

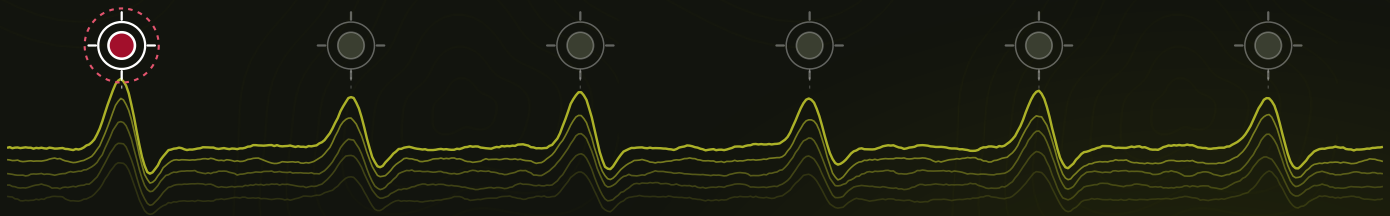


MAGNETIC ANOMALIES • VIEW BENEATH THE GROUND

UXOMAP • UXO AND GEOPHYSICAL SURVEYS

See beneath the ground before you build on it.

*UXO and geophysical surveys for engineering firms,
developers and network operators.*



01
DETECT
UXOMAP

02
CLEAR
DEMINETEC France

03
WORK SUBSEA
SEMTEC

04
TRAIN AND ADVISE
GEODE

05
REBUILD
DEMINETEC Ukraine

06
SECURE ENERGY
DEMINETEC Iraq

THE CHALLENGES WE ADDRESS

Risk cannot be seen. It can be measured.

■ BOREHOLE CLEARED AS DRILLING ADVANCES, ON A ROAD UNDER WORKS

Between 600 and 800 tonnes of munitions are still recovered from French soil every year. Before buying land, pricing a clearance or setting out foundations, one question needs a reliable answer: are there munitions, where, at what depth and of what type? We measure the subsurface and hand you a map of anomalies, ready for your studies.

YOUR CHALLENGE

OUR ANSWER

01 A risk flagged, but not located

The historical study concludes that there is a risk, without saying where or how deep.

→ **A geophysical survey** that locates each anomaly, estimates its depth and classifies it by probable munition family: the risk becomes data.

02 Large areas to cover

Dozens of hectares to survey before a permit, an acquisition or works.

→ **Towed multi-sensor systems and magnetometer drones**, continuously georeferenced by RTK GNSS, to cover large footprints quickly.

03 Depths out of reach

Beyond about 3 m, a measurement taken from the surface is no longer enough.

→ **Borehole detection**: a magnetometer probe lowered into the borehole or a CPT cone fitted with a magnetometer, down to the depth of your project.

04 Boreholes and foundations to secure

A core barrel, a pile or a sheet pile must never hit a munition.

→ **UXO clearance of boreholes**: surface check by GPR or magnetometer, then checks as drilling advances, in 2 m runs, down to final depth.

05 Results to feed your studies

A report that is hard to use or incompatible files slow your teams down.

→ **Deliverables ready for your tools**: georeferenced mapping, classified anomalies and recommendations, in DWG, DXF, SHP and GPKG formats.

UXOMAP IN FIGURES

+15 years

of geophysics applied to UXO risk

2014

first UXO surveys by drone

2

Matrice 300 RTK drones fitted with magnetometers

0-3 m

surveyed from the surface; deeper, by borehole

FROM FIELD SURVEY TO ANOMALY MAP

Measure, interpret, map: the subsurface becomes data.

Engineers, geophysicists, technicians and certified UXO clearance assistant operators run each survey, from the choice of method to the delivery of mapping your teams can use.

01 **Surface survey**

Towed or hand-carried multi-sensor magnetometry, from 0 to 3 m deep, on all types of sites.

03 **Borehole survey**

Magnetometer probe lowered into boreholes or instrumented CPT, to detect beyond 3 m.

05 **Marine and river survey**

Magnetometers, side-scan sonar, sub-bottom profiler and acoustic positioning, with SEMTEC.

07 **Processing and interpretation**

Processing chain developed in-house on QGIS: filtering, anomaly extraction, depth and classification.

