

Contemporary Scenario for CAX

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Aim

To explain the structural complexity of the Scenario for CAX, and its influence on CAX process.

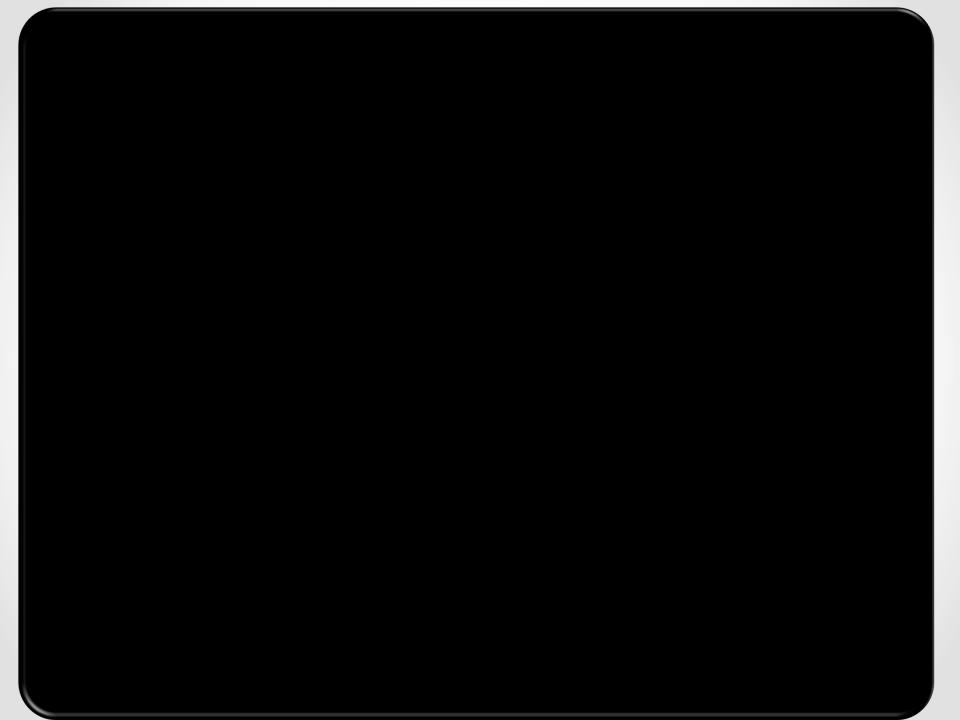


Outline

- ☐ Introduction.
- ☐ CAX Purpose.
- ☐ Global Security Environment.
- Scenario foundations.
- ☐ CAX Methodology.
- Conclusions.

Introduction

- At the beginning of 21st century the global international community is dominated by the democratization of information, technologies and finances (Friedman, "The World is Flat", 2005).
- The threats to contemporary society are not only military but also political, economical, social, demographical, environmental and others.
- CAX is indispensable training methodology which could ensure to the International Community a suitable and timely reaction to security deviations.



CAX Purpose

Byrne (1997) wrote basic orientation with record: "It is not the question "What happen?", ... or even "What might happen?", but ruther "What are the necessary and sufficient conditions for a given

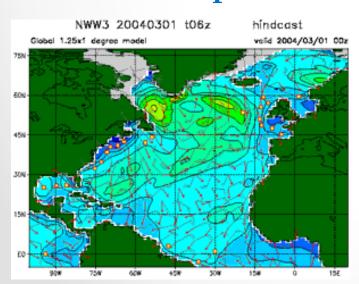
result to be obtained?"

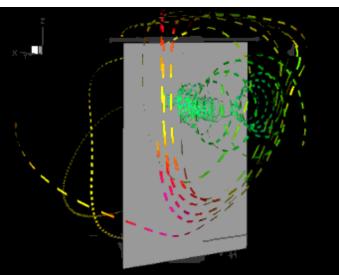
Represent all activities and procedures, which are directed toward imitation of processes or entities from the real world.



