

## Products Included in our solution

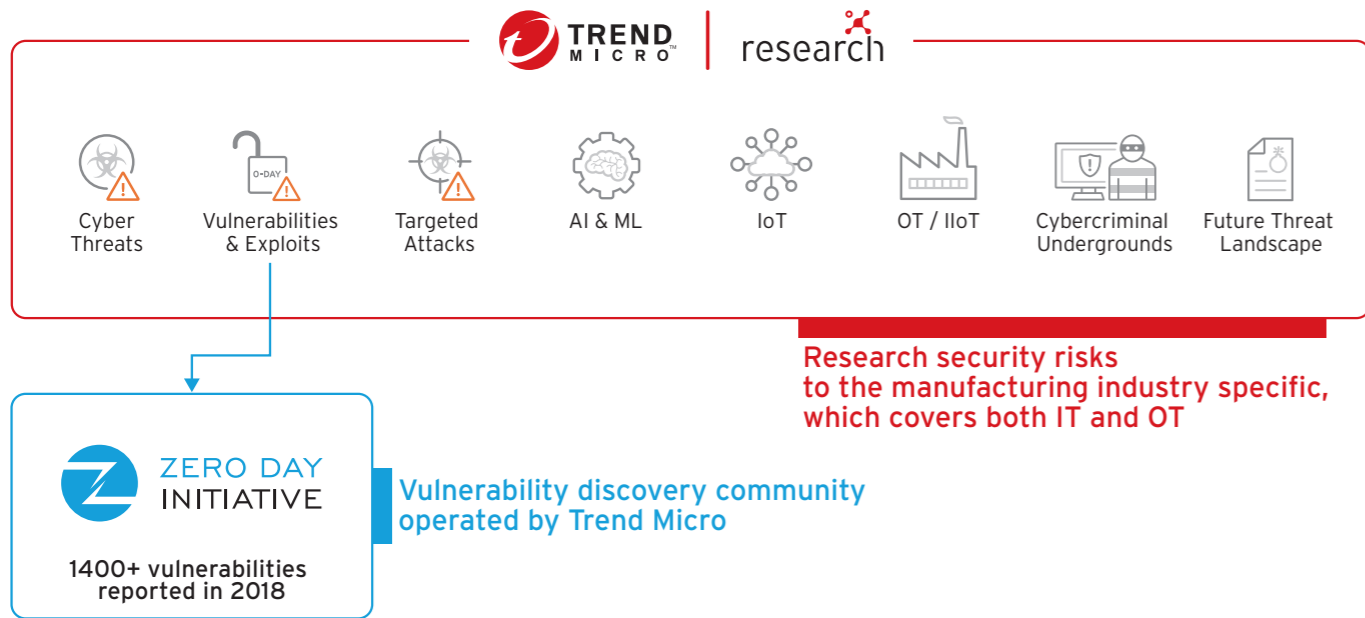
Prevention	Trend Micro™ TippingPoint Threat Protection System™	Intrusion prevention system
	Trend Micro IoT Security™	Built-in agent security for IoT devices
Detection	Trend Micro™ Deep Discovery™ Inspector	Threat visualization and early detection
	Trend Micro™ Deep Security™	Unified server security
Persistence	EdgeFire™	Industrial firewall
	EdgeIPS™	Industrial IPS
	Trend Micro Safe Lock™ TXOne Edition	System lockdown software
	Trend Micro Portable Security™ 3	Virus scan and clean-up tool without installation
	OT Defense Console™	Industrial central management console

# Security Solutions for Smart Factories

Keep operations running



## Threat intelligence supporting our solutions



<https://www.trendmicro.com/smartfactories>



## Operational stoppage risks due to cyberattacks



**Risk 1** Stoppage of manufacturing system due to virus infection



**Risk 2** Equipment damage due to system malfunction



**Risk 3** Production of defective products due to malfunction of equipment

# Convergence of IT and OT: Protecting interconnected systems to improve efficiency.

Smart factories aim to improve production efficiency by using industrial IoT (IIoT) technologies and integrating with business systems. However, its adoption expands the attack surface, which benefits cyber attackers and increases the risk of operation stoppages. This makes foresight-driven IIoT security essential to smart factories.

## Security challenges faced by smart factories

### Low visibility



There may be cases where there is no appropriate visibility from a security perspective. Therefore, if there is a vulnerable device, effective and timely patching cannot be applied.

### Unpatched devices



You may have to wait for a planned outage. As a result, patches cannot be applied even if the device is known to be vulnerable.

### Weak authentication



There are devices that can be accessed without authentication. If it is used, a malicious actor may be able to operate a critical device.

## Trend Micro security solutions for smart factories

### “Fortification of manufacturing system” approach:

Layer-by-layer protection using IT security and OT security

