

SubT-SA

Subterranean Situational Awareness Envisioned Future

Editor: Rich Van Voorst, Liberty Alliance

Writers:

Jason Arnott, DTRA

Gordon Banks, DTRA

Matt Crotts, Liberty Alliance

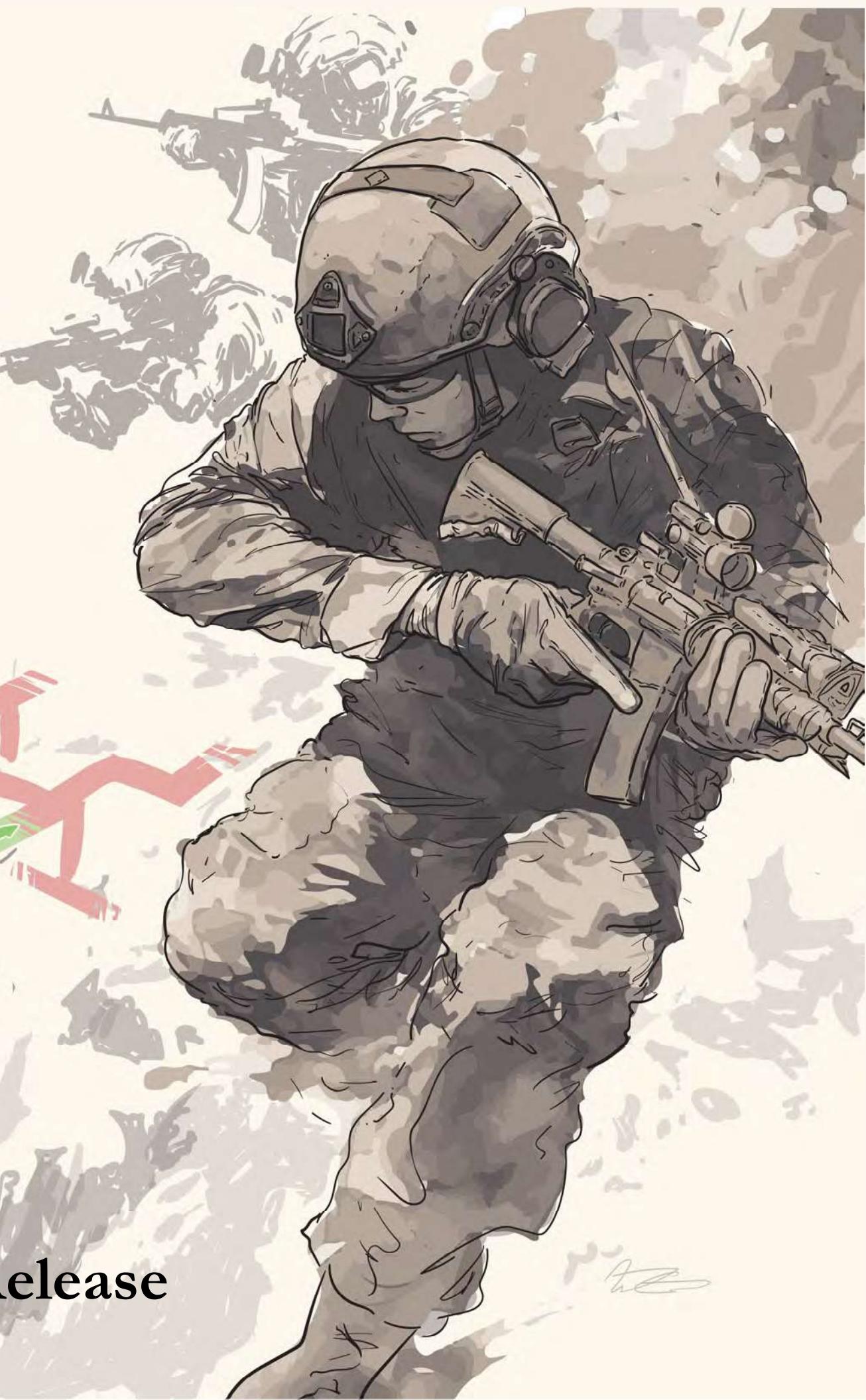
Rich Van Voorst, Liberty Alliance

Artist: Matt Crotts, Liberty Alliance

Program Manager:

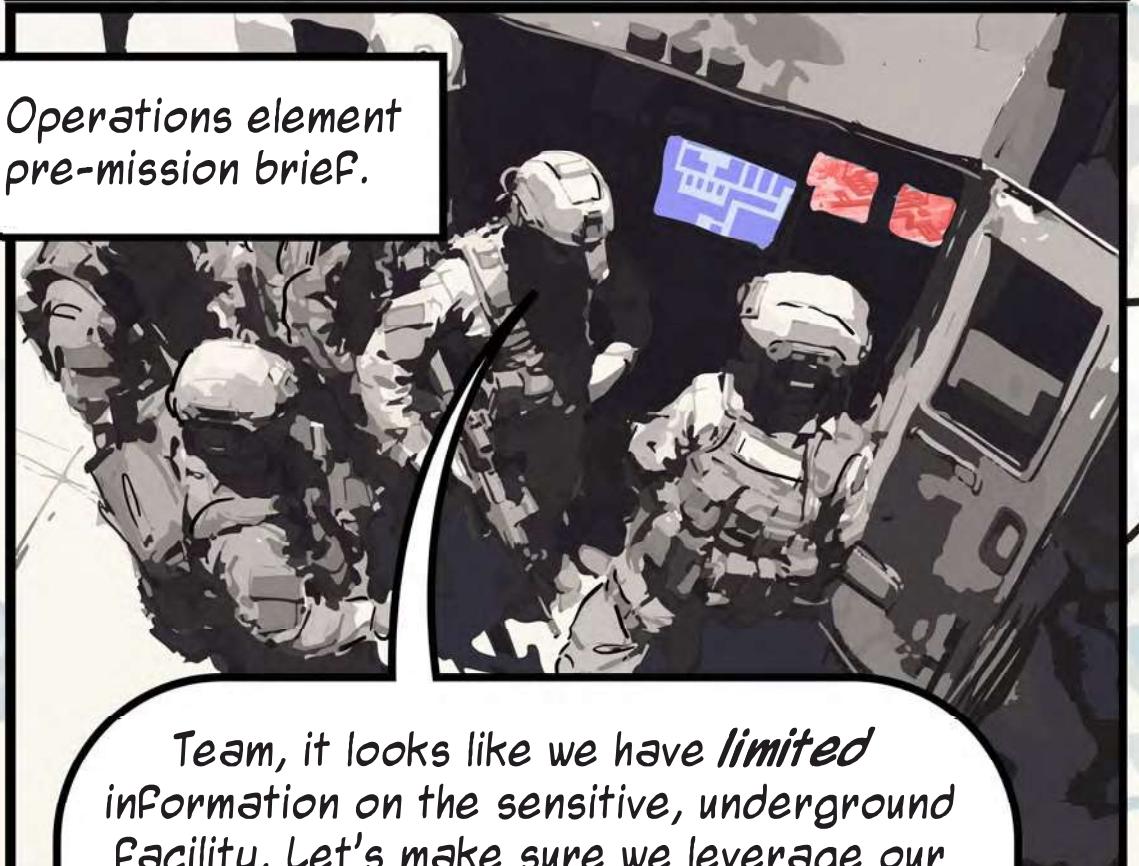
Gordon Banks, gordon.banks9.civ@mail.mil

