

The Simulator of Police Operations in Crisis/Emergency Situations





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The Police Academy in Szczytno, Poland

- Established in 1954, re-organized in 1990
- Member of the Association of European Police Colleges (AEPC); the European Police College organization (CEPOL) and the Europan Police Learning Network (EPLN)
- 4 journals published e.g. Internal Security journal
- Over 150 academic staff
- ca. 5 000 students graduated each year (including civilian student and law enforcement representatives)
 BA, MA, postgraduated and vocational training.



The Police Academy in Szczytno, Poland

- Research projects accomplished each year
- Several research projects conducted from the Polish National Centre for Research and Development founds
- End users status and consortium member in various EU Research and Innovatin programmes e.g. the HOUSE, SECTOR, CAMINO
- Currently applying for founds under Horizon 2020



MAIN FIELDS OF INTEREST

- <u>Crisis management;</u>
- <u>Mass event security;</u>
- <u>Simulators;</u>
- Terrorist threats and cyber crime counteracting;
- Reducing crime through public space design;
- Fight against organized crime;
- Criminal analysis (strategic and operational);
- Financial Fraud counteracting / Assets recovery;
- Drug related crime combat;
- Criminology and forensic science;
- Operational control, investigation and surveillance;
- Early warning of threats detection.



Simulator of Police Operations in Crisis/Emergency Situations

- Police operation tactics and formations – simulation
- Appliances of Police reactions: riot control, road traffic control, SWAT use, municipal services and rescue teams support
- Variable crowd proportion and aggression level
- Interactions between objects (crowd-police)
- Simulation of CCTV system

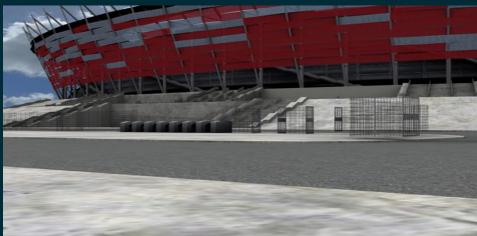




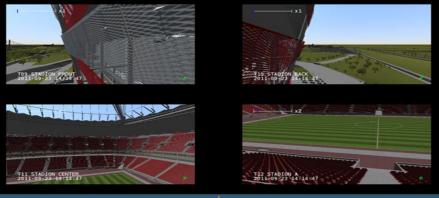












Honitoring stad

The project was conducted in 2009-2012 in consortium with ETC-PZL Aerospace Industries Sp. z o.o.



HOW TO FILL THE GAP?



SIMULATION







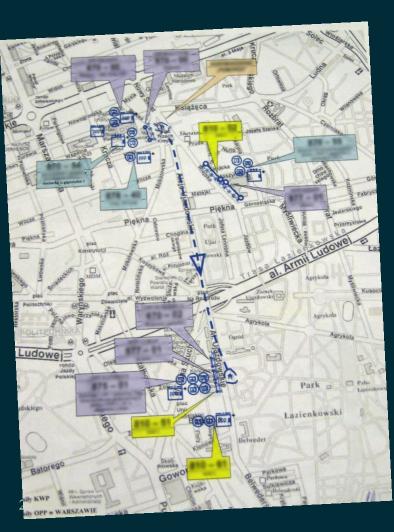
What is the POLICE OPERATIONS' SIMULATOR?

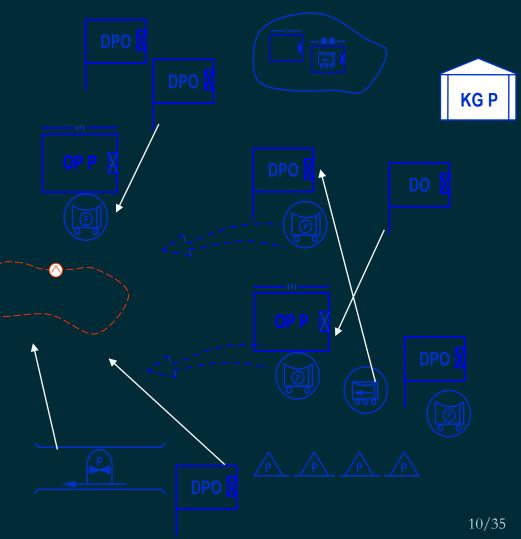
A Virtual Reality Training System that Simulates large operations used to train Police Operational Command Team





