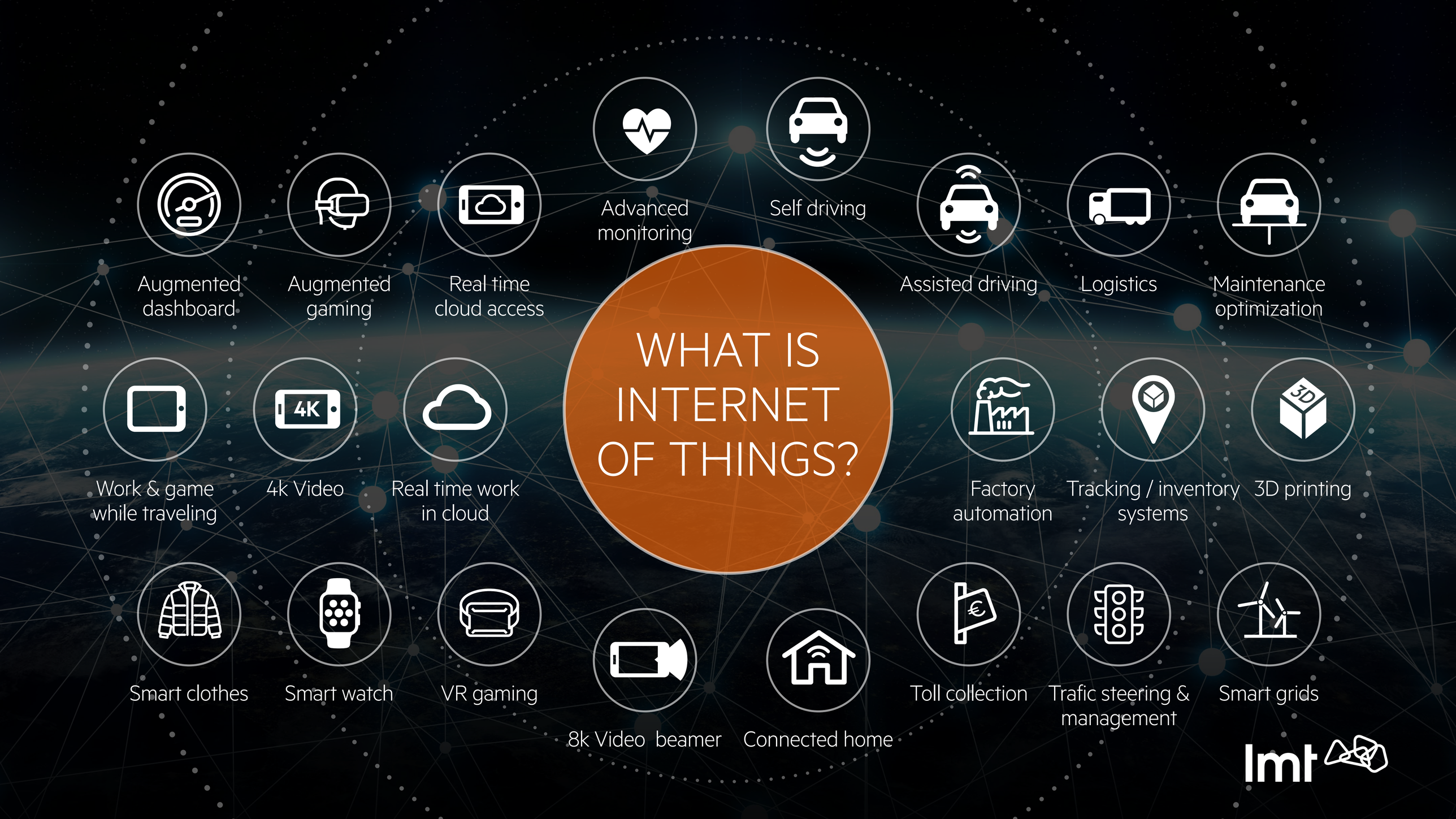
IS YOUR FRIDGE HELPING TO HACK PENTAGON'S SERVERS?

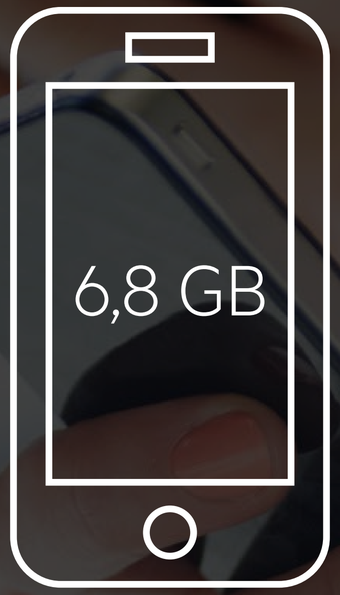

WHAT IS INTERNET OF THINGS?
Advanced monitoring
Self driving
Augmented dashboard
Augmented gaming
Real time cloud access
Assisted driving
Logistics
Maintenance optimization
4K
Work & game while traveling
4k Video
Real time work in cloud
3D
Factory automation
Tracking / inventory systems
3D printing
Smart clothes
Smart watch
VR gaming
8k Video beamer
Connected home
Toll collection
Trafic steering & management
Smart grids
lmt

THERE ARE ALREADY BILLIONS OF CONNECTED “THINGS”