Approved for Public Release

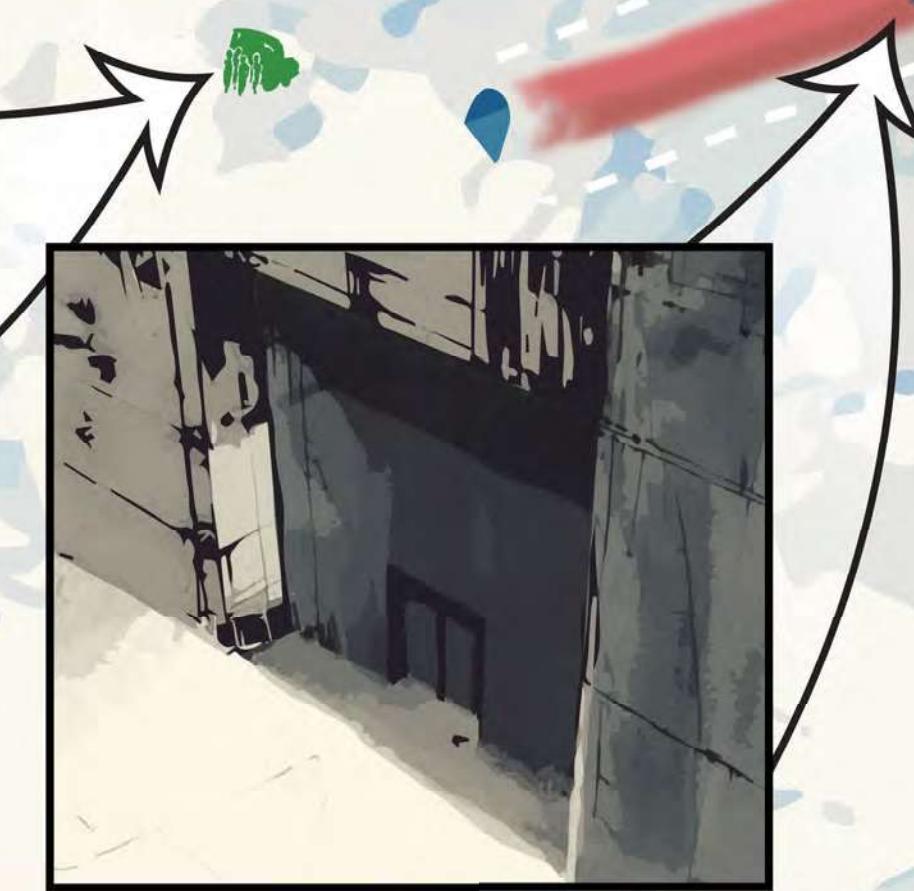


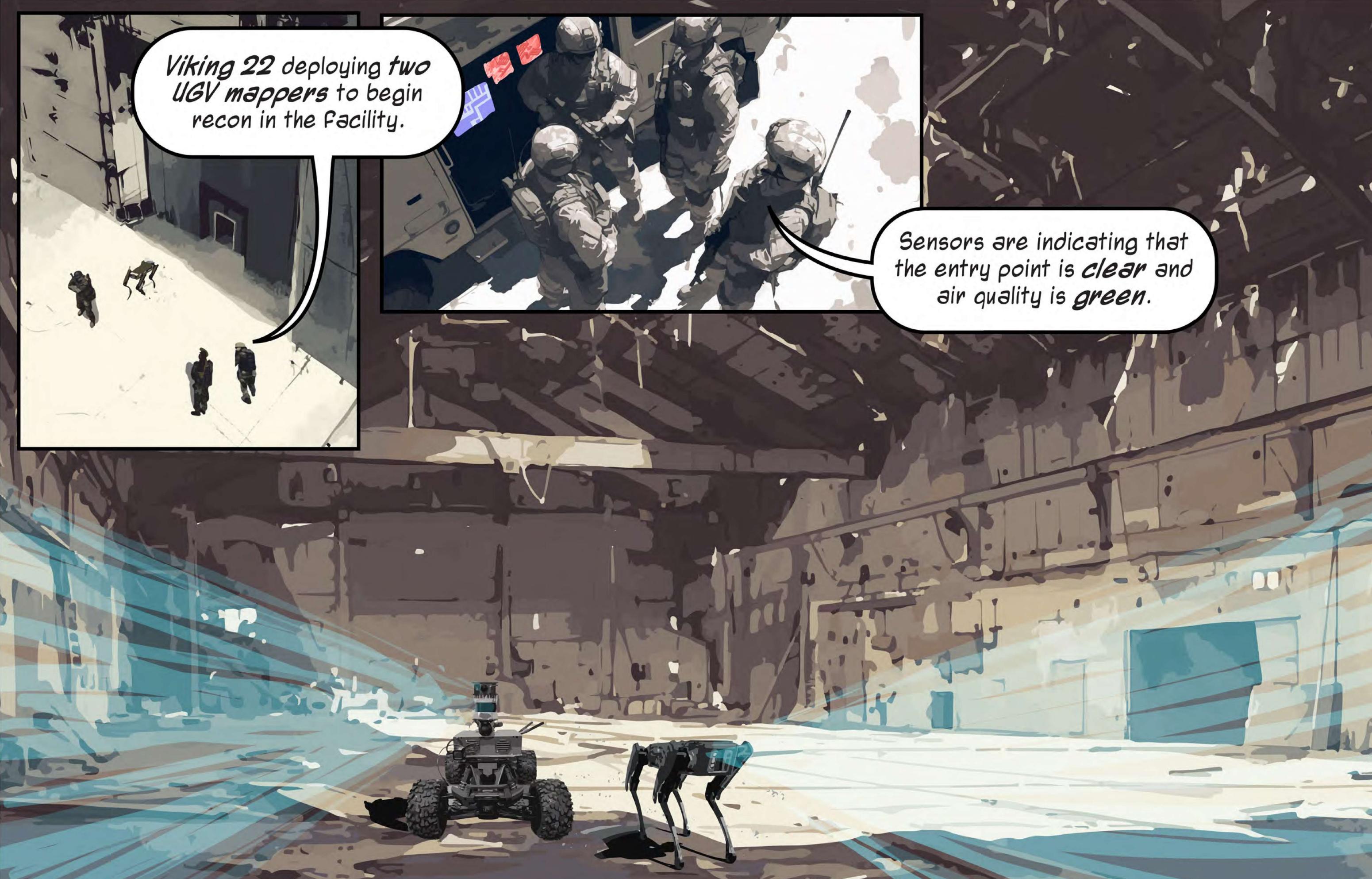


Overhead Imagery From National Technical Means has provided a few, limited views of what we assess to be the access portal for a subterranean nuclear weapon Facility.



Team, it looks like we have **limited** information on the sensitive, underground facility. Let's make sure we leverage our **mapping** and underground operations technology to its **Fullest extent**.





