NXP SEMICONDUCTORS

CORPORATE OVERVIEW
DECEMBER 2015

SECURE CONNECTIONS
FOR A SMARTER WORLD

ACCELERATING TECHNOLOGY TRENDS DRIVE OPPORTUNITIES FOR NXP

Secure Connections for a **Smarter World**
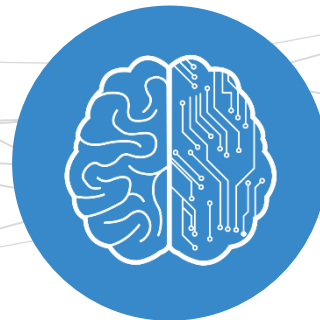
Everything **Connected**

1B+ additional consumers online, **30B+** connected devices

Connectivity

Everything **Smart**

40B+ devices with intelligence shipped in **2020**

Processing

Everything **Secure**

Potential savings to economy up to **half trillion dollars**

Security

NXP

SECURE CONNECTIONS
FOR A SMARTER WORLD

EXPANDED SOLUTIONS FOR CUSTOMERS

freescale™

#1 Communications Processors
#1 RF Power Transistors
#1 Automotive Radar
#1 Automotive Safety[2]
#2 MCUs

NXP

#1
COMMUNICATIONS
PROCESSORS

#1
BROAD-BASED
MCUs[1]

#1
SECURE
IDENTIFICATION

#1
AUTOMOTIVE

#1
RF POWER
TRANSISTORS

#1
SMALL SIGNAL
DISCRETES

NXP

#1 Secure Identification
#1 Car Entertainment
#1 In-Vehicle Networking
#1 Secure Car Access
#1 Smart Card MCUs
#1 Small Signal Discretes

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SECURE CONNECTIONS
FOR A SMARTER WORLD

A NEW POSITION OF STRENGTH

freescale™

✓ **50+** year history
✓ **17,300** employees
✓ **$4.59b** in revenue
✓ **$839m** in R&D

NXP

>$10B
IN ANNUAL
REVENUE

~45,000
EMPLOYEES

35+
COUNTRIES

11,000+
ENGINEERS

9,000+
PATENT
FAMILIES

4th Largest
SEMICONDUCTOR
COMPANY
GLOBALLY[1]

NXP

✓ **50+** year history
✓ **28,000** employees
✓ **$6.03b** in revenue
✓ **$723m** in R&D

Note:
1.   All financial figures are based on trailing twelve month reported information; R&D expense are non-GAAP

NXP SECURE CONNECTIONS
FOR A SMARTER WORLD

DEVELOPING SOLUTIONS CLOSE TO WHERE OUR CUSTOMERS AND PARTNERS OPERATE

EMEA

AMERICAS

ASIA PAC

HEADQUARTERS
EINDHOVEN, NETHERLANDS

R&D

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SECURE CONNECTIONS
FOR A SMARTER WORLD

FOCUSING NXP SOLUTIONS ON HIGH GROWTH MARKETS

Secure, Connected Vehicle

- ADAS: Radar, V2X, Vision, Fusion, network processor
- Car entertainment
- In-vehicle networking
- Secure car access
- Secure car

End-to-end Security & Privacy

- Mobile transactions
- E-Government
- Smart bank cards
- User authentication
- Embedded security
- Cloud & Infrastructure Security

Smart, Connected Solutions

Consumer

- Mobile audio
- High-speed Interfaces
- Smartphone RF
- Personal health & fitness
- Healthcare

Industrial

- Smart home & buildings
- Smart cities, smart grid
- M2M, Industry 4.0
- Intelligent logistics
- 4.5G/5G Networks

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SECURE CONNECTIONS FOR A SMARTER WORLD

EXPLOSIVE GROWTH OF SMART CONNECTED SOLUTIONS

SMART HOME

MCU
MPU
ANALOG
SENSORS

RF
NFC
STANDARD
PRODUCTS

SMART HEALTHCARE

MCU
MPU
ANALOG

SENSORS
NFC
STANDARD
PRODUCTS

SMART INDUSTRY

MCU
MPU
ANALOG
SENSORS

RF
NFC
STANDARD
PRODUCTS

WEARABLES

MCU
MPU
SENSORS

ANALOG
STANDARD
PRODUCTS

SMART INFRASTRUCTURE

MPU
Analog
RF

STANDARD
PRODUCTS

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SECURE CONNECTIONS
FOR A SMARTER WORLD