Global Security Environment

- Global stakeholders
- Power projection
- Asymmetric threats
- Bio-terrorism
- Non-traditional security threats
- Fast pace of a crisis

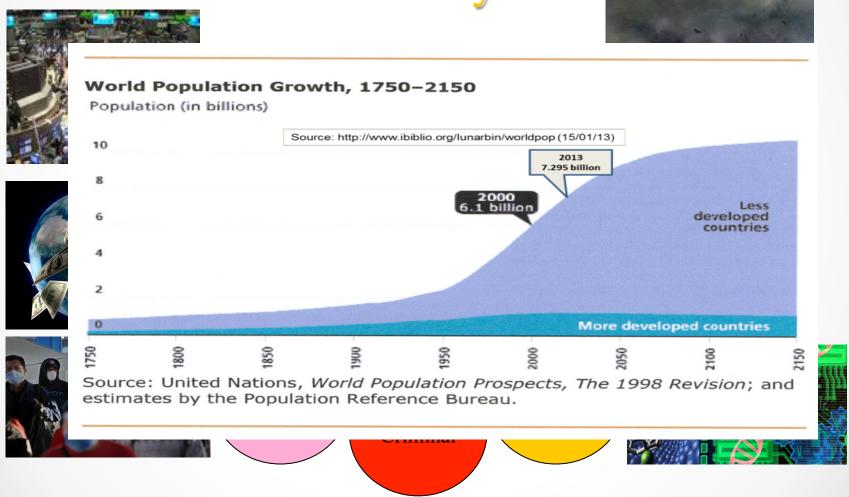








Complex Security Threats to Society



Dhaka

New York 5.5 million Los Angeles 17 million 4.9 million 12.9 million 14.2 million

> Mexico City 3 million 17.6 million 19 million

Lagos 1 million 12.2 million 24.4 million

São Paulo 2.3 million 17.3 million 19 million

Buenos Aires 5.25 million 12.2 million 13.9 million

Shanghai

10.5 million > 11 million

20.6 milk of

2.8 million 16.9 million 27.4 million

Jakarta

Tokyo

5.2 million

27.7 million

28.7 million

In terms of equivalent growth rates to Dhaka, Bangladesh, New York 's population in 2015

would be 570 million . . . twice the

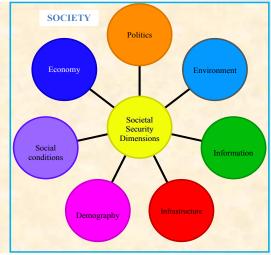
population of the United States in 2000

- •1950
- •2000 (estimate)
- •2015 (projection)

