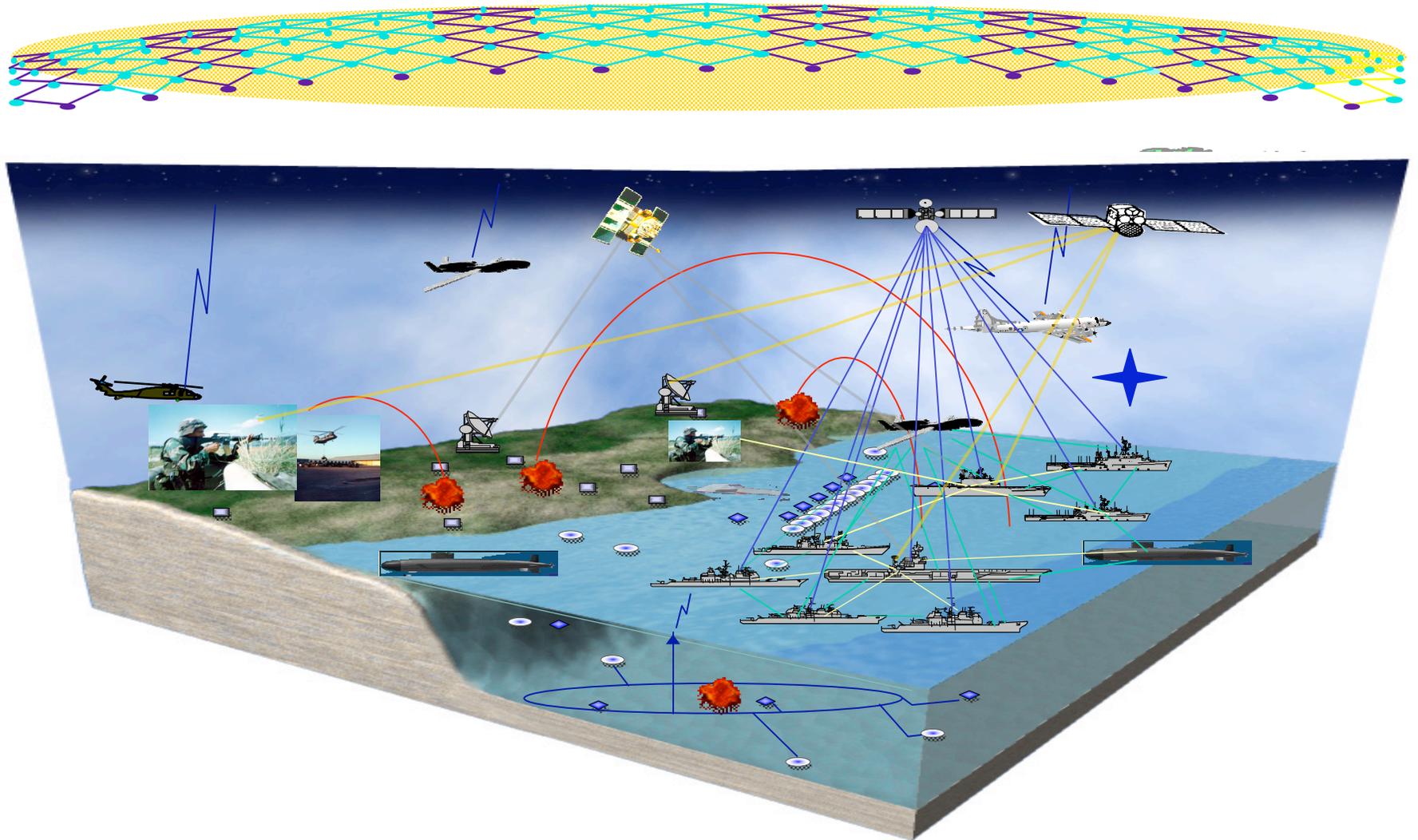
Network-Centric Warfare and FORCEnet: Implications for Human Systems Integration

