SafeVita

Keeping you safe from CBRN-hazards around the clock

CONTENT

WHO *WE ARE* — ABOUT BRUHN NEWTECH

WHERE *WE OPERATE* — CBRN

WHAT *WE DO* — SAFEVITA

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LIFE SAVING SOFTWARE SOLUTIONS

BRUHN NEWTECH

LIFE SAVING SOFTWARE SOLUTIONS

WORLD'S LEADING PROVIDER IN CHEMICAL, BIOLOGICAL, RADIOLOGICAL AND NUCLEAR (CBRN) KNOWLEDGE MANAGEMENT SOFTWARE

PROVEN ON THE FRONTLINE

Our software solutions always keep an open eye on invisible and airborne threats

- Solutions cover +80% of NATO forces
- 30+ years of experience with CBRN
- Proven critical value in conflict zones
- Making cities smarter and safer
- Help saving lives
- Keeping citizens safe & bringing military home

ADDRESSING THREE CRITICAL SEGMENTS

🛡 DEFENCE   🏛 PUBLIC SAFETY & PRIVATE SECTOR   ✋ HUMANITARIAN

CLIENTS WORLDWIDE
IN MORE THAN 30 COUNTRIES

SCANDINAVIA
NORTH AMERICA
EASTERN & WESTERN EUROPE
MIDDLE EAST
JAPAN & SOUTH KOREA
SOUTH EAST ASIA
AFRICA
AUSTRALIA
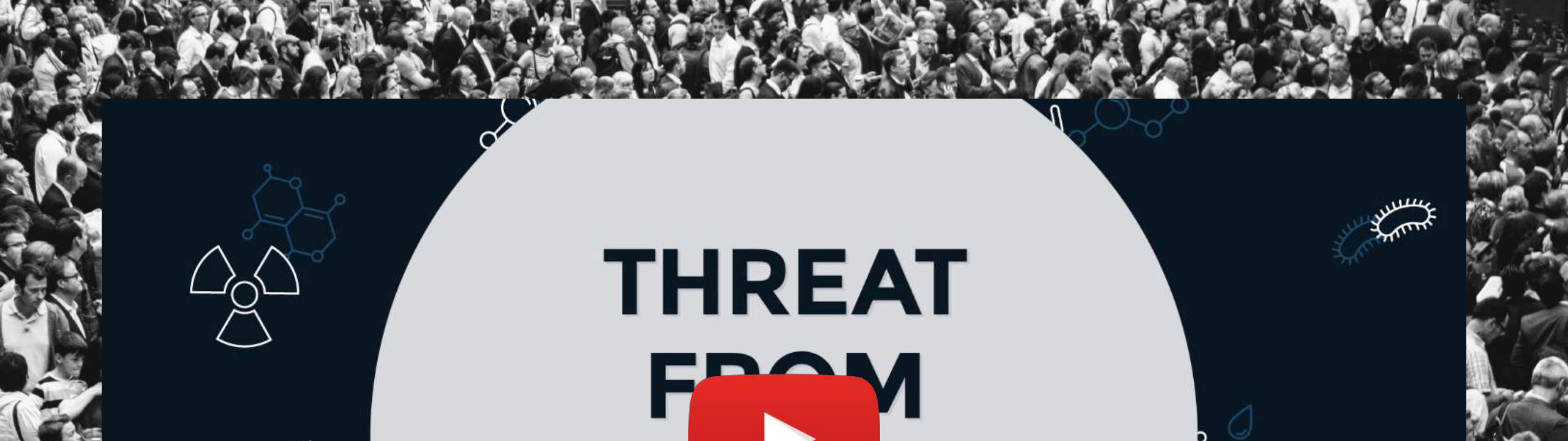
WITH 360° SOFTWARE

- CBRN Software
- Integration and API
- Training & Facilitation
- Support & Maintenance

AWARDED BY NATO & EU

- Awarded participation to NATO CBRN Knowledge Management Panel in 2001
- Awarded European Defence Fund projects (EDIDP-2021 and EDF-2022)

USED BY CLIENTS WORLDWIDE

NATO-OTAN   UNITED NATIONS   AIRBUS

Ministry of Defence   IBM   Australian Government Department of Defence   MINISTERO DELL'INTERNO

THALES   SWEDISH ARMED FORCES   leidos

WHY DO WE EXIST?

Bruhn NewTech exists to increase the number of people **protected** from airborne threats.

One human life at a time.

