# Skills Enhancement based on the Training: a Live Experience

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# Serious Games vs. M&S

- Professional People "Talking with" Game Developers
- Professional Software "integrated with "Game Engines"
- Professional Hardware "vs." Game Devices
- Scenario Definition "vs." Game Level
- High Fidelity "vs." High Physics
- Training "vs." Playing
- Cost/Unit: High "vs." Low
- Few Users "vs." Many Users







# **Simulation & Serious Games**

There are different way to proceed in this sectors such as:

- New Virtual Environments
- Substitution of Interfaces with Game Devices
- New Opportunities by New Games Device
- Introduction of Massive Multiplayer On-Line Games
- New Web Games
- Physical Devices integrated by Games in Training
- Games as New Learning Approach





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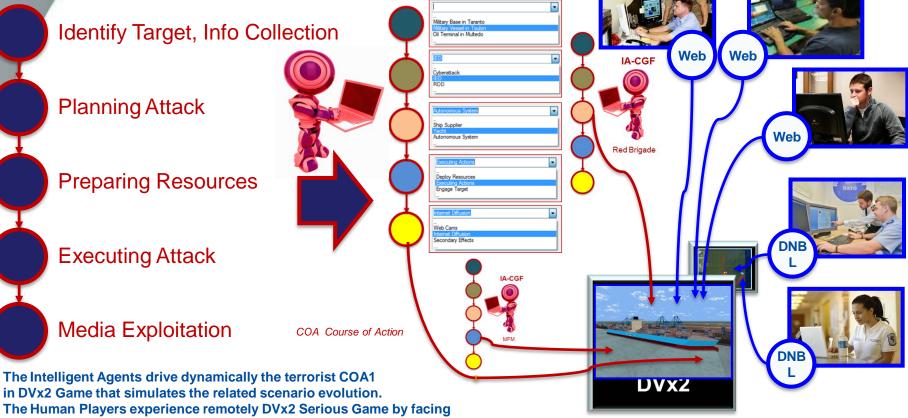
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#### **Distributed Virtual Experience and Exercise**



## Terrorist Groups managed by Intelligent Agent Computer Generated Forces

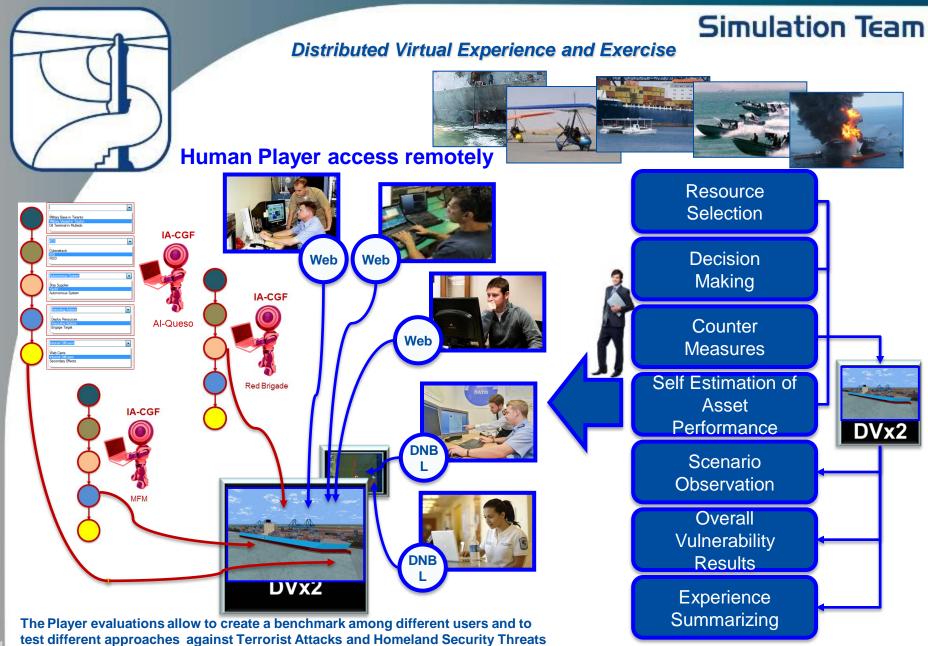


these threats with their Solutions; they provide to DVx2 their own Estimations and they obtain Overall Vulnerability Results

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#### Credits to M&S in CMRE Unclassified Releasable to the Public

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# Easy Learning by M&S and **Serious Games**

**SIBILLA Web Multiplayer Serious Game on Homeland Security and Defense Against** Terrorism



#### **CTrain Serious Game for Port Operation Training in Military Logistics**



#### **SECSIM SECurity Simulation for Maritime** environment and ports



#### **CTSim Serious Game for Ro-Ro Operations**



WILMA Warehouse Integrated Lostics **Management Analyzer** 



**MACS Manufacturing Analysis and** Computational optimization based on



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8



# Learning by Listening, Seeing or Doing... Lets Do it!





# Summarizing



- Education and Training are critical to guarantee the capabilities even more in the future complex scenarios
- M&S and SG are key enablers to guarantee this success within resource constraints
- We have to be ready to train and educate quickly a large amount of people acting in completely new Scenarios
- We need to create new Trans Disciplinary Teams combining Simulationists, SME, Users, Operational People in order to design new generation of Training and Educational Program
- We need to proceed in using emerging technologies as new resources in Education and Training

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# References







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