



The Synergic Integrated Concepts of C2S

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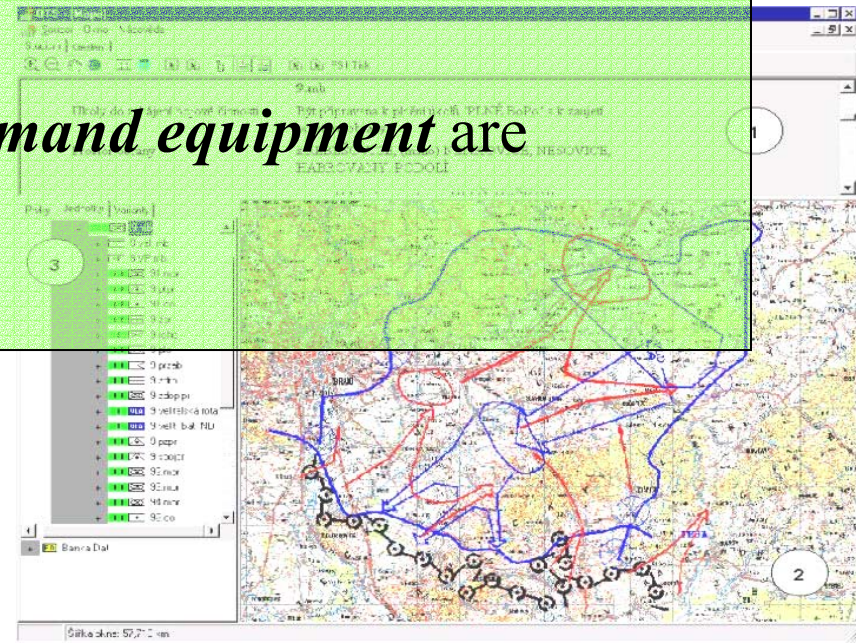
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One of the features determining the strength of troops is command and control.

According to the Czech Army field manual the C2S's consist of:

- the command and control processes,
- commanders and staff,
- command posts,
- *command equipment*.

The main representatives of the *command equipment* are computer networks and CIS.

