



Explosive Hazard Management for Safe Reconstruction

Crosstech SA provides specialised solutions to ensure safety and compliance for companies active in areas potentially contaminated with landmines and explosive remnants of war.



We ensure that your reconstruction efforts proceed safely and efficiently, without the threat of explosive hazards.



About Crosstech SA

Companies working in post-conflict environments face the challenge of operating in areas potentially contaminated by landmines, unexploded ordnance, or abandoned ammunition. With nearly three decades of mine action expertise, Crosstech SA offers risk analysis, explosive ordnance clearance, and tailored consulting to ensure your reconstruction projects proceed safely, efficiently, and responsibly.

YOUR PARTNER IN SAFE RECONSTRUCTION

Crosstech is the commercial subsidiary of <u>FSD</u> (<u>Fondation suisse de déminage</u>), a leading humanitarian mine action non-profit organisation based in Geneva, Switzerland. Since its creation in 1997, FSD has successfully implemented mine action projects in 30+ countries and currently employs over 1,000 experts worldwide.

By leveraging <u>FSD's expertise</u>, Crosstech provides high-quality risk management solutions tailored to businesses involved in post-conflict reconstruction and infrastructure projects. We offer a full range of mine action services, employing cutting-edge technologies such as detection dogs, drones, armoured machinery, and advanced ground preparation equipment.

WHY CHOOSE CROSSTECH?

- Decades of field-proven experience.
- Certified explosive ordnance disposal professionals.
- Compliance with international explosive safety, search, and demining standards.
- Cutting-edge technology and specialised equipment.

Contact us for an initial assessment of your situation.







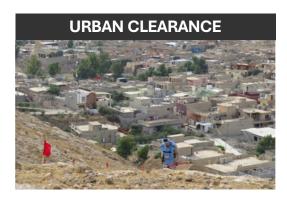
Our Services



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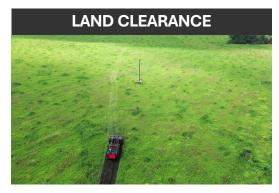
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Consultancy: Identifying Risks Before Operations Begin

If your company is looking to invest or operate in conflict-affected regions, unexploded ordnance and landmines can pose significant risks to your projects. Without comprehensive risk assessments, you could face delays, costly accidents, legal liabilities, and even loss of life. To safeguard your team and ensure project success, proactive risk identification and mitigation are essential.

OUR SOLUTION

At Crosstech, we specialise in assessing and mitigating explosive threats in post-conflict zones. Our consultancy services identify risks before operations start, enabling your team to safely execute projects while complying with safety regulations. With our expert guidance, companies can navigate high-risk environments with confidence.

CROSSTECH KEY SERVICES

- Risk Assessments for Construction and Development Projects

 We provide thorough site evaluations to identify the presence of landmines and unexploded or abandoned ammunition, helping businesses understand the risks before operations begin.
- Compliance Guidance with Local and International Safety Regulations
 Our team ensures your project complies with local regulations and international safety standards, minimising both legal and operational risks.
- Custom Risk Mitigation Strategies
 Crosstech offers tailored risk mitigation strategies for various industries, ensuring safe operations in conflict zones by addressing the unique challenges of each project.
- Feasibility Studies for Safe Project Implementation

 We conduct feasibility studies to evaluate the safest approach for project implementation, focusing on logistics, site preparation, and emergency response planning.



Crosstech, under the FSD Group umbrella, took part in the key international events on reconstruction in Ukraine. (Warsaw, 2023)



According to estimates, explosive ordnance may contaminate one third of Ukraine. (Ukraine, 2021)





Risk Assessment: Identifying Explosive Threats on the Ground

If you plan on working in areas that have been the scene of combat operations, assessing potential unexploded ordnance and landmine contamination is essential for protecting your team and ensuring your project's success. Without detailed surveys, you risk stumbling upon hidden threats that can lead to costly delays, accidents, and legal complications.

