

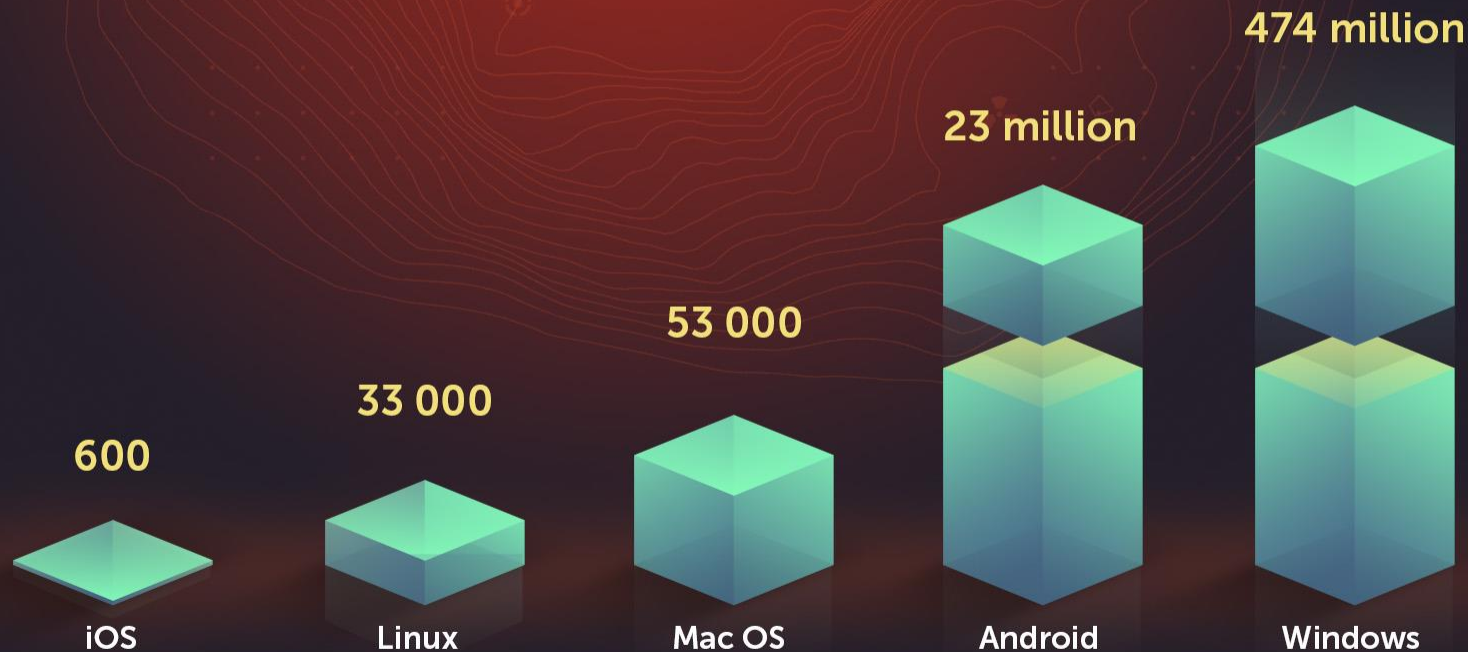
CYBERSPACE

The
SURVIVAL GUIDE

START >

ALL OS'S ARE UNDER ATTACK

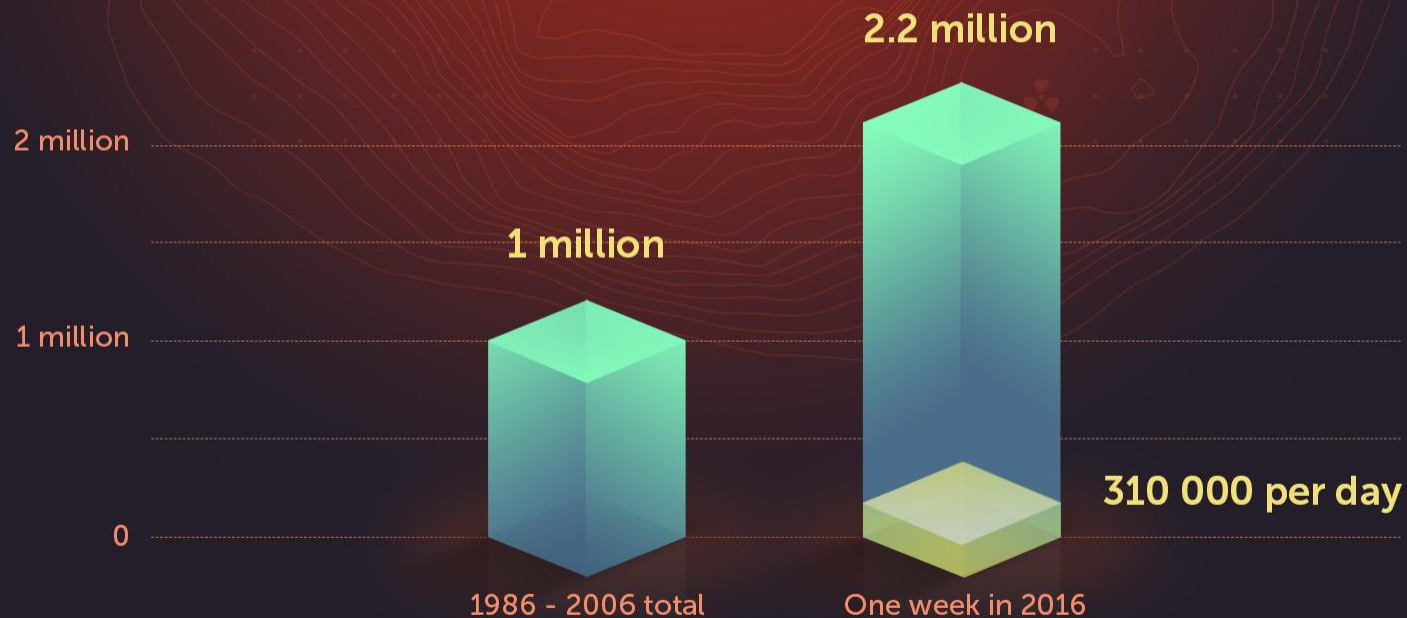
Number of unique malicious files *



* Kaspersky Lab malware database – May 2017

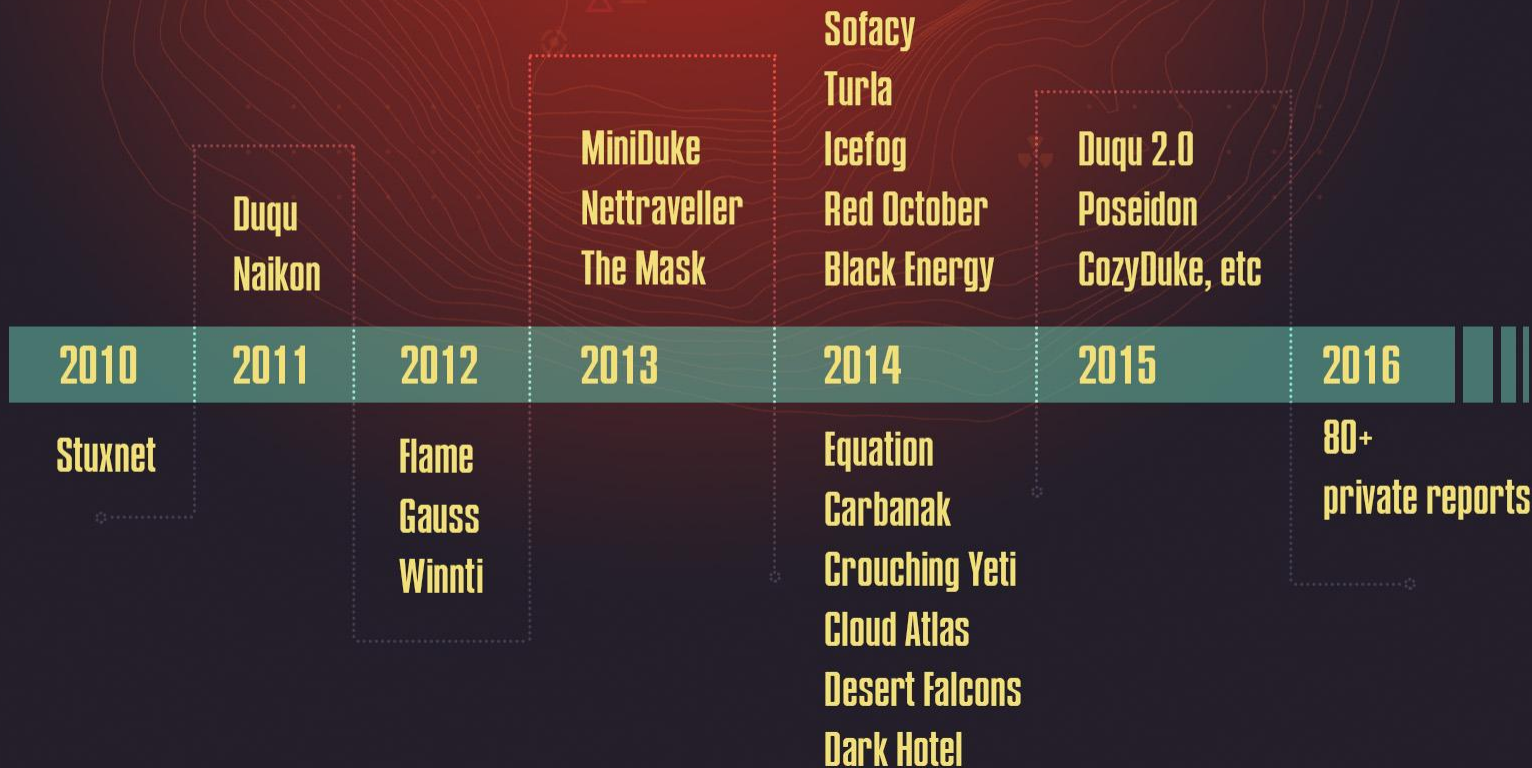
CYBERTHREAT LANDSCAPE

Malware explosion *