Comprehensive Approach to Societal Security

Harmonization



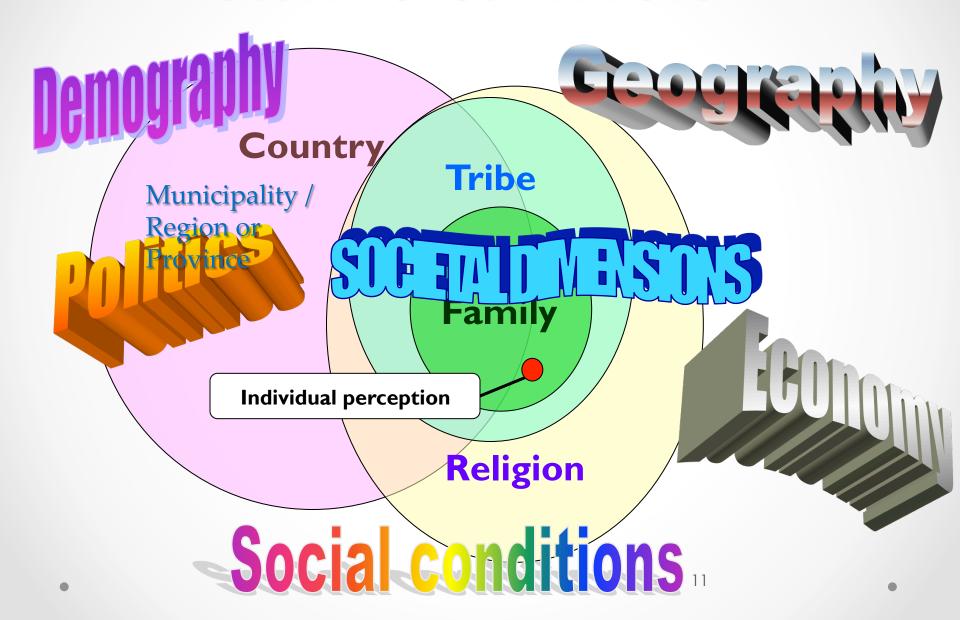


Political Authority Mutual Acceptance

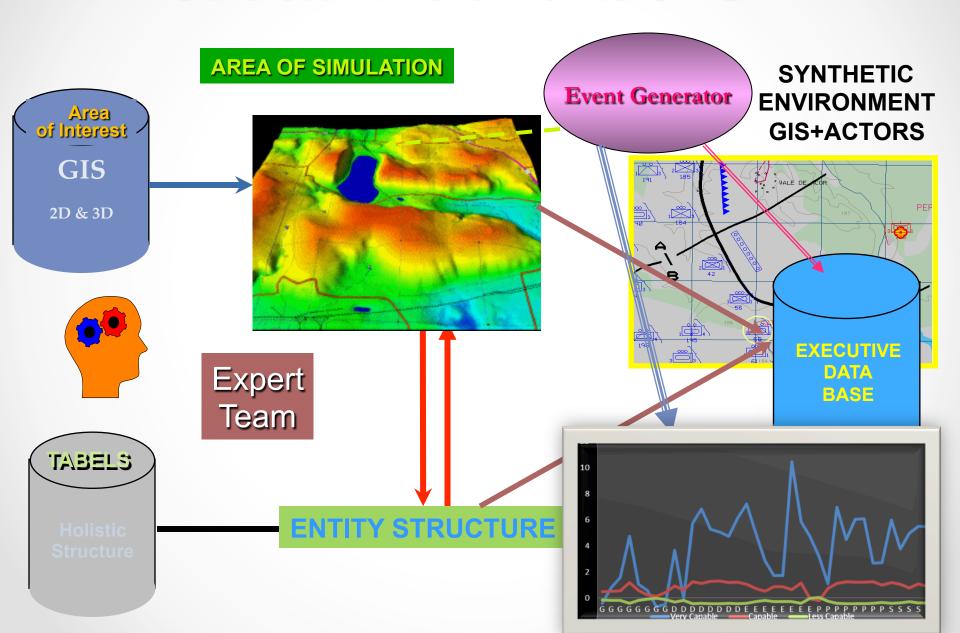
Common Understanding

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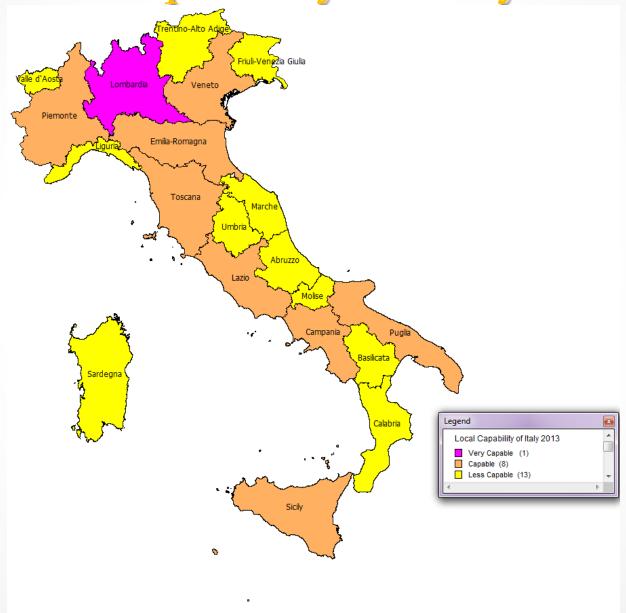
Scenario foundations