SOURCE: GARTNER, 2017

TOP 3 WORLDS LEADERS IN THE MOBILE DATA CONSUMPTION PER SIM CARD IN A MONTH

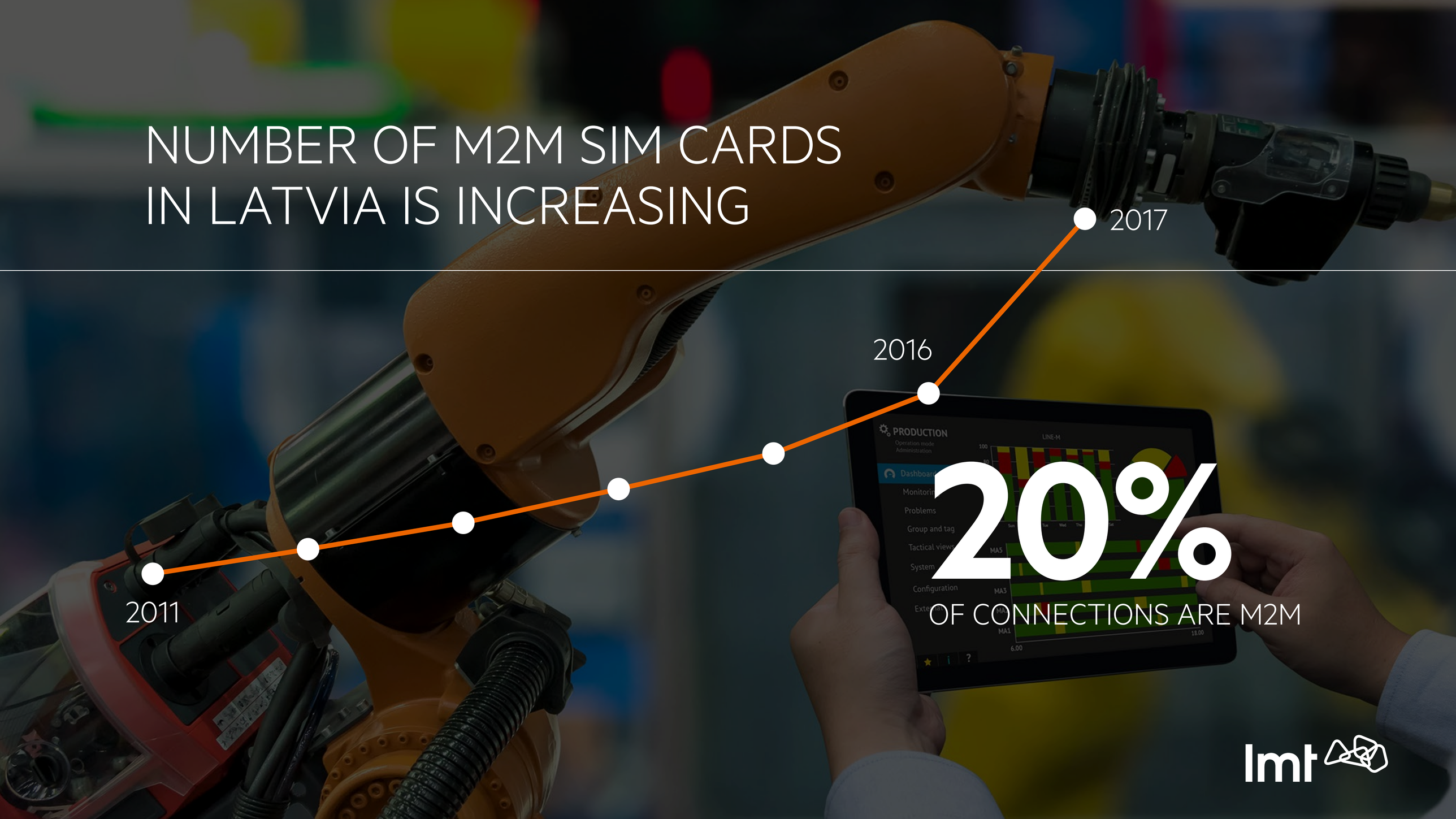
FINLAND



TAIWAN

LATVIA

NUMBER OF M2M SIM CARDS IN LATVIA IS INCREASING



20%

OF CONNECTIONS ARE M2M

lmt

HISTORY OF MALICIOUS IoT PROGRAMS

2008

HYDRA

The first malware program targeting IoT devices

2014

GAFGYT

An IRC backdoor capable of scanning IP ranges to find vulnerable devices

2015

TROJAN.LINUX.PNSCAN

A Trojan infecting vulnerable devices with the Tsunami backdoor

2016

MIRAI

and its clones Hajime, Remaiten, and Moose.

