

A roadmap to bring appropriate  
and improved technologies into  
operational use :

*Definition of a test-case*

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informal expert group on mine action technologies*

Geneva June 22, 2004

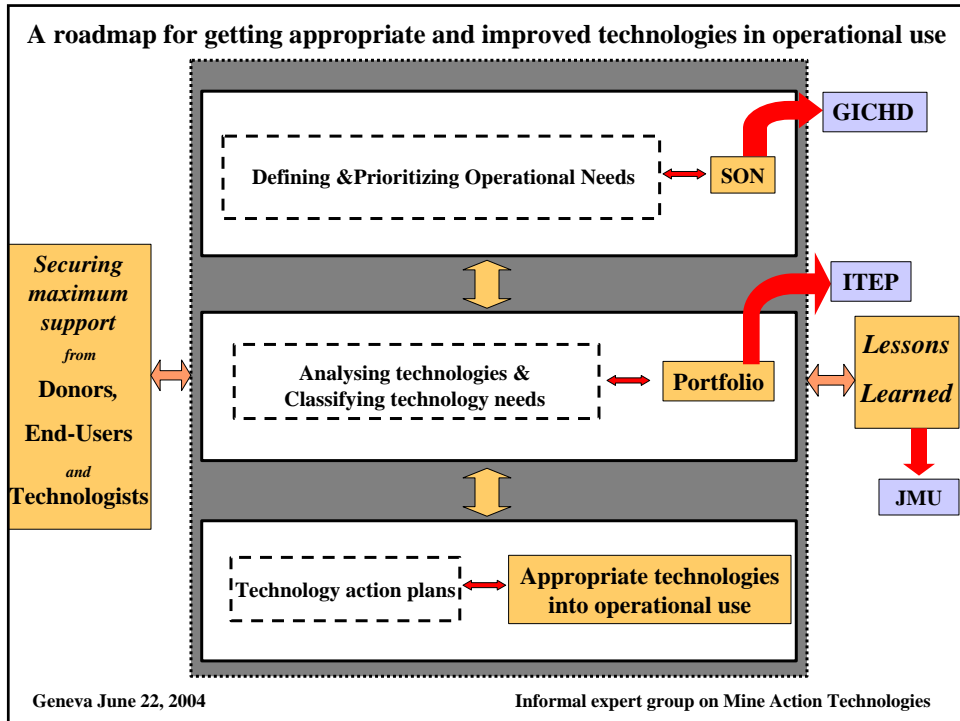
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**Aim of the roadmap**

*To bring as soon as possible appropriate mine  
action technologies into operational use, taking  
into account real needs of end-users, priorities and  
the state of maturity of technologies.*

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## How should technologies be applied?

- Increased application of existing technologies (mechanical test-case)
- Modification of operational procedures using combination of existing technologies
- Development of new technologies

### Why?

- To increase safety
- To increase productivity (more sq meters) and efficiency (less money)

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## Test-case definition

- To demonstrate the feasibility of the roadmap
- To convince mine action actors about the need of involving existing organisations (GICHD & ITEP) in the complete process of bringing appropriate mine action technologies into operational use
- To involve end-users in the complete process
- To demonstrate the efficiency of the roadmap

Selected test-case: *mechanical clearance equipment*

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## Croatian approach

Croatia is a good example of the *positive effect* that the use of appropriate technologies can have on Mine Action Operations:

- Currently CROMAC is using 42 demining machines as the first method of clearance in 80% of projects in Croatia.
- Typically the mechanical clearance is followed up by the use of Mine Detection Dogs as the second method of clearance.
- The Annual Clearance Capability in Croatia has increased from 10 sq km (2000) to 40 sq km (2004)
- The average cost of clearance per sq metre has been significantly reduced from 2.13 EUR (1998) to 0.9 EUR (2003)

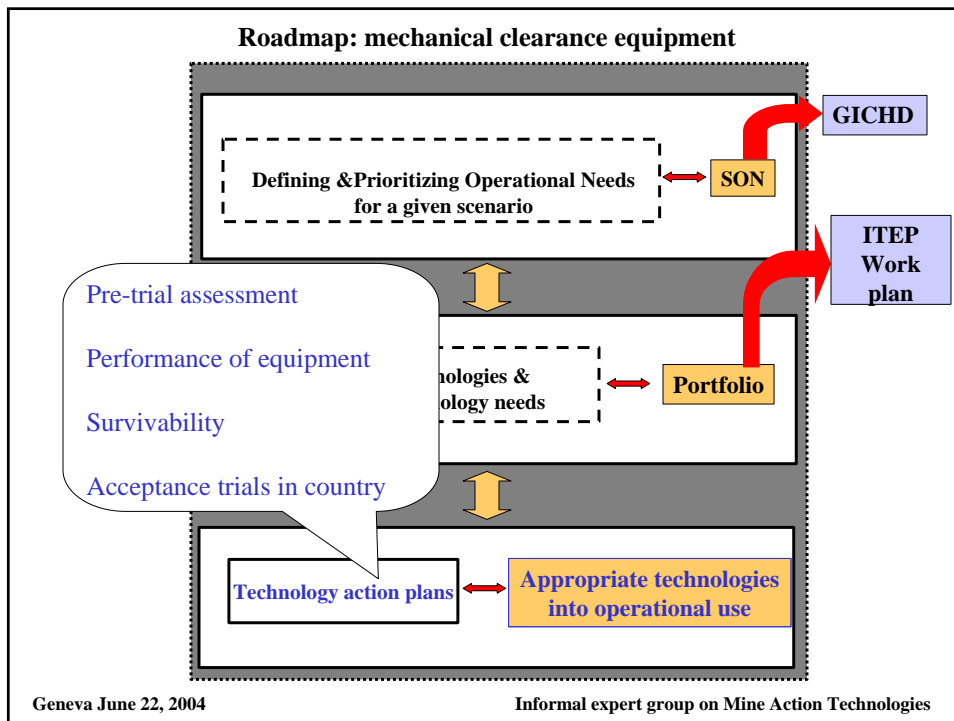
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# Technology action plan

- Standard based tests (CWA developed by technologists and end-users)
- Collaborative project and shared resources



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CWA	ARMTRAC75	BOZENA4	RM-KA02
Pre-trial assessment	<b>Failed in March</b> (returned to manufacturer for improvement)	<b>Passed in May</b>	<b>Passed in May</b>
Performance test	?	<b>September</b>	<b>October</b>
Survivability	?	<b>October</b>	<b>November</b>
Acceptance trials in country	<b>Cambodia (requested by UK MAG)</b>	<b>User request expected</b>	<b>User request expected</b>



Collaborating countries: CA, UK, SE, US

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## Summary

- Test-case results will be available at the 5MSP in NAIROBI
- Recommendations to donors:
  - To increase cost-efficiency by choosing appropriate technology (more sq metre at lower cost)
  - To improve sustainability by securing long-term capability of equipments (Training and maintenance)
- Recommendations to technologists
  - To continue to investigate existing technologies, combination of technologies and new technologies.
- Recommendations to end-users
  - To participate to the complete processes
  - To support and /or conduct in-country tests

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## Conclusions

- Technology has made significant progress in the field of mine action.
- Improvements in technology have been evolutionary in nature and new operational procedures have been developed.
- The challenges that remain to be solved are in the areas of close-in detection and area reduction.
- This could be achieved by using a combination of existing or improved technologies and by developing new technologies.

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Thank you to all members of the informal group of experts on mine action technology, and especially to end-users!

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