7 7 3 9 1

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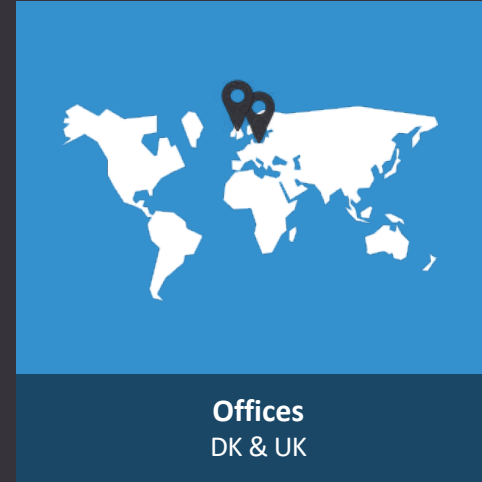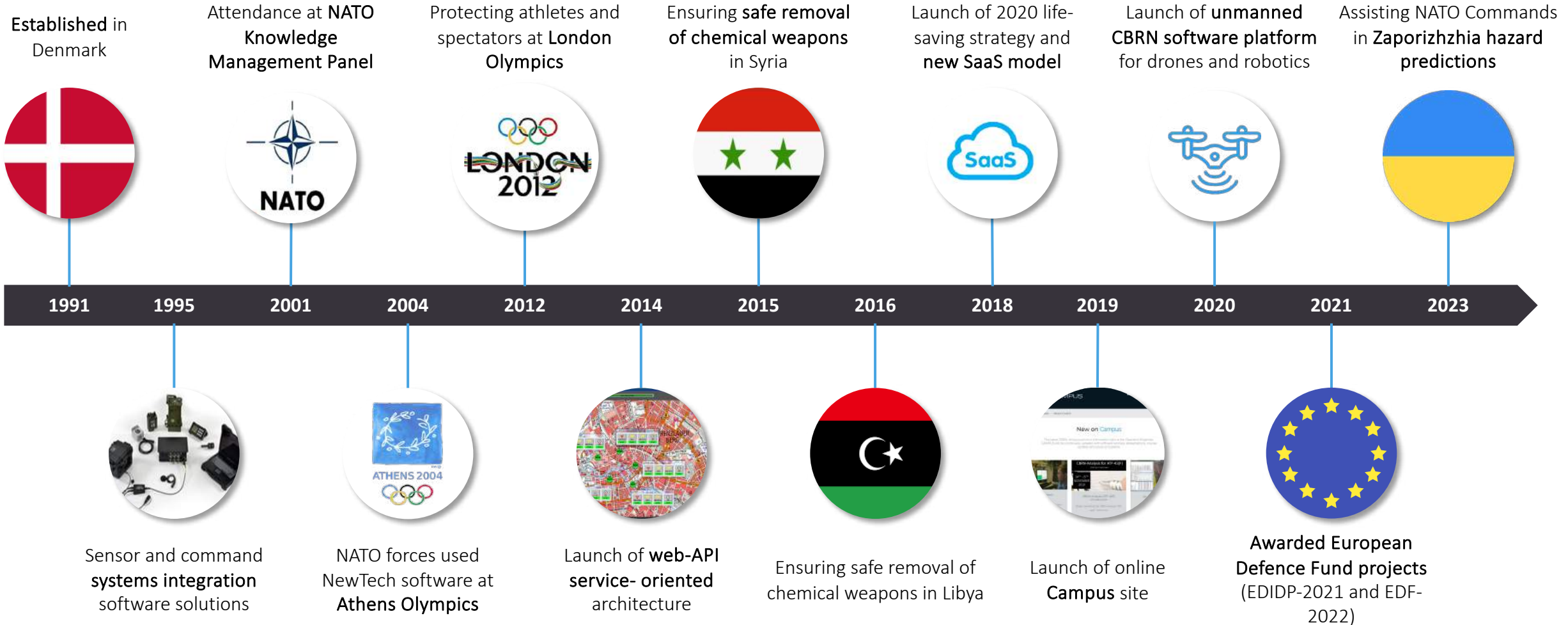LIFE SAVING SOFTWARE SOLUTIONS

OUR
MANAGEMENT

Combined more than **50 years of experience** in software development and digital transformation.

Commercialised and **awarded innovations** in the public safety and defence market.

Educational Master levels - Law, Economics, Business Administration, Computer Science.

Kristoffer Basse
Chairman

Offices
DK & UK

Lars Bjørn Jensen
Board member

Erik Juel Ellinghaus
CEO

Erik Bakke
CTO

Henning Christensen van Brussel
COO

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MILESTONES FROM MORE THAN **25 YEARS** OF SPECIALISATION

Established in Denmark

Attendance at NATO Knowledge Management Panel

Protecting athletes and spectators at **London Olympics**

Ensuring **safe removal of chemical weapons** in Syria

Launch of 2020 life-saving strategy and **new SaaS model**

Launch of **unmanned CBRN software platform** for drones and robotics

Assisting NATO Commands in Zaporizhzhia hazard predictions

1991   **1995**   **2001**   **2004**   **2012**   **2014**   **2015**   **2016**   **2018**   **2019**   **2020**   **2021**   **2023**

Sensor and command **systems integration** software solutions

NATO forces used NewTech software at **Athens Olympics**

Launch of **web-API service- oriented** architecture

Ensuring safe removal of chemical weapons in Libya

Launch of online **Campus** site

Awarded European Defence Fund projects (EDIDP-2021 and EDF-2022)

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WE PROTECT AGAINST HAZARDS FROM

Chemical

Toxic industrial materials

Chemical warfare agents

Biological

Biological agents
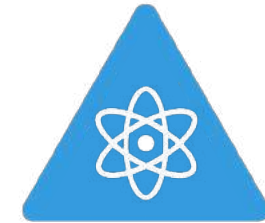such as anthrax

Terrorist-produced toxins
such as ricin

Radiological

Radiologically exposed
sources, e.g. from medical
facilities

Dirty bombs

Releases from
nuclear power plants

Nuclear

Nuclear weapons

WHERE WE OPERATE

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OVERVIEW OF SAFEVITA

The threat from Chemical, Biological, Radiological and Nuclear (CBRN) incidents is moving **from military battlefields into urban areas**. Human, societal and financial impact would be devastating and the invisible and widely dispersed hazards extremely difficult to neutralize once airborne.