Viking 22 deploying two UGV mappers to begin recon in the Facility.

Sensors are indicating that the entry point is *clear* and air quality is *green*.



Viking 22, message received.

Systems revealed hostiles 400m to the right, subterranean comm nodes and grid are active. Additional access point discovered on the left.

New infrastructure discovered.

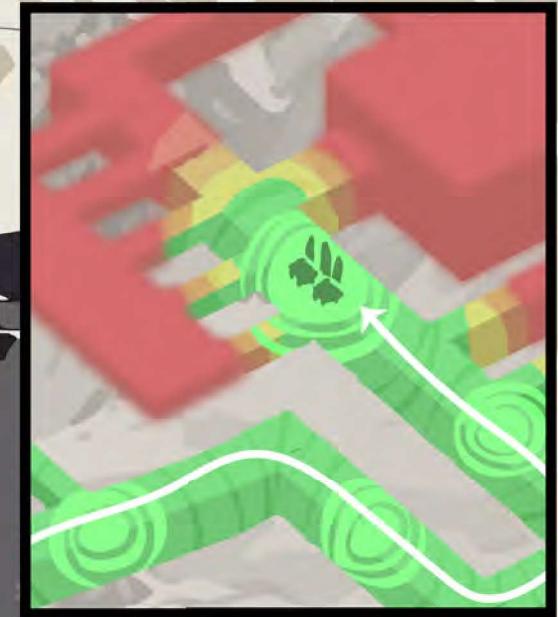




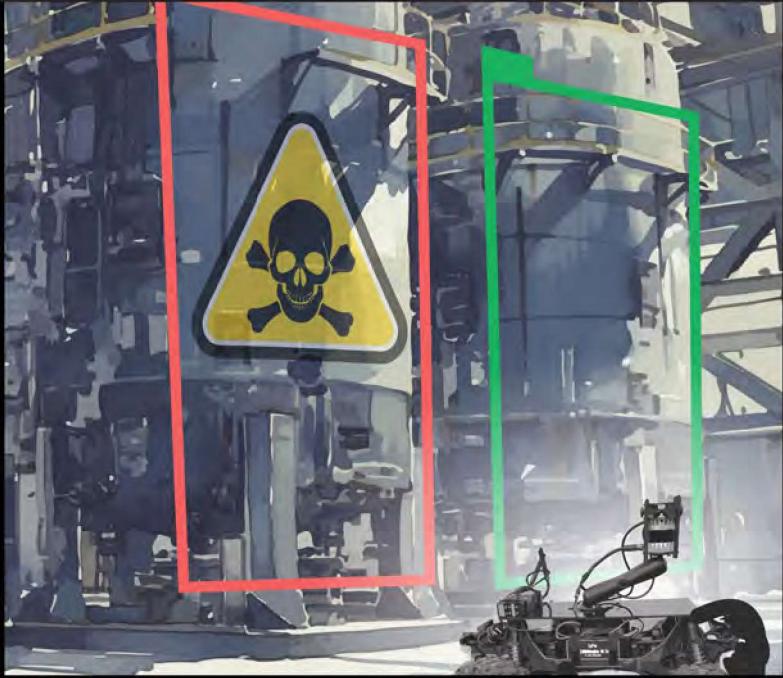
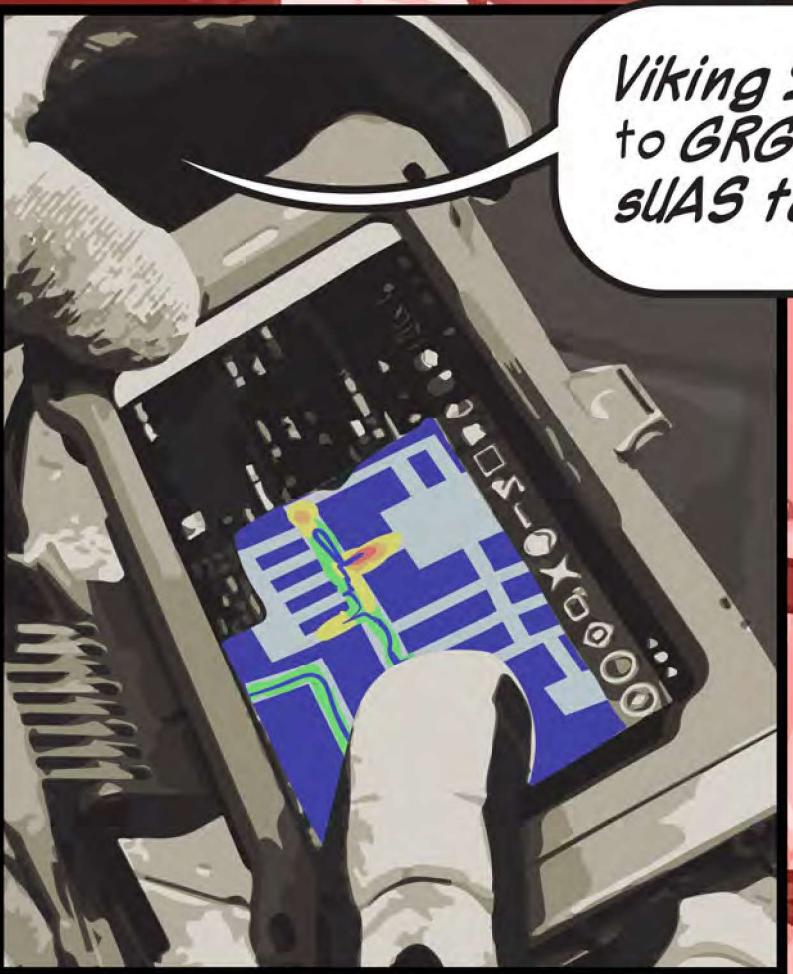
Viking 22 requesting resupply.

5.56, water, and oxygen.