NXP UNIQUELY POSITIONED TO DELIVER SECURE SMART CONNECTED SOLUTIONS

Security Technology

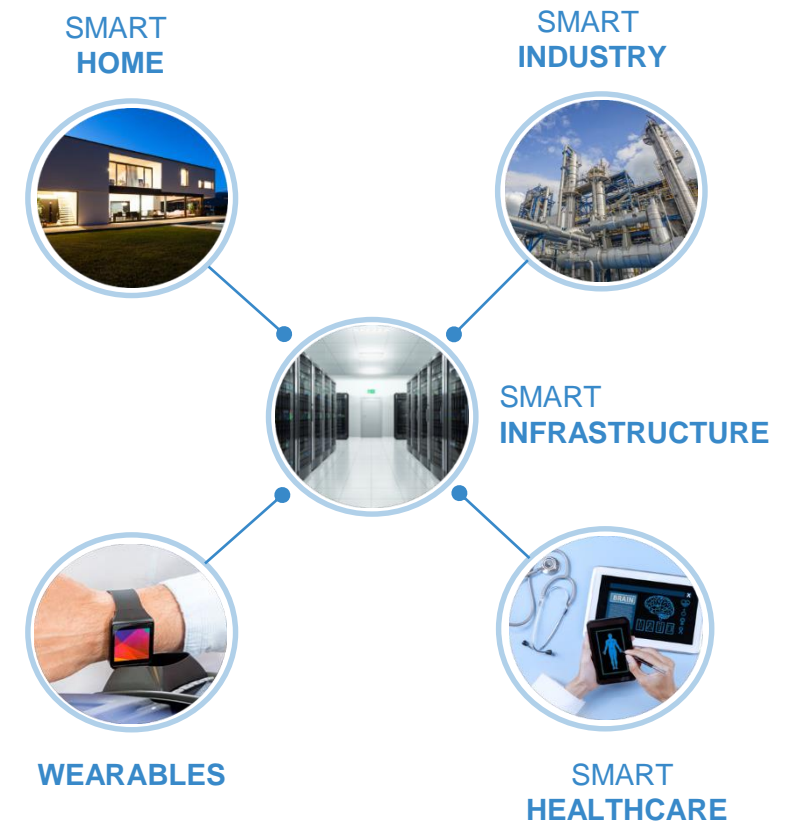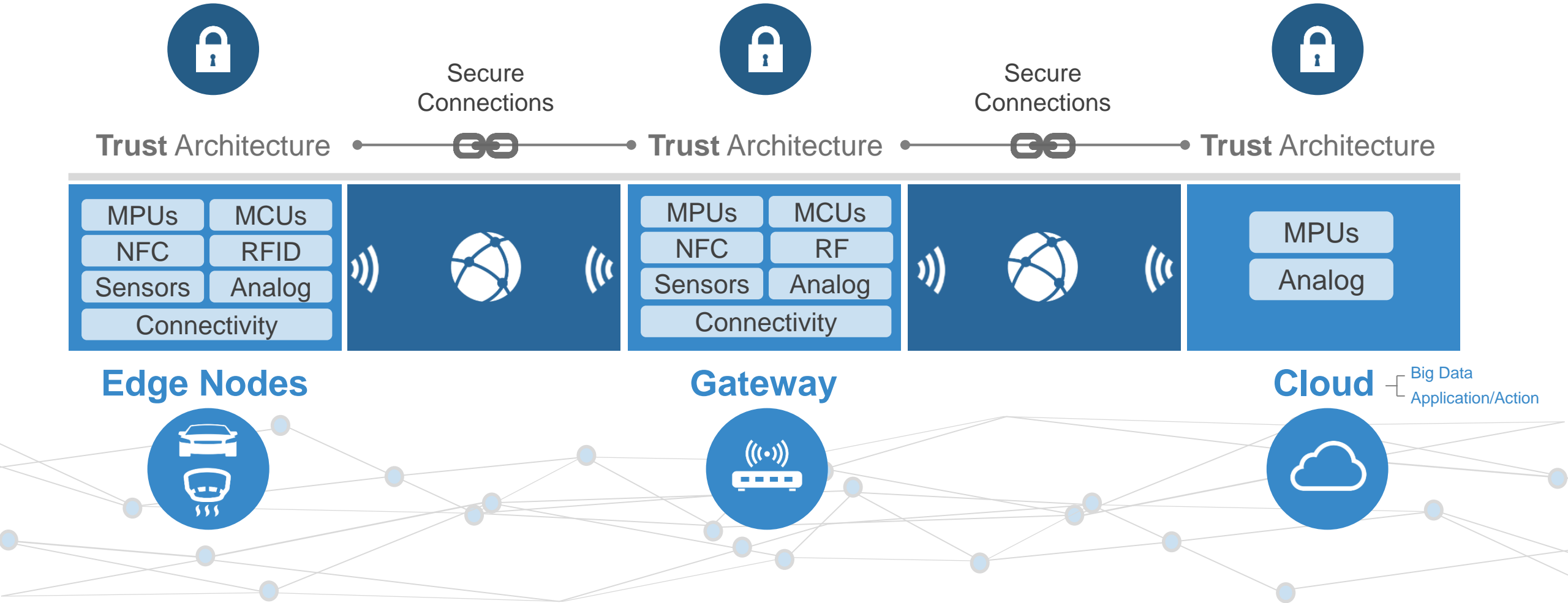|	
Application Identification	Device Identification
Certification	Compliance
Cryptography Acceleration	Network Security
NFC	RFID
Secure Boot	Secure Keys
Secure Memory	Secure Update
Trusted Execution Environments	Unique Chip Identity