OUR SOLUTION

Crosstech offers expert survey services to identify and map explosive hazards in post-conflict zones. Our thorough and methodical survey process ensures that risks are accurately assessed and clearly documented, providing companies with the necessary data to plan their projects safely and effectively. We use the latest technology and methodologies to provide reliable results for informed decision-making.

CROSSTECH KEY SERVICES

Explosive Hazard Assessment Survey

The first step in our survey process involves collecting critical data through interviews, reviewing local records, and analysing available information to pinpoint areas that are potentially contaminated with explosive hazards. This helps identify suspected contaminated areas for further investigation.

Intrusive Survey

During this phase, specialised equipment and highly trained personnel physically access and examine suspected hazardous areas using digging and probing techniques to precisely locate explosive threats. This confirms the presence of hazardous materials and helps determine the necessary clearance scope.

Risk Mapping and Reporting

Based on survey findings, we create risk maps that highlight dangerous areas and safe zones, providing essential information for operational planning.

Geospatial Analysis and Data Integration

We integrate survey data with geospatial tools to provide a comprehensive and actionable overview of the situation, ensuring that all critical information is at your disposal for effective project planning.



Binoculars help identify potential hazards without direct exposure to danger. (Ukraine 2024)



This drone helps conduct surveys, aiding in the identification of hazardous areas. (Ukraine, 2024)





Urban and Infrastructure Clearance: Ensuring Safety in Built-Up Areas

In urban areas and around key infrastructures, the risks posed by landmines and explosive remnants of war can disrupt reconstruction efforts, delay projects, and pose serious risks to public safety. Clearing these hazards is crucial during infrastructure reconstruction to safeguard workers, residents, and future developments.

OUR SOLUTION

We provide comprehensive clearance in high-risk urban areas, including roads, residential, and industrial zones, to remove explosive threats and secure spaces for construction and everyday life. By combining expert explosive safety knowledge with specialised mechanical equipment, Crosstech offers efficient, safe, and minimal disruption operations. Our integrated approach ensures that clearance is not only effective but also accelerates the rebuilding process with cutting-edge technology and expertise.

CROSSTECH KEY SERVICES

Industrial and Commercial Site Clearance

We provide thorough clearance services for industrial zones, factories and commercial sites, ensuring that these areas are free from explosive remnants of war. Our specialised operations help mitigate risks in spaces critical to economic recovery, making them safe for production and future investment.

Searches in Buildings and High-Risk Structures

We conduct specialised searches in buildings and other critical infrastructure, such as utilities and communication towers. Our experts use advanced equipment and techniques to detect explosive remnants in complex environments, ensuring that vital structures remain safe for use and development.

Energy and Transport Infrastructure Protection

We safeguard critical energy infrastructure projects, including power plants, pipelines, electrical grids, and transport routes such as roads, railways, and ports, by removing unexploded ordnance and landmines from these vital areas. Our clearance services enable safe and uninterrupted service while facilitating the movement of resources essential for reconstruction and development.



Deminers use marking to guide themselves in potentially hazardous areas and to ensure the safety of communities while clearance is underway. (Ukraine, 2022)



Training equips deminers with the skills and knowledge needed to safely detect, identify, and clear all types of explosive ordnance. (Ukraine, 2023)





Rubble Removal: Clearing the Path for Safe Reconstruction

Rubble from destroyed buildings poses significant challenges for reconstruction, as it often conceals unexploded ordnance and/or landmines. These hidden threats, buried in debris or collapsed structures, are difficult to detect and require specialised expertise and equipment to clear them safely, ensuring the protection of workers and local communities.

OUR SOLUTION

Crosstech specialises in rubble clearance using specially adapted armoured construction machinery and remote-controlled devices. These machines allow us to safely and efficiently clear rubble in high-risk environments, addressing both visible and hidden threats. Our teams combine manual searches, mechanical equipment, and cutting-edge detection tools to thoroughly clear rubble in urban and rural settings, ensuring minimal disruption and maximum safety.