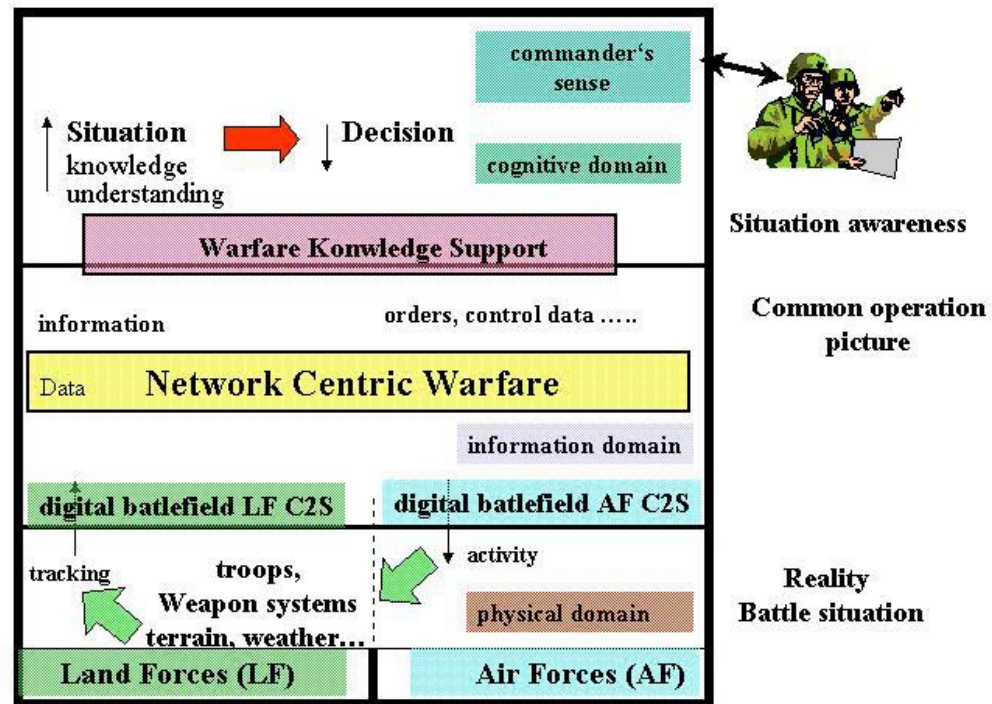


The Synergic Integrated Concepts of C2 systems

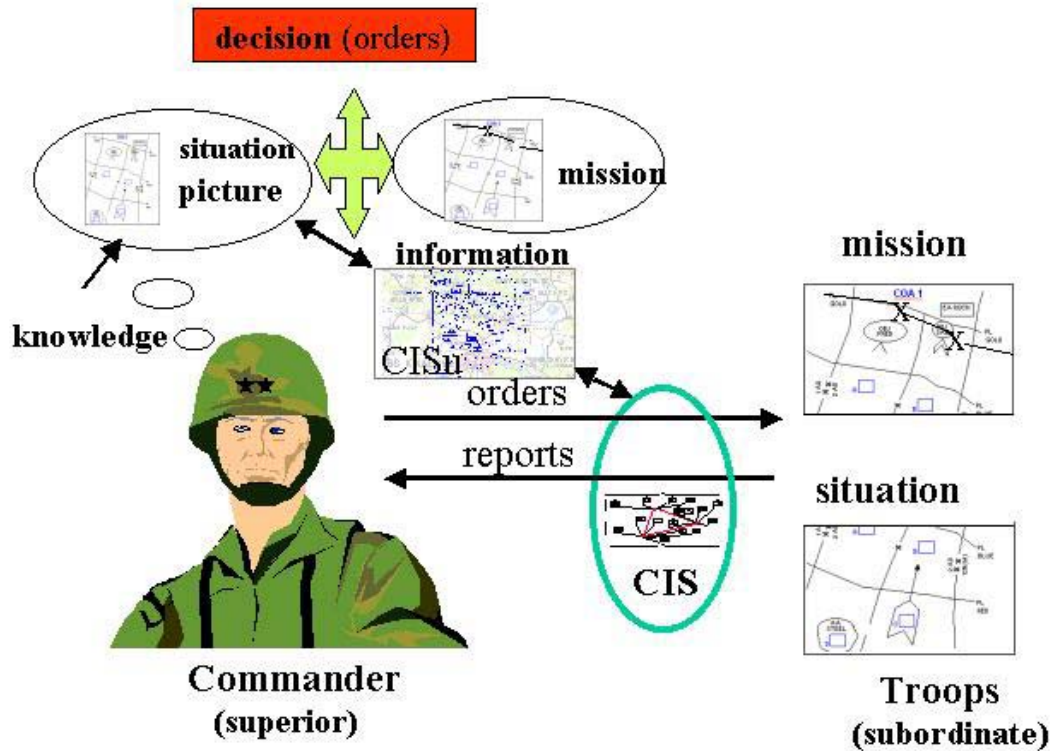
The modern militaries have defined and developed synergic integrated concepts for the command and control systems to improve their logic, integration, systematization.

Concept examples:

- Battlefield Digitalization,
- Network Centric Warfare,
- Warfare Knowledge Support.

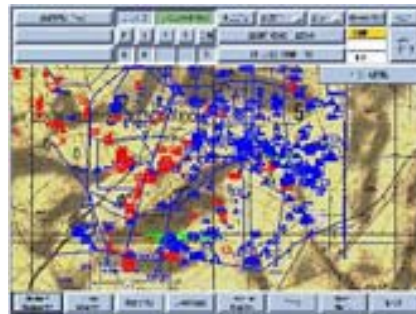


Information is compared to glue that bonds organization into one unit stuck together to accomplish the object function.



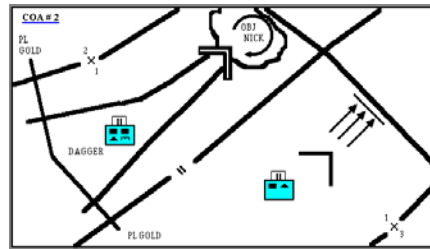
ICT potential for possible CISu improvement

Potential of ICT rests mainly on the ability of creating and reproducing the picture of military important reality. The picture is exploitable for the purposes of command and control, decision-making support, planning, project control, or in favour of troops education and training.

