



Inform . Advise . Assist

INNOVATIVE SOLUTIONS TO UNDERSTAND GLOBAL CONSEQUENCES OF EXPLOSIVE ORDNANCE



ABOUT

Founded by industry experts, Colin King and David Hewitson in 2011, Fenix Insight brings together many years' experience in mine action, explosive ordnance disposal (EOD) and quality, environmental and safety management systems. We inform, advise and assist our clients from the broadest, top-level policy making, down to the most intimate technical detail, using evidence-based decision making and ISO principles to underpin all of our operations.



- ✓ **Research & Advisory:** Our unique combination of hands-on experience, industry knowledge and data gathering skills allow Fenix to provide objective, evidence-based insights allowing you to make well-informed decisions for your organisation.
- ✓ **Consulting:** Use our unrivalled field experience and globally recognised ISO principles to reduce risk and deliver simple, effective solutions to complex issues around the world.
- ✓ **Training :** We develop and deliver bespoke training on a range of subjects, from specific munition breakdown procedures to full accident investigation courses and quality management principles. We can deliver training at your organisation's premises around the world, or at our on-site facility (with our exceptional ordnance collection) near Crawley, UK.
- ✓ **Reporting & Writing :** Fenix Insight has vast experience in drafting, editing and producing guides and reports, from detailed munition standard operating procedures (SOPs) through to strategic guides and International Mine Action Standards (IMAS).
- ✓ **Information Management :** Fenix develops and uses a range of tools designed to analyse, understand and present information to end users.
 - **Fenix Insight Online**, offers users access to Fenix's unique AI and Machine Learning-powered system, linking together global munition-related events with our powerful munitions database to give unprecedented insights into global conflict.
 - **Mineaction.net** is a free system that allows users to quickly identify, understand and demonstrate compliance with current and applicable IMAS.
- ✓ **Specialist Products :** We use our extensive collection of inert mines, cluster munitions and other recovered ordnance for training, production of new imagery and for the manufacture of highly accurate mine surrogates for use in research, development or detection training.





WHO WE WORK WITH



Fenix Insight work around the world, providing technical support and consultancy to governments, universities, NGOs, Mine Action groups and commercial organisations in conflict and post-conflict zones.



GICHD



ICRC



UNMAS



Foreign &
Commonwealth
Office



MAG

saves lives builds futures

JMU

**JAMES MADISON
UNIVERSITY.**



**KING'S
College
LONDON**

OSCE

**MANCHESTER
1824**

The University of Manchester



UNOPS



Team Fenix





STANDARDS



Fenix Insight has drafted many of the most significant recent changes to International Mine Action Standards (IMAS), both updating existing standards and writing them from scratch.

Team members have also been involved in outreach work associated with development of the different IMAS – particularly in relation to quality management in mine action, with regional training workshops in a number of countries over several years, most recently for the standard on risk management.

- ✓ Experience in drafting IMAS standards
- ✓ Experience in drafting and facilitating development of NMAS

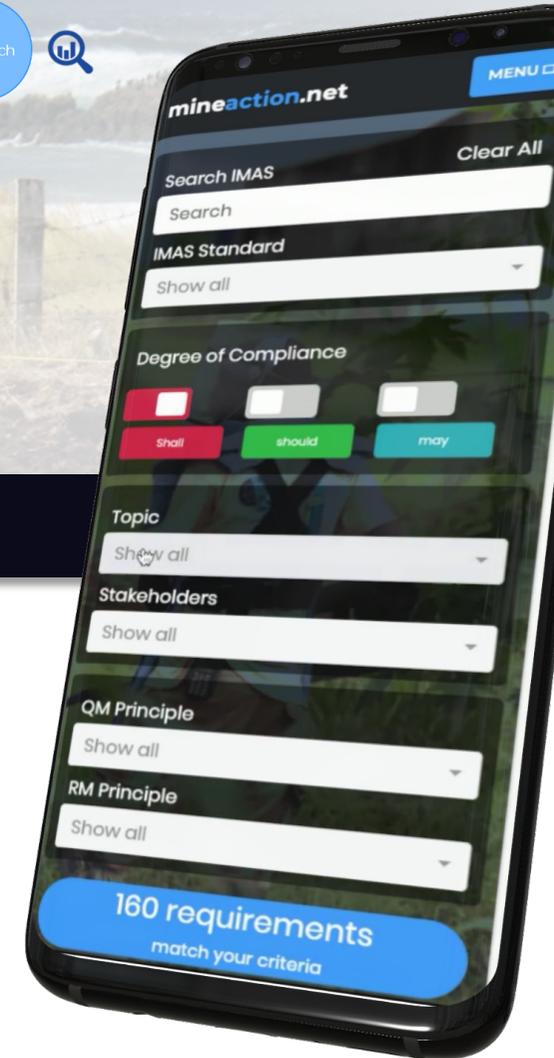
CASE STUDY:

IMAS DRAFTING

Working closely with the IMAS secretariat at GICHD, and the Chair of the IMAS Review Board from UNMAS, initial drafts are considered by the Review Board, sometimes on the basis of a presentation by the drafter, before adjustments are agreed and incorporated into final versions.

