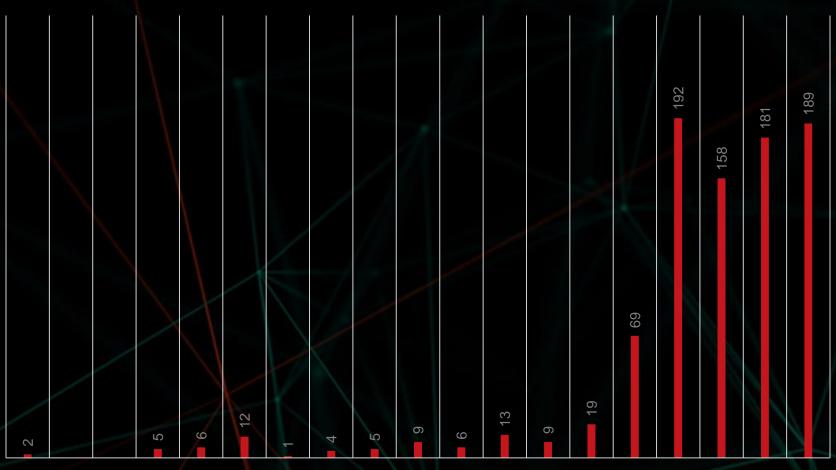




#### **IDENTIFIED VULNERABILITIES**

■ Number of vulnerabilities

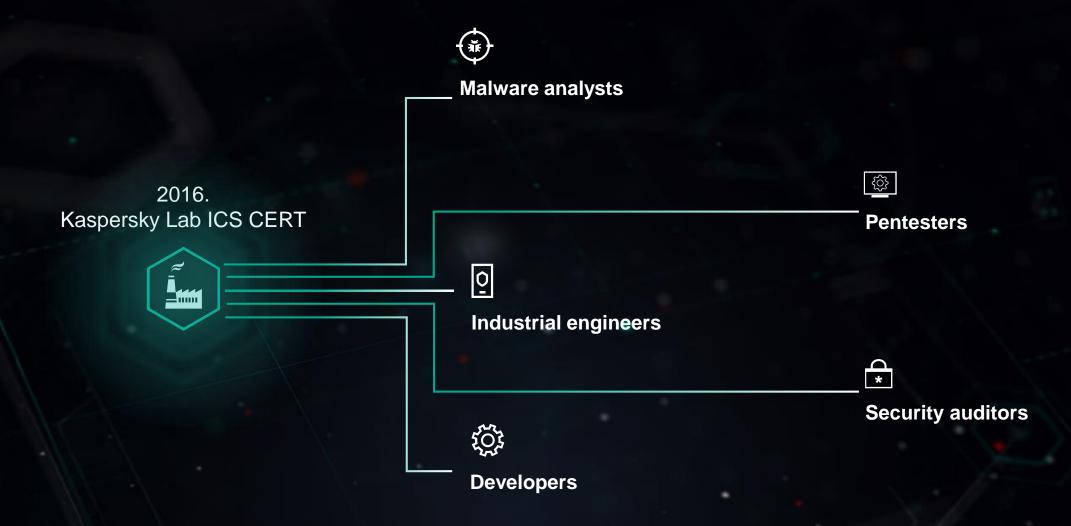


1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015





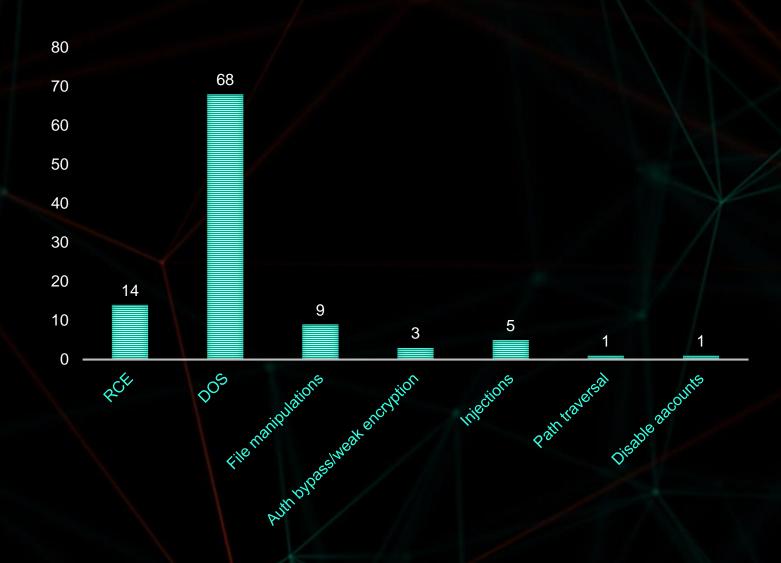
## **KL ICS CERT structure**



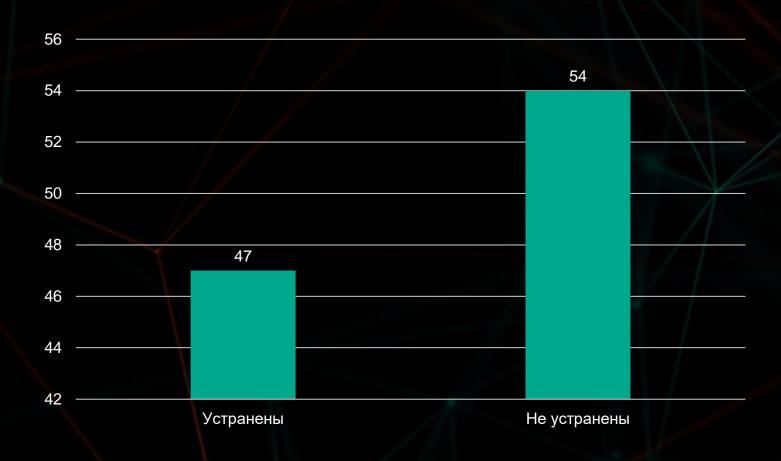
### **Activities**



# **Vulnerability Research Statistics**



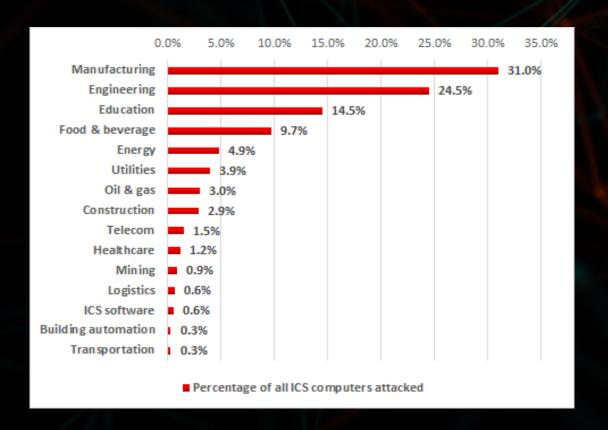
# Patched?



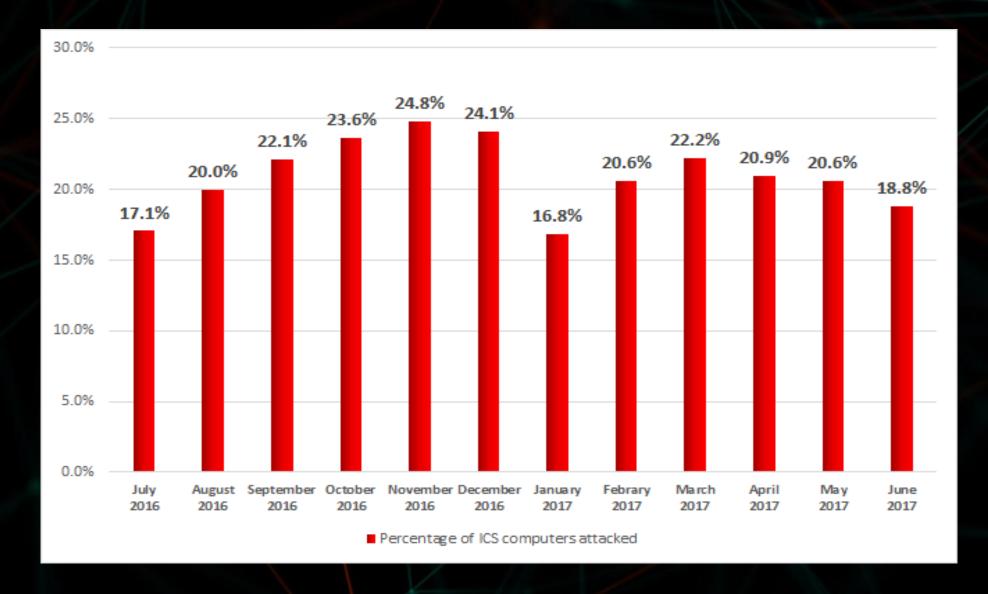
## **Industry statistics**

 Every 3<sup>rd</sup> ICS computer under attack was in manufacturing companies

ICS computers in manufacturing companies that produce various materials, equipment and goods accounted for about one third of all attacks



## **Monthly Statistics**



# Geographical Distribution of Attacks on Industrial Automation Systems

• TOP 5 countries
Vietnam (71.0%)
Algeria (67.1%)
Morocco (65.4%)
Indonesia (58.7%)
China (57.1)



## Ransomware nightmare

- 0.5% of computers

   in the industrial infrastructure of organizations were attacked by encryption ransomware at least once.
- ICS computers in 63 countries across the globe were under numerous encryption ransomware attacks
- 33 different families of encryption ransomware were blocked on ICS computers



#### **WANNACRY**

13.4% of all computers in industrial infrastructure attacked

The most affected organizations included healthcare institutions and government sector



#### **EXPETR**

at least 50% of the companies from manufacturing, and Oil&Gas industries attacked

#### Source of infection

- Internet the main source of threats
- Field statistics: 3<sup>rd</sup> party contractors can cause a damage
- 18,000 different modifications of malware belonging to more than 2,500 different families