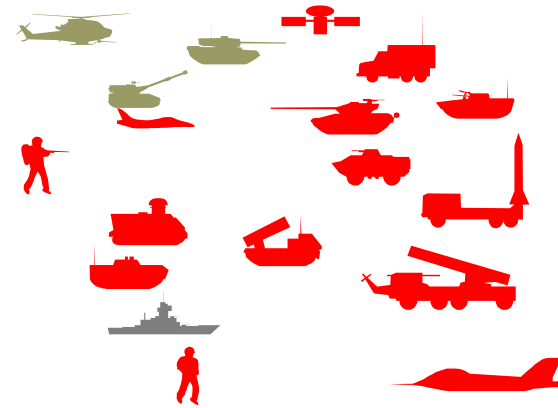


Visualization

The subordinate level receives the intent presentation file and can project it several times, note the mission key instants, realize the critical moments and better understand its role and contribution to the mission questioned.



visualization



reality

Knowledge Support

ICT can make a substantial contribution with system knowledge support of the defense department personnel, readiness to accomplish tasks as assigned, building of “knowledge armed forces”.



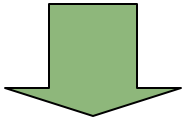
The synergic integrated concept of the command and control system represents the definition and sorting (order) of its specific part.

C2S synergic integrated concept definition consists of:

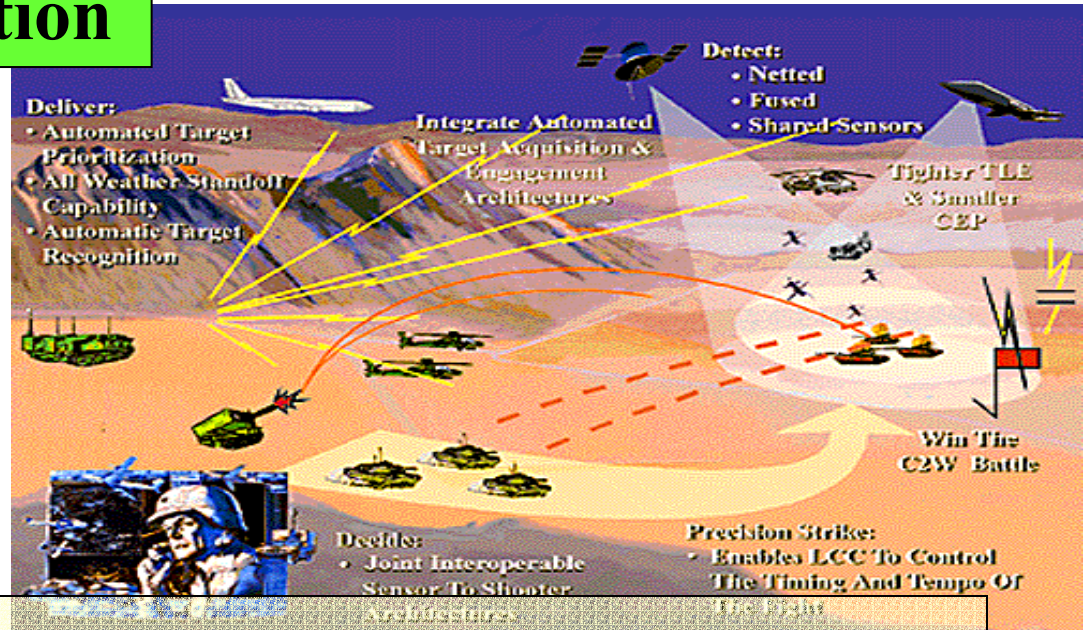
- basic idea,
- improvement result,
- ICT integration,
- systemization rules (concept pattern).



