



ANTITERROR SYSTEMS

The main terror threats & forms

- What is driving the terrorism
 - Globally it is a main geopolitical tool, the way to preserve domination or change the centers of influence and force
 - Locally appears as struggle for power and privileges often affected by external political or economical factors
 - Rudimental protests against first two forms
- Main trend – diversification of weapons, cyberspace utilization to undermine or defeat governments and financial systems



Typical counteraction

- Toughening of the legislation framework
- Human rights and freedoms limitation
- New proactive technologies deployment
 - Total video surveillance (cognitive, behavioral)
 - Inspection, biometrical identification systems
 - Semantic fishing and content extraction in public networks
 - Complex monitoring of the critical objects and infrastructures



Key limitations and problems

Political, Social and Economic

- The basic sources and roots of terrorism are being preserved

Administrative and Technological

- Bureaucratic, thus ineffective mechanisms of interagency collaboration (rescue, securities, military)
- Weakness of cognitive, semantic approaches in information retrieval and interpretation
- Inability of security staff to adopt disintegrated technologies and poorly structured information
 - Lack of motivation and vocational training



Global approaches & experience

- English project - "Scope" (2003-2009)
 - Hierarchical integration of all security systems and services within single broadband protected network (only CCTV segment - >> £1.75bn).
- Moscow metro, distributed video surveillance system with situational center (~ \$0,5 bn since 2005)
- Case management project - Virtual Case File (2001-2006) of FBI USA, targeting real time access to integrated online information (\$170 млн.) FAILED



Development trends outlook

- Behavioral analytics and recognition
 - Antipanic systems
 - Recognition of atypical people behavior and potentially dangerous objects
- Proactive protection
 - Correlation analysis and cognitive prediction of risks based on semantically retrieved data from social public nets and sensor networks (monitoring, CCTV etc.)
- Virtual & Augmented reality simulations (4D)
 - Spatial models with time management with retrospective and predictive operation
 - Spatial Video surveillance and anthropometry based modeling for person recognition



Development trends outlook

- Distributed intelligent rescue, special forces training and operations management systems with smart agents and situational modeling
- Broadening robotics adoption, reduction of “human factor” effects
- Broad deployment of hi-level **interagency** environment, transport, critical infrastructure and objects monitoring systems utilizing most advanced described and developing technologies and systems



Tradition Group portfolio

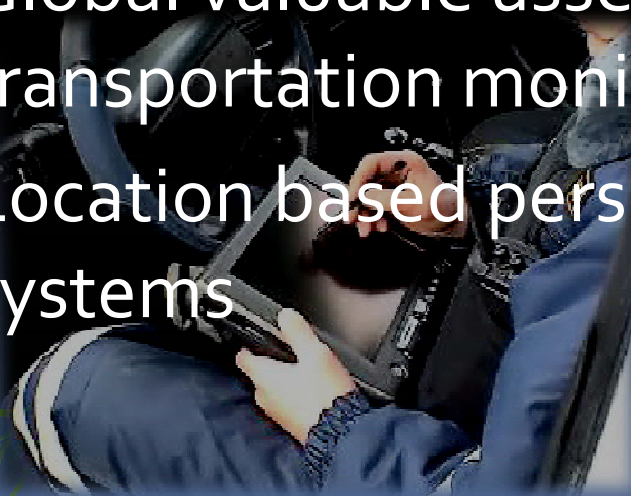
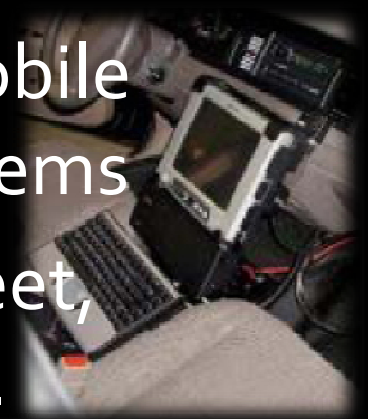
R&D, manufacturing and solutions providing in ICT market since 1993, focusing at :

- Global monitoring and security management solutions for mobile and fixed objects, infrastructures and environments utilizing GNSS, image recognition and knowledge extraction technologies.
- 4D Geo-information and simulation tools, virtual and augmented reality applications and complexes
- Ruggedized and HPC computer systems for mission critical applications and public use



Monitoring & Security management

- Complex rescue, police and anti-terror mobile units GNSS/LPS based management systems
- Private, commercial and governmental fleet, logistic management solutions & services.
- Control rooms and dispatcher centers
- Global valuable assets or dangerous goods transportation monitoring
- Location based personal, vehicles guard systems