2017

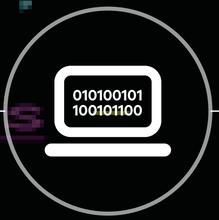
BRICKERBOT

A bot infecting IoT devices and rendering them inoperable

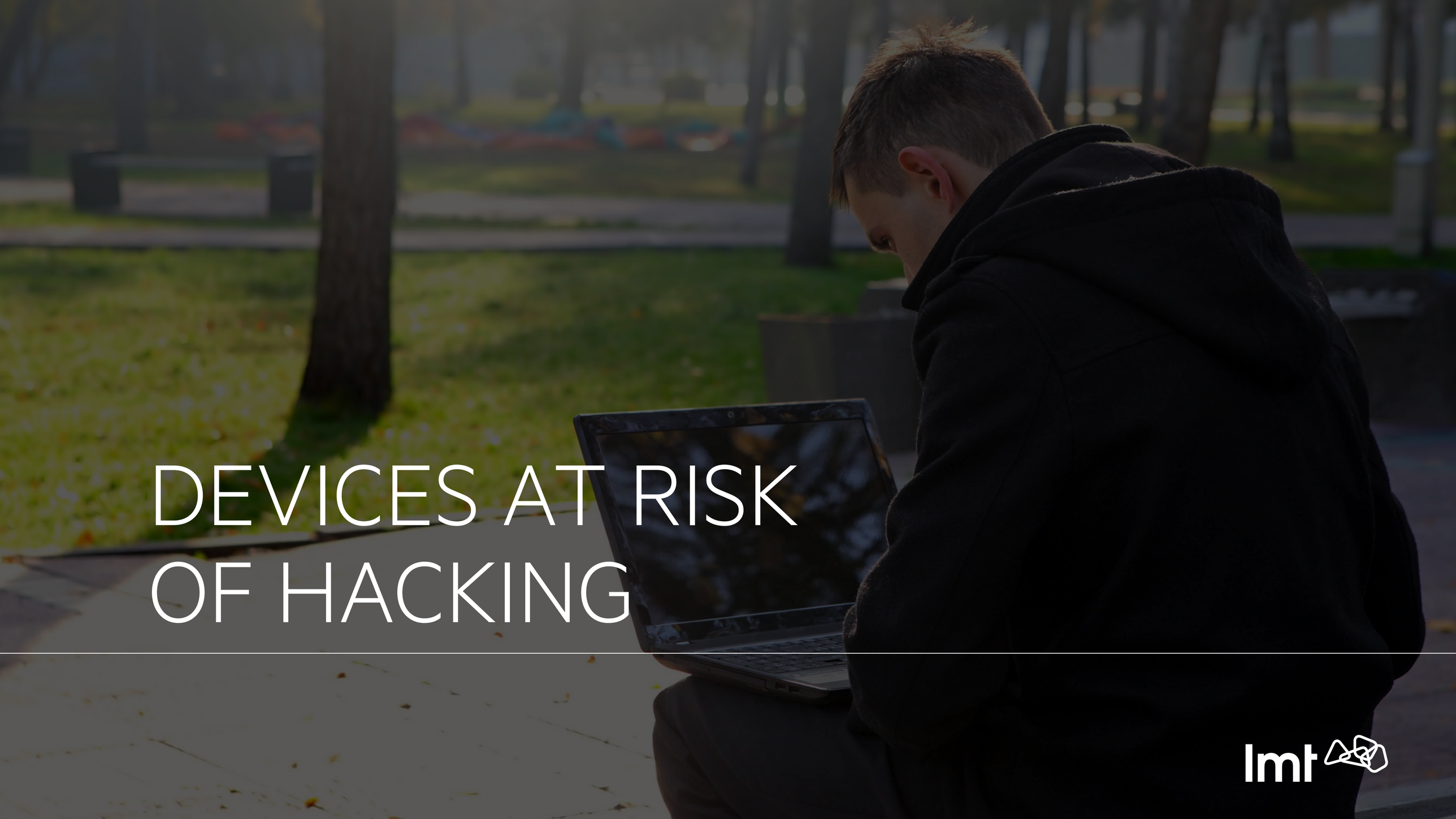
Imt

MIRAI IS ALIVE. NON-PATCHED DEVICES AND DEVICES WITH DEFAULT PASSWORDS STAY VULNERABLE

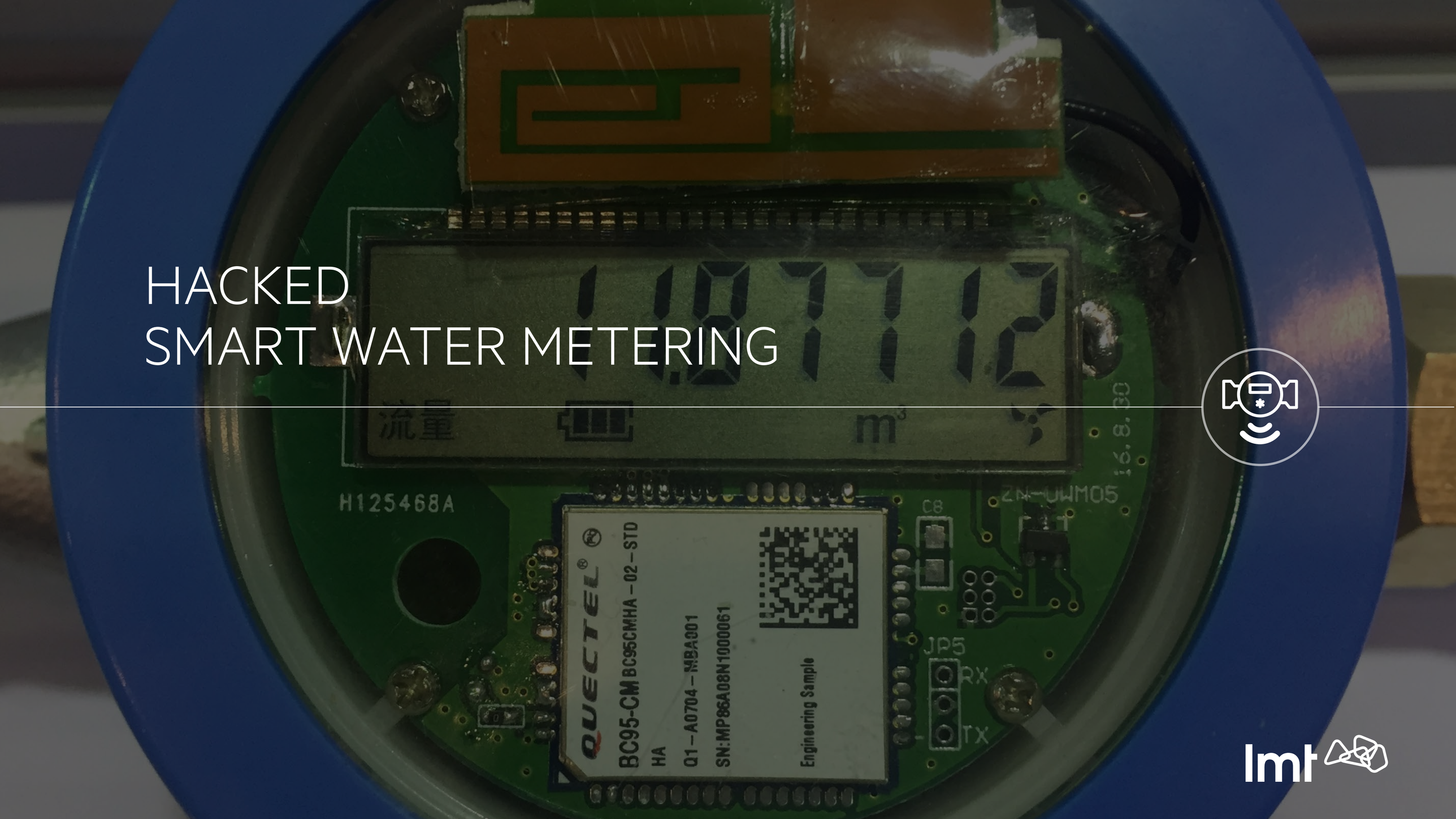
ABOUT 6.7 MILLION BOTS JOINED THE GLOBAL MIRAI BOTNET IN 2016