We have developed our SafeVita solution as a fully automated CBRN management tool that **guides security officers and first responders** through every step of understanding and managing CBRN risks as well as preventing mass casualties.
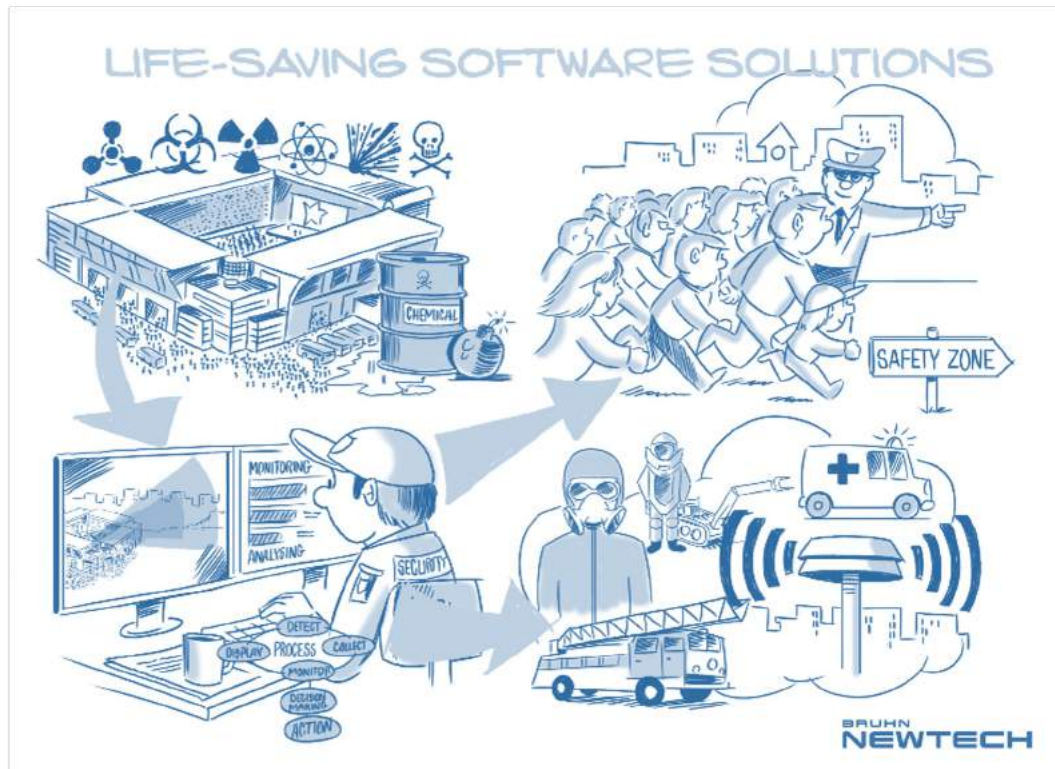
SafeVita Solution

- Response plans (evacuation / rescue) defined in 30 seconds after hazard alert.

- Response system integrated with HVAC / fire systems to contain invisible threats.

- Interoperable by design, supporting 50+ sensors from 20+ global manufactures.

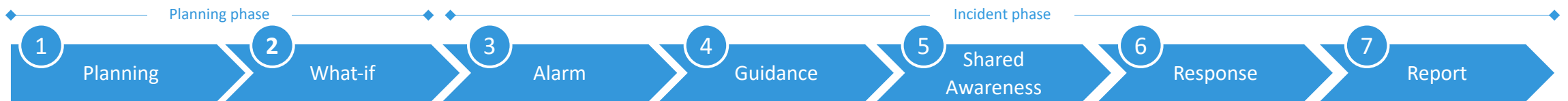- Highly-robust military-grade assets ported to be used by and protect civilians.

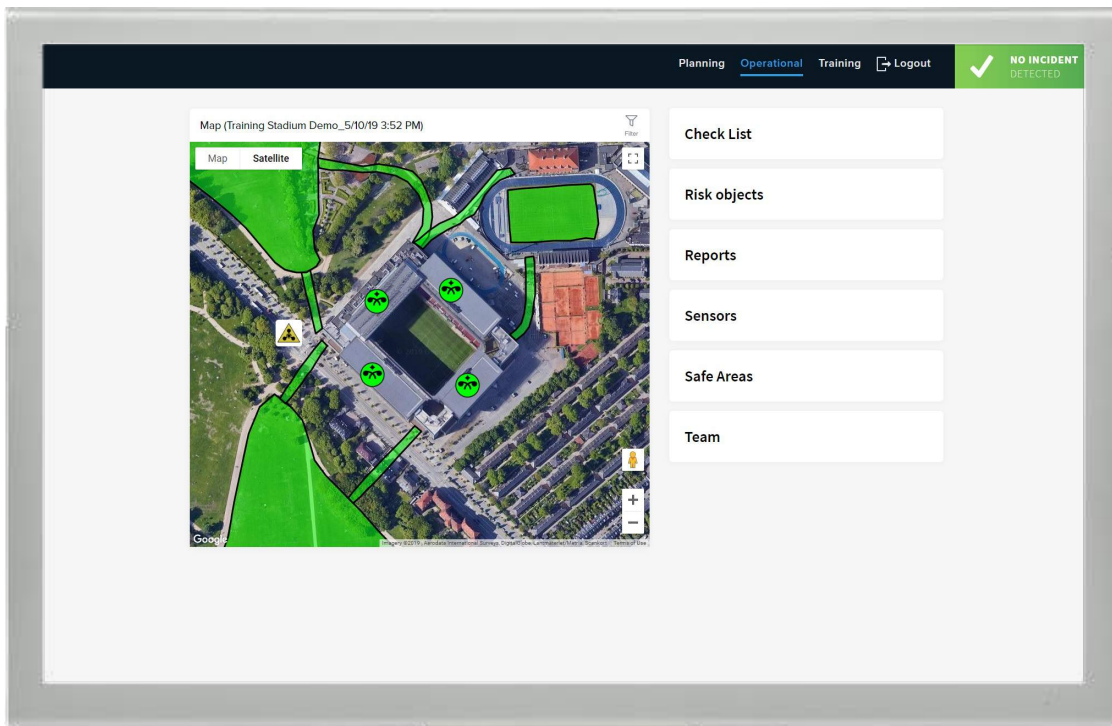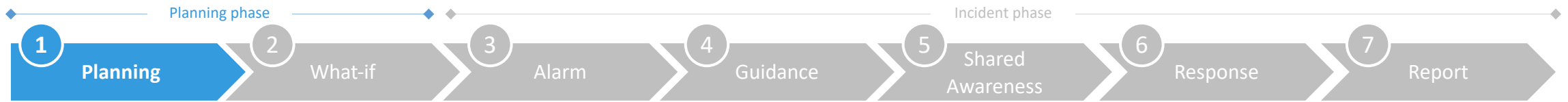- Joint detection & indoor prediction models to update plans in real-time.