- IMAS 07.11 Land Release
- IMAS 07.12 Quality Management in Mine Action
- IMAS 07.14 Risk Management in Mine Action
- IMAS 07.40 Monitoring of Mine Action Organisations
- IMAS 08.10 Non-Technical Survey
- IMAS 08.20 Technical Survey





CASE STUDY: MINEACTION.NET

mineaction.net offers an unprecedented approach to navigating the International Mine Action Standards (IMAS). Designed to help authorities, operators and managers identify, understand and demonstrate compliance with current and applicable IMAS requirements, clarifying grey areas, improving management of liability issues and delivering greater confidence in the safety, quality and reliability of mine action operations.

- ✓ All current IMAS requirements, recommendations and guidance, presented in a simple online application
- ✓ Filter by activity, stakeholder level, degree of compliance (shall, should or may) to create a checklist of requirements that are most relevant to your organisation
- ✓ Currently expanding to cover further standards and guidelines for which best practice and self-assessment or monitoring against requirements are important
- ✓ Endorsed by National Mine Action Authorities, international NGOs and commercial operators, militaries, academics, researchers and donors.



STRATEGY



Fenix Insight are experienced in strategic planning and recognised industry leaders in Mine Action risk management. Fenix drafted the **GICHD** Guide to Strategic Planning in Mine Action, and have facilitated the development of National Mine Action Strategic Plans (NMASPs) and have provided dedicated monitoring, evaluation and risk management support to a number of other national programmes.

✓ **Strategic Planning, including:**

- ✓ National Mine Action Strategic Plans (NMASPs)
- ✓ Resource Mobilisation Strategies/Plans
- ✓ Prioritisation Processes
- ✓ Risk Management

✓ **Monitoring & Evaluation**

- ✓ Programme monitoring & evaluation
- ✓ Results-based Management

CASE STUDY:

- Drafted **GICHD** Guide to Strategic Planning in Mine Action;
- Facilitating current NMASPs in Afghanistan & Somalia;
- Central to development of the MORE (Management of Residual ERW) Framework, involving risk management at Strategic and operational levels.

STRATEGIC PLANNING





OPERATIONAL EFFICIENCY



Fenix have extensive experience in all aspects of Land Release Methodology, including monitoring and evaluation. Having drafted the Land Release IMAS, we are uniquely positioned to provide guidance and advice on the subject.

We maintain deep technical knowledge capability across all areas of explosive ordnance, including but not limited to landmines, cluster munitions, IEDs and underwater ordnance, which we use to underpin and inform our methodology development and project planning. Fenix are particularly experienced in developing innovative solutions for complex or unusual munitions.

✓ **Experience in Land Release Methodology, including:**

- ✓ Non-technical survey
- ✓ Technical survey
- ✓ Development of Land Release Methodologies
- ✓ Explosive Ordnance Disposal

✓ **Explosive Ordnance Clearance**

- ✓ Manual & Mechanical Systems
- ✓ Battle Area Clearance
- ✓ Underwater Operations
- ✓ IED Disposal

CASE STUDY:

DEMINING PROJECT OFFICE FALKLAND ISLANDS

Monitoring operational performance and progress in the mine clearance programme for the Government of the United Kingdom, Foreign & Commonwealth Office.

DETAILED CASE STUDY ON NEXT PAGE 





Programme oversight on behalf of the UK, Foreign & Commonwealth Office (FCO)

Fenix provided the Demining Project Office (DPO) for the Falkland Islands Mine Clearance Programme through all 5 phases of practical operations. In addition to provision of formal external quality monitoring services, the Fenix team also chaired the local Land Release Committee.

Fenix ran a detailed operational performance management database allowing the DPO manager to analyse performance, check the validity of future plans and identify trends and other performance features that influenced overall programme performance. The programme provided an opportunity for early implementation of approaches to non-technical and technical survey, as well as the use of machines to support efficient targeting of clearance operations.