Europe made up nearly one-fifth of the world's total bot population



DEVICES AT RISK OF HACKING



HACKED
SMART WATER METERING

Imt

HACKED DRONES

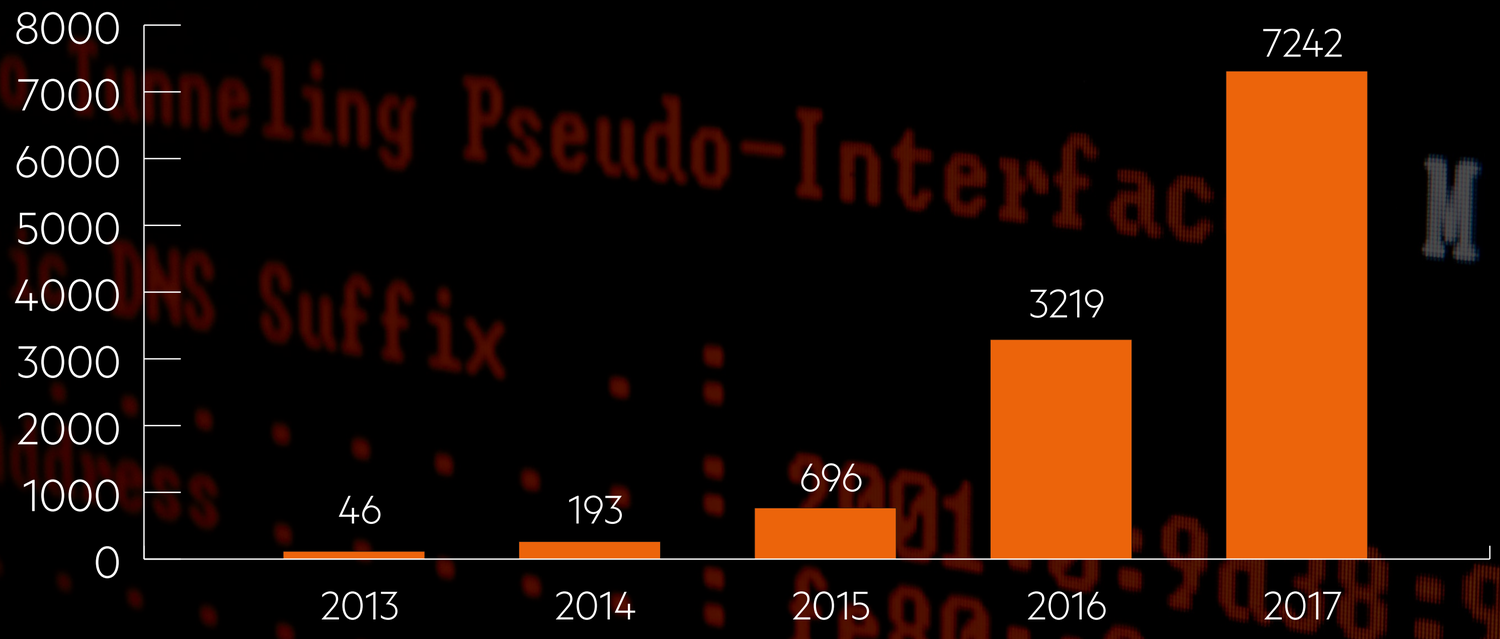
HACKED TRAFFIC LIGHTS

HACKED
MEDICAL DEVICES

HACKED
SELF-DRIVING CARS
KWP 031
CAMERA
LEAVE
AUTO
Your destination
Berlin
Distance to destination
12 Km
lmt