Battlefield digitalization

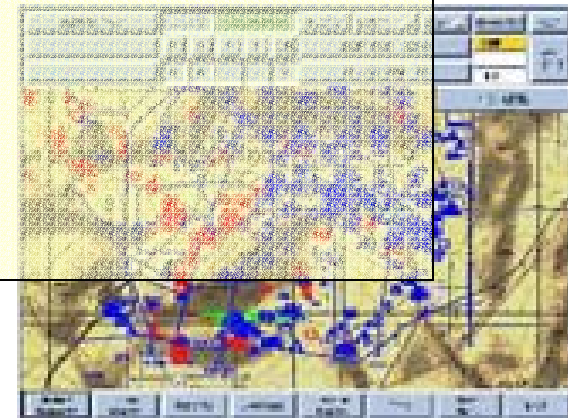
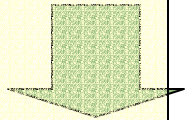


- digitalization,
- sensors.

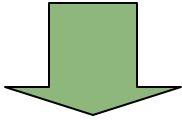


Main features:

- systematic coverage of the battle area by broad spectrum of sensors,
- digital information form potential exploitation,
- platform centric data fusion,
- quick data distribution, common tactical picture.



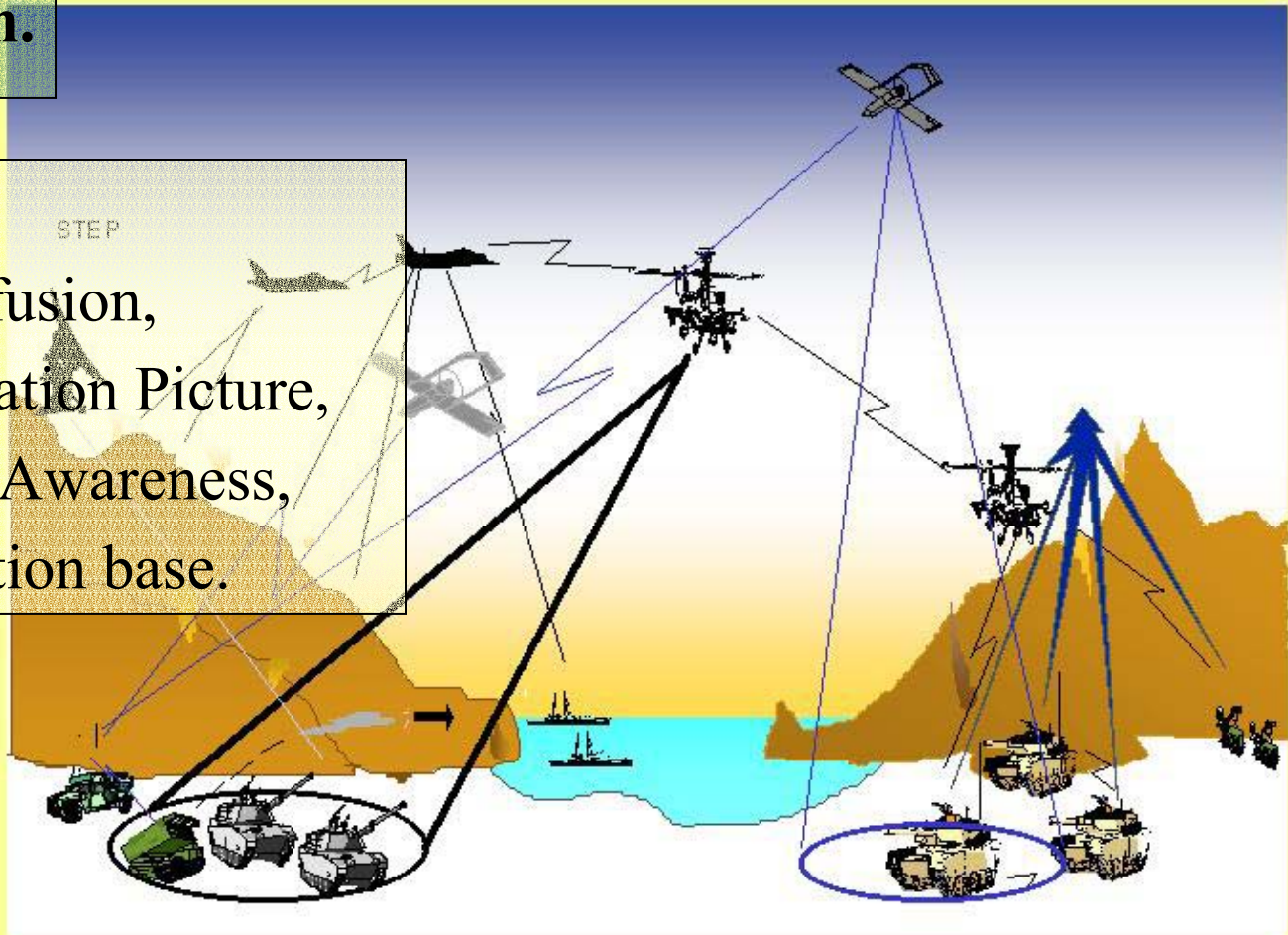
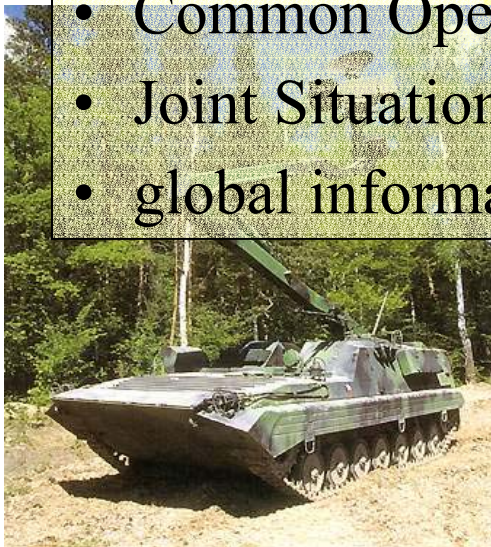
Network Centric Warfare



