

EUDEM Research Survey

EUDEM2 Questionnaire2 (Research Centers/University Labs/Governments (R&D))

PART I: Relationship with military/humanitarian demining. Problem knowledge.		DATE:
Organisation (name + web address) Military Academy in Brno, www.vabo.cz Contact Person (name + e-mail): Jiri Kacer, jerry@es.vabo.cz Ask a business card!		
Level of knowledge/understanding in military demining:	3	(1:none, 5: in depth)
Level of knowledge/understanding in humanitarian demining:	4	(1:none, 5: in depth)
No. of years involved in HD:	4	
Details (type of involvement):	theoretical knowledge and practical measures	
Main sources of information on humanitarian demining: O direct contacts with deminers, (1:little, 5: mostly used) 3 O field visits, (1:little, 5: mostly used) 1 O literature, (1:little, 5: mostly used), which literature source is used on a frequent basis 5 Journal: O Internet, (1:little, 5: mostly used), which site is used on a frequent basis 5 Web address: UN pages		
Frequency of field visits: 1: none; 2: sporadically (once a year) x 3: regularly (several times a year) Where: indicate geographical zones/countries: Libava, Vyskov Czech Rep.		
Frequency of contacts with deminers: 1: none; 2: sporadically (once a year) 3: regularly (several times a year) x Who (names + contact details): Mr. Keppert		
Knowledge of demining operations: (ex. SOPs (Standard Operating Procedures))	2	(1:none, 5: in depth)
Details:		
Knowledge of deminers' requirements: (ex. SORs (Statements Of Requests), "wish lists")	1	(1:none, 5: in depth)
Details:		
Financial Sources of your research activities (who is financing the research carried out): Faculty of Military Academy		
Would you like to know more on humanitarian demining (yes/no/yes and already planned): yes What and at which frequency: O ad hoc courses, O field visits; O weekly O monthly updates x		

Knowledge of the UXO problem (UneXploded Ordnance):	4	(1:none, 5: in depth)
UXO problem taken into account in your research: How has it been taken into account? (describe)	2	(1:no, 5: fully)
a small part of project		
Technologies studied (list which ones) :		
<input checked="" type="checkbox"/> GRP		x
<input checked="" type="checkbox"/> MD		x
<input checked="" type="checkbox"/> Combined multi sensor detection systems (details, which sensors)		MD, GPR, IR, Needle
<input checked="" type="checkbox"/> mechanical equipment		theoretically
<input checked="" type="checkbox"/> remotely operated detection systems		x
<input checked="" type="checkbox"/> remotely operated area reduction systems		
<input checked="" type="checkbox"/> chemical systems (eg. Biosensor)		
<input checked="" type="checkbox"/>		
Kind of research (applied or fundamental):		
<input type="checkbox"/> Short Term		
<input type="checkbox"/> Long Term:		x
In which application areas:		
<input type="checkbox"/> hand held		
<input type="checkbox"/> vehicle based		x
<input type="checkbox"/> air borne		
<input type="checkbox"/>		
Aimed at		
<input type="checkbox"/> AP		x
<input type="checkbox"/> AT		x
<input type="checkbox"/> UXO		
<input type="checkbox"/>		
Overlaps between technologies from other application domains (e.g. medical/geoscience): which ones and how?		
Research activities related to a specific country or area: (ex. Cambodia) Yugoslavia		
<u>PART II: Knowledge of other (R&D) activities, esp. EC.</u>		
Knowledge of ongoing EC R&D projects related to humanitarian demining:	1	(1:none, 5: in depth)
Knowledge of other R&D projects related to humanitarian demining:	4	(1:none, 5: in depth)
Details: Project Deminer – mechanical, human controlled machine for demining		
Would you like to know more on current research activities		
<input type="checkbox"/> yes		
<input type="checkbox"/> no		
<input type="checkbox"/> yes and already planned:		
What and at which frequency:		
<input type="checkbox"/> newsletter,		
<input type="checkbox"/> workshop,		
<input type="checkbox"/> conference,		
<input type="checkbox"/> e-mail;		x
<input type="checkbox"/> weekly updates		
<input type="checkbox"/> monthly updates		
Preference for “push” or “pull” technique:		
(ex. receiving possibly unsorted e-mail, or looking up oneself and selecting the information)		

PART III: Involvement in Product/System testing.

Have you already been involved in equipment testing: yes
(yes, ongoing, no)

Details:

MD and IR on military battlefield in Libava and Vyskov

Do you have own test facilities? (Yes/no) no

Which ones?

☐ sand box indoor

☐ sand box with environmental control facilities indoor

☐ sand box outdoors

☐ sand box with environmental control facilities outdoors

☐ dummy minefields in controlled conditions

☐ dummy minefields in less controlled conditions (eg. Croatia, Angola etc)

What kind of tests are performed?

and how?

☐ own test methods x

☐ ITEP proposed methods

☐ nationally indicated methods?

☐

☐

Is any further equipment testing planned:

(none; in the lab, under internal controlled conditions, under external controlled conditions, in the field)
in the field

Details:

Type of product/system at which you are aiming + indication of how (with which funding/partners):
system of data fusion from several physically different sensor

What is the state of maturity of your programme?

☐ Research. x

☐ Breadboard (preliminary assembly of hardware to prove feasibility of proposed system, without regard to packaging, reliability or, often, safety).

☐ Prototype. x

☐ Pre-Production.

☐ Production (if so what volume has been produced to date and what is the planned production rate per annum).

What further budget will you require to reach each stage? It is difficult to estimate at the moment

Have you used your: equipment / prototypes / research breadboards on test sites? NO

-

What test sites?

How many mines?

What type?

-

What performance statistics did you obtain?

What sample set size did you use?

-

What soil weather conditions did you use?

How did the operators perform?

What was their response / performance

Assuming budget availability, how soon could you personally carry out demining operations with your equipment? in days, weeks months years?

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Are you taking into account social studies:	NO
O socio-economic surveys	NO
O environmental factors/	NO
O physical limitations of the technologies/	YES
O operational scenarios:	YES
How:	
Do you disseminate the results?	
How?	
O Participation to conference	x
O Scientific Journals	
O other specialised publications	x
O JMU/MAIC?	
PART IV: General Comments:	
Comments on the EUEM2 initiative in general: Opportunity to find partners to co-operate Questionnaire: no remarks	
Comments on the concept of an Open, Detailed Web based Database/Information Center (ex. EUEM2): It is usefult and necessary for researcher to get recent (hot) information	
<u>For EC projects only: what exploitation plans exist and when will the first pre-production models be available for evaluation?</u>	
Comments on the way EC projects are financed, suggestions:	
<p><i>*Please send us a copy of your reference material together with the fully approved complete questionnaire by separate mail to the following address:</i></p> <p>Karin De Bruyn EUEM2 Survey Project Vrije Universiteit Brussels ETRO Dept., Fac. of Applied Sciences Pleinlaan 2 B-1050 Brussels, BELGIUM Fax: +322 6292883 or via mail kdebruyne@vub.ac.be</p>	