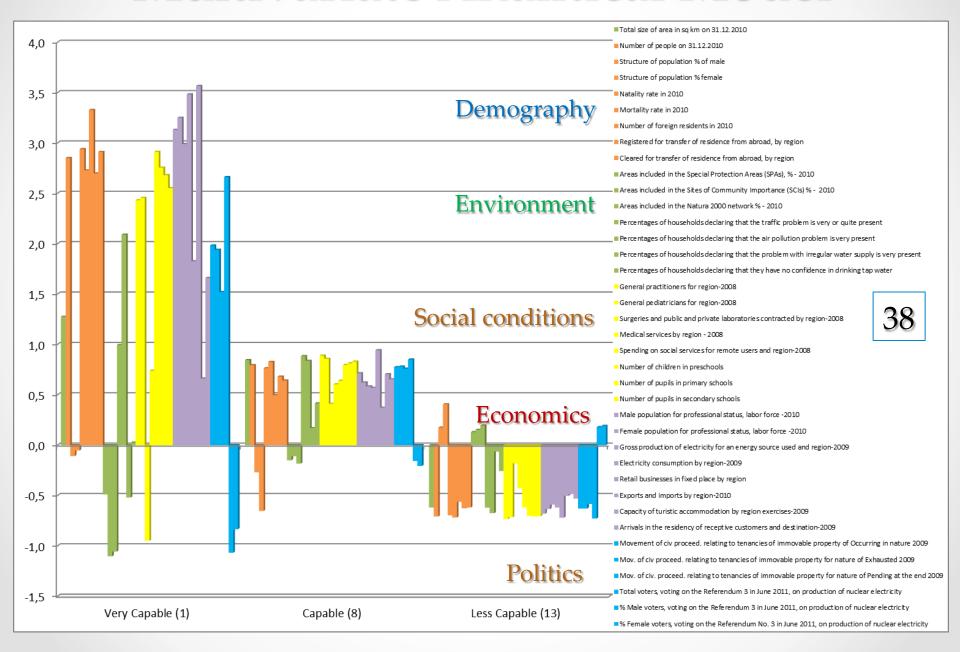
Structural elements of CAX



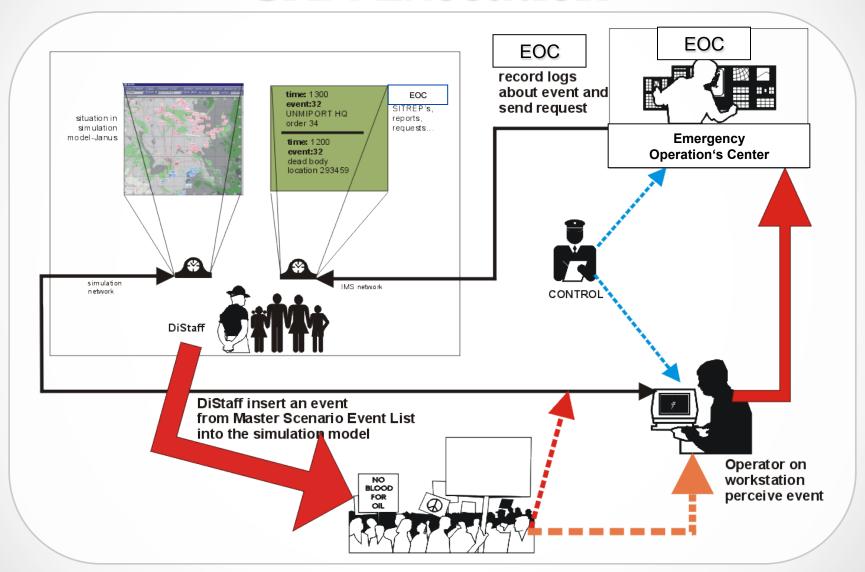
Local Capability of Italy 2013



Multivariate Analitical Model



CAX Execution



MEL/MIL Examples



Fire in the Nuclear Power Plant



Traffic accident in the road tunnel

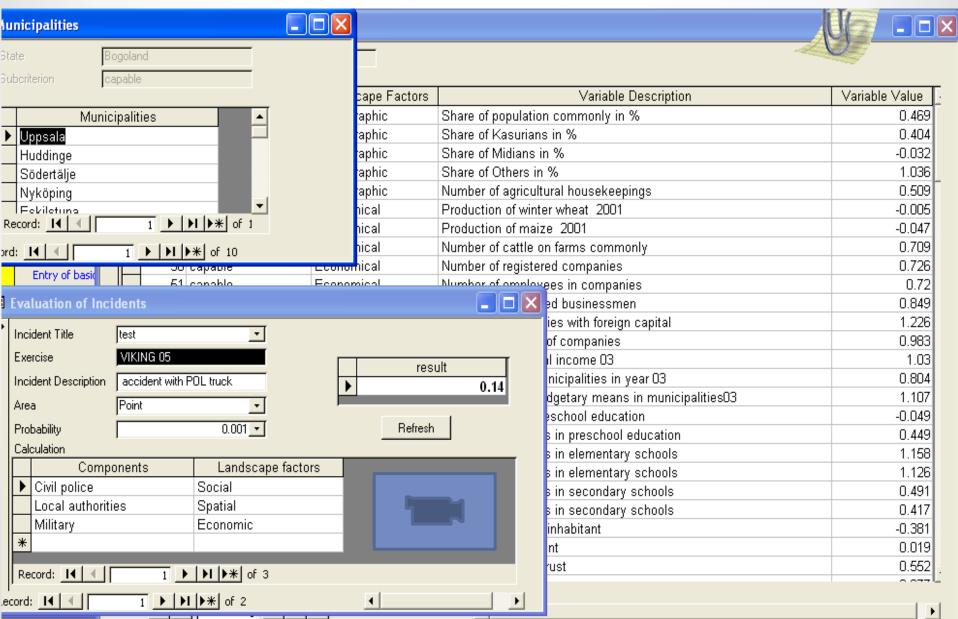


Demonstrations

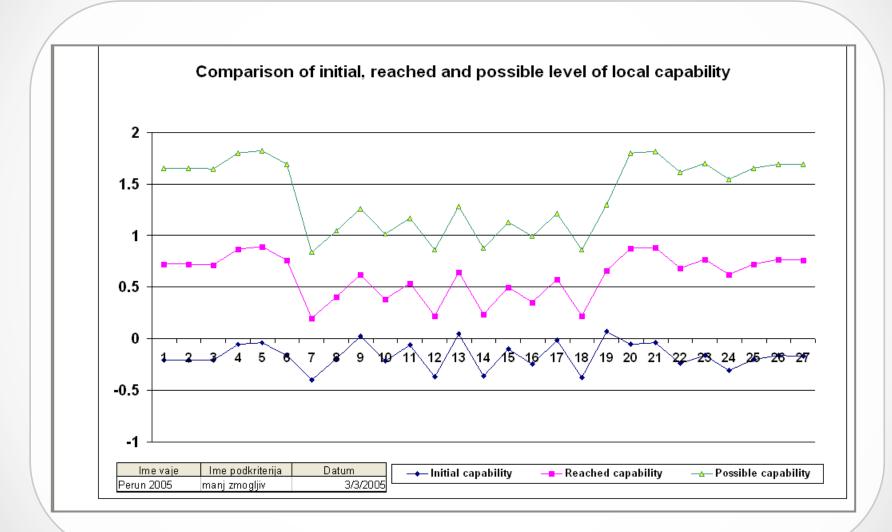


Collapse of the river dam

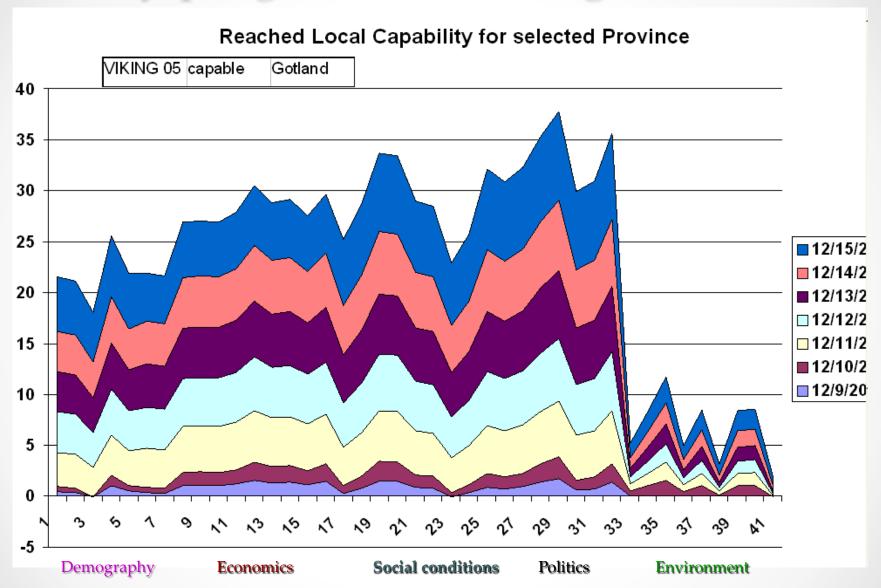
Incident Capability Index