CLASSROOM of the TRAINING







A TACTICAL TRAINING









A REAL LIFE SITUATION



ebafoto.com





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THE POSSIBILITY TO SIMULATE DIFFERENT CRISIS SITUATION SCENARIOS



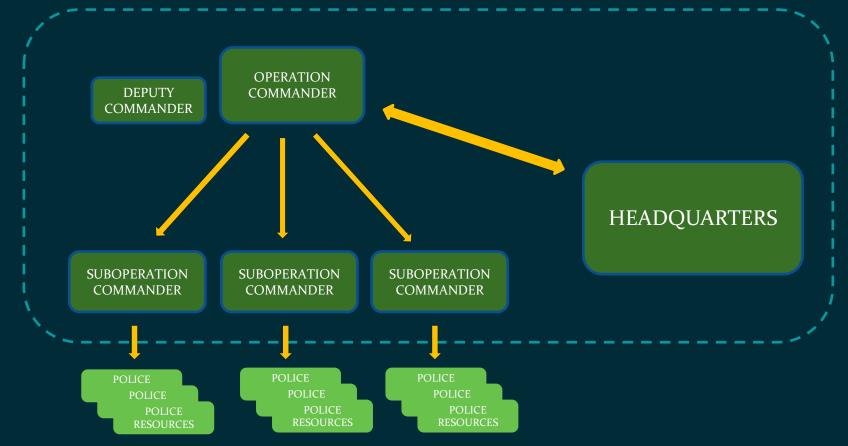
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THE RANGES OF THE TRAINING



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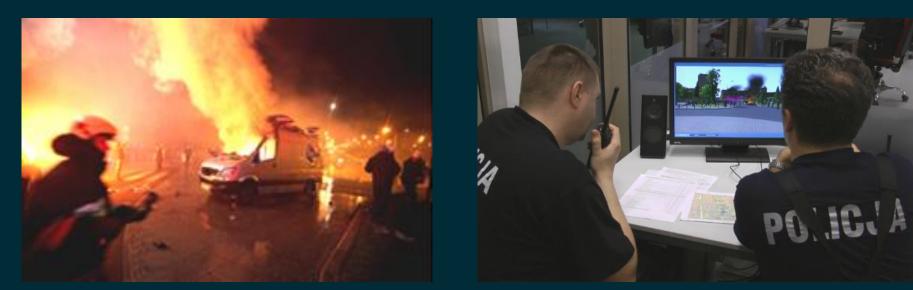


POLICE ACTION TACTICS

	Tyraliera "w linii"	PODODDZIAŁ PREWENCJI		Suboperation Commander 5	Megaphone
	pojedyńcza	ldź do			
	podwójna	Biegnij do	Wszystkie rzędy	👸 Squad	Helicopter
	potrójna	Wycofaj do		O stand	- Hensepher
	Tyraliera "w klin"	Teleport	Nic	Platoon	Panda SM
	pojedyńcza podwójna	Stop	Pałki służbowe	1 Hatcon	ranua sm
PODODDZIAŁ PREWENCJI	potrójna		Tarcze	Company	Transit SM
ldź do	Tyraliera "w oskrzydlenie"	Powrot do wozu	Pałki i tarcze	Company	
Biegnij do	pojedyńcza	Dodaj podwładnego	RWGŁ	×	
Wycofaj do	podwójna	Przebuduj formacje	Broń gładkolufowa	Squad with PMP	SDCZK
Teleport Stop	potrójna	Formacje •	-		
Powrot do wozu	Tyraliera "skosem w lewo"	Środki przymusu bezpośredniego 🔸	Rząd pierwszy	Platoon with PMP	8BiZK
Dodaj podwładnego	pojedyńcza	Użycie środków przymusu	Nic		
Przebuduj formacje	podwójna	Środki wsparcia	Pałki służbowe	Company with PMP	Firetruck
Formacje 🔸	potrójna	Usuń	Tarcze		
Środki przymusu bezpośredniego 🔸	Tyraliera "skosem w prawo"	Usun	Pałki i tarcze	K-9 squad	Ambulance
Użycie środków przymusu	pojedyńcza		Rząd drugi		
Środki wsparcia	podwójna		Nic	P K-9 platoon	TV Station
Usuń	potrójna		Pałki służbowe		
	Kolumna			Mounted squad	ZDM
	pojedyńcza		Tarcze		
	podwójna		Pałki i tarcze		
	potrójna		RWGŁ		
	Linia		Broń gładkolufowa		
	posterunków		Rząd trzeci		
	patroli	L	Nic		
	Kordon	nik Zdarzeń Komunikaty S			
nnik Zdarzeń Komunikaty S	pojedyńczy zwarty	Komunikaty s			
Komulikaty.	pojedyńczy wiązany pojedyńczy rozczłonkowany		Tarcze		
	podwójny	Czas astronomiczny 14:22	Pałki i tarcze		
Czas astronomiczny 14:2	dwufrontowy		RWGŁ		
20 ₱8₽0 5 ⊻24 17.231	dwie linie kordonów	Czas operacyjny 00:14	Broń gładkolufowa		15/35