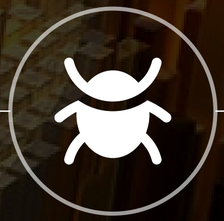
HACKED
CRITICAL INFRASTRUCTURE

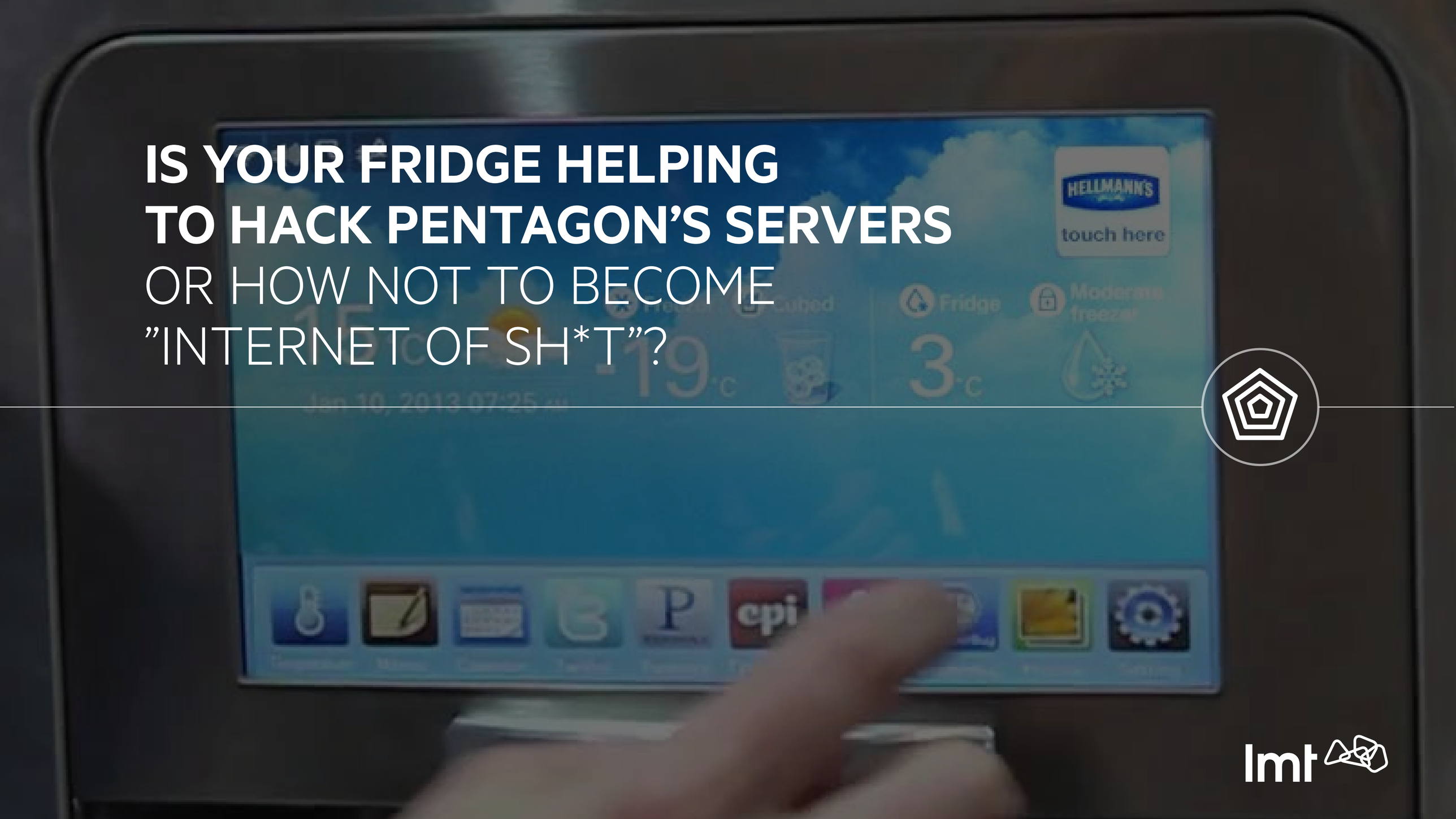
KASPERSKY LAB'S – AMOUNT OF DIFFERENT MALWARE SAMPLES FOUND FOR IoT DEVICES



SOURCE: KASPERKY LABS, 2017