- Public emergency services auto-notified on the specificity of the CBRN threat.

SafeVita Timeline

Planning phase

Incident phase

1 Planning

2 What-if

3 Alarm

4 Guidance

5 Shared Awareness

6 Response

7 Report

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Incident Management in real time

1 **Planning** · 2 What-if · 3 Alarm · 4 Guidance · 5 Shared Awareness · 6 Response · 7 Report

Map (Training Stadium Demo_5/10/19 3:52 PM)

Planning · Operational · Training · Logout · ✓ NO INCIDENT DETECTED

Check List

Risk objects

Reports

Sensors

Safe Areas

Team
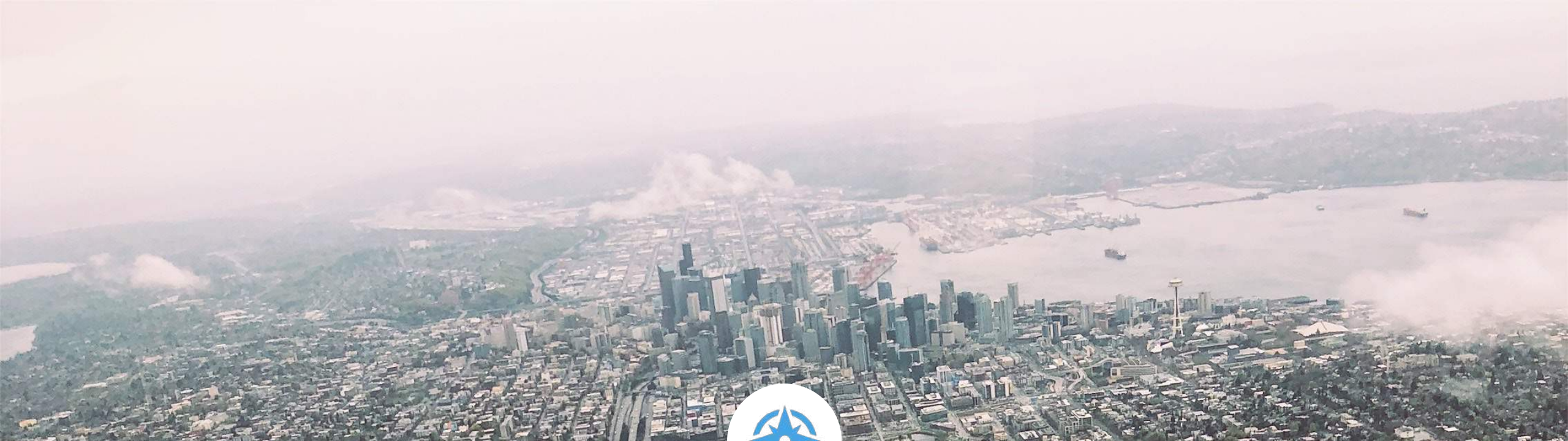
Prior to deploying SafeVita, a site survey has established fixed sensor placements and response plans. The map shows the location of:

Fixed and mobile P-sensors and their status

Evacuation routes and planned safe areas

Pre-planned potential risks

Based on this picture, personnel can monitor the current situation.

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Incident Management in real time

Planning phase   Incident phase

| 1	2	3	4	5	6	7
Planning	What-if	Alarm	Guidance	Shared Awareness	Response	Report
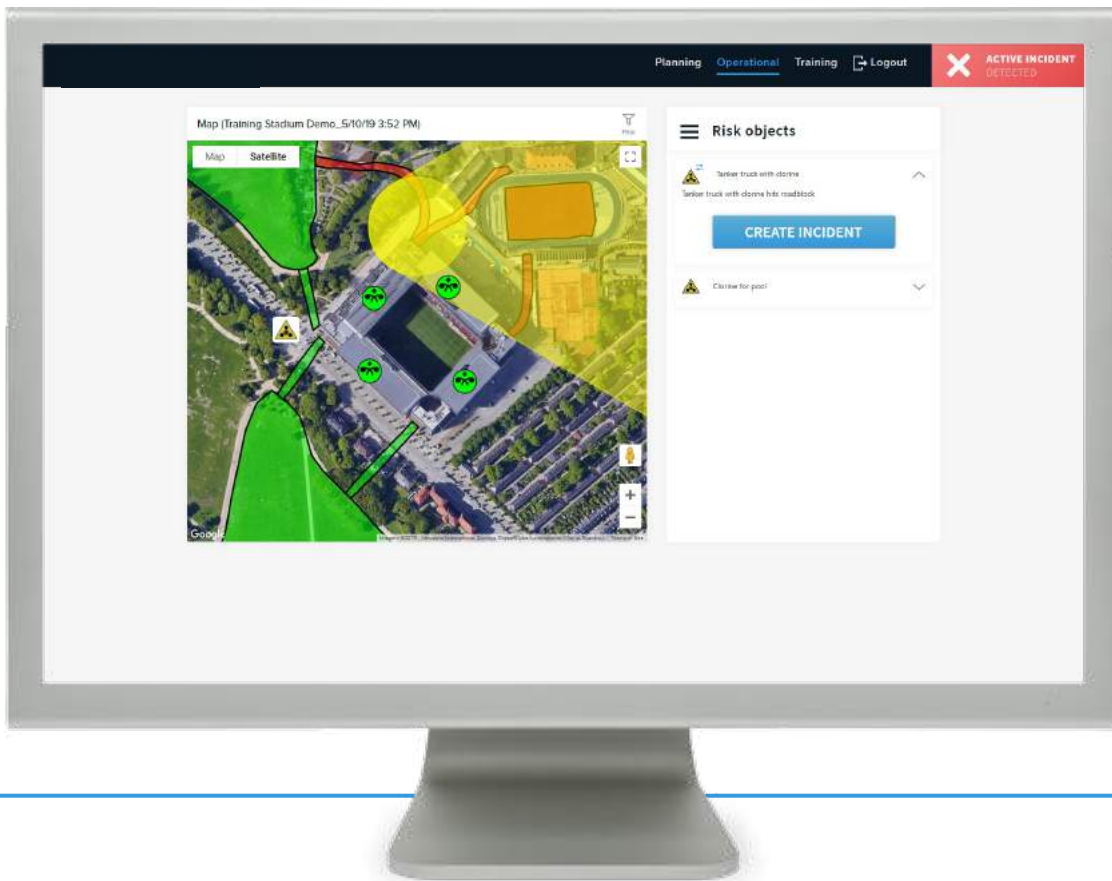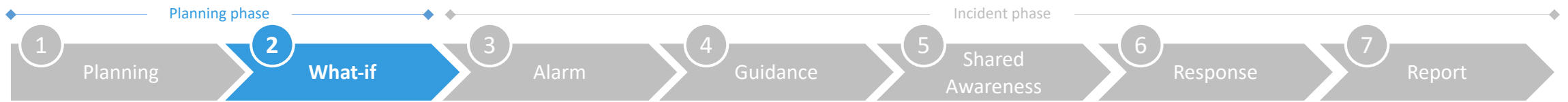
Any pre-planned risks can be evaluated by creating a what-if analysis to see the potential hazard if an incident should occur.