CASE STUDY: DEMINING PROJECT OFFICE, FALKLAND ISLANDS



- ✓ Operational accreditation and monitoring of mine and UXO clearance operations
- ✓ Local political and public liaison
- ✓ Analysis and forecasting of task and programme duration
- ✓ Exploitation of recovered landmines and UXO Technical exploitation of landmines & grenades:
 - Focused on informing efficiency and optimisation
 - Investigating the effects of ageing on munitions



OPERATIONAL EFFICIENCY



Fenix develops and evaluates Standard Operating Procedures (SOPs) across the Humanitarian Mine Action (HMA) sector. We conduct technical exploitation of munitions and experimental trials to increase our understanding.

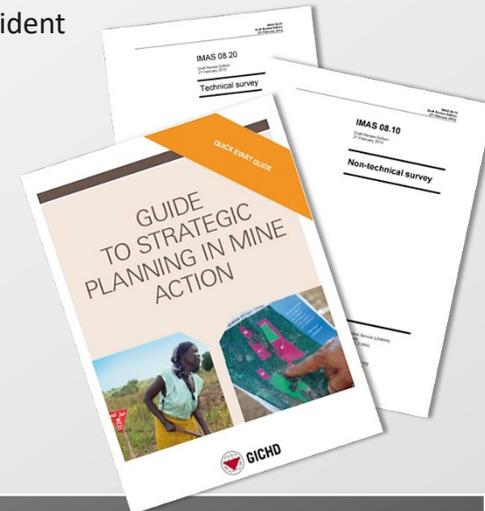
We provide training in all areas of explosive ordnance, including facilitation of sessions in risk management, accident investigation and full munition breakdown.

✓ Research, Studies, Publications Guidance

- ✓ Development of SOPs
- ✓ Operational Baseline assessments
- ✓ Country-level case studies
- ✓ Thematic case studies
- ✓ Technologies research, development & evaluation

✓ Training, Development & Delivery

- ✓ Development of training packages
- ✓ Delivery of training



CASE STUDY:

ACCIDENT INVESTIGATION COURSE, LEBANON

Fenix supported the delivery and development of a comprehensive training package on key aspects of accident/incident investigation on behalf of GICHD.

The two-week pilot course was hosted by the Regional Centre for Humanitarian Demining Lebanon (RCHDL). The course aims to challenge students to approach an accident investigation using principles of root cause analysis as well as focusing on scene management and evidence collection.





OPERATIONAL EFFICIENCY



As industry experts, Fenix Insight drafted the Quality Management IMAS and have vast experience in the management and monitoring of Mine Action programmes around the world. We have provided several specialist management, accreditation and/or monitoring capabilities to Mine Action and stockpile destruction programmes in countries including South Sudan, the Falkland Islands, Botswana and Vietnam.

✓ Management, Accreditation & Monitoring

- ✓ Accreditation processes
- ✓ Quality Management in Mine Action
- ✓ Environmental Management in Mine Action
- ✓ Accreditation of Mine Action organisations
- ✓ Monitoring of Mine Action organisations
- ✓ Monitoring of Stockpile destruction programmes

CASE STUDY:

THE EFFECTS OF AGEING ON MUNITION RISK, COLOMBIA

Fenix has worked with **GICHD** and Descontamina to increase understanding of the implications of ageing on the risks presented by improvised landmines and other ERW to affected populations and clearance operators.

Interventions include enhancements of information collection, reporting and analysis systems, as well as practical field tests and trials of energetic compositions found in improvised explosive devices (IEDs) in Colombia. Direct recovery and exploitation of improvised landmines is planned.





INFORMATION MANAGEMENT



Fenix champions the use of data and evidence to understand and inform decision making across all areas of Mine Action and Explosive Ordnance management. In particular Fenix has experience of developing and enabling training, monitoring and operational risk management through the use of technologically innovative IM solutions. We reflect the importance of Information Management in the drafting of all documents, reports and standards.