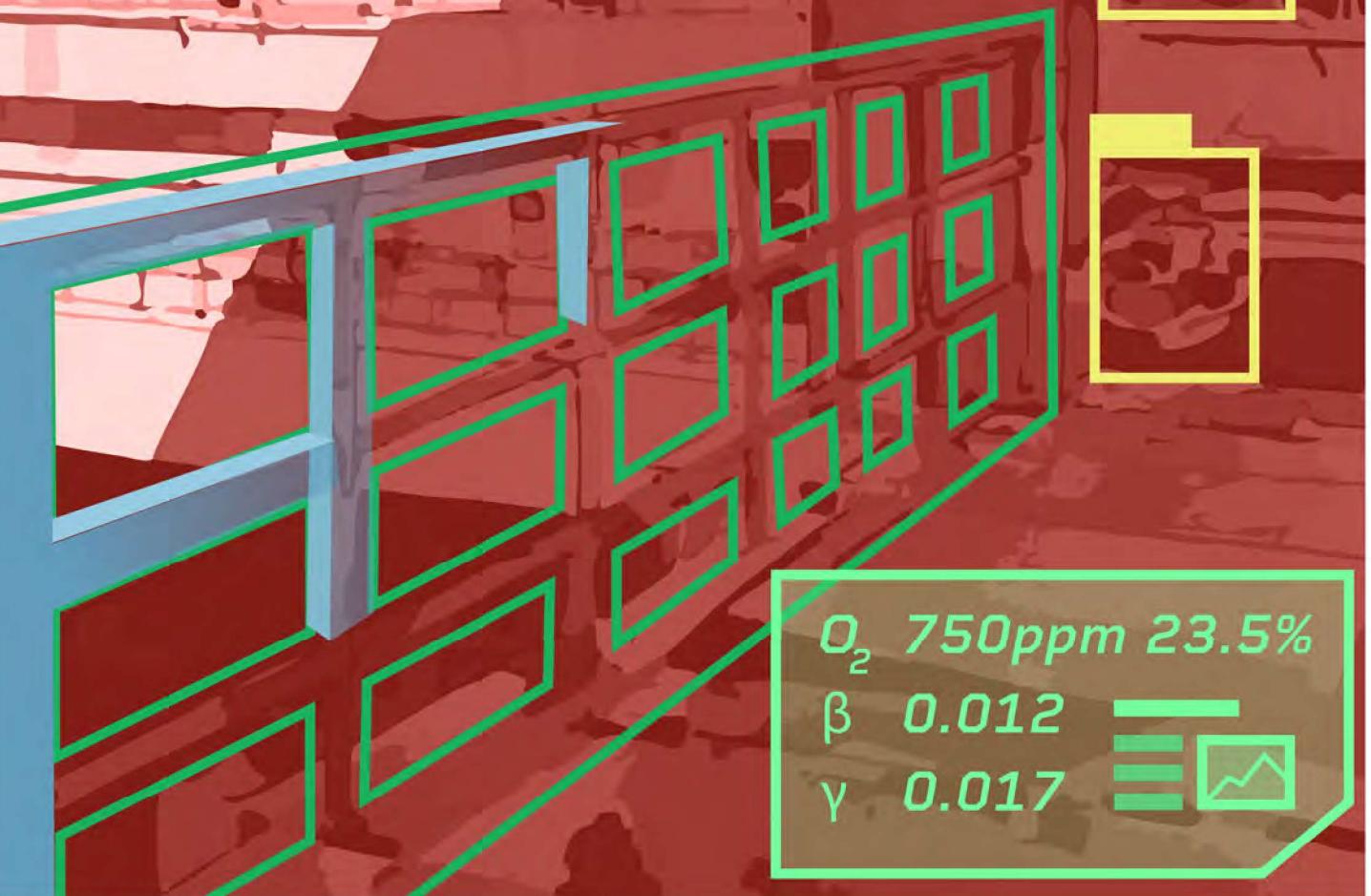
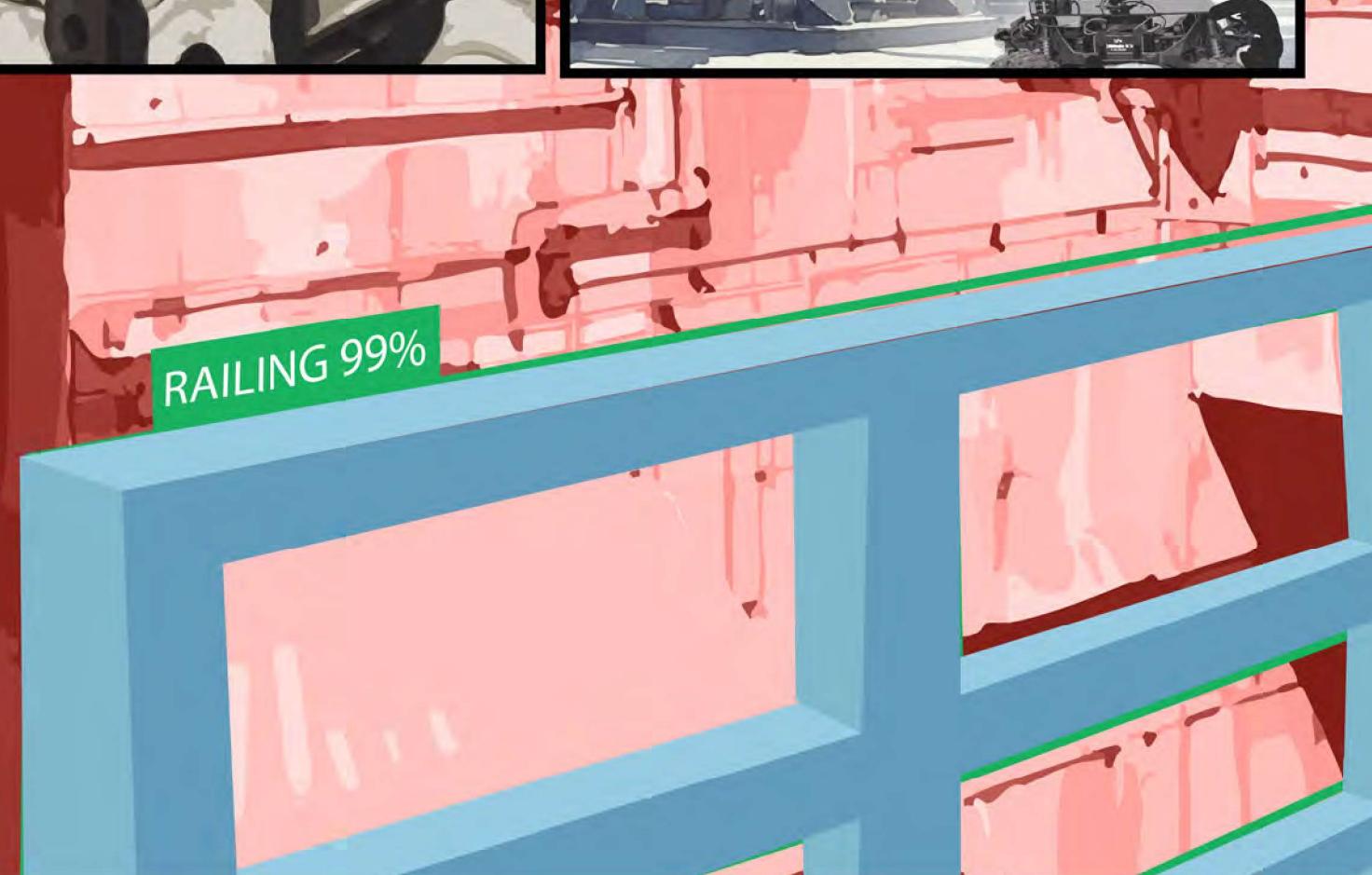
Delivery location pushed to map.



