

SAFESIGHT

TRANSFORMING WORKER SAFETY WITH
DIGITAL EMERGENCY RESPONSE



Who Is Safesight?

- **Technology Innovation company established in 2016**
- **Head Office in North Bay, Ontario**
- **100% Canadian owned and operated in Northern Ontario**
- **Established record of innovation in the mining sector (5G Mining Innovations Award Winner)**
- **Delivering comprehensive solutions from inception to continual client-focused support**

WHAT WE DO?

SafeSight's cutting-edge solutions utilize state-of-the-art technology such as LiDAR, LED, Imaging, Robotics, and Drones, delivering unparalleled benefits:

Worker Safety: Removing workers from hazardous environments, ensuring their safety and well-being.

Operational Efficiency: Boosts productivity and efficiency by automating tasks and streamlining workflows.

High-Risk Data Collection: Gathers crucial data from high-risk areas, empowering informed decision-making and enabling smart mining practices.



Battling an Equipment Fire in an Underground Mine

Emergency Response is poised to leverage its own digital response. Using an example we can best illustrate the digital capabilities available.

The Situation:

A scoop catches fire in an operations room – travel time from surface 30 minutes

Emergency Response Must .

1. Communication and Coordination
2. Assessment and Situation Analysis
3. Immediate Actions
4. Containment Strategies



Communicate

Response Goal

We must ensure that key resources (Rescue team, Surface briefing officer, external firefighting agencies) have:

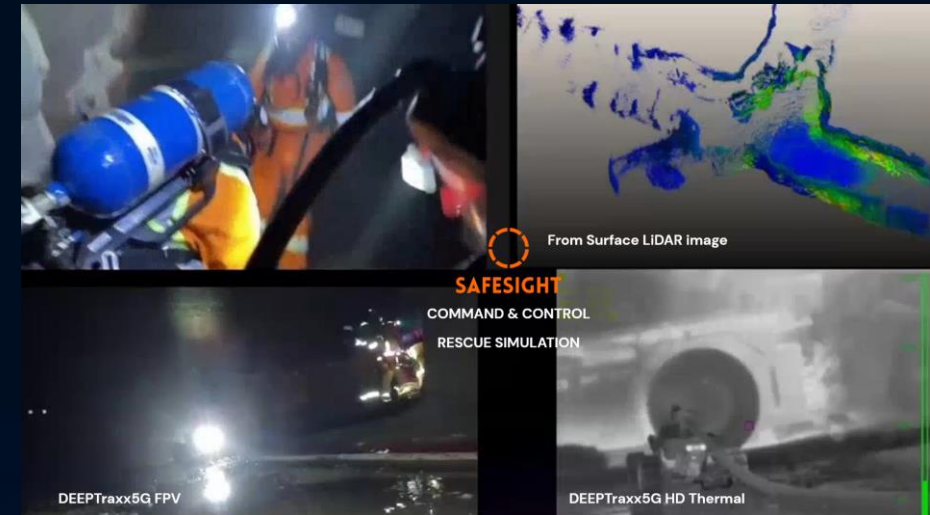
1. Effective collaboration
2. Maintain clear communication
3. Coordinate their efforts

Tools used Today

- Radio once underground
- Tablet Images (wifi)
- FLIR/TIC (range restricted)

Response Transformed

- Radio once underground
- **Real time Body Cam**
- **HD Thermal Imaging**
- **HD video**
- **Real time 3D mapping**



Assessment

Response Goal

Evaluate the nature and extent of the fire (or emergency).

Identify potential hazards such as toxic gases, collapse risks, and heat exposure.

Tools used Today

- Worker information
- Radio once underground
- Tablet Images (wifi)
- FLIR/TIC (range restricted)
- Responder Inspection at the incident

Response Transformed

- Keeps Responders at a safe Operating Distance
- **Remote Ground Based technology**
- **Remote UAV technology**
- **IN A 5G environment this can be done from surface.**



Immediate Actions

Response Goal

- Initiate emergency response protocols.
- Evacuate personnel from the affected area.
- Alert nearby teams and control room for support.

Tools used Today

- Radio once underground
- Tablet Images (wifi)
- FLIR/TIC (range restricted)
- Rescue Basket

Response Transformed

- **POWER WHEEL Tech**
- Keeps Responders at a safe Operating Distance
- Remote Ground Based technology
- Remote UAV technology
- **IN A 5G environment this can be done from surface.**



Containment Strategies

Response Goal

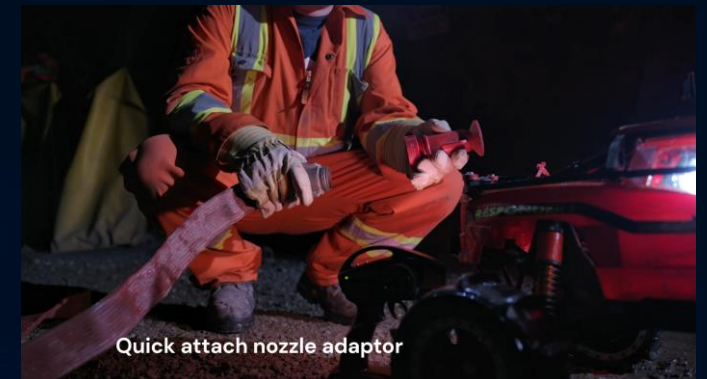
- Deploy fire suppression systems if available and deemed safe.
- Establish fire breaks to prevent the spread of flames and heat.
- Consider sealing off ventilation pathways to contain smoke and toxic gases.

Tools used Today

- Foam
- Oxygen Barriers
- FLIR/TIC (range restricted)
- Fire Response for Water Curtain/heat suppression
- Requires Responders in close proximity

Response Transformed

- Keeps Responders at a safe Operating Distance
- **Remote fire response**
- **Remote UAV technology**
- **IN A 5G environment this can be done from surface.**



Building Digital Possibilities

The industry has started to turn its attention to the Emergency Response area to change the potential and possibility of Digital transformation.

Mine Rescue Today

1. PPE
2. Respirator
3. Rescue Basket
4. Standard & Specialized tools
5. **Digital Tools**
Handheld Thermal Camera

Mine Rescue with a Digital Advantage

1. PPE
2. Respirator
3. Rescue Basket
4. Standard & Specialized tools
5. **Digital Tools**
Handheld Thermal Camera
7. **Powered Rescue Basket**
8. **Emergency Response Drone**
9. **DeepT-FR 5G – Fire Response & Search**
10. **SafeScanner 5G to 3D map the scene**

"If you were trapped underground which one of these Responders, would you want searching for you?"



Emergency Response Drone



SafeScanner 5G

Rescue Wheel



DeepTraxx-5G

THANK YOU!

Connect with us



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