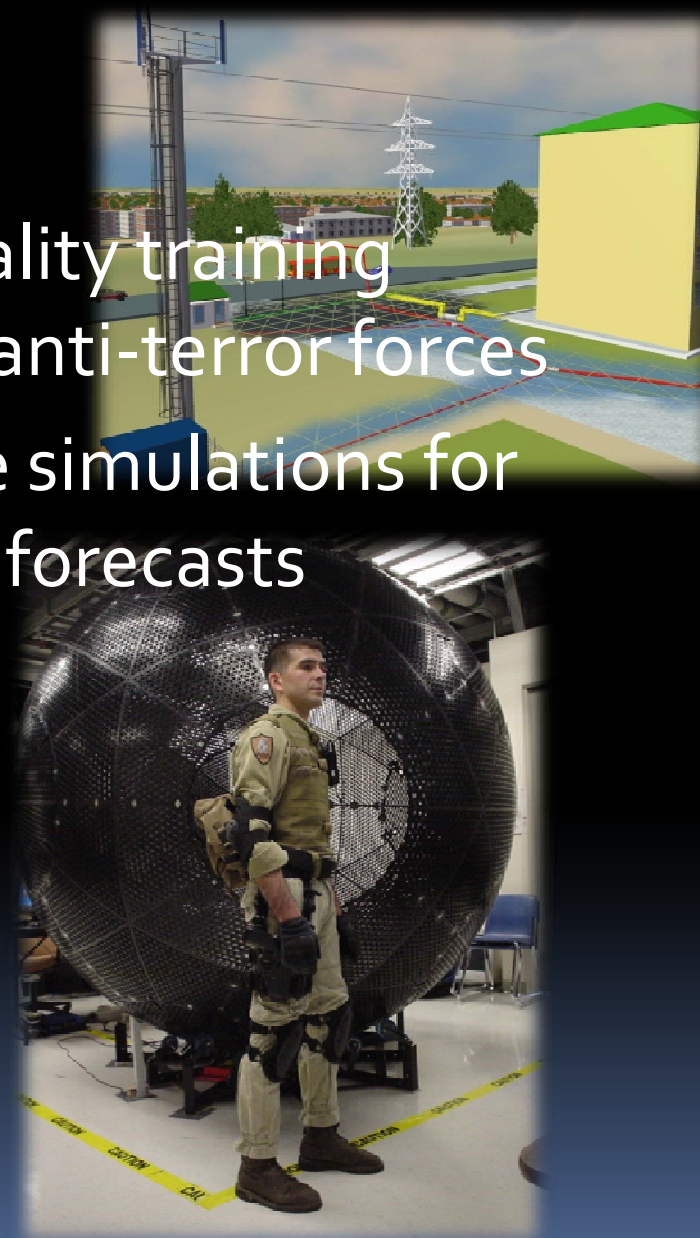
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Simulation tools

- Virtual and augmented reality training complexes for rescue and anti-terror forces
- Territories & infrastructure simulations for retrospective analysis and forecasts

(GeoMan™).



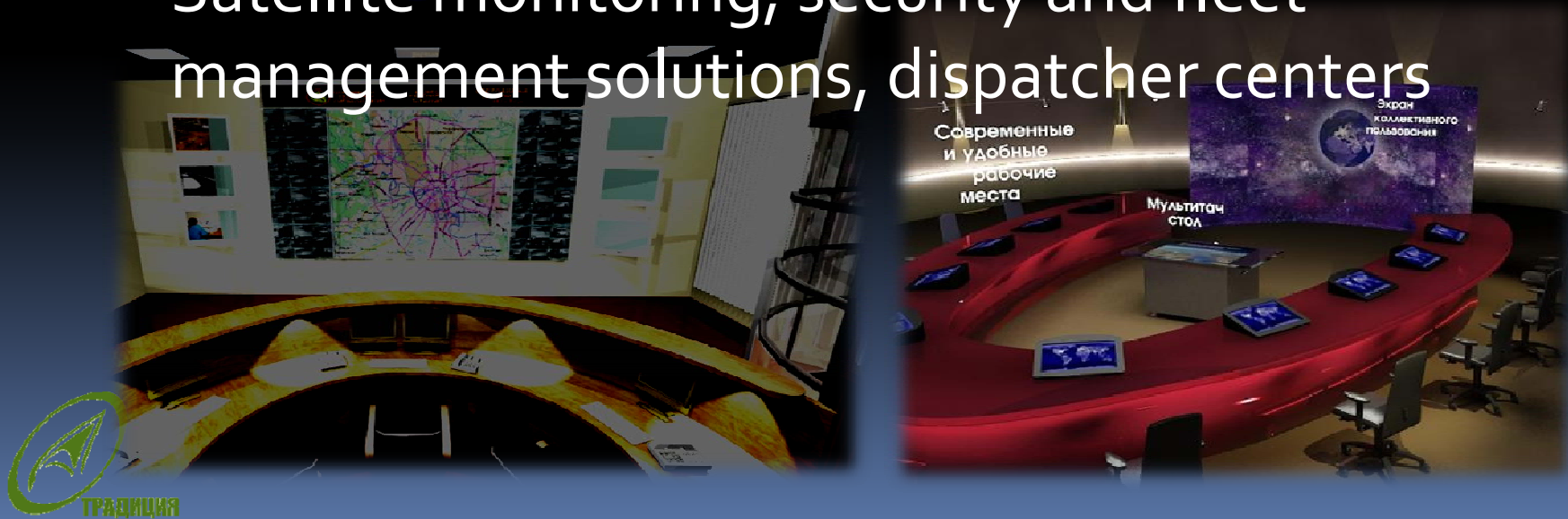
Ruggedized computer systems

- Mission critical and failure proof:
 - Mobile computer systems
 - Redundant clusters and supercomputers
 - Customer specs built from the scratch
 - Commercial systems tuning and protection
- General and problem oriented software platforms and systems



Deployment examples

- Center for monitoring and evacuation of unduly parked vehicles
- Moscow mobile police investigation and search operations management center
- Satellite monitoring, security and fleet management solutions, dispatcher centers



Thank you for your time

We're opened for cooperation proposals



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Director general of Tradition R&D firm

In presentation used visrtusphere.com, cnews.ru, secnews.ru и
and some other information sources.