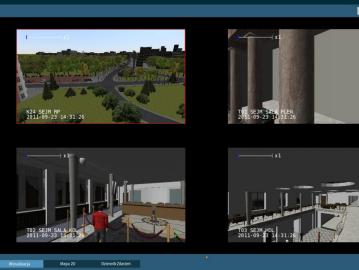


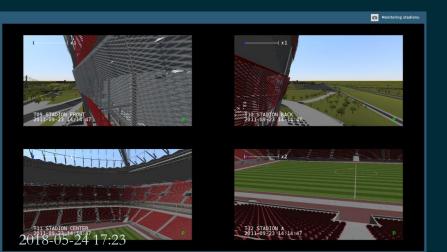


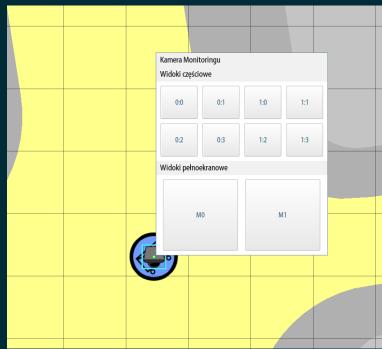




REAL INFORMATION SOURCES



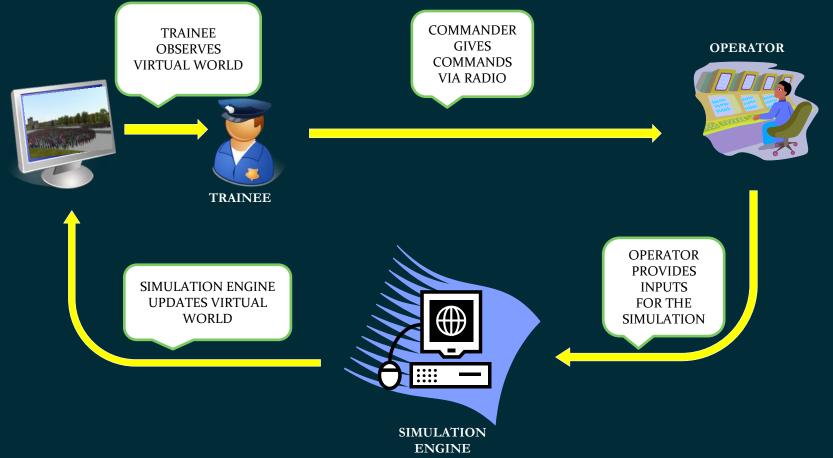




- CCTV - REAL LOCATION AND TERMINOLOGY



HOW DOES IT WORK?





HIGH QUALITY MODELS





HIGHLY DETAILED











ASSOCIATED SERVICES









INTERACTION MODELS









CITY DATABASE – CITY OF WARSAW

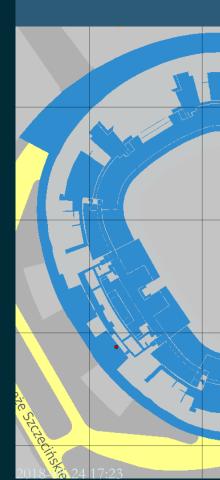


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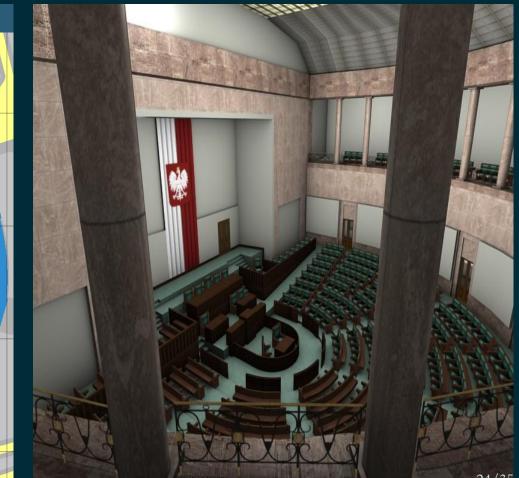


BUILDINGS INTERIOR

STADION NARODOWY



Parkingi: Poziom -4 Parkingi: Poziom -3 Murawa: Poziom -2 Pomieszcz. techniczne: Poziom -1 Restauracje: Poziom 0 Restauracje: Poziom 1 Biura: Poziom 2 Biura: Poziom 3 Dach Dokonaj zawalenia Odbuduj TŁUM Ustaw ściężkę ruchu ldź Teleport... Stop Grupa Odznacz wszystko Ustaw predkość poruszania się 🕨 Ustaw agresję Ustaw schemat kolorów Usuń zaznaczone KAMERA Znajdź kamerę Przesuń kamerę MONITORING Dodaj Kamerę Monitoringu





CHANGES OF ASTRONOMIC TIME









WEATHER CONDITIONS

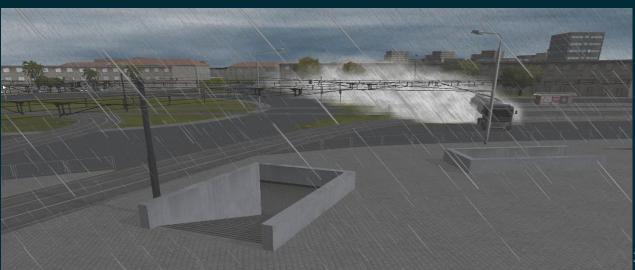














Conclusions

- Simulation based training is being widely used for the purpose of Police vocational training;
- Modern and attractive way of Police training;
- ✓ 'Low-cost' way of improving Police commanding skills;
- Variety of scenarios are implemented during the training that result in dynamic decision making process of commanding team;
- ✓ Actual improvement of Police officers skills with no "real responsibilty" that may cause any losess in people's life or healty or any property.



THANK YOU FOR YOUR ATTENTION!!!



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