Hazard areas can be based on current or forecast weather and the resulting evacuation plans can be determined.
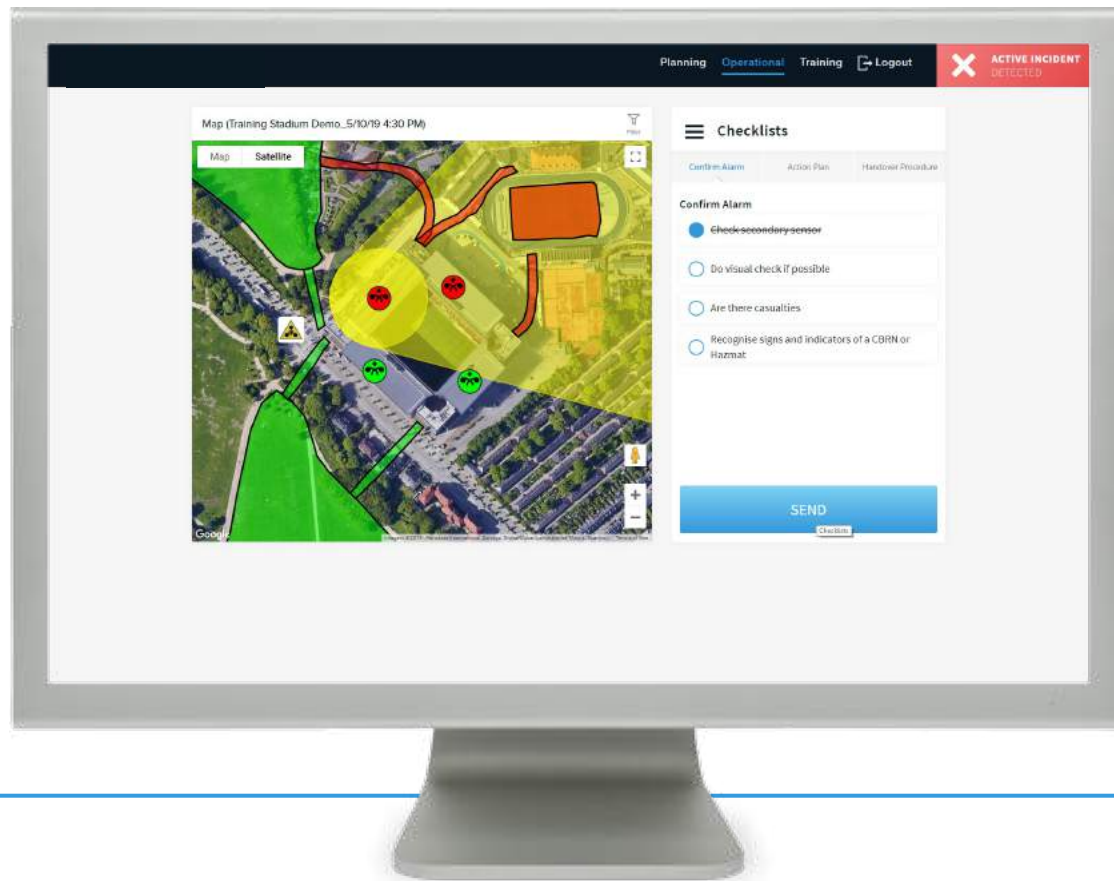
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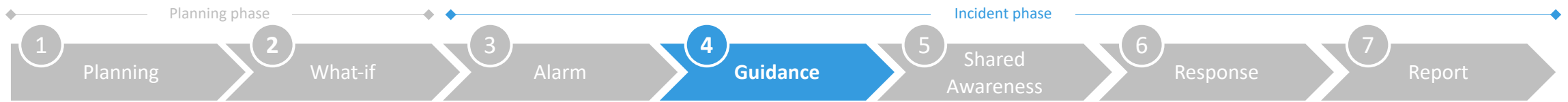
Incident Management in real time
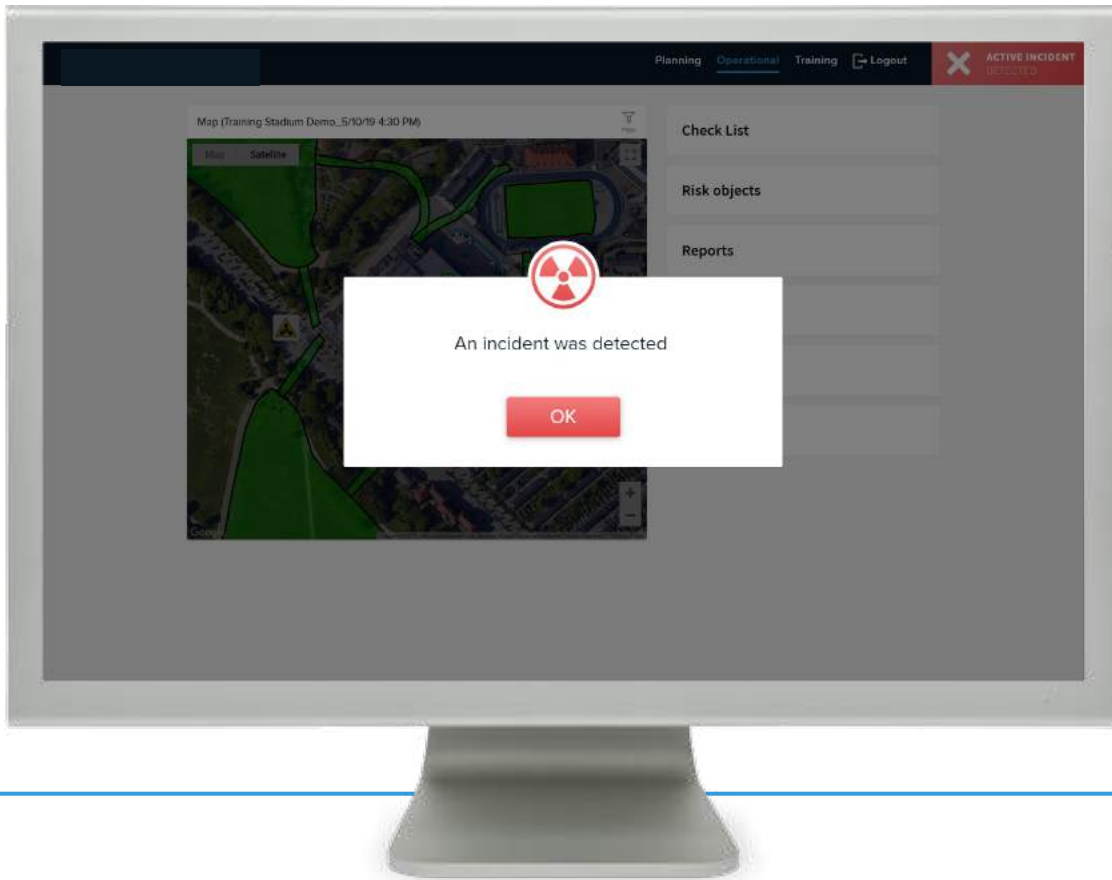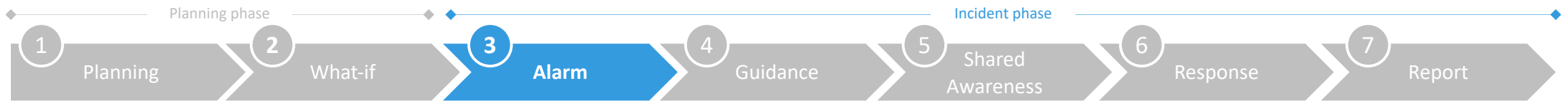
A sensor has detected a dangerous airborne substance