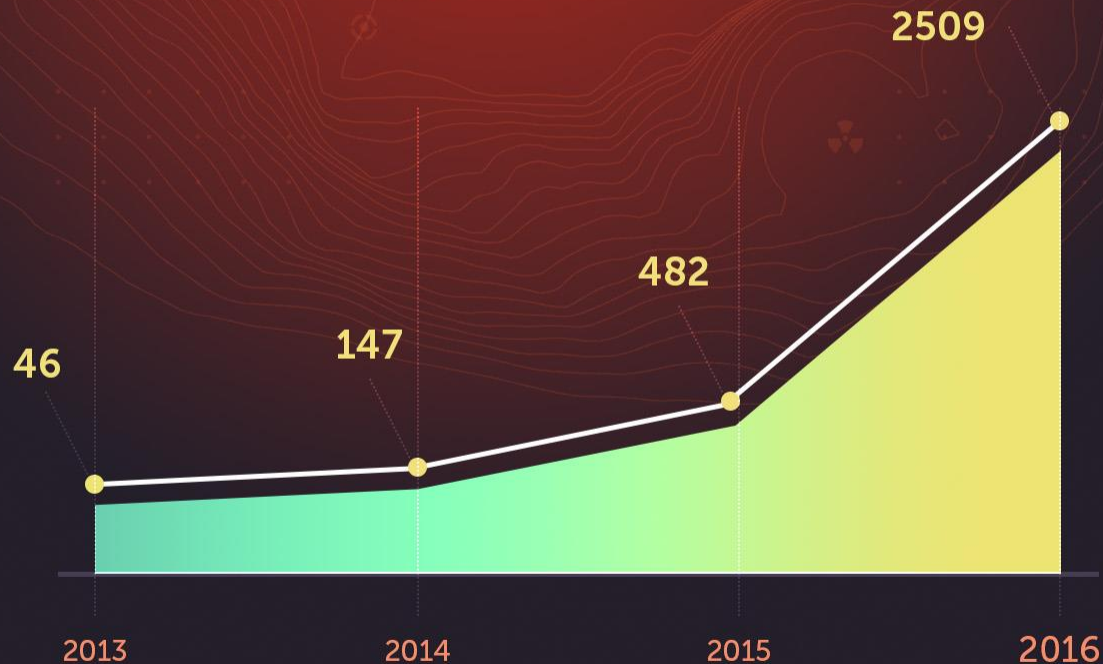


* Kaspersky Lab database

TRACKING 100+ SOPHISTICATED HACKING CAMPAIGNS



NUMBER OF NEW IOT MALWARE SAMPLES*



* Kaspersky Lab malware database

COST OF CYBERCRIME TO GLOBAL ECONOMY



Cybercrime costs the world
\$450 billion* per year

*Hiscox Insurance estimate - <https://kas.pr/iy5o>

