Croatian Mine Action Centre

CROATIA’S EFFORTS TO CLEAR MINED AREAS AND DESTROY OTHER EXPLOSIVE REMNANTS OF WAR

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The Tirana Workshop on Achieving Mine Free South Eastern Europe
Pristina, 7-9 October 2009

Year 1996, MSA=13 000 km²
Mine situation in Croatia 2009

- 103,000 mines
- 954 km² of mine suspected area

Achievements 1998-2008

- Invested 380,000,000 EUR in demining operations
- Destroyed more than 80,000 mines and 200,000 UXOs
- Mine hazardous area marked with 15,000 warning signs
Structure of mine problem

- Houses and yards: 1%  
- Infrastructure: 5%  
- Agricultural area: 11%  
- Forests and fire lines: 5%  
- Meadows and pastures: 1%  
- Macchia and karst: 1%  
- Other: 14%  
- Total: 57%

DIGITAL ORTOPHOTO map

- 15,000 warning signs
DEFINING MINE SUSPECTED AREA

Other data
Locations of mine incidents
Reconstructed minefield record
Locations of minefield records
Data from the military maps
Topographic map of the area

Priorities

SAFETY ISSUES
- Schools, hospitals, playgrounds
- Settlements
- Touristic destinations
- Safety area near factories
- All known minefields
- Areas near settlements
- Forests near settlements

SOCIO-ECONOMIC ISSUES
- Houses for reconstruction
- Agricultural land
- Infrastructural objects
- Parts of forests

ECOLOGY
- National parks
- Parks of nature
- Wild deposits
- Forests for special purposes
- Fire protection
Topographic and Cartographic Informational System Scheme in the Republic of Croatia

STOKIS — Official Topographic and Cartographic Information System
CROTIS — Croatian Topographic Information System
KIS — Cartographic Information System
TDB — Topographic Data Base
KDB — Kartographic Data Base
GRID terrain model DOP2 + MSA
3D of micro location
3D from another view
rotation of 3D
water level display
conture lines on 3D display
profile
different measurements

https://misportal.hcr.hr
FUNDING SOURCES
from 1998 – 2008

TREND OF DEMINING INVESTMENTS
BY SOURCES – State Budget, Public Companies, Donors
MINE VICTIMS
From 1998 until 10/2009 = 295 mine victims (109 killed)

MINE VICTIMS - DEMINERS
From 1998 until 10/2009 = 59 mine victims (23 killed)
Regional cooperation – scientific projects-seminars-symposiums

- ARC
- SMART
- MEDS-NOMADICS
- FIDO
- BIOSENS
- PELAN
- PROJECT - BEES
- CEN WG 125 WORKSHOPS
- TESTING OF METAL DETECTORS
- ITEP-PROJECTS
- SEE-MAC activities
- JOINT DEMINING PROJECTS - CROSSBORDER
- UNMAS-ITF-CROMAC-11th MEETING OF MAC DIRECTORS AND UN ADVISORS - LJUBLJANA - SIBENIK 2008

CROMAC - CTDT Ltd.

Founder – CROMAC
Financing: CROMAC, self-financing, donations
Basic activities – research and development in technical science
- testing of demining machines, mine detection dogs and metal-detectors and evaluation,
- business and management consulting,
- education
Scientific and expert support – CROMAC CTDT Scientific Council
DEMINING MACHINE TEST LINE
CEROVAC TEST SITE

Demining and Area Reduction

Demining km\(^2\)
Reduction km\(^2\)
General survey km\(^2\)
Management and organization

CLUSTER ASSEMBLY

Representatives of
- MINGORP
- MVPEI
- APIU

FOUNDERS (6)

CLUSTER BOARD OF AUDITORS

CLUSTER MANAGEMENT

MEMBERS

- Croatian Mine Action Center
- Croatian Mine Action Center – Center for Testing, Development and Training Ltd.
- DOK-ING Ltd.
- Šestan Busch Ltd.
- Đuro Đaković Special Vehicles inc.
- Borovo-Gumitrade Ltd.
- Regional Center for Underwater Demining
- Vallon Gmbh
- Geofoto Ltd.
- Istaživač Ltd.
The purpose of the Cluster:

Promotion of humanitarian demining as an exported commodity and launching demining related products and services in international market

Business field

- Humanitarian demining activities
- Market research and public opinion research
- Business and management consulting
- Promotion (advertising)
- Holding companies management activities
- Financial Mediation
- Organizing presentations, promotional activities, meetings, seminars and fairs
- Buying and selling goods
- Trading mediation in domestic and international markets
The Founders of the Cluster are:

Cluster as Associate Members

Thank You!
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