WORLD'S LARGEST BITCOIN EXCHANGE BITFINEX CRIPPLED BY DDOS ATTACK



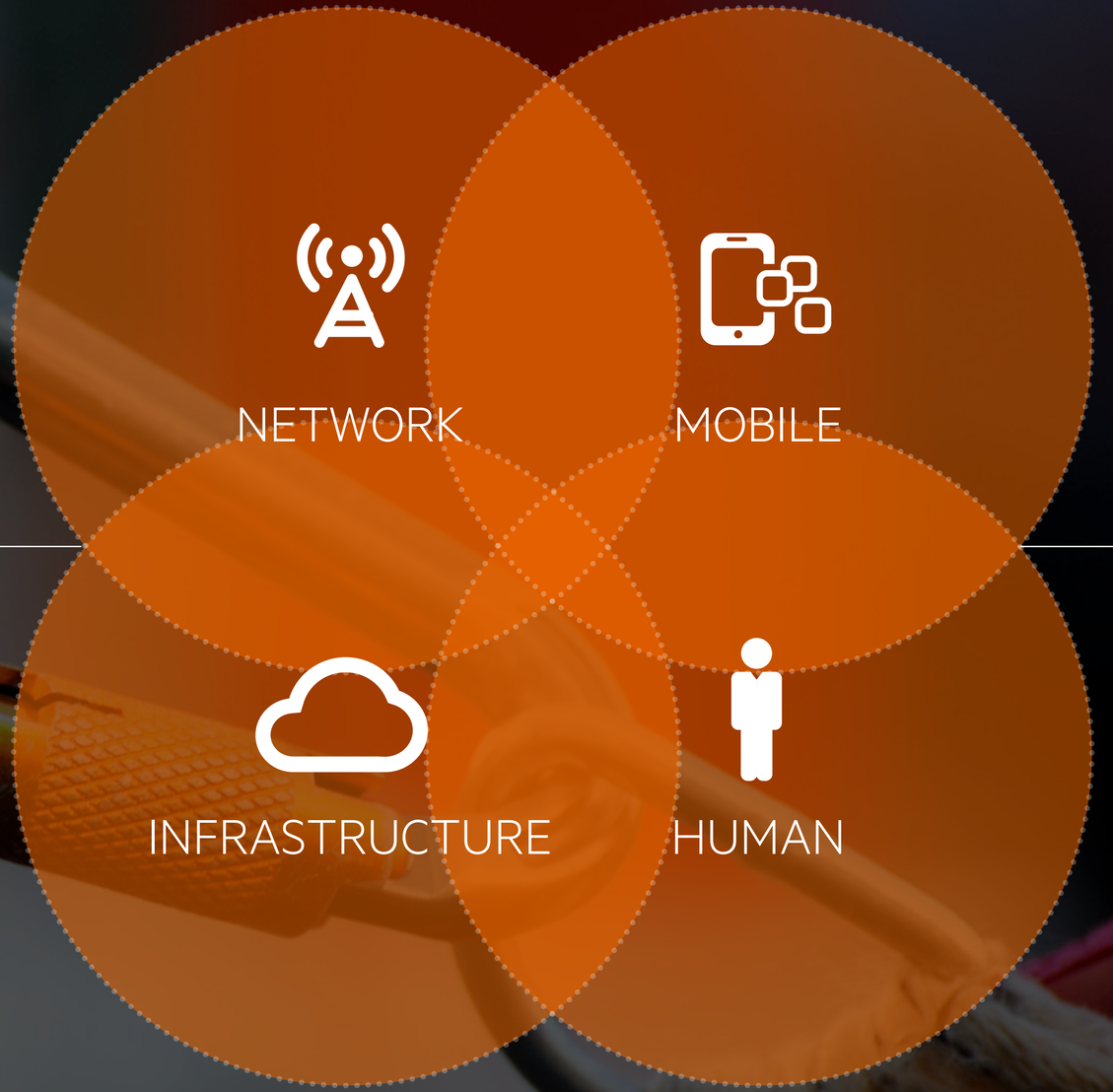


IS YOUR FRIDGE HELPING TO HACK PENTAGON'S SERVERS

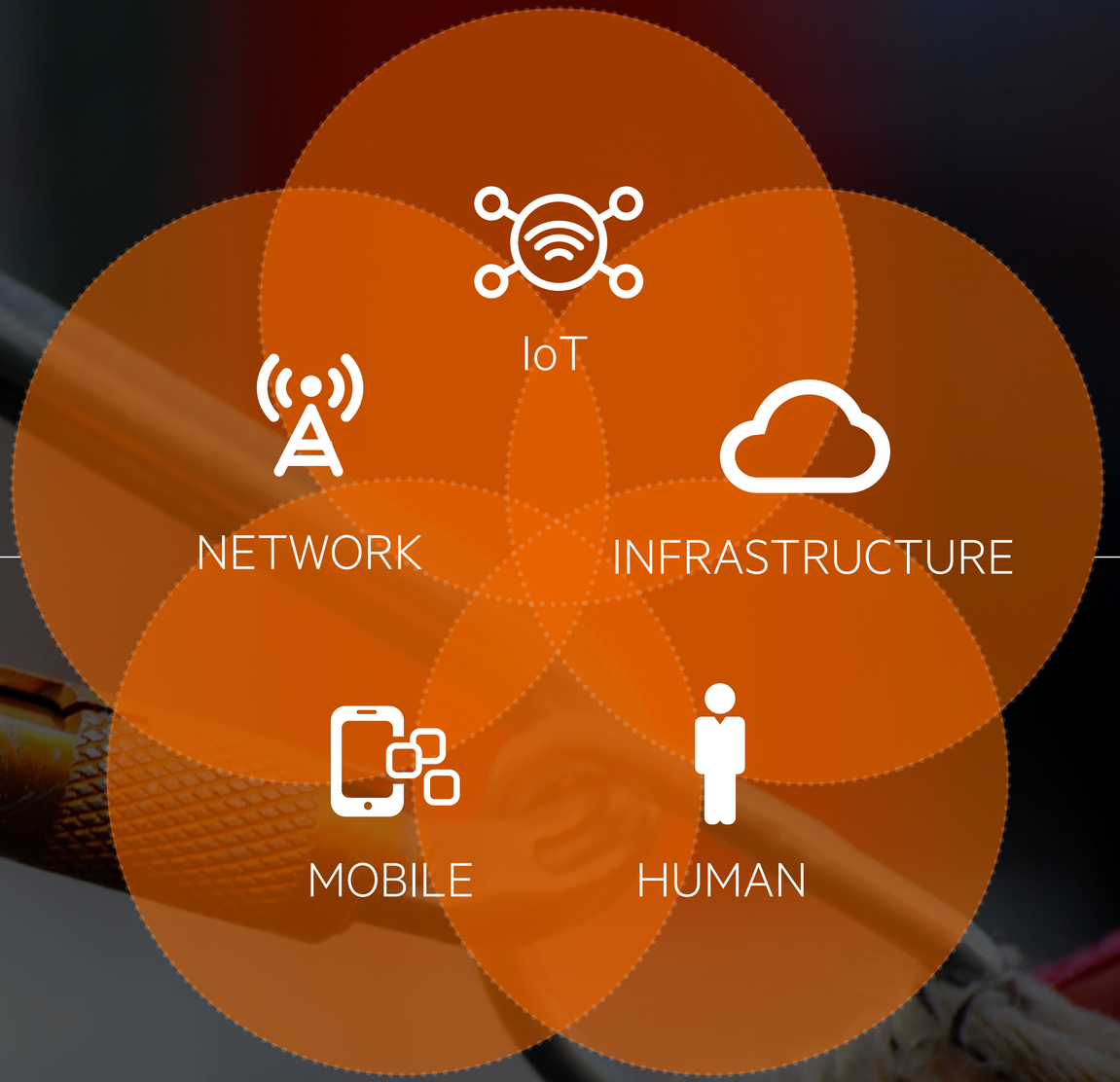
OR HOW NOT TO BECOME "INTERNET OF SH*T"?