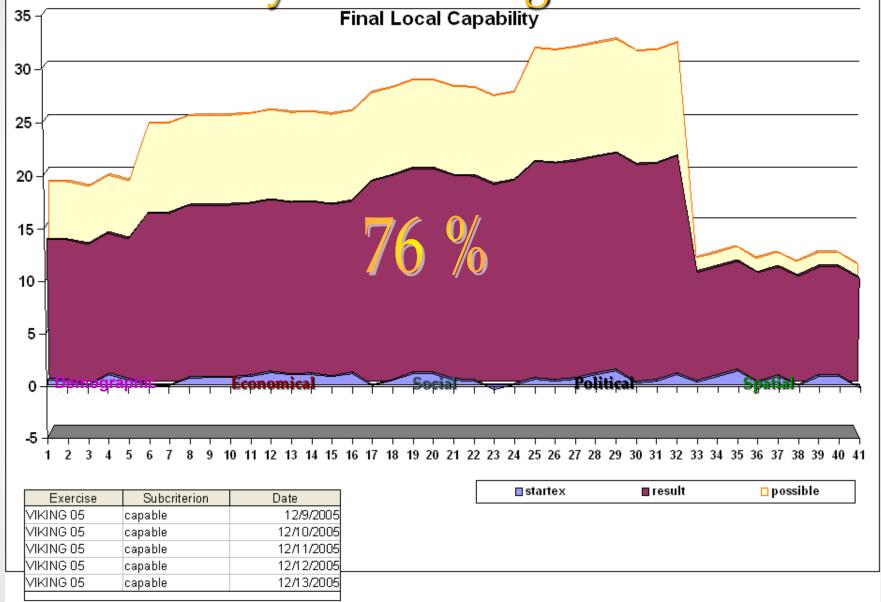
CAX Analysis



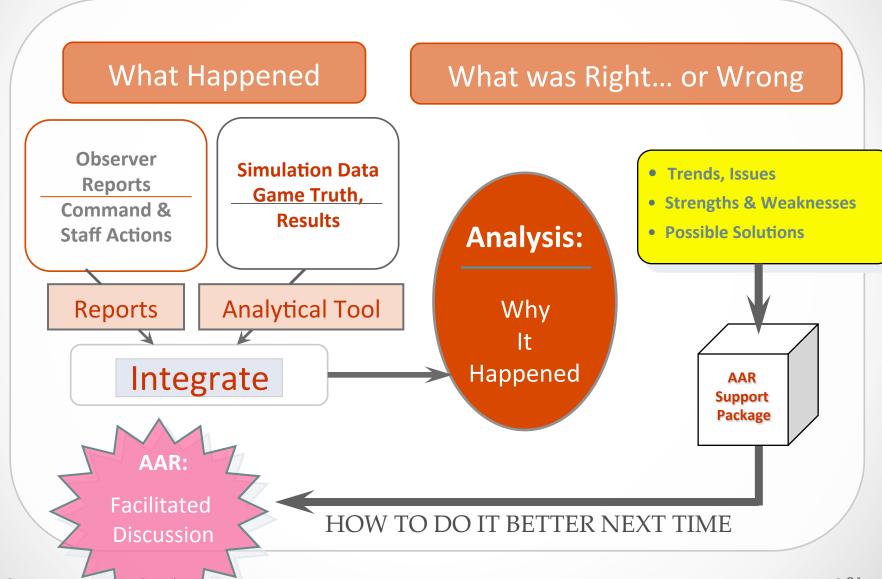
Daily progress of Training Audience

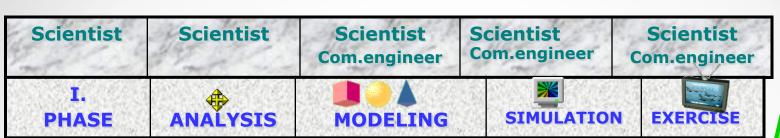


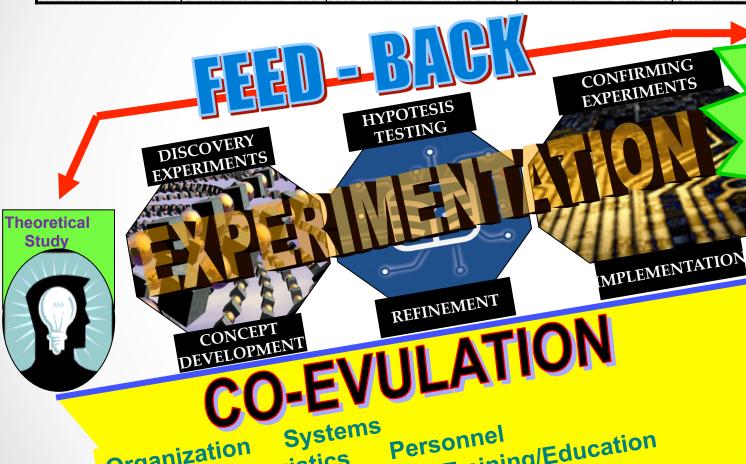
Efficiency of Training Audience



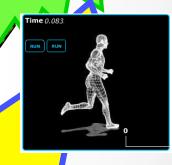
Analysis Process







Fielded
Mission
Capability
Package



Organization Systems

Personnel

Command Arrangements

C4I Systems

Conclusions

- Scenario foundations should describe a potential of societal security dimensions and further develop their interactions in CAX time and space.
- A proper development of CAX scenario is providing consistency througout the entire CAX process.
- Simultaneous development of CAX scenarios and simulation models will provide better conditions for decision-making process of International and National security elements in the future.

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QUESTIONS



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