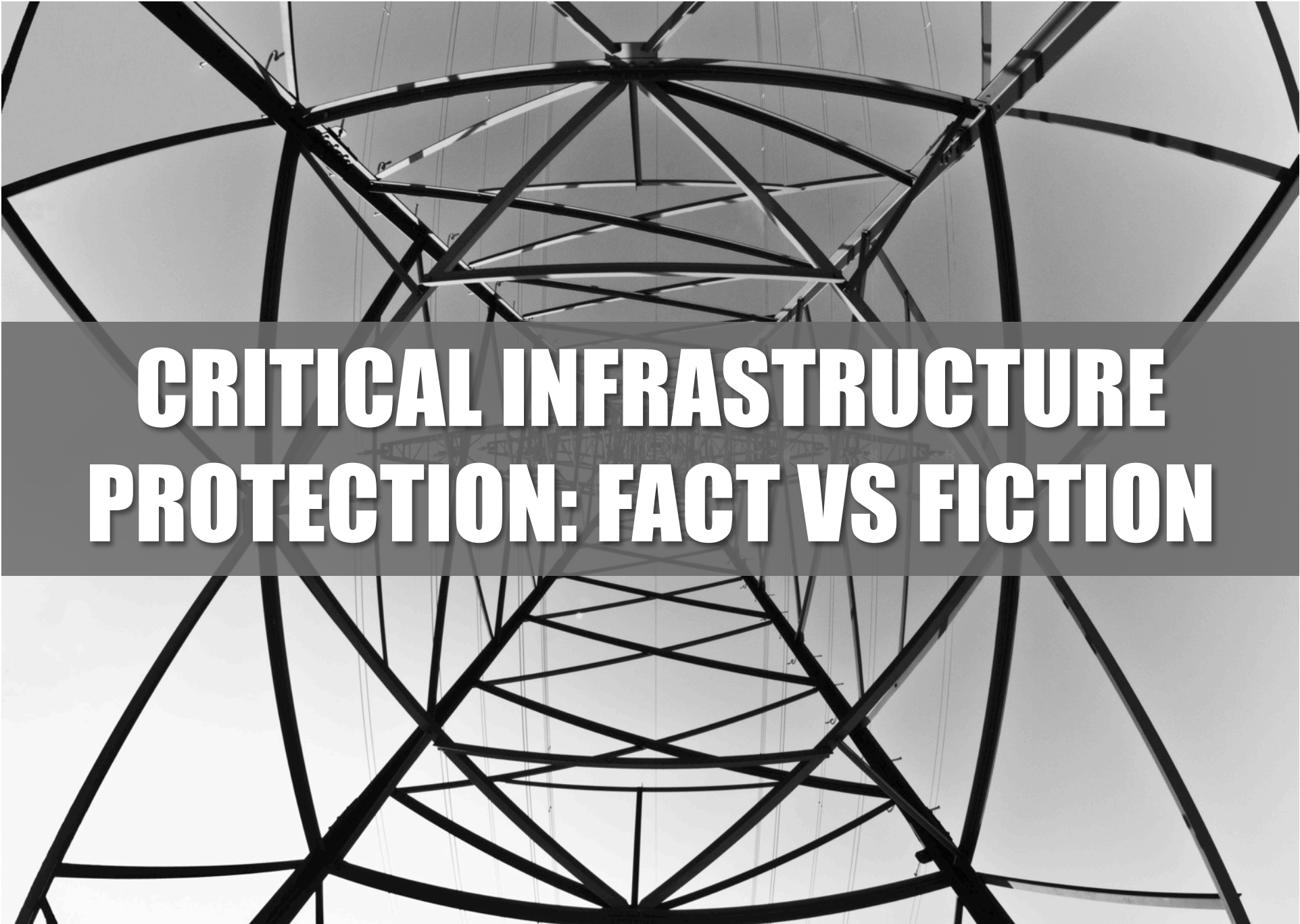
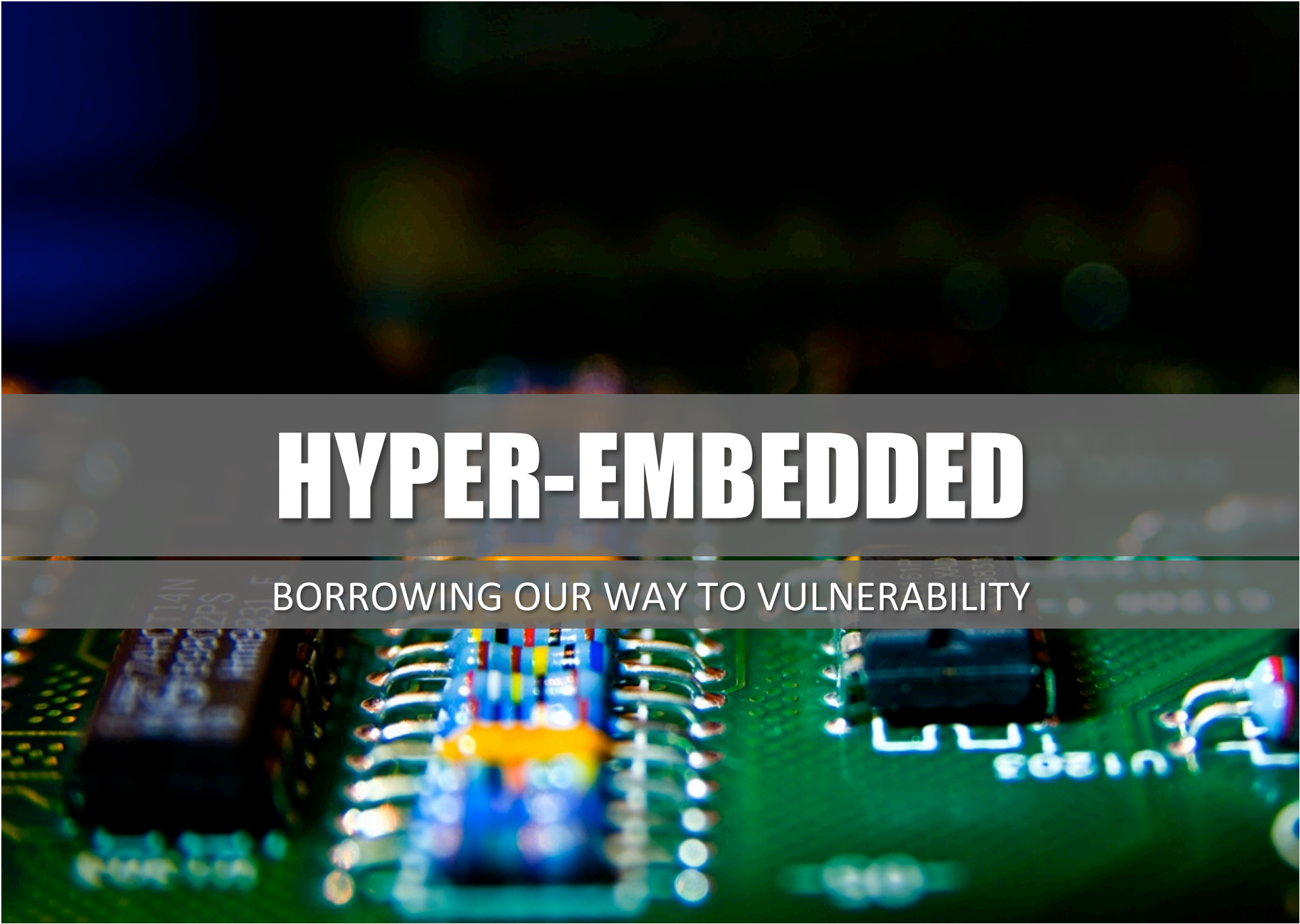