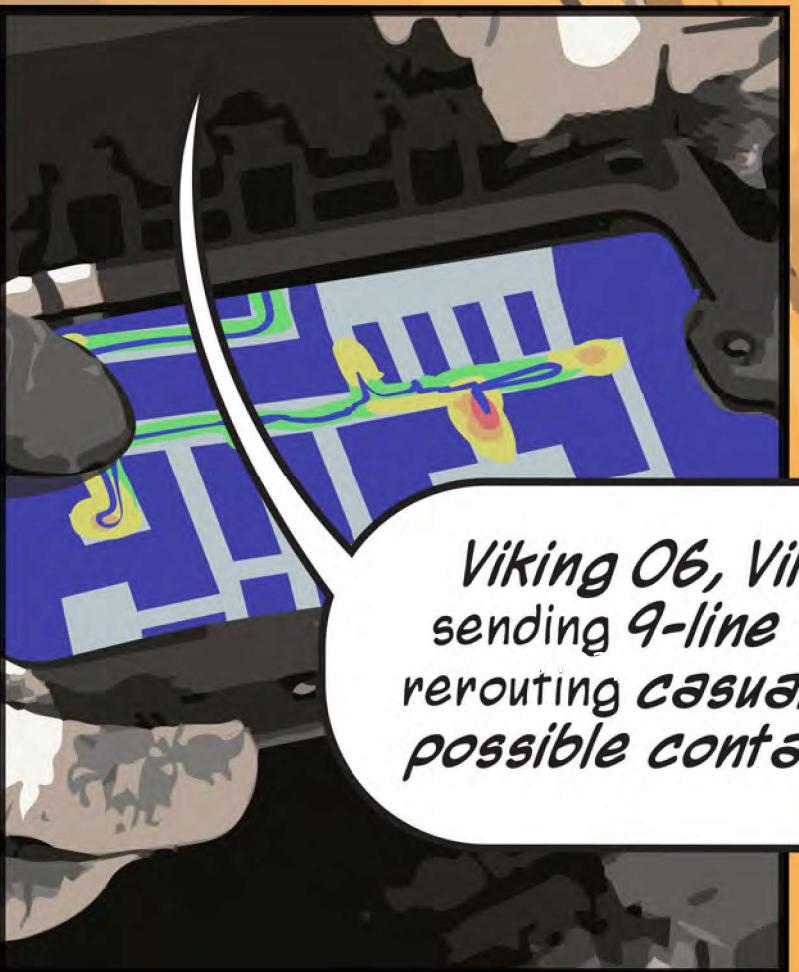
Viking 22, Viking 06....we are pushing CBRN teams to GRG section 22 to assess contamination and SUAS team to investigate area below catwalk.