lmt

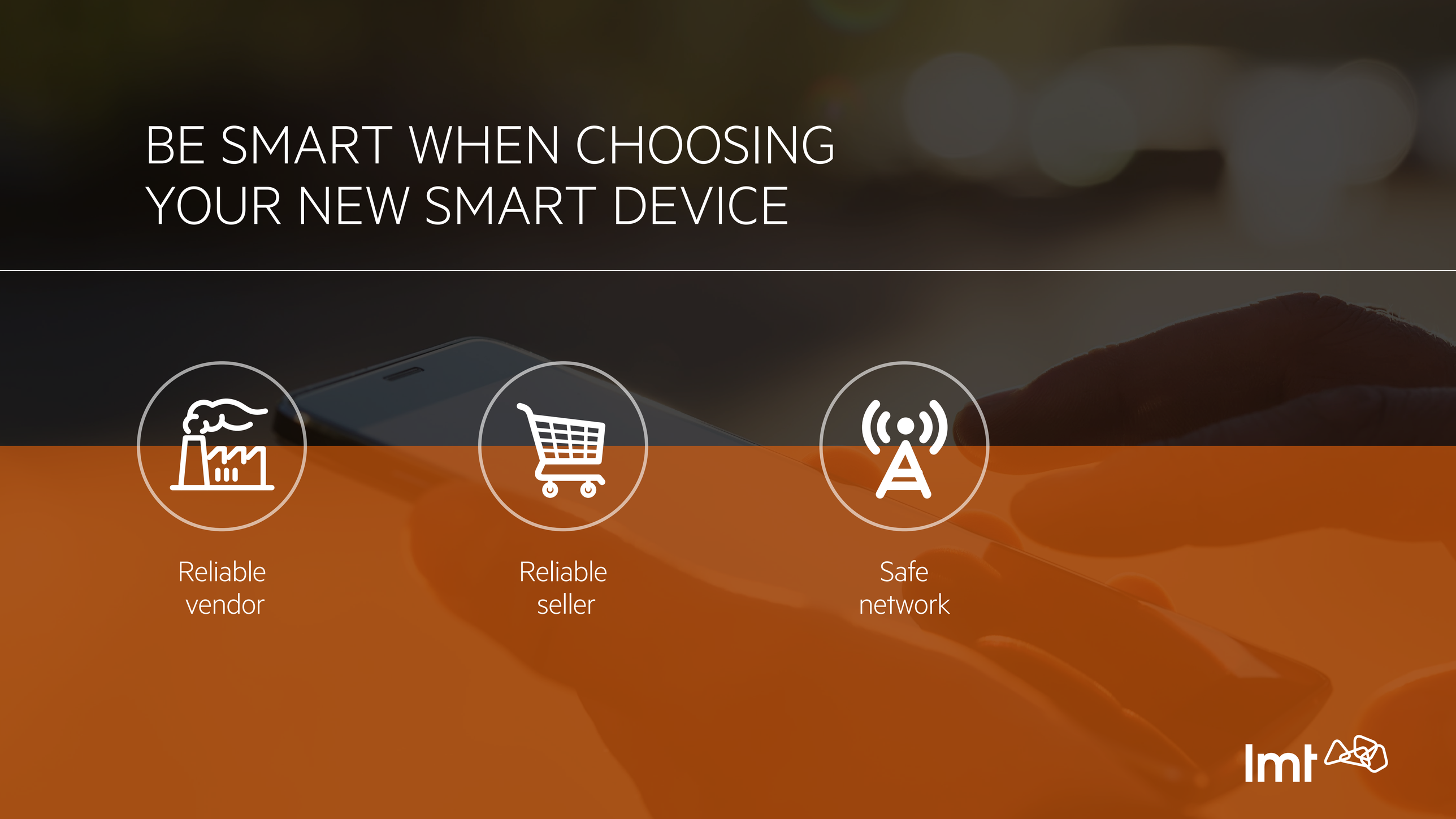
A SYSTEM IS ONLY AS STRONG AS ITS WEAKEST LINK



A SYSTEM IS ONLY AS STRONG AS ITS WEAKEST LINK



BE SMART WHEN CHOOSING YOUR NEW SMART DEVICE



Reliable vendor

Reliable seller

Safe network

WHAT CONSTITUTES SECURE IoT USE?

