

# In-vehicle security software innovations that can ensure safety for cockpit systems and vehicles

**Panasonic**  
AUTOMOTIVE

## Automotive Cybersecurity VERZEUSE®

Protecting vehicles from cyber attacks and making a difference in safe and secure mobility

### »Benefits

- **Enhance vehicle cybersecurity resilience** to maintain continuous vehicle operation during cyber attacks
- **Optimize security integration for virtualized environments** of next-generation cockpit system to enable continuous security monitoring

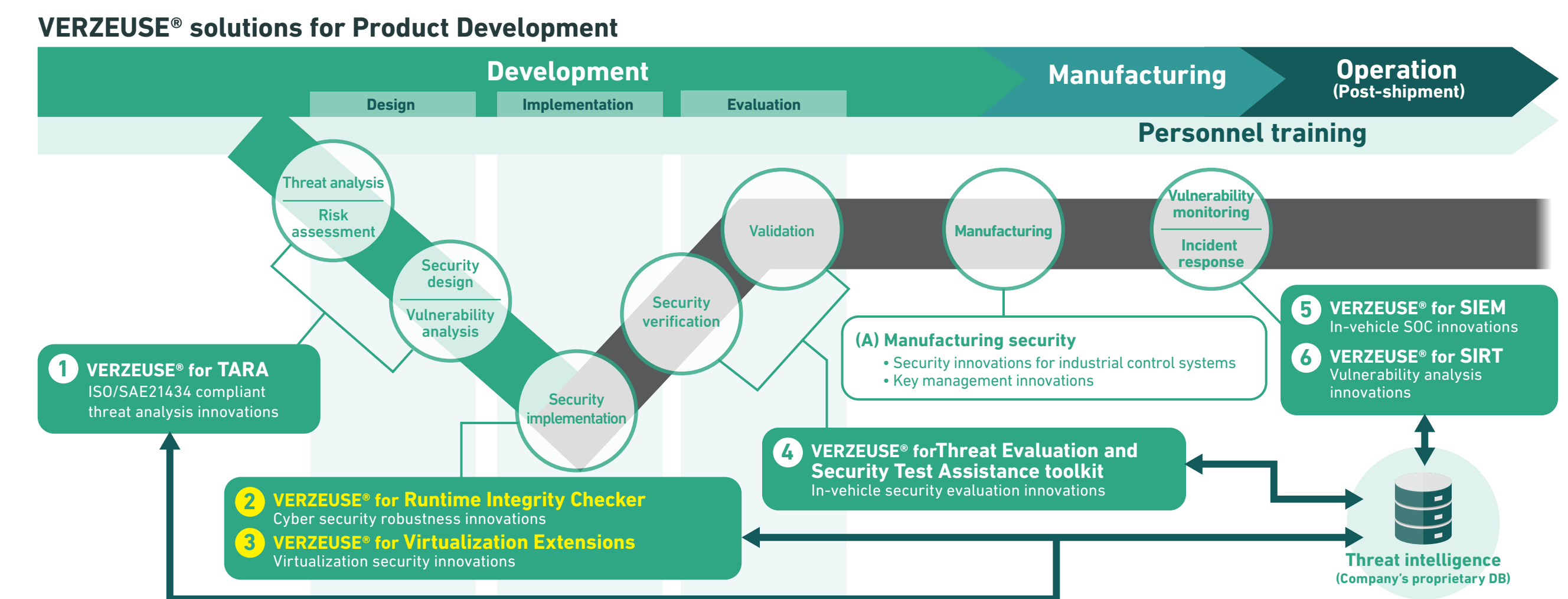
### »Technical Advantage

- Using our patented solutions, **monitor and protect applications and inter-application communications** across containers and virtual machines against cyber attacks such as tampering and unauthorized command
- Enable **secure integration of customizable security plugins** including third-party extensions

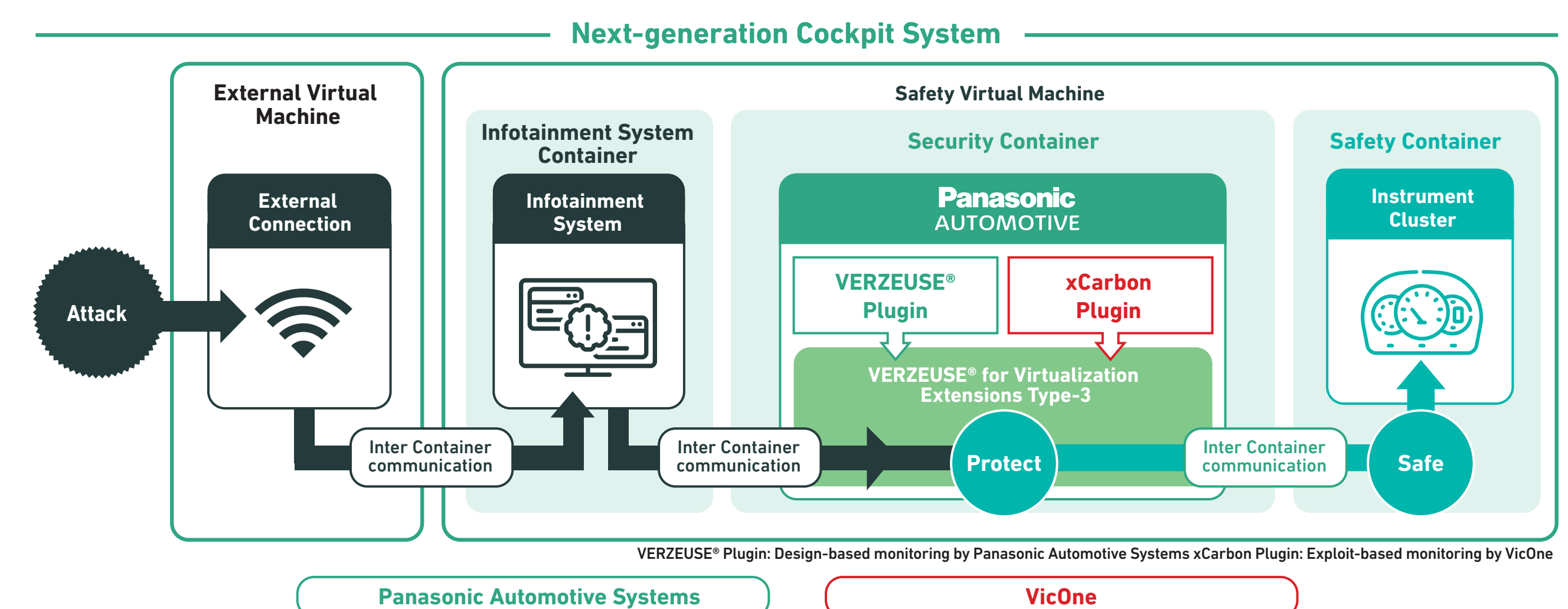
### »Application

- **VERZEUSE® for Runtime Integrity Checker:** Continuously verifies service and application integrity by checking volatile memory from trusted Secure OS based on root of trust
- **VERZEUSE® for Virtualization Extensions:** Efficiently monitors and controls unauthorized communications with modules such as VicOne's xCarbon

xCarbon: Intrusion Detection System (IDS) by VicOne.



We provide comprehensive VERZEUSE® solutions throughout the product lifecycle by integrating our advanced security tools and technologies.



VERZEUSE® for Virtualization Extensions and VicOne's xCarbon protect safety functions, such as the instrument cluster, against attacks from external networks