

Transport / Convoying

	AVRORA	MuCAR	Smart Military Vehicles	Austrian Technology
<i>Mode of operation</i>	<i>cancelled</i>	<i>supervised</i>	<i>supervised</i>	<i>supervised</i>
<i>Best run</i>		2	2	3
Vehicle left start position		200	200	200
Intermediate waypoints reached		5600	4200	1400
Detection of OPI (i.e. position entry in the map)		800	800	0
Image of OPI (in the digital result data)		200	100	0
Image of OPI transmitted online to control station		0	0	0
% x of correct OPIs		66	80	0
Vehicle trajectory drawn in map		100	100	100
Live position and video transmitted to control station		100	100	100
Penalty for n manual interventions		0	-50	-500
Penalty for manual intervention duration t		0	-22	-222
Overall result		7066	5508	1078

Reconnoitring of Structures

	ELP	AVRORA	IMM	Cobham	bebot	Fraunhofer FKIE	Austrian Technology	TNO - NLD EODD	active ROBOTICX
<i>Mode of operation</i>	<i>teleoperated</i>	<i>withdrawn</i>	<i>autonomus</i>	<i>teleoperated</i>	<i>teleoperated</i>	<i>supervised</i>	<i>teleoperated</i>	<i>teleoperated</i>	<i>teleoperated</i>
<i>Best run</i>	2		1	2	2	2	2	2	2
Vehicle entered building	100		300	100	100	200	100	100	100
Map of area produced	0		750	0	375	500	375	0	250
Detection of OPI (i.e. position entry in the map)	0		0	300	0	0	200	300	0
Image of OPI (in the digital result data)	100		0	150	0	0	0	100	50
Image of OPI transmitted online to control station	300		0	300	0	0	200	300	100
% x of correct OPIs	0		0	50	0	0	50	50	50
Vehicle trajectory drawn in map	0		0	100	0	100	100	0	100
Live position and video transmitted to control station	100		0	100	100	100	100	100	100
Mission completed in time	500		0	500	0	0	0	500	0
Penalty for n manual interventions	0		0	0	0	-50	0	0	-100
Penalty for manual intervention duration t	0		0	0	0	-16	0	0	-133
<i>Bonus: Detection of radiological source (marked in map)</i>	750 *		0	1500	750	0	1500	1500	0
Overall result	1850		1050	3100	1325	834	2625	2950	517

Remark: *) Only half the points, because radiological sources were marked, but map was not correctly transmitted.

Transport / Mule – repeated shuttling between two camps

	AVRORA	bebot	ARTOR	MuCAR	Smart Military Vehicles	Austrian Technology	active ROBOTICX
<i>Mode of operation</i>	<i>Autonomous</i>	<i>Supervised</i>	<i>Autonomous</i>	<i>Supervised</i>	<i>Supervised</i>	<i>Supervised</i>	<i>Teleoperated</i>
<i>Best run</i>	<i>cancelled</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>2</i>	<i>1</i>
Vehicle left start position P1		200	300	200	200	200	100
Turning point P2 (i.e. end of teach-in) reached		200	300	200	200	200	0
Target points (P1/P2) reached (during shuttling)		300	1200	1500	1200	600	0
Detection of OPI (i.e. position entry in the map)		0	0	600	200	0	0
Image of OPI (in the digital result data)		0	0	200	100	0	0
Image of OPI transmitted online to control station		0	0	0	0	0	0
% x of correct OPIs		0	0	100	50	0	0
Live position and video transmitted to control station		100	0	100	100	100	100
Penalty for n manual interventions		-150	-175	-200	-350	-200	-200
Penalty for manual intervention duration t		-33	-33	-120	-185	-166	-83
Bonus: Human-guided teach-in		600	900	600	600	600	300
Bonus: New route found after change of environment		0	0	700	350	350	0
Bonus: Heavy payload carried		0	0	300	300	300	100
Overall result		1217	2492	4180	2765	1984	317

Search and Rescue (SAR) / MedEvac

	ELP	ELP Kobra	AVRORA	Cobham	bebot	Fraunhofer FKIE	Austrian Technology	active ROBOTICX
<i>Mode of operation</i>	<i>teleoperated</i>	<i>teleoperated</i>	<i>teleoperated</i>	<i>teleoperated</i>	<i>teleoperated</i>	<i>teleoperated</i>	<i>teleoperated</i>	<i>teleoperated</i>
<i>Best run</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>2</i>	<i>1</i>	<i>2</i>	<i>cancelled</i>	<i>cancelled</i>
Vehicle left start position	100	100	100	100	100	100		
Vehicle reached imitated body	200	200	200	200	100	200		
Picture of imitated body acquired	200	200	200	200	100	200		
GPS position of imitated body acquired	0	0	0	200	0	200		
Imitated body moved (score per body)	1700	2000	2000	2000	350	1000		
Live position and video transmitted to control station	100	100	100	100	100	100		
Mission completed in time	500	750	500	1000	0	0		
Penalty for n manual interventions	0	0	-400	0	0	-200		
Penalty for manual intervention duration t	0	0	-666	0	0	-33		
Overall result	2800	3350	2034 *	3800	750	1567 *	0 *	0 *

Remark: *) Team loaded / attached the dummy manually