**GLOBAL SPACE
BUDGET:**

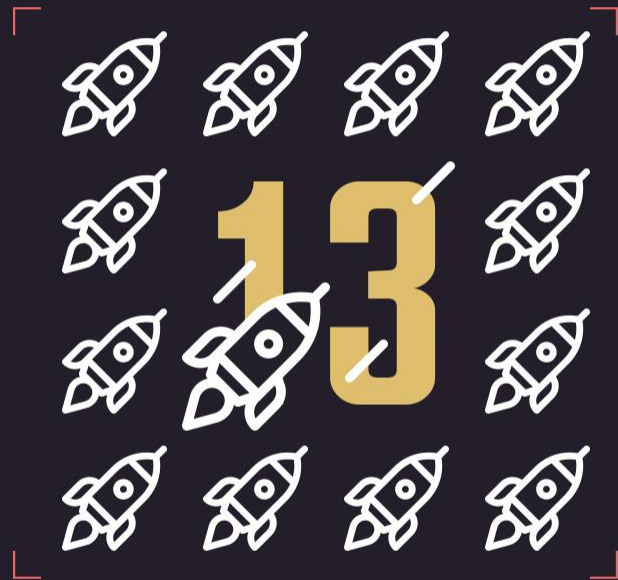
\$33 BILLION



THE COST OF CYBERCRIME

IN GLOBAL SPACE

BUDGETS



ADVANCED CROSS-BORDER FINANCIAL CYBERCRIME

CARBANAK — THE \$1 BILLION BANK HEIST

Infesting bank clerks' computers



Harvesting intelligence

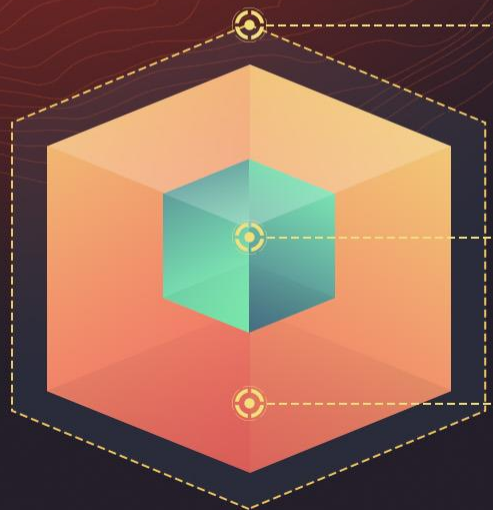


Controlling admin computers



Stealing money

BANGLADESH CENTRAL BANK HEIST



35 transfer orders to the New York Federal Reserve

Four orders, \$81M
Stolen, still missing

31 orders, \$870M
Blocked because of word
'Fandation'

THE INTERNET OF THINGS IS HERE

PCs + smartphones, tablets & IoT in the world (millions)