Security Expertise

E-Passport   Mobile Transactions   Banking

Smart Connected

SMART **HOME**

SMART **INDUSTRY**

SMART **INFRASTRUCTURE**

WEARABLES

SMART **HEALTHCARE**

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SECURE CONNECTIONS FOR A SMARTER WORLD

IOT NEEDS A SECURE AND DYNAMIC NETWORK

Secure Connections

Secure Connections

Trust Architecture — **Trust** Architecture — **Trust** Architecture

MPUs	MCUs
NFC	RFID
Sensors	Analog
Connectivity	

MPUs	MCUs
NFC	RF
Sensors	Analog
Connectivity	

MPUs
Analog

Edge Nodes

Gateway
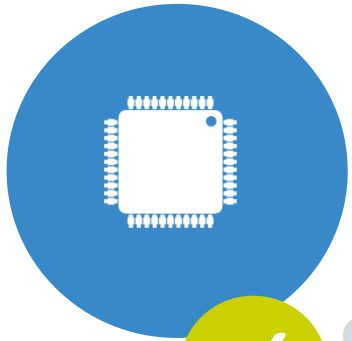
Cloud
Big Data
Application/Action

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SECURE CONNECTIONS
FOR A SMARTER WORLD

THE ONLY SUPPLIER TO PROVIDE COMPLETE IOT SOLUTIONS

DSPs, MCUs & CPUs

Suite of Sensors

Wi-Fi, BT, Thread, ZigBee Wireless Interconnects

Power Management

Complete HW/SW Security Suite

IoT Module Packaging

Source: Tirias Research

SECURE CONNECTIONS FOR A SMARTER WORLD

TODAY: 90% OF AUTO INNOVATION VIA ELECTRONICS

NXP IS #1

ADAS & SECURITY

POWERTRAIN & CHASSIS
MICROCONTOLLERS
PRESSURE/ MOTION SENSORS
BATTERY MANAGEMENT
DRIVERS

#1 INFOTAINMENT
TUNERS
SOFTWARE-DEFINED DIGITAL RADIO
MULTIMEDIA PROCESSORS
SOUND SYSTEM DSPs & AMPLIFIERS
NFC BT PAIRING
WIRELESS POWER CHARGING
POWER MANAGEMENT

STANDARD PRODUCTS
LOGIC
POWER
DISCRETES

#1 SECURE CAR ACCESS
IMMOBILIZER/ SECURITY
REMOTE KEYLESS ENTRY
PASSIVE KEYLESS ENTRY/ GO
BI-DIRECTIONAL KEYS
NFC
ULTRA WIDE BAND

#1 VEHICLE NETWORKING
CAN/LIN/ FLEXRAY
ETHERNET
CENTRAL GATEWAY CONTROLLER
SECURITY
RF

#1 BODY
MICROCONTROLLERS
POSITION/ ANGLE SENSORS
SYSTEM BASIS CHIPS

#1 SAFETY
MICROCONTROLLERS AIRBAG
ANALOG AIRBAG
MICROCONTROLLERS BRAKING
ANALOG BRAKING
SENSORS BRAKING
TIRE PRESSURE MONITORING