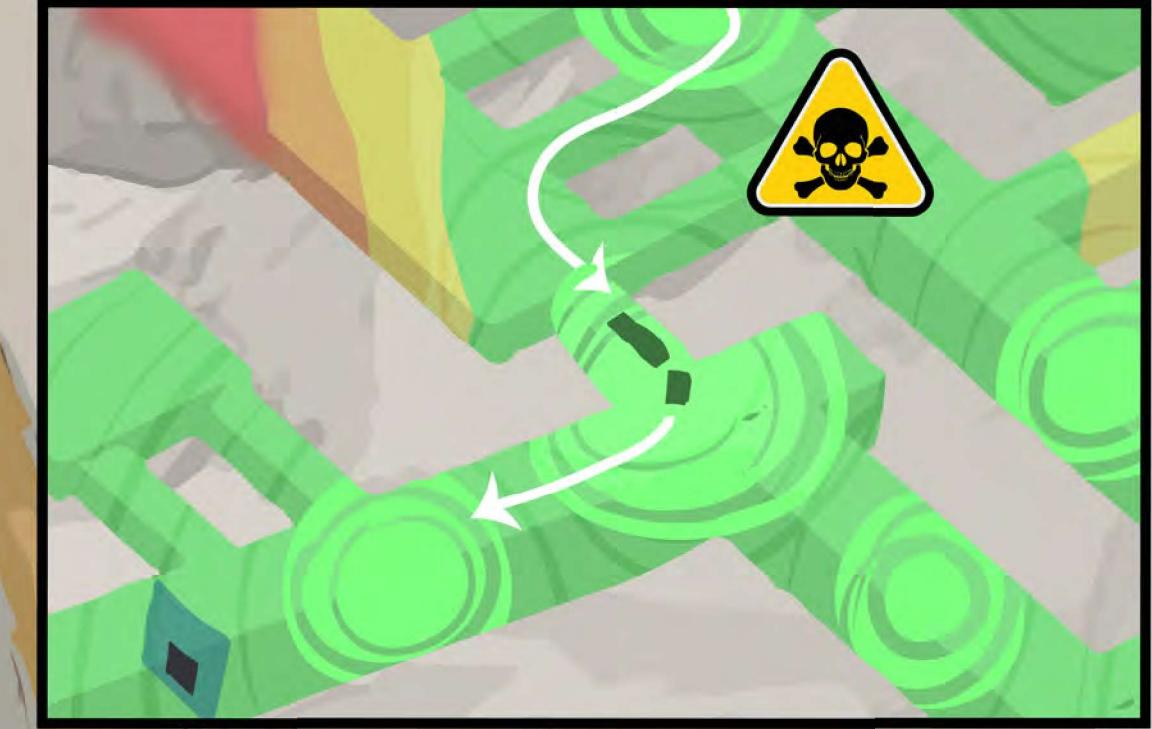
RAILING 99%

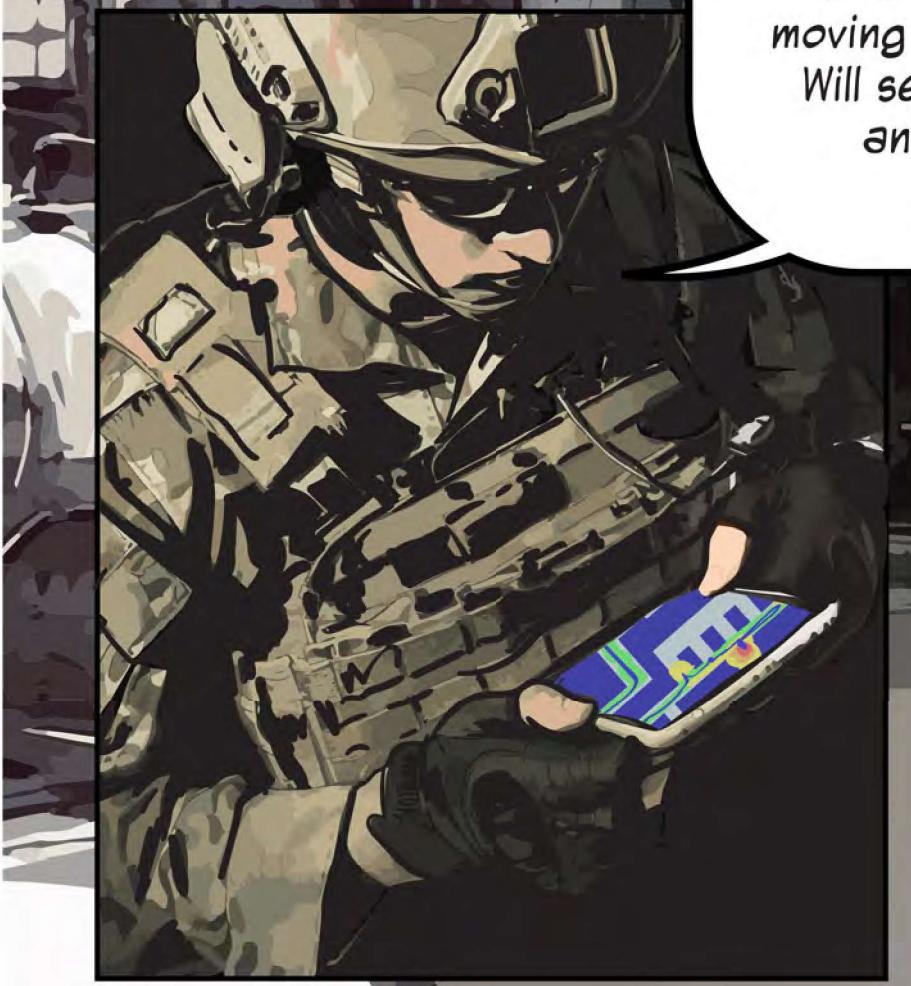
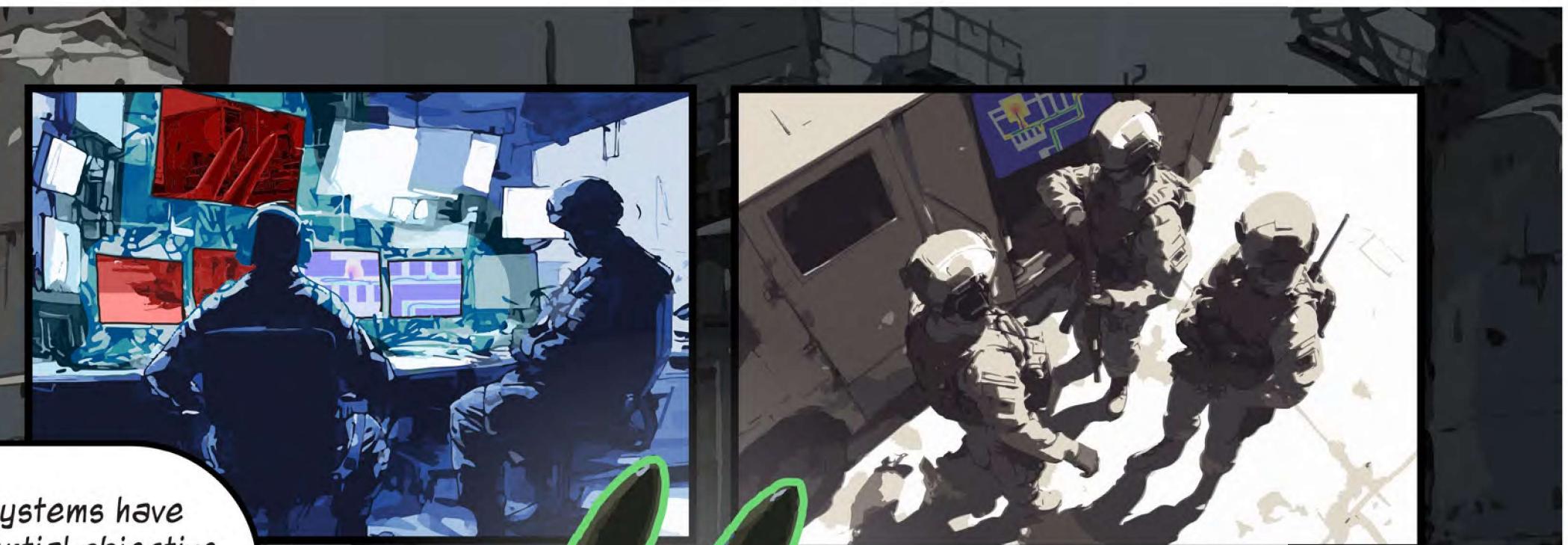
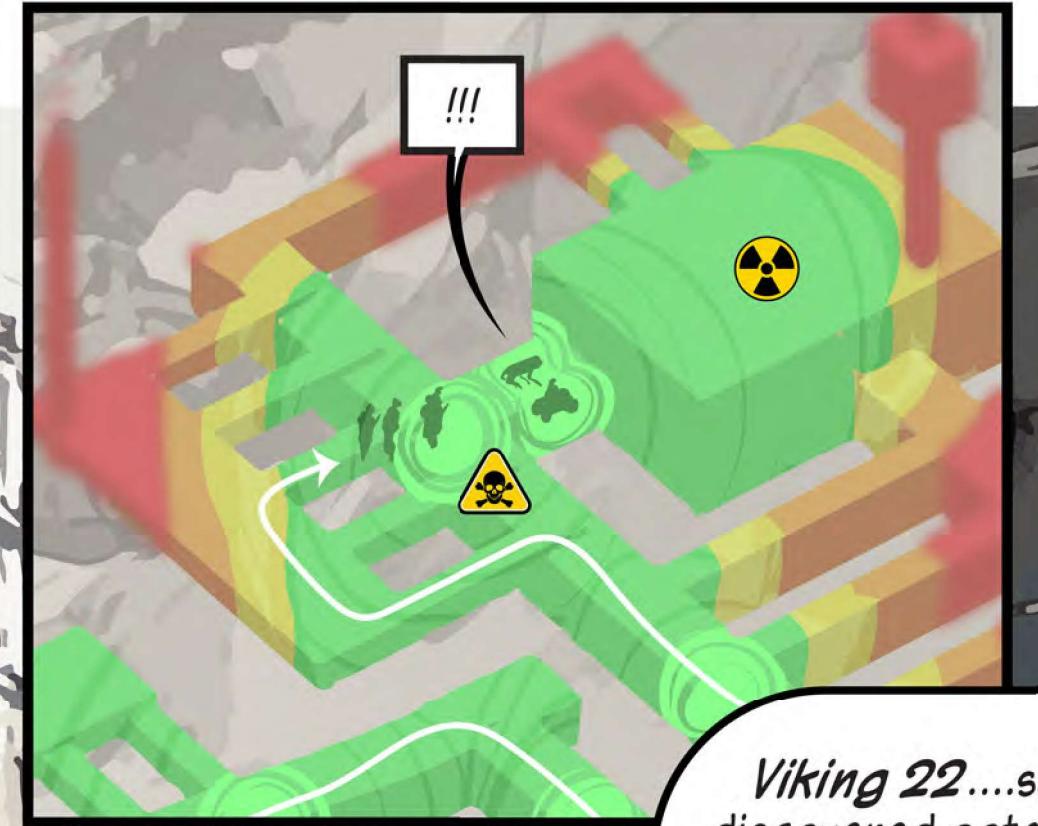


Wounded operator exfil.