In the control room: The security guard hears an alarm on the selected speaker/headphones in control room
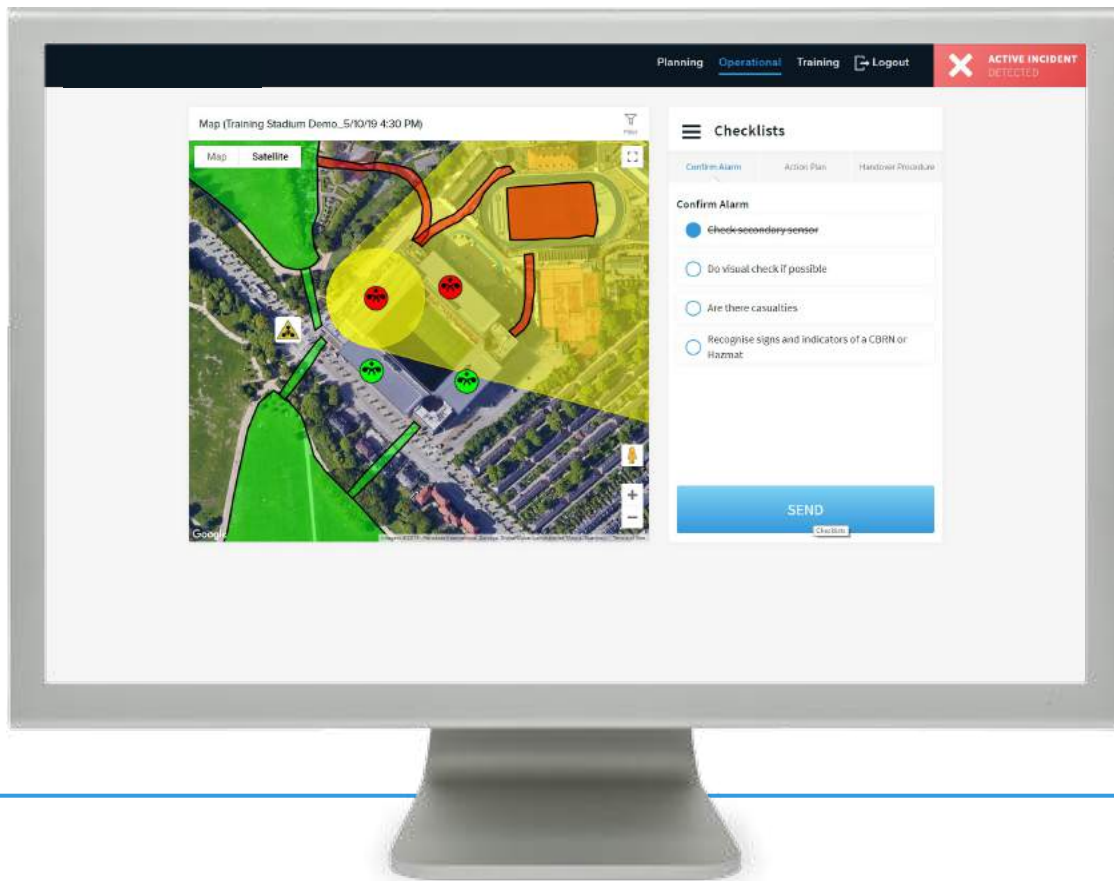
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Incident Management in real time