Secure data processing node

Secure IoT system management

SECURITY MANAGEMENT

IoT project

Risk Analysis

Risk Monitoring

Risk Management

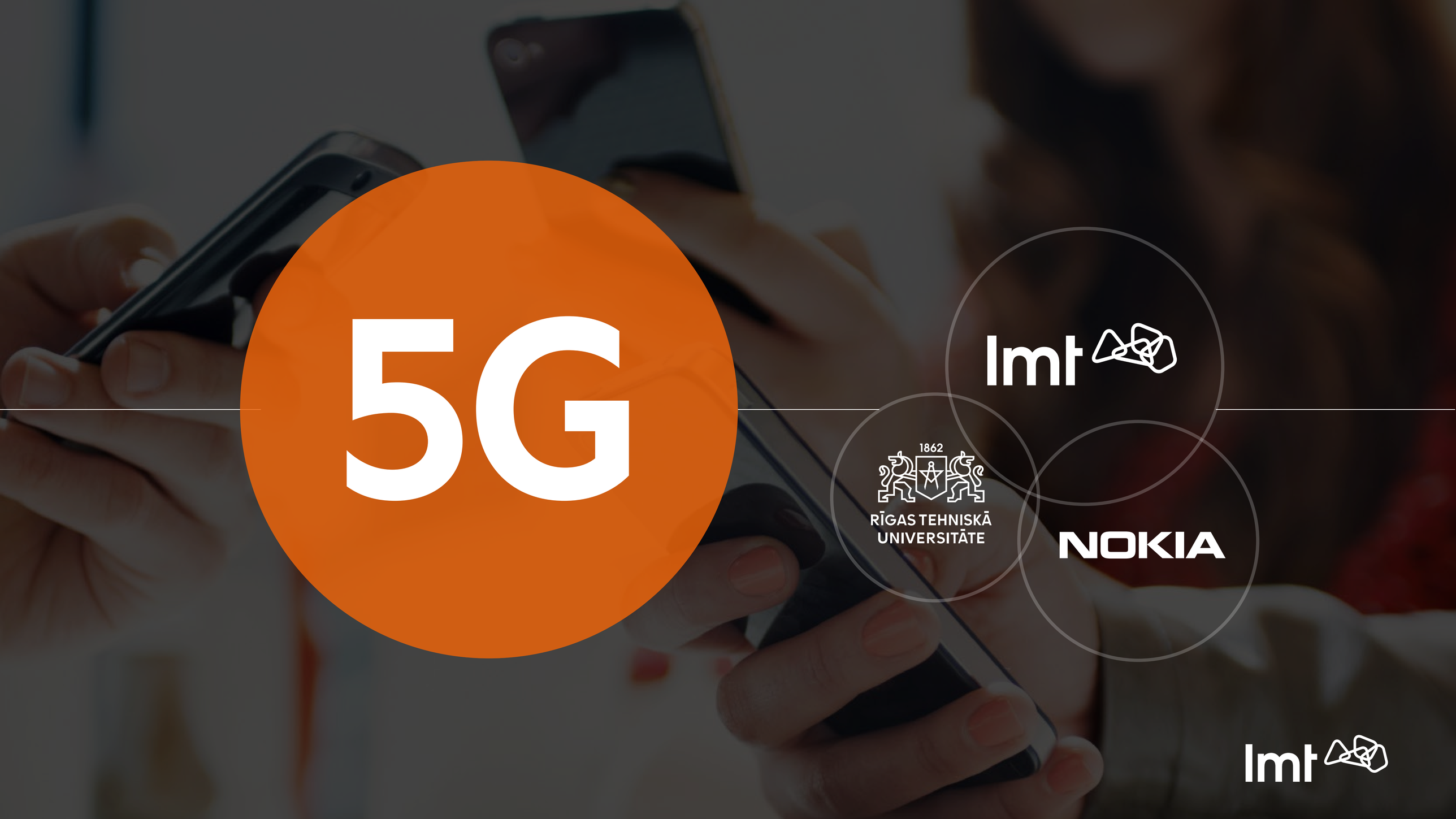
LMT SOLUTIONS

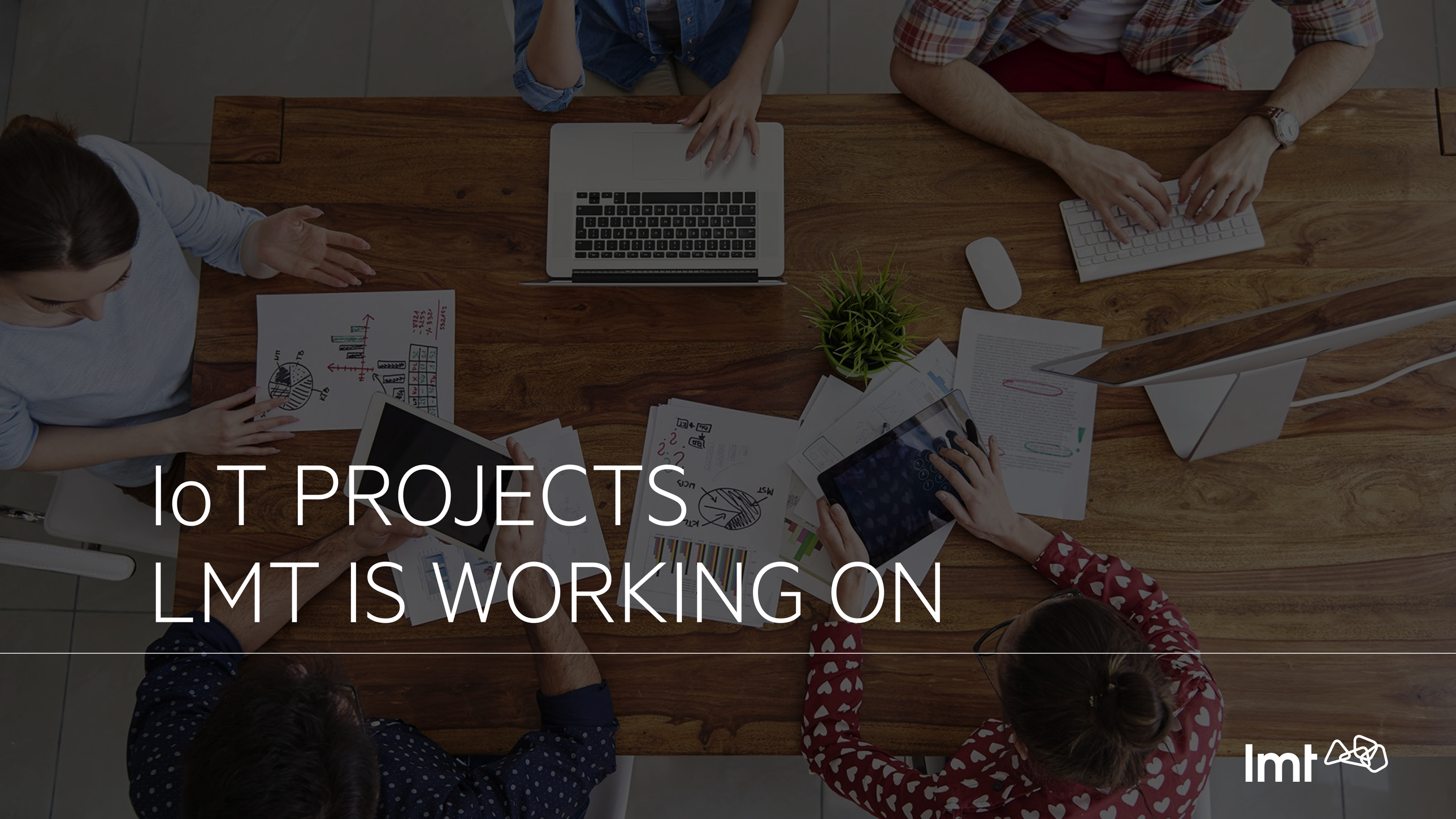
NB IoT

Special
IoT channel

Private APN

Mobile device
management


5G
lmt
1862
RĪGAS TEHNISKĀ
UNIVERSITĀTE
NOKIA
lmt



IoT PROJECTS LMT IS WORKING ON

SELF-DRIVING CARS

lmt straume

lmt

DRONES

SMART CITY SOLUTIONS

#VIEDSARGS

Defence projects for Latvia

#VIEDSARGS / Defence projects for Latvia

Secure information platform

+

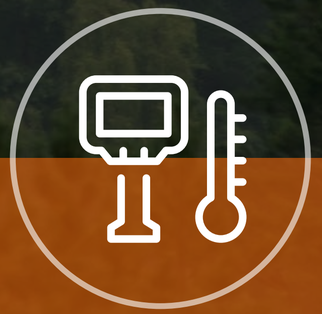
Internet of Battlefield Things

INTERNET OF BATTLEFIELD THINGS

Acoustic ground sensors

Mobile surveillance cameras

Location sensors



Thermal camera video

MOBILE CYBERRANGE

BUILDING TOGETHER SECURE IoT SOLUTIONS