CRITICAL INFRASTRUCTURE PROTECTION: FACT VS FICTION

Swiss Cyber Storm | Konferenz und Kongresszentrum Luzern (KKL) | Luzern, Switzerland | October 22 2014



HYPER-EMBEDDED

BORROWING OUR WAY TO VULNERABILITY



HYPER-CONNECTED

EVERYTHING WILL BE CONNECTED TO EVERYTHING



TEMPORAL DISTANCE

TOMORROW'S BLEEDING EDGE ADJACENT TO THE RUSTING LEGACY





DIGITAL DISTANCE

THE LOGICAL DISTANCE BETWEEN “CLICK” AND “MOVE”



EMERGENT INTELLIGENCE

BIRDS, FISH, WILDEBEEST AND MODERN INFRASTRUCTURE



CONTESTED TERRITORY

AIR GAPS, PREVENTION, ATTRIBUTION, UNICORNS AND OTHER MYTHS



INTELLIGENT ADVERSARIES

THEY HAVE THREE THINGS YOU DON'T: PEOPLE, MONEY AND TIME

A close-up photograph of a hand pointing its index finger at a large, red, circular button. The button has the word "easy" written on it in white, lowercase, sans-serif letters. The background is a plain, light blue surface.

easy

WHEN ADVANCED ISN'T

SPREADSHEETS, PDFs AND NAKED CELEBRITIES



HACKERS ARE FASTER THAN LAWS

YOU CAN PRESCRIBE ACTION, BUT YOU CAN'T PRESCRIBE ATTITUDE

The background of the slide features a dark blue, textured surface. Two brass-colored metal tubes are positioned diagonally. One tube is in the upper right, standing upright. The other is in the lower left, lying horizontally. A white string is draped across the scene, starting from the upright tube, passing behind the text, and looping around the horizontal tube.

CRIMINALS SHARE

THEY DON'T HAVE RESTRICTIONS, CLASSIFICATIONS, RULES OR LIMITS



THREE KINDS OF LIES

INSIDER THREATS AREN'T ALWAYS OUTSIDERS



BIG DATA IS OLD NEWS

NO ONE KNOWS DATA LIKE SCADA KNOWS DATA



THE AWARE PERSON SYSTEM

PHYSICAL SECURITY | IT SECURITY | OT SECURITY | POLICY

Three vintage tin robots are positioned on a reflective surface. The robot on the left is green with yellow accents and two red eyes. The robot in the center is black with a clear dome head and two circular eyes. The robot on the right is blue with a spring for hair and two circular eyes. A semi-transparent dark grey banner is overlaid across the middle of the image, containing the text 'AUTOMATION IS HERE' in large white letters and 'BUT YOU STILL NEED TALENTED PEOPLE' in smaller white letters below it.

AUTOMATION IS HERE

BUT YOU STILL NEED TALENTED PEOPLE



SKILL MATTERS, BUT...

EVEN THE BEST EXPERTS CAN STILL GET IT DANGEROUSLY WRONG





INNOVATING TO DEPENDENCE

TODAY'S NEW TECH IS TOMORROW'S SECURITY LIABILITY



KEEP IT SIMPLE

RELIABILITY THROUGH COMPLEXITY IS A TRAP



GONE TODAY HERE TOMORROW

FOREVER-DAYS, DEAD ENGINEERS AND CLASSIFICATION GAMES

The background image is a photograph of a dilapidated interior. It shows a rusted metal door set into a concrete block wall. To the right of the door is an electrical panel. The floor is covered in dirt and debris, including a large pile of broken concrete blocks on the right side. The lighting is dim and yellowish.

TIME, TOOLS AND MATERIALS

RESILIENCE = BALANCED PREVENTION, DETECTION AND RESPONSE

CREDITS



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