02 **Drone survey**

Two DJI Matrice 300 RTK drones fitted with the MagDrone R4 magnetometer, with terrain following, thermal camera and lidar.

04 **Borehole and pile safety**

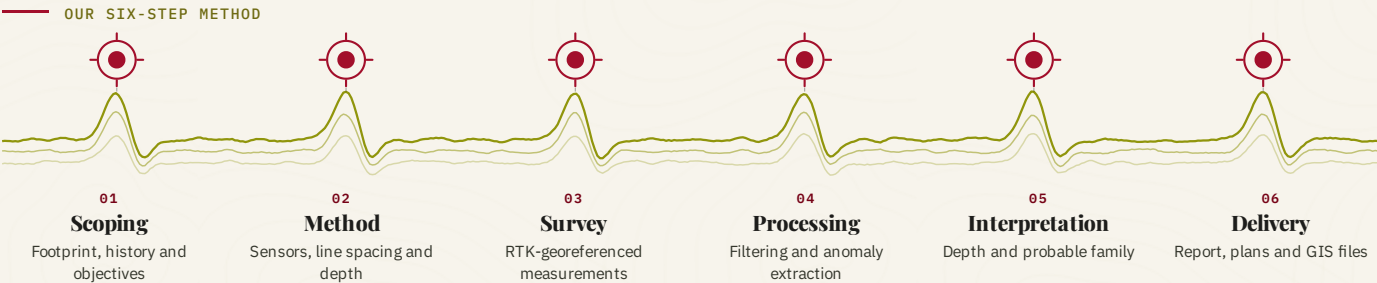
Boreholes, piles, sheet piles and diaphragm walls: surface check, then checks as work advances, in 2 m runs.

06 **Electromagnetic methods**

TDEM and GPR to map ferrous and non-ferrous objects, alone or combined with magnetometry.

08 **After the survey**

Characterisation of anomalies, then clearance with DEMINETEC France, within the same group.



SURVEY REFERENCE

A road corridor mapped in three days on site

For a département council in the Hauts-de-France region, we surveyed the additional footprint of a new road section: 7.6 ha covered with a fluxgate multi-sensor array, with centimetre-accurate GNSS positioning. Each anomaly was classified by probable munition, from the 250 kg bomb to the medium-calibre shell, so that the clearance could be priced accurately.

- Towed fluxgate multi-sensor array, sensors 50 cm apart
- Depth and mass estimated by analytic signal and Euler deconvolution
- Saturated areas delineated and delivered with the target list

7.6 ha

mapped in three days on site

2,586

isolated anomalies located and classified

3

probable munition families to price the clearance



OUR COMMITMENTS

Why choose UXOMAP

01

A team of geophysicists

Engineers, geophysicists and technicians, with certified UXO clearance assistant operators on every field survey.

02

The right method for every ground

Magnetometry, electromagnetics, GPR, borehole or drone: the method follows the terrain, the target depth and the munitions sought.

03

Accurate data you can use

RTK GNSS georeferenced mapping, anomalies classified by type and DWG, DXF, SHP or GPKG files ready for your studies.

04

A decision-making tool

The survey sizes the clearance precisely: no underestimated risk, no extra cost from excessive caution.

05

From measurement to clearance

Characterisation then clearance with DEMINETEC France, underwater works with SEMTEC: one group, from the map to site handover.

06

A certified approach

As an agency of DEMINETEC SAS, UXOMAP applies its management systems certified to ISO 9001, ISO 45001 and MASE, and its ISO 14001 environmental approach.

CERTIFICATIONS

ISO 9001:2015

ISO 14001:2015

ISO 45001:2018

MASE

OUR RESPONSIBILITY

Measuring before digging means avoiding unnecessary earthworks, protecting workers and returning every site to its users. As a founding member of SMDPYRO, the French trade association for UXO clearance, UXOMAP helps raise the standards of the profession.

CONTACT

A project on land at risk? *Ask for your UXO survey.*

Send us the site footprint, the depth of your works and your schedule: we will propose the right method and its cost.



REQUEST
A QUOTE
CONTACT · [DEMINETEC.COM](mailto:contact@uxomap.com)



WATCH A DRONE
SURVEY
VIDEO · [YOUTUBE](https://www.youtube.com/watch?v=...)

■ SIDE-SCAN SONAR READY FOR DEPLOYMENT ON A MARINE SURVEY

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