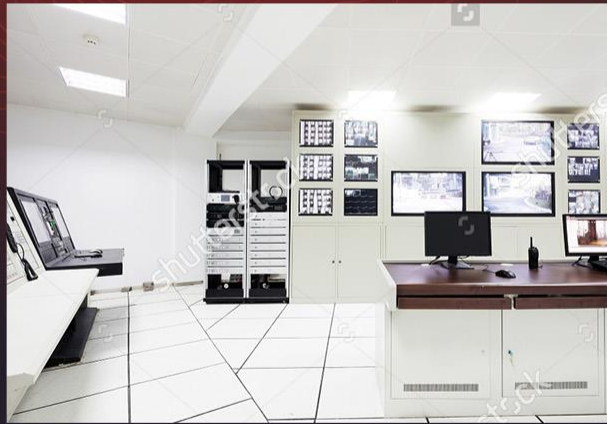


Sources: UN, CIA World Factbook, Eurostat, OECD, local census data, Gartner, Kaspersky Lab analysis

IOT BOTNETS



TRADITIONAL AND ONLINE CRIME GROUPS ARE NOW WORKING TOGETHER



INDUSTRIAL CONTROL SYSTEMS: SCADA

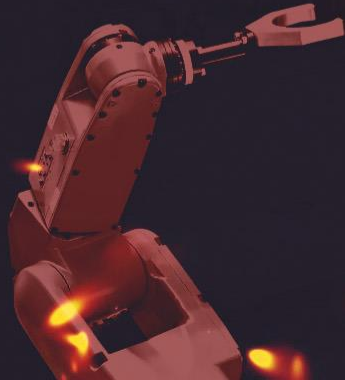
SUPERVISORY

CONTROL

AND

DATA

AQUISITION





U.S. power grid control room: kas.pr/bo3p



Photo from a home brewery forum: <https://kas.pr/1ASZ>

SCADA MAKES MISTAKES TOO



* Source: <https://kas.pr/99fa>



SCADA UNDER CRIMINAL ATTACK

- ▷ NEW 'DIGITAL' CRIMINAL BUSINESS MODELS
- ▷ TARGETS:
 - ▷ MANUFACTURING
 - ▷ TRANSPORTATION



TERRORISM / SABOTAGE

2007

ESTONIA

