

A photograph of a control room or operations center. In the foreground, a person is seated at a desk, viewed from behind, looking at several computer monitors. The monitors display various data visualizations, including charts, graphs, and network diagrams. In the background, a large curved wall is covered with more monitors displaying complex network maps or data feeds. The room has a modern, industrial feel with a curved ceiling and recessed lighting.

# **BORROWING SECURITY FROM OPERATIONS**

2nd Ibero-American Industrial Cybersecurity Congress | Hotel Dann Carlton | Bogotá, Colombia | May 27 2014

A hand is pointing towards a red circular sign with the word "easy" written in white lowercase letters. The sign is mounted on a light blue wall. The background is a solid light blue color.

easy

# **EVEN PING CAN DO IT**

INFINI-DAYS, ZERO AUTH, ETC: NO SOPHISTICATION NECESSARY



# INTELLIGENT ADVERSARIES

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



# **HIDING WILL NOT HELP**

AIR GAPS, SERIAL, OBSCURITY, UNICORNS AND OTHER MYTHS



# I.T. TO THE RESCUE!

STEP AWAY FROM THE SCADA... I.T. IS HERE TO SAVE THE DAY!



# IN THE LAND OF THE BLIND

MANY I.T. SECURITY TOOLS DON'T EXIST FOR THE ICS TECHNOLOGIES



# SECURING SCADA IS HARD

CAN'T SOLVE A PROBLEM WITH THE SAME THINKING THAT CREATED IT



# ITS A-I-C, NOT C-I-A

UPTIME IS THE NUMBER ONE GOAL



A dramatic sky with dark, heavy clouds and a bright lightning bolt striking down on the right side. The colors range from deep blue to purple and pink, suggesting a sunset or sunrise during a storm.

# ENGINEERING VS. SECURITY

MOTHER NATURE MAY BE HARSH, BUT SHE'S NOT MALICIOUS



# TRANSLATING O.T. TO I.T.

CULTURE SHIFT: BOTH SIDES MUST BE ABLE TO PUT ASIDE THEIR EGOS

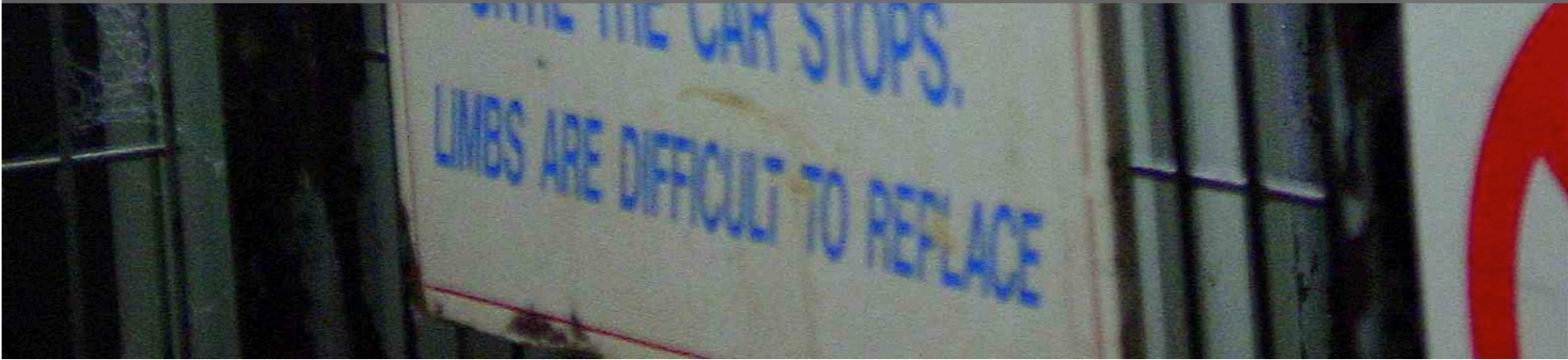


**SAFETY FIRST**

PLEASE KEEP YOUR LEGS &

# **SAFETY IS EVERYONE'S JOB**

AND SO IS SECURITY... TREAT THEM VIRTUALLY THE SAME

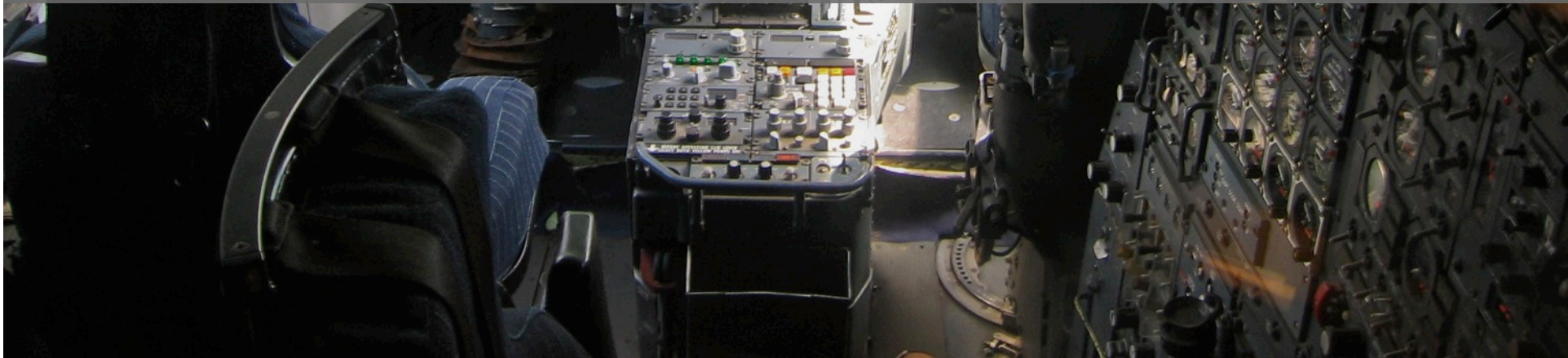


WHILE THE CAR STOPS.  
LIMBS ARE DIFFICULT TO REPLACE



# TELEMETRY IS OUR BUSINESS

NOBODY KNOWS DATA LIKE SCADA KNOWS DATA





# OPERATIONS SECURITY

GET A SPOT ON THE WALL DISPLAY





# INFORMATION SECURITY

GET A SPOT ON THE WALL DISPLAY



# COLLABORATIVE SECURITY

THE SECURITY GROUP ALONE SHOULDN'T BE YOUR ONLY DEFENSE



# FIGHT THEM, NOT YOURSELVES

WELL ARMED RELATIONSHIPS ARE BETTER THAN TECHNOLOGY ALONE



# CREDITS

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