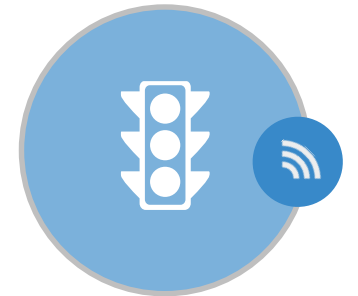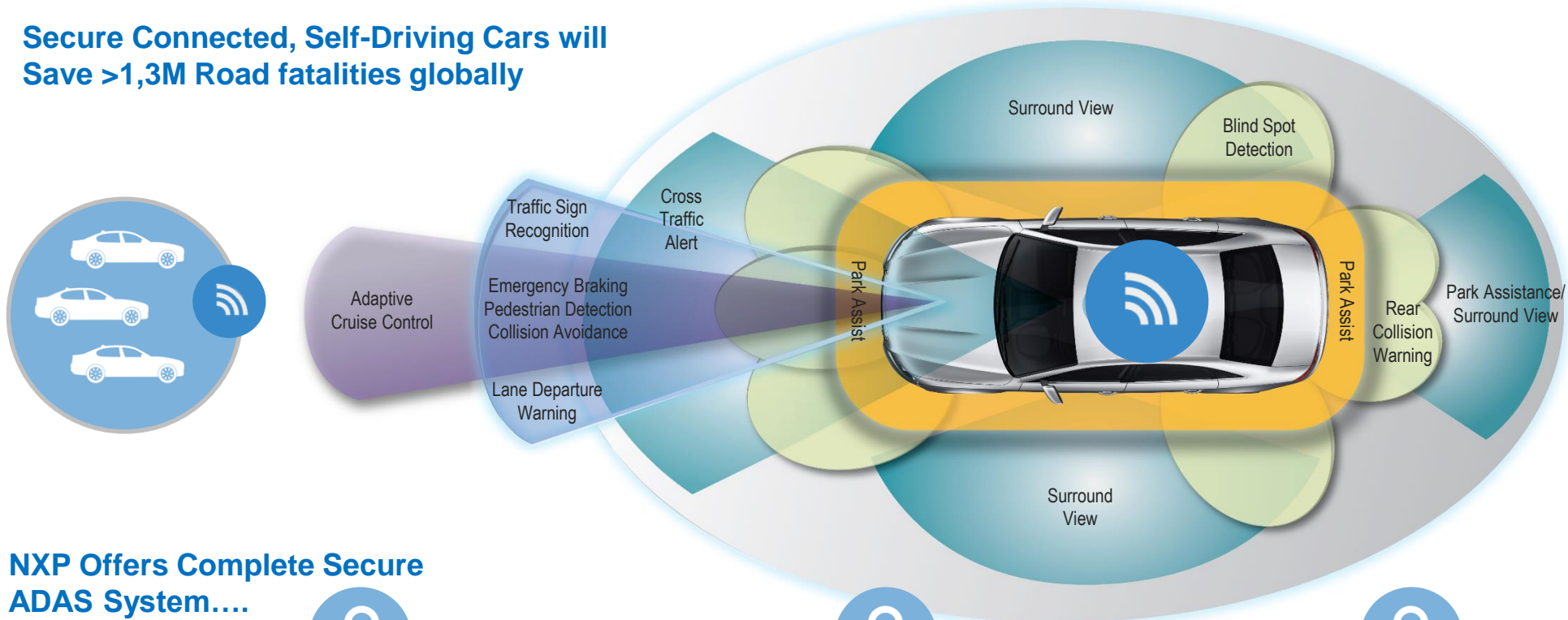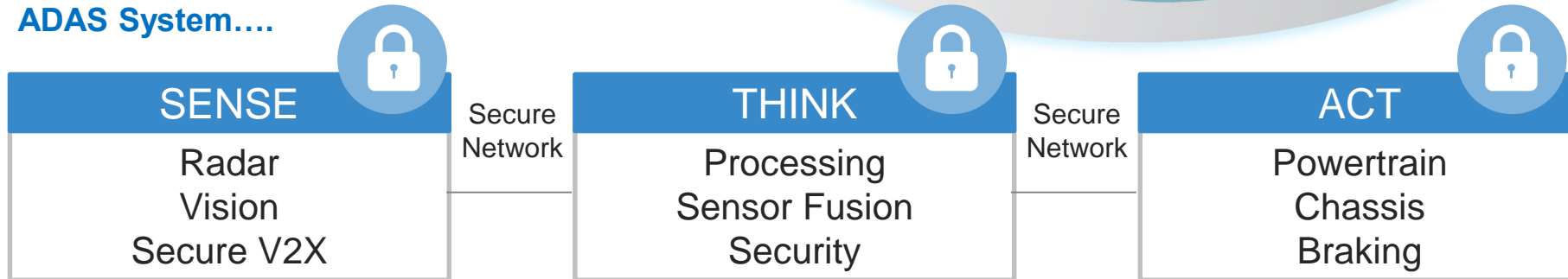**#1 Auto Analog/ RF**

#1 Auto MCU (ex JPN)

#1 Auto Merchant MEMS Sensors

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SECURE CONNECTIONS
FOR A SMARTER WORLD

TOMORROW: ENABLING THE SECURE CONNECTED CAR

Secure Connected, Self-Driving Cars will Save >1,3M Road fatalities globally

Surround View

Blind Spot Detection

Traffic Sign Recognition

Cross Traffic Alert

Park Assist

Park Assist

Adaptive Cruise Control

Emergency Braking
Pedestrian Detection
Collision Avoidance

Rear Collision Warning

Park Assistance/ Surround View

Lane Departure Warning

Surround View

NXP