1 Planning | 2 What-if | 3 Alarm | **4 Guidance** | 5 Shared Awareness | 6 Response | 7 Report
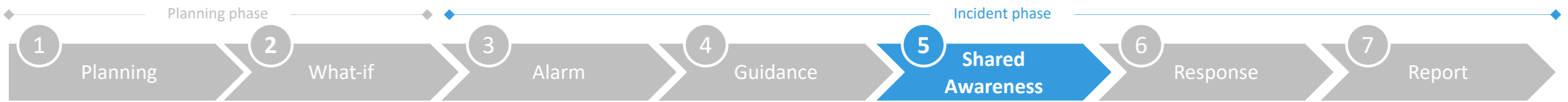

SafeVita provides an **immediate visual overview** of the situation and the direction towards which the hazard is moving.

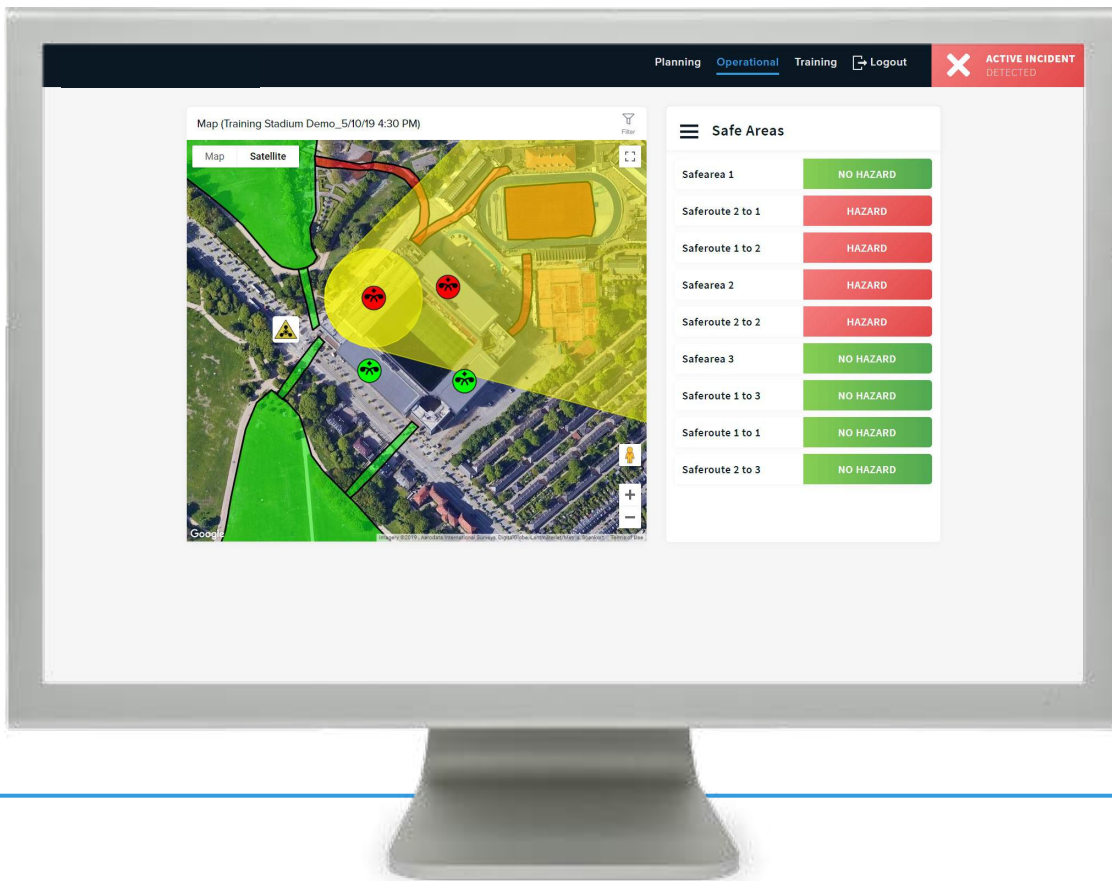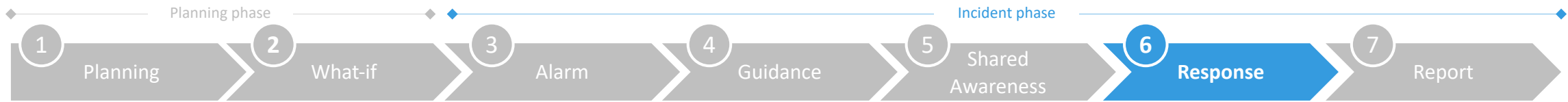The relevant **Checklist** is shown to guide response following pre-defined plans.