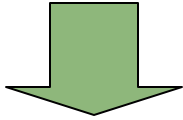
- C2S integration.

Main features:

- complete data fusion,
- Common Operation Picture,
- Joint Situation Awareness,
- global information base.



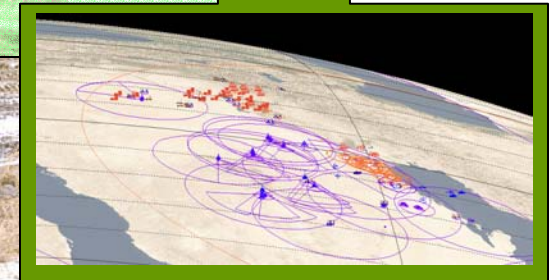
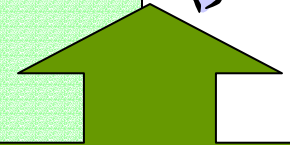
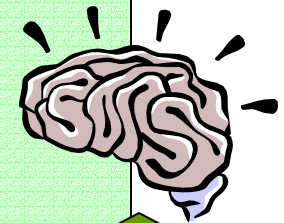
Warfare Knowledge Support



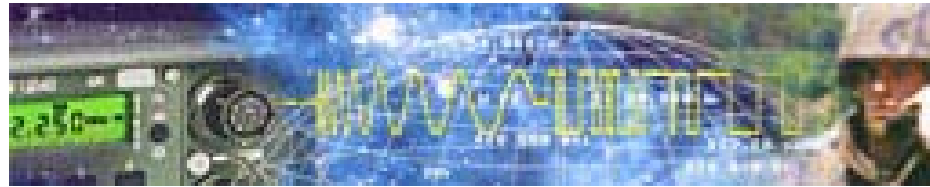
- creation, distribution and using of battle knowledge

Main features:

- knowledge support in time of mission preparation,
- new knowledge acquisition by data-mining,
- quick distribution of new tactical knowledge,
- quick full knowledge offer,
- situation understanding support.



Conclusion



There are discussed the new trends in the area of command and control. These significant trends comprise specifications of synergic integrated concepts for the command and control systems. The synergic integrated concept of C2S is defined by basic idea, rules and principles. The basic synergic integrated concepts of C2S are **Battlefield Digitalization** and **Network Centric Warfare**. Promising, however still undefined, will be the concept focused on the **Warfare Knowledge Support**.