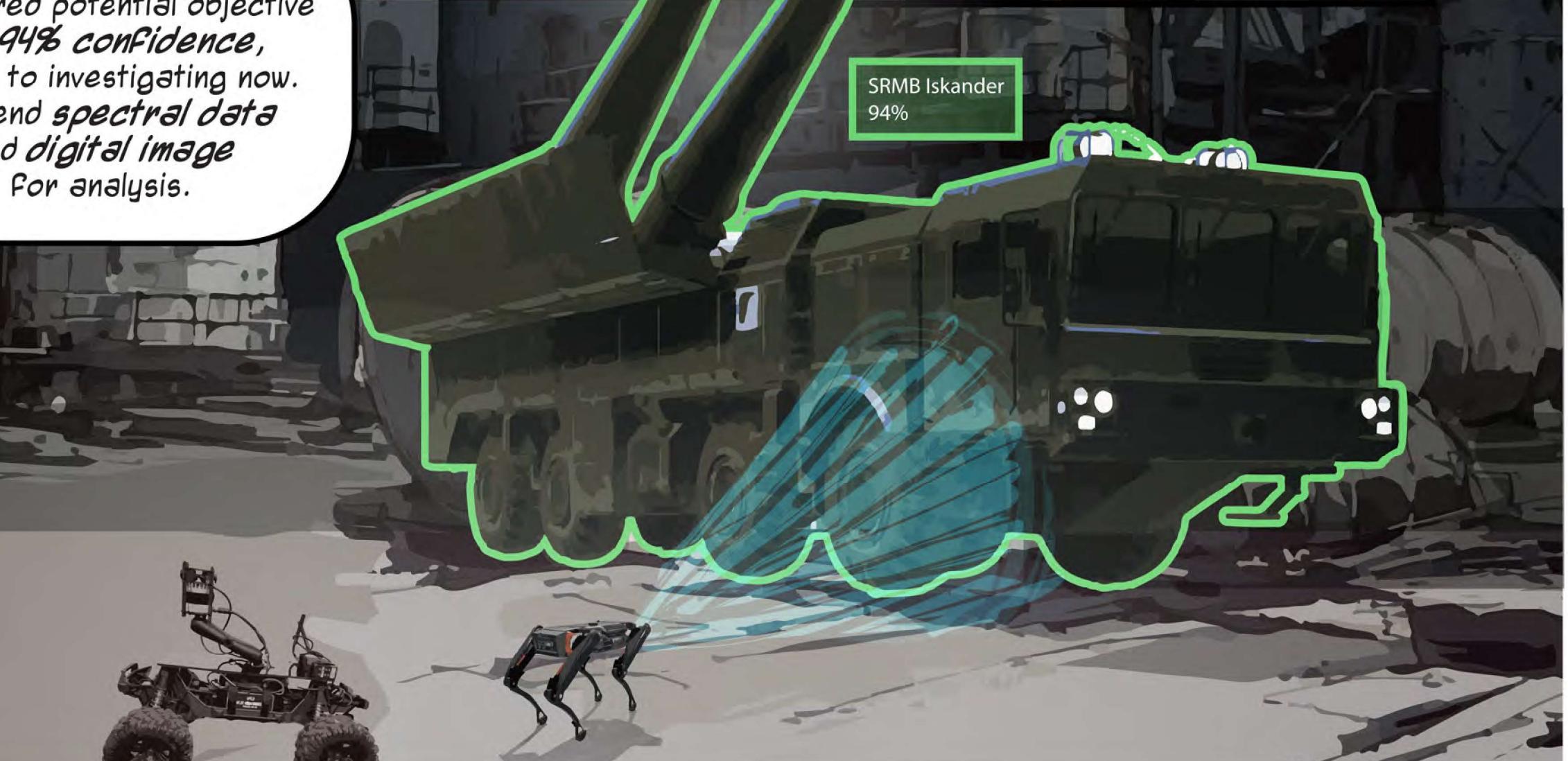


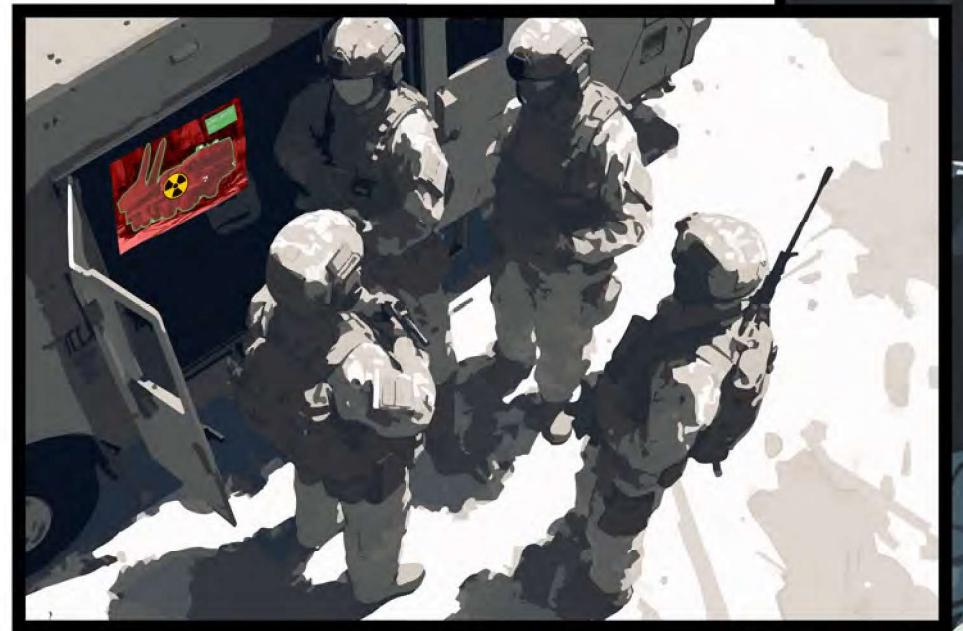
Roger Viking 22, prepping for reception to casualty collection point.