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Incident Management in real time

1 Planning   **2** What-if   **3** Alarm   **4** Guidance   **5** Shared Awareness   **6** Response   **7** Report

On-site: Security personnel on ground can **assess the real on-going situation** and share status by **checking items on their app**. As actions are ticked off by control room staff or deployed teams this is instantly visible to all.

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Incident Management in real time

1 Planning | 2 What-if | 3 Alarm | 4 Guidance | 5 Shared Awareness | 6 **Response** | 7 Report

Map (Training Stadium Demo_5/10/19 4:30 PM)

Map | Satellite

Safe Areas

Safearea 1	NO HAZARD
Saferoute 2 to 1	HAZARD
Saferoute 1 to 2	HAZARD
Safearea 2	HAZARD
Saferoute 2 to 2	HAZARD
Safearea 3	NO HAZARD
Saferoute 1 to 3	NO HAZARD
Saferoute 1 to 1	NO HAZARD
Saferoute 2 to 3	NO HAZARD

Planning   Operational   Training   Logout   **ACTIVE INCIDENT** DETECTED
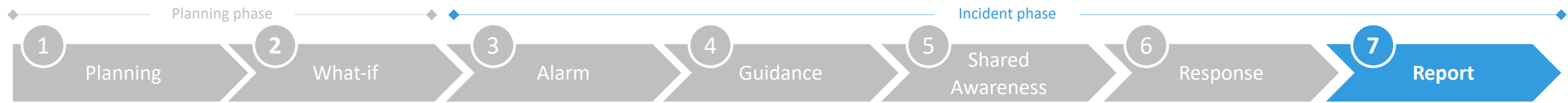
The situation is clearly displayed and the sensors that detected a threat are now in red.

Hazard areas (yellow) and routes (red) that are in danger are clearly visible

The feature **Safe Areas** provides an intuitive list of safe areas and evacuation routes

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Incident Management in real time
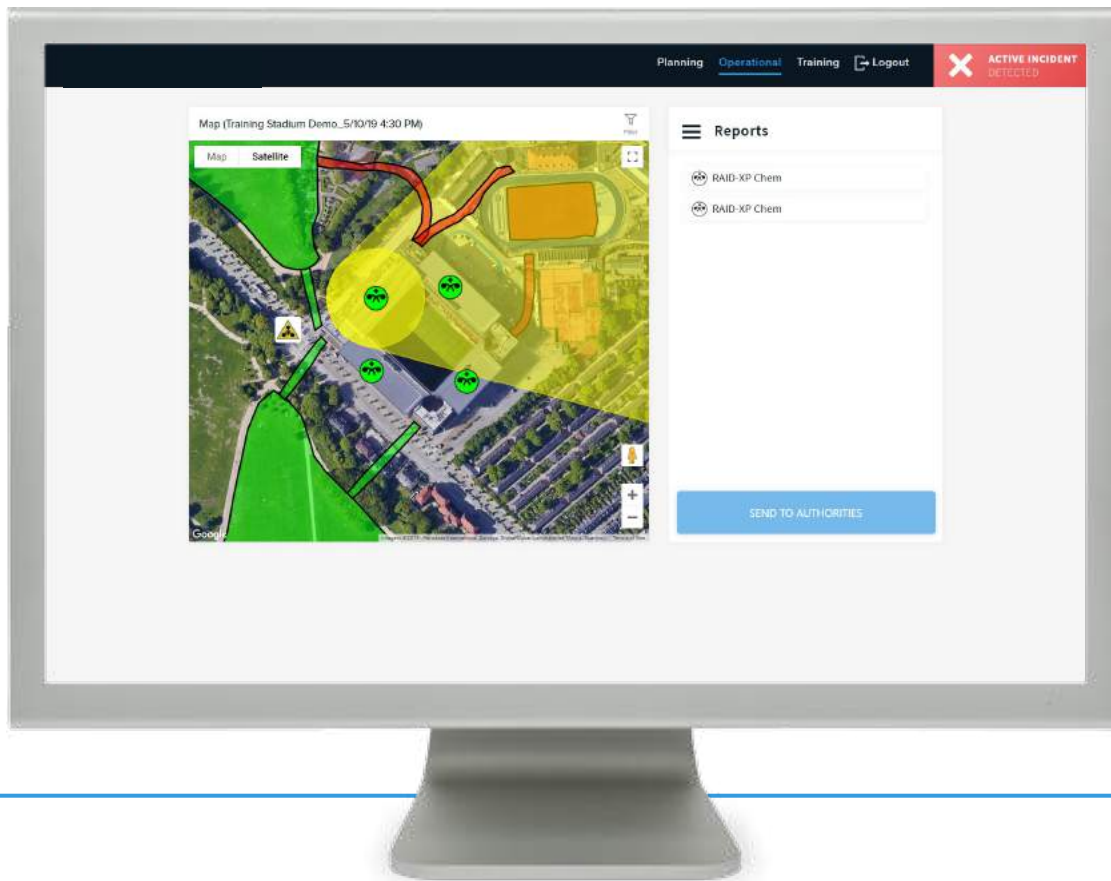
The relevant authorities can access SafeVita to monitor events remotely.

SafeVita´s **Report section** can also be used to distribute a full report of the incident providing details to emergency services either automatically or on demand.

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THANK YOU

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