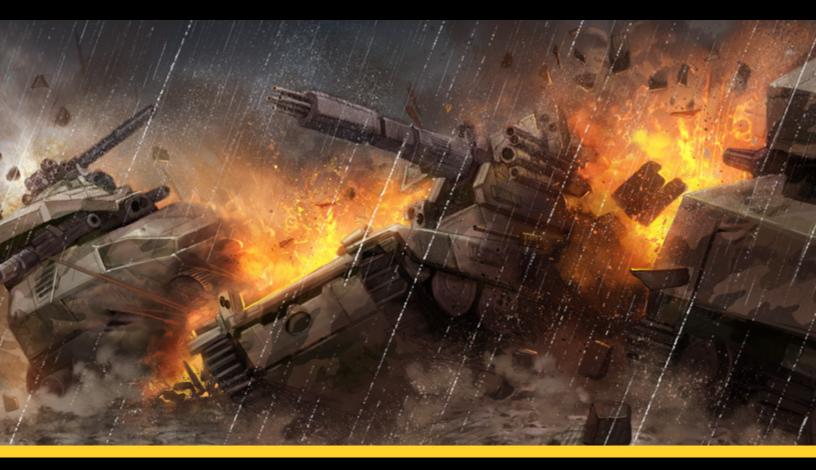


Written by Brian David Johnson • Creative Direction: Sandy Winkelman Illustration: Don Hudson & Kinsun Loh • Brought to you by the Army Cyber Institute at West Point





BUILDING A BETTER, STRONGER AND MORE SECURE FUTURE FOR OUR ARMED FORCES

Science Fiction Prototypes are science fiction stories based on future trends, technologies, economics, and cultural change. The story you are about to read is based on threatcasting research from the Army Cyber Institute at West Point and Arizona State University's Threatcasting Lab. Our story does not shy away from a dystopian vision of tomorrow. Exploring these dark regions inspires us to build a better, stronger, and more secure future for our Armed Forces.

Technology is evolving faster and faster ... but our military doctrine, organization, training, leadership, personnel, and education models are struggling to keep the same pace. Therefore, how do we inspire military innovation? Even in the 1920s and 1930s, the U.S. military was able to successfully innovate with low military budgets and limited support, which ultimately created huge impacts in World War II.

What if our adversaries have learned the lessons on military innovation over the last century and applied them to the future battlefield? What if they are embracing cyber and electronic warfare in their main order of battle? What if they are willing to incorporate change into their organizations? How might we fare against them on a future battlefield? How are you helping or hindering military innovation?

> Lt. Col. Natalie Vanatta Academy Professor U.S. Army Cyber Institute

The views in this graphic novel are those of the author and do not reflect the official policy or position of the Department of the Army, DOD, or the U.S. Government.

SILENT RUIN

Our science fiction prototype begins in the year 2027. Yugaria and Novistrana have united, crossing a red line for Razkavia. Tensions are high as both NATO and Razkavia conduct training missions on each side of the border. When both group's front-line autonomous forces deviate from their submitted plans ... the robots engage ... triggering a full conflict.

The fight is fast. With superior electronic warfare capabilities, the Razkavians launch a cyber attack that jumps the autonomous forces and targets the manned tanks.

Razkavian tanks roll into the city and converge on the U.S. Embassy...











"While we may be reluctant to implement autonomous capabilities, there is no doubt our adversaries will take every opportunity to outpace us. If we fail to harden our own systems while they develop innovative means to counter the proliferation of advanced autonomous systems, this threatens to render the world's most technologically advanced force its most vulnerable."

> Lt. Col. J. Lane U.S. Army

AFTERWORD

Tanks flip, sights fail, tubes jam, and steering breaks today on M1A1s. What if tomorrow it is not just environmental and maintenance factors you need to worry about ... but also a potential digital adversary affecting your weapons platform?

In the future, cyber and electronic warfare operations and capabilities can share our view of reality. How will we protect our forces and maintain ground truth?

In a world of inter-connected devices and systems, a vulnerability in one can lead to devastating consequences in another. Are you doing your part to protect your digital systems? Are you really aware of your actions and their potential consequences?

Are we innovating now to be prepared to meet the adversary of the future? Are these adversaries investing in new systems today so that we will be outmatched tomorrow?

How do we need to evolve as an organization to ensure that the final graphic panel in this story never becomes true? Multi-domain battle is a step in the correct direction. It will help us drive change and design a future force that can fight and win in contested domains.