✓ Facilitation and collaboration

- ✓ Liaising and collaborating with humanitarian/development sector Information Management
- ✓ Facilitating inter-organisation Information Management workshops
- ✓ Designing and developing performance management databases in active mine action projects and programmes

CASE STUDY:

FENIX ONLINE

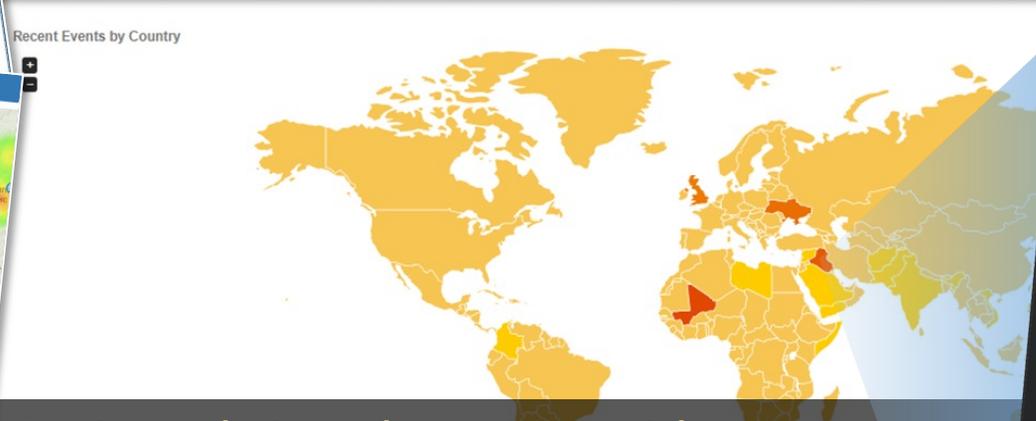
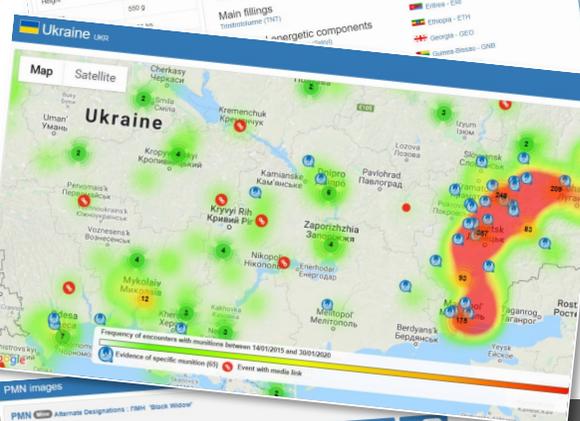
Our bespoke online database application, [Fenix Online](#), puts munitions data into social, political and geographic context.

We use the latest in AI technology to identify global trends in munition reporting, combined with the in-house expertise and technical knowledge of the Fenix Insight Team to deliver relevant, detailed information on specific munition or country threats to organisations and personnel.



PMN
Country of manufacture: Russian Federation
74 images available
74 images available
Related items
Specifications
Calibre / Diameter / WAD: 113 mm
Height: 56 mm
Weight: 500 g
Main fillings: Submunition (TNT)
Energetic components: (TNT)
Found in: Afghanistan - AFG, Angola - AGO, Argentina - ARG, Azerbaijan - AZE, Congo - COG, Egypt - EGY, Greece - GRC, Iraq - IRQ, Georgia - GEO, Russian Federation - RUS

4472 munitions 16166 images 68 conflicts 534 organisations 7228 Events
Search e.g. MK 84 or Iraq
Advanced Search



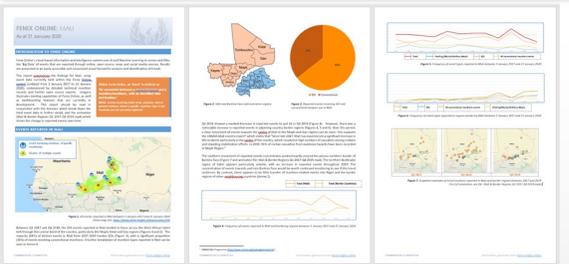
Fenix Online Admin Contact Us
Iraq IRQ
Map Satellite
Frequency of encounters with munitions between 01/08/2008 and 15/01/2020
Evidence of specific munition (6) Event with media link
Related Conflicts (6)
Munitions found in Iraq (628)
Munitions manufactured in Iraq (66)
Related Organisations (1)

Putting explosive ordnance into social, political and geographical context

Using the latest in Artificial Intelligence (AI) and Machine Learning (ML) to identify global trends in munition reporting, combined with the expertise and technical knowledge of the Fenix Insight Team to bring you the most relevant, detailed information on specific munitions or country threats to your organisation or personnel.



CASE STUDY: FENIX INSIGHT ONLINE



- ✓ Detailed technical specifications, images, diagrams, documents and contextual information for thousands of munitions
- ✓ Mapping for specific countries of interest to show activity hotspots for munition-related events that have been identified from open and social media sources
- ✓ Insights, analysis and reporting: slicing our data by specific keywords or text strings, presenting results in hundreds of ways to help identify trends and forecasts



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