

THE FUTURE COMBAT SYSTEMS NETWORK - SUGV

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This is a short presentation of the Future Combat Systems (FCS) combines advanced technologies, organizations, people, and processes with concepts to create new sources of military power that are more responsive, deployable, agile, versatile, lethal, survivable, and sustainable. The FCS family of Systems/Systems of Systems provides increased strategic responsiveness - enabled by knowledge; adaptive modular organizations. FCS is a major program for an entire System of Systems to transform the Army to be strategically responsive and dominant at every point on the spectrum of operations, through real time network centric communications and systems for a family of manned vehicles and unmanned platforms by the next decade.



The paper invites an incursion in

the world of the military technologies performances. We explore the science and the technology which is used for the fabrication of the most intelligent guns.

As part of the Army's current transformation, robots are being integrated in to force structure to reduce human risk.

The Future Combat Systems (FCS) is the cornerstone of the Army's full spectrum modernization effort. FCS is not just a technology development program; it is the development of new brigade combat teams (BCT). These new brigades with more infantry, better equipment, improved communications and unmatched situational awareness will change the way the Army fights wars. These BCTs will prove invaluable during asymmetric offense, defense and stability operations, allowing for precision targeted fires (keeps civilians out of harm's way) and more infantry on the ground (to patrol civilian populations).

Sensors connected to the brigade combat team's network offer real-time situational updates allowing the Army to engage the enemy before they strike military or civilian targets.

Bibliography

- [1] <http://www.heritage.org>
- [2] <http://www.ausa.org/>
- [3] <http://www.fas.org>
- [4] Eparu Ion, Bădoiu Dorin, "Elemente de mecanică teoretică și de modelare a structurilor de roboți industriali", ed. Tehnică, București, 1997
- [5] Matthew Cox, "Guard Stryker Brigade to Deploy with FCS UAVs," Army Times, November 25, 2008.
- [6] Giret A., Botti V., Holons and agents, Journal of intelligent manufacturing, vol 15, 2004
- [7] H. VAN Brussel, "Holonc Manufacturing Systems, the vision matching the problem", Proc. of First European Conf. on Holonic Manufacturing Systems, Hannover, 1994
- [8] McFarlane D. C., Bussmann S., Developments in holonic production planning and control, International Journal of Production Planning and Control, vol 11, nr. 6, 2000
- [9] Alee, Verna – The Knowledge Evolution: Expanding Organizational Intelligence, Butterworth-Heinemann, Bohn 1997.
- [10] Kovacs Francisc W., „Flexible Manufacturing Systems”, Universitatea Oradea Publishing House, Romania , 1999
- [11] Philippe, P., "L'automatisation du processus dans un concept CIM – Le systeme SD" 2002, Ecole Technique Sainte-Croix, 1990