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OPNAV N00T

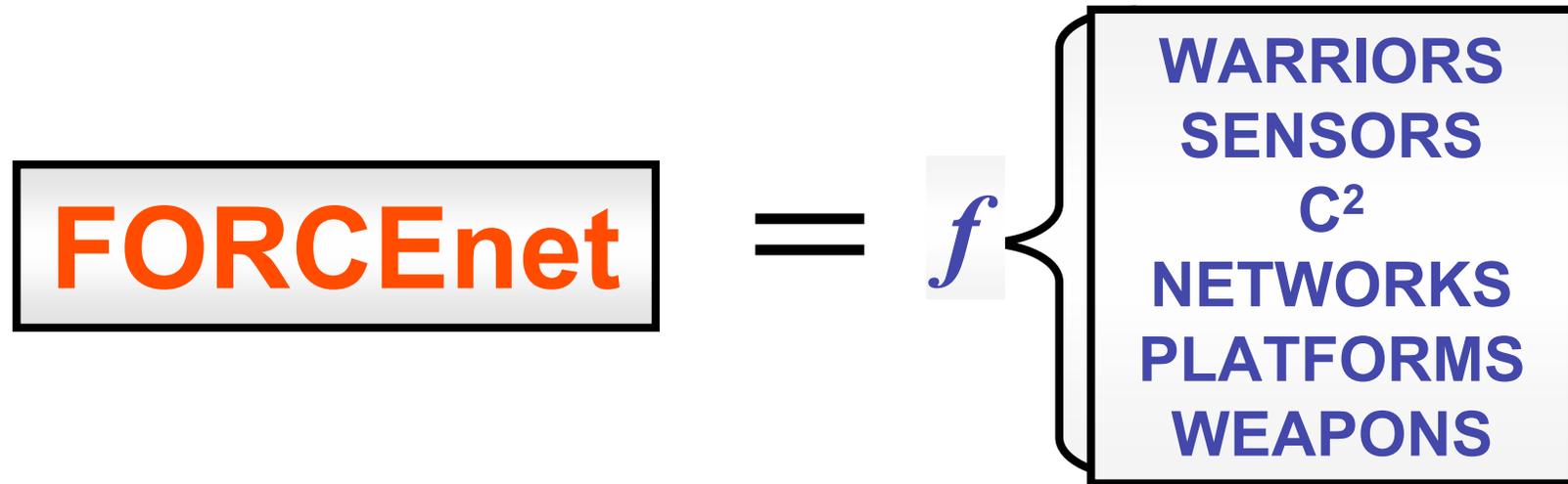
FORCEnet Operationalizes Net-Centric Warfare



FORCEnet: Turning Information into Power

- “While networks, hardware and software are critical to FORCEnet, its real transformation potential results from enhanced warrior performance initiative that are key to greater situational awareness, self-synchronized execution, and accelerated speed of decision. Developing these capabilities demands that human-system integration efforts be central to FORCEnet, ensuring technology is employed to best support our professionals”.

Full Dimension FORCEnet



Integration of FORCEnet factors yields “order of magnitude” increases in combat power

A Part of the NCW HSI Challenge

Sensors	C2 Networks Warriors	Weapons	Platforms
AN/SPY1	AEGIS/JTIDS/CEC/other	SM2	CG/DDG
RADAR SET	ICC/JTIDS/other	PAC-3	PATRIOT
AN/APS145	C2MC/JTIDS/CEC other		E-2C
SR/PITR	JTIDS/other		JLENS
AESA	MC/MIDS/other	AMRAAM	F/A-18
APS-137	MC/various	SLAM-ER	P-3C
SAR	MC/JTIDS/other		JSTARS
SAR, EO/IR	MC/JTIDS/other		AWACS
TPS-59	MC/CAC2S	AMRAAM	CLAWS
EO/IR	AOC/JTIDS/other		GHAWK

FORCEnet Engagement Packs

Another Part of the NCW HSI Challenge

- “Power to the Edge” and “Strategic Corporals”
- “Blurring of tactical, operational, and strategic levels of war”
- “Capabilities” versus “Platform” Centered
- “Family of Systems”/”System of Systems”
- “Joint/Multi-National/Multi-Organization” Teams
- “Virtual/Distributed/Ad-Hoc” Teams
- “The right information to the right person at the right time”
- “Data/Information/Knowledge/Wisdom” Management

Part of the Solution?

- Human Systems Integration Domains
 - Human Factors Engineering
 - Personnel
 - Habitability
 - Manpower
 - Training
 - Environment, Safety, and Occupational Health
 - Survivability

(DoD Instruction 5000.2, 2003)

Another Part of the Solution?

- Joint Capabilities Integration and Development System
- Functional Solution Analysis
- Integrated Changes to:
 - Doctrine
 - Organization
 - Training
 - Materiel
 - Leadership
 - Personnel
 - Facilities

(CJCSI/M 3170.01, 2004)

QUESTIONS AND COMMENTS