Skills Enhancement based on the Training: a Live Experience

Agostino Bruzzone Simulation Team DIME Genoa University agostino@itim.unige.it www.simulationteam.com













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





DIME

Jniversità di Genova

www.simulationteam.com



Università di Genova

DIME

Copyright (c) 2013 Simulation Team

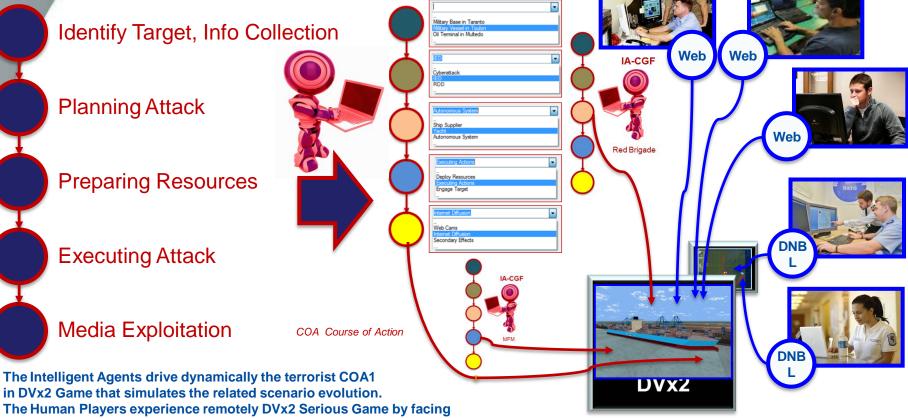
Unclassified Releasable to the Public



Distributed Virtual Experience and Exercise



Terrorist Groups managed by Intelligent Agent Computer Generated Forces

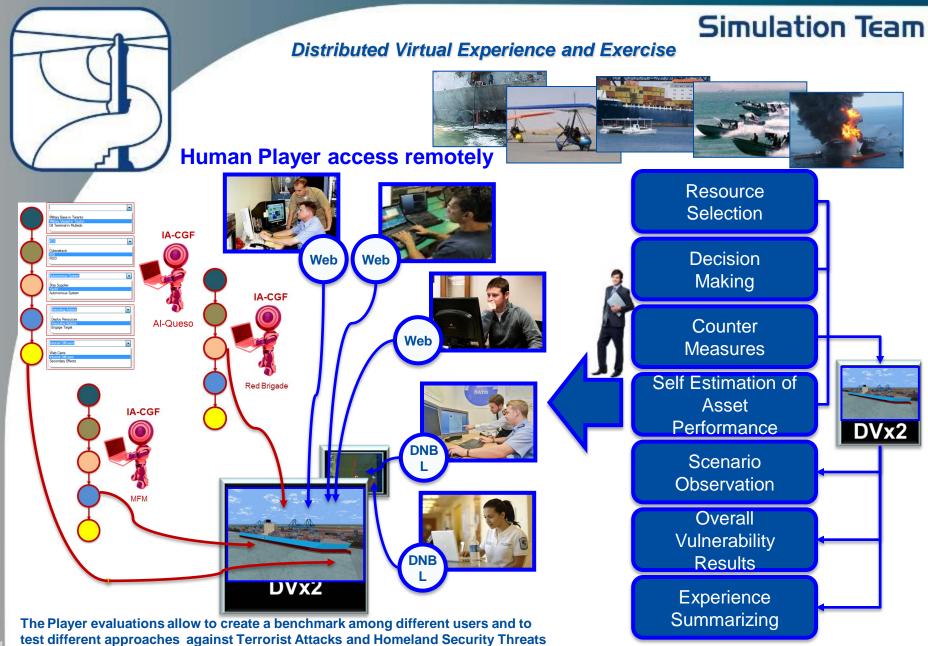


these threats with their Solutions; they provide to DVx2 their own Estimations and they obtain Overall Vulnerability Results

DIME Università di Genova

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

www.simulationteam.com



Università di Genova

DIME



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



Università di Genova

DIME

Copyright (c) 2013 Simulation Team

Unclassified Releasable to the Public

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

Università di Genova

Copyright (c) 2013 Simulation Team



References







DIME University of Genoa

www.itim.unige.it www.simulationteam.com <u>Agostino G. Bruzzone</u> agostino@itim.unige.it