2010

IRAN, STUXNET

2011

SAUDI ARAMCO

2014

GERMAN STEEL MILL

2015

UKRAINIAN POWER GRID

2016

U.S. / GERMAN HOSPITAL



CRITICAL INFRASTRUCTURE



POWER GRID



TRANSPORTATION



FINANCIAL SERVICES



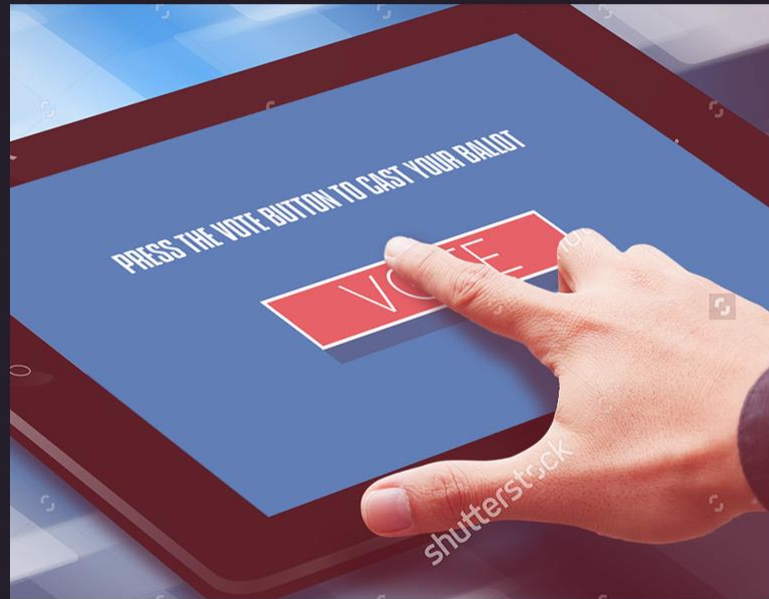
TELECOM

OTHER INFRASTRUCTURE

CRITICAL

INFRASTRUCTURE

**ELECTIONS AND
GOVERNMENT SERVICES**

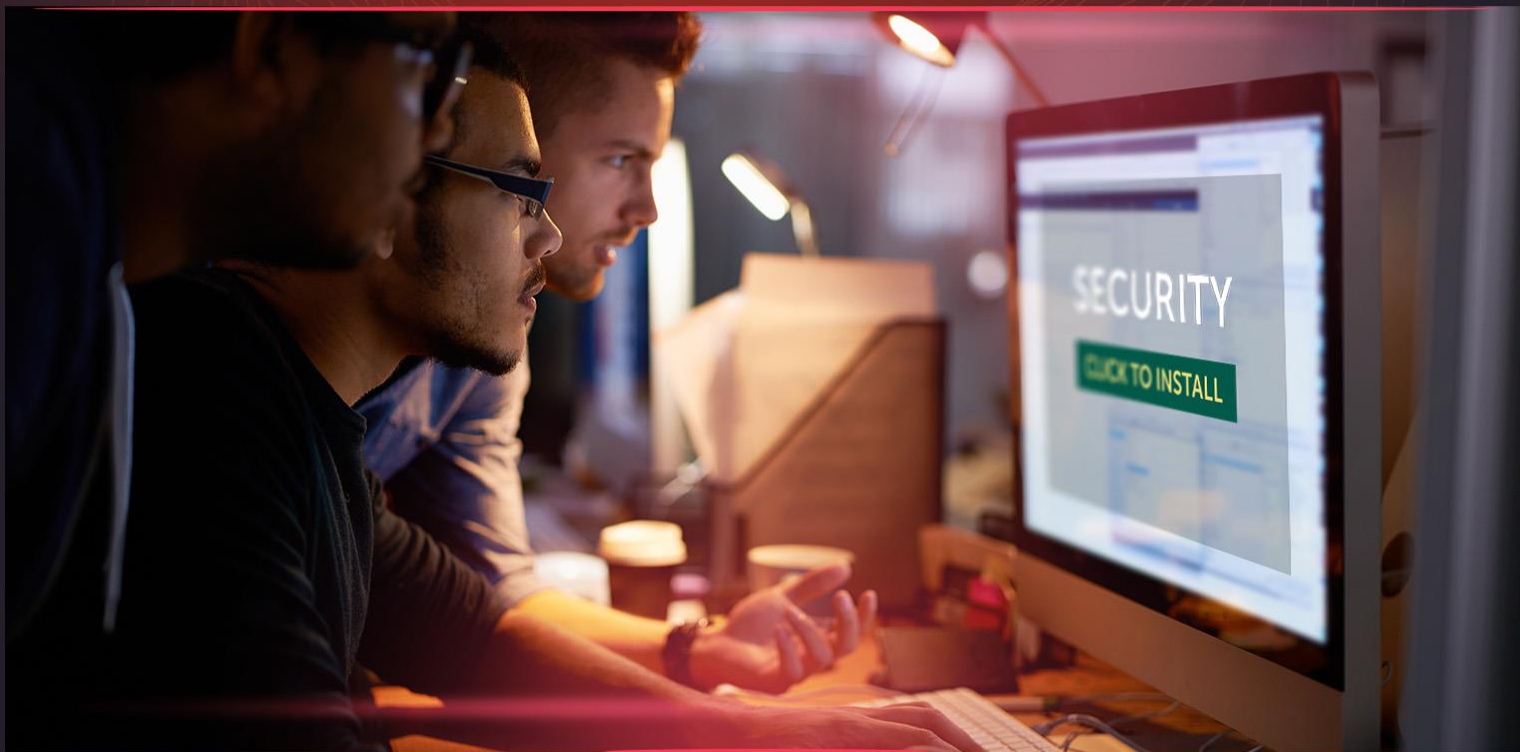


SYSTEMS NEED TO BE SAFE, SECURE AND IMMUNE BY DESIGN

/ SECURE PLATFORM /
/ ARCHITECTURE /
/ APPLICATION /



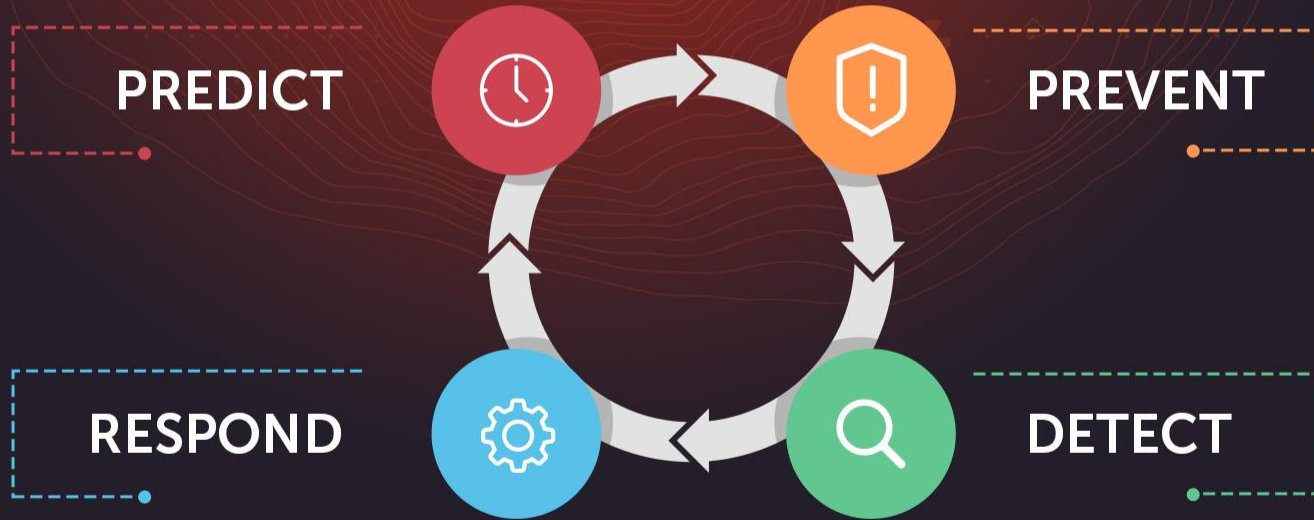
INDIVIDUAL / FAMILY / SMALL BUSINESS



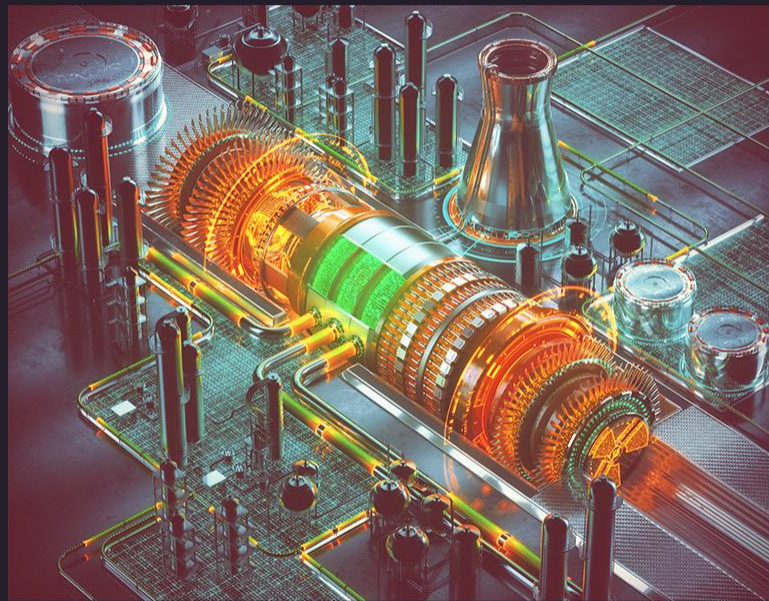
MEDIUM BUSINESS



ENTERPRISE



INDUSTRIAL CYBERSECURITY



IoT SECURITY



WE NEED TO PROTECT EVERYTHING





THANK YOU!

The image features a central red rectangular box with the text "THANK YOU!" in bold, yellow, sans-serif capital letters. The background is a dark, abstract digital landscape. The foreground is composed of a grid of green lines that recede into the distance, creating a sense of depth. In the middle ground, there are two green wireframe mountains. The background is a dark red color with intricate, wavy, topographic-like lines in a lighter red shade. Various small, stylized geometric shapes, including triangles and squares, are scattered throughout the scene, some appearing to be part of the landscape's structure.