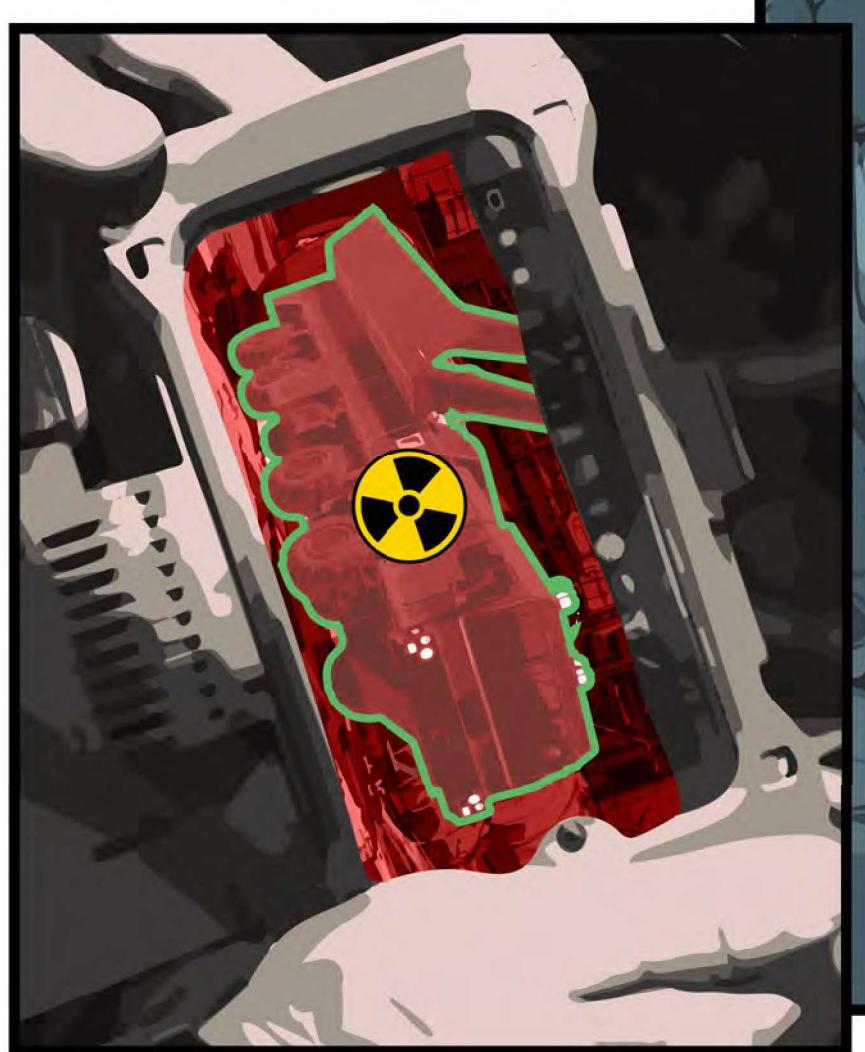


Viking 22...systems have discovered potential objective with **94% confidence**, moving to investigating now. Will send **spectral data** and **digital image** for analysis.





Viking 06, data received...
SMEs are working recommendations
based on the data you sent
at this time.





Sir, we can confirm that this threat has been defeated. We're analyzing the additional data that is being live streamed to us.

Operator exfil.

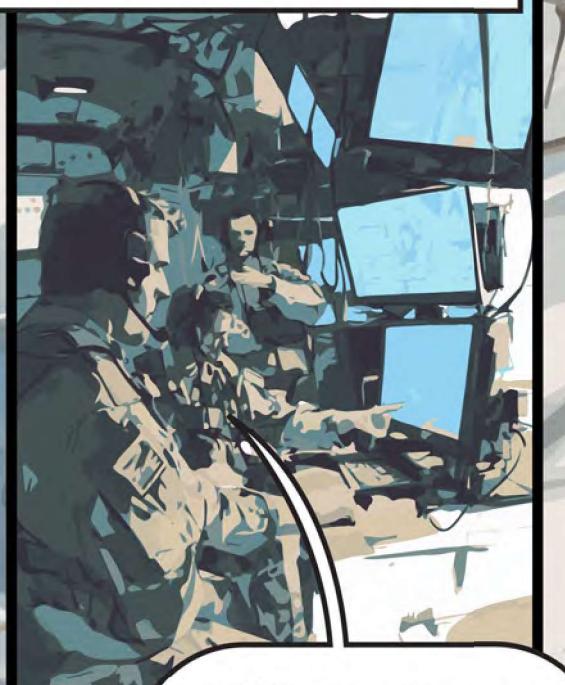
Simultaneous mapping of the rest of the facility.

✗ Destroyed WMD

⚠ Contamination Zone



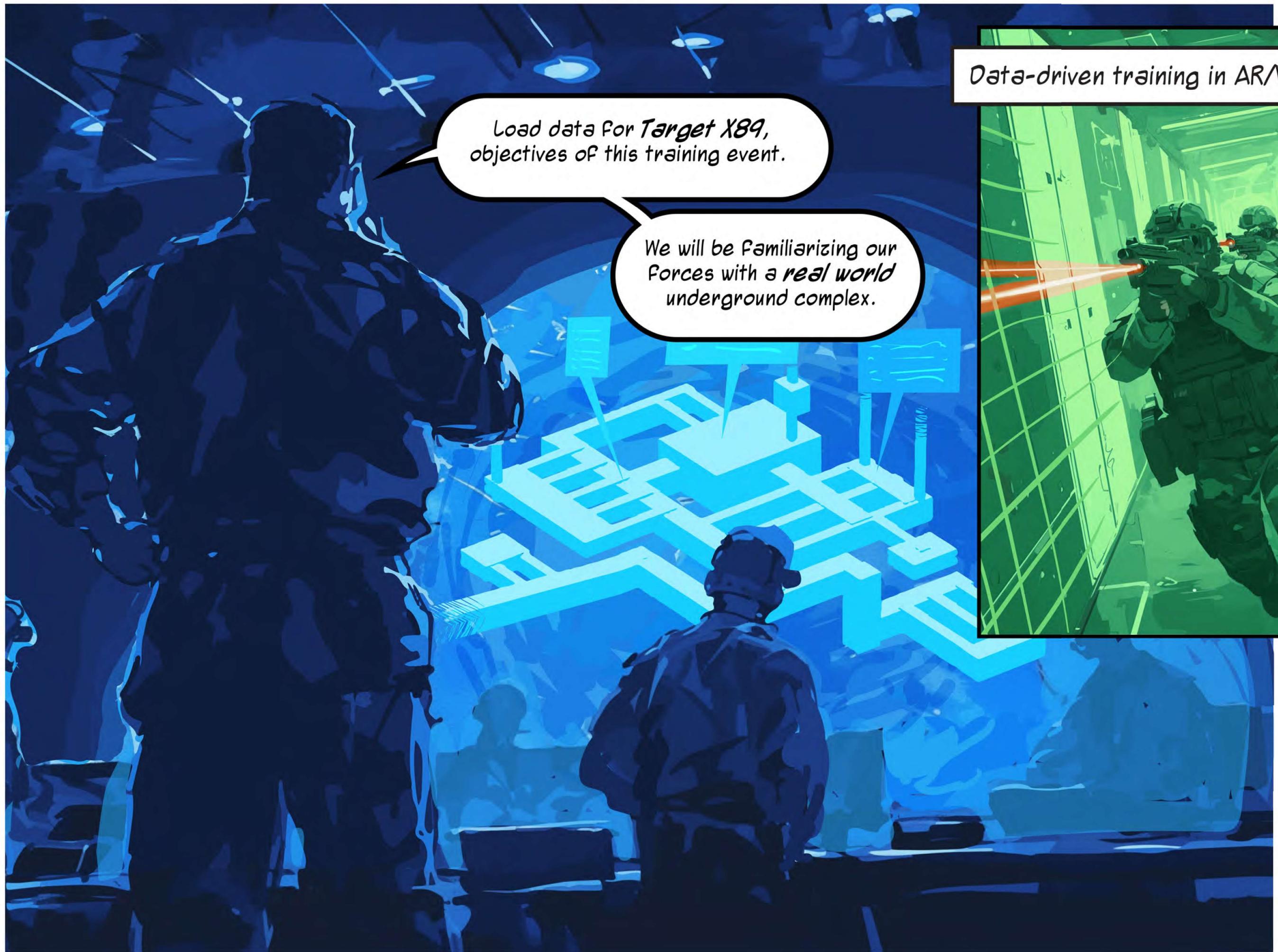
Remote SMEs confirming mission success with operators.



All Viking elements are PZ posture, ready for exfil.



Data retrieved from two destroyed contaminated machines; no decontamination needed.



Designed by
LIBERTY
ALLIANCE

SubT-SA



JOHNS HOPKINS
APPLIED PHYSICS LABORATORY



DRAPER



UNITED STATES MILITARY ACADEMY
WEST POINT



JPL
Jet Propulsion Laboratory



DTRA
DEFENSE THREAT REDUCTION AGENCY

