kiT-X™

Global Hazard Marking Solution

Bridging the gap between doctrine and reality

Not all capabilities begin in a lab

The kiT-X journey started in 2006 during an exercise in Germany. A newly qualified sapper, trained in advanced search, identified a critical gap: there was no standardised, modular marking system that could be easily carried, accessed, and deployed across real encounters. So he improvised.

Using personal resources, he developed a small, tactile, single-item marking solution, designed not for theory but for practical application - for pressure, terrain, and human behaviour. That same year, it was used operationally in Iraq and succeeded because it was grounded in reality.

ALFORD TECHNOLOGIES

www.explosives.net

+44 (0) 1249 651 111
kit-x@explosives.net

AN ORIGIN STORY

The journey began in 2006 during an exercise in Germany; the absence of a **carriable, standardised marking system** became impossible to ignore. Faced with uncertainty on real terrain, a young sapper improvises a tactile marker - not to innovate, but to **survive decision-making under pressure**. It was used operationally the same year.

Later Defence Engagement in Pakistan confirmed the **visual language could transcend terrain, culture, and doctrine**, supported by senior leadership

2006

PROOF OF CONCEPT

The battlespace had widened further. **Prevention became as important as response.** Drone emplaced hazards, physical hoaxes, influence means, and aerial contamination were added to the problem set.

Marking was no longer an afterthought, not when drone and UAV down systems could contaminate ground rapidly, not when influence switches shaped movement, not when unoccupied urban areas and rubble concealed threats in plain sight.

2013

RECOGNITION

Marking is no longer treated as a disposable technical task, but recognised for what it is: **a form of tactical communication that protects those who were not present at the moment of decision.**

While deployed on a UK Defence engagement task, a British Army Lieutenant Colonel first witnessed kiT-X in its original, soldier-improvised form and immediately recognised **its life-saving potential**.

2014

MARKING EVOLVES

Marking evolves into a modular, reusable, terrain-adaptive system.

What began as a single improvised marker evolves into a modular, terrain-adaptive system. Re-use, recovery, and interoperability emerge not as design trends, but as necessities shaped by fatigue, resupply limits, and long-term ground use.

2018

A PIECE OF THE PUZZLE

The Russian invasion of Ukraine made the second truth unavoidable.

In 2022, a fact became undeniable: **marking alone was not enough.** The pairing of **tangible marking with culturally transferable threat assessment** would prove essential. Where organisations operated side by side, markers without shared understanding risked becoming noise or misinterpretation. Marking without assessment was incomplete.**gO-Ci© became inseparable from kiT-X.**

2022

FROM PROOF TO PRODUCT

Design hardens around truth. Shape, colour, elevation, stability, and interoperability are engineered to remain readable as terrain degrades, weather changes, and markers are displaced. Theory evolves into behaviour-driven design.

With manufacturing support, kiT-X evolves from operationally proven logic into a standardised, scalable ecosystem, ensuring that the valuable lessons learned are not lost. Complexity is resisted; interoperability is maintained.

2024

KIT-X MARKING SYSTEM

In 2025, the leadership of **Alford Technologies** championed the kiT-X founders' proven concept, helping propel it from operational insight to a market-ready product.

By uniting the founders' vision with Alford's technical expertise and manufacturing capability, they delivered a solution that is **simple to use yet complex by design**.

A soldier-driven innovation transformed into scalable, forward-thinking production at its best.

TODAY

+44 (0) 1249 651 111 www.explosives.net kit-x@explosives.net