CROSSTECH KEY SERVICES

Debris Removal by Machine

Armoured construction machinery and remote-controlled devices are used to clear large debris. The machines are designed to safely handle rubble, and the operator is shielded in an armoured cabin to ensure their safety in the event of an explosion.

Laying Debris on a Flat Surface for Examination

Once the debris is cleared, it is laid out on a flat surface for systematic inspection. This step ensures that all rubble is carefully checked for any hidden explosives before further handling.

Detection and Removal of Explosive Remnants

Advanced metal detectors and manual search techniques are employed to identify any unexploded ordnance or landmines within the debris. Once detected, these explosive remnants are safely removed and disposed of, ensuring the area is secure for reconstruction.



Armoured construction engines are used to clear rubble from partially destroyed buildings. (Iraq, 2021)



After the safe removal of debris, deminers manually inspect the rubble to detect any potential hazards. (Iraq, 2021)





Agricultural Land Clearance: Restoring Safe and Productive Land

If you're a company looking to invest in agriculture in post-conflict areas, landmines and unexploded ordnance are real risks. They can endanger workers, harm equipment, and delay your projects. Clearing these hazards is key to protecting your investment and helping local communities get back to farming safely and sustainably.

OUR SOLUTION

Crosstech specialises in clearing agricultural land, ensuring that fields, orchards, and pastures are safe for cultivation. Using a combination of advanced detection methods and specialised machinery, we systematically remove explosive remnants while striving to minimise soil disturbance.

CROSSTECH KEY SERVICES

Mechanical Preparation and Surface Clearance

We deploy specialised armoured machines to process the land safely. These machines can disrupt the soil while ensuring the operator remains protected in case of an explosion. This step cuts high vegetation, softens the soil, and facilitates further inspection.

Detection and Identification of Explosive Hazards

The land is systematically scanned using metal detectors and other advanced detection tools. Depending on soil conditions, we apply manual or mechanical methods to locate buried unexploded ordnance and landmines without damaging the terrain.

Safe Removal and Verification

Once detected, explosive hazards are carefully removed and safely disposed of by trained specialists. After clearance, the land is verified to ensure it is free from threats, allowing farmers to return with confidence.



Specialised machines are used to prepare the ground, accelerating the work of deminers. (Ukraine, 2024)



Farmland clearance often combines manual and mechanical methods. (Ukraine, 2023)







Safety Training: Preparing Teams for Work in Potentially Hazardous Areas

Before deploying staff to regions affected by explosive ordnance, it is essential to ensure they understand the risks and know how to work safely. Crosstech provides specialised safety training for field workers, technical teams, and headquarters personnel who conduct assessment visits before launching new projects.

OUR SOLUTION

Our training equips participants with the necessary knowledge and skills to recognise explosive threats, adopt safe behaviours, and respond appropriately to hazardous environments. The programme is designed for professionals who may not have prior demining experience but need to operate safely in potentially contaminated areas.

CROSSTECH KEY SERVICES

Threat Awareness and Risk Assessment

We train participants to identify relevant explosive hazards in their location of deployment. The training covers risk assessment techniques for different environments—former battlefields, minefields, and areas with cluster munitions—helping teams evaluate potential dangers before starting field activities.

Safe Navigation and Operational Best Practices

Our training provides essential safety protocols for moving through hazardous terrain, recognising danger signs, and following designated safe routes. We ensure that teams understand how to minimise risk while conducting assessments or working near potentially dangerous areas.

Emergency Response and Incident Reporting

Participants learn how to react if they encounter explosive hazards, including immediate safety measures, marking and reporting procedures, and evacuation protocols. The training ensures teams are equipped to handle emergencies and coordinate effectively with clearance specialists.



We train participants to identify relevant explosive hazards in their location of deployment. (Ukraine, 2024)



Participants learn how to react if they encounter explosive hazards, including immediate safety measures. (Ukraine, 2023)



Is Your Reconstruction Project Safe from Explosive Hazards?

Contact us today to find out how we can support you: info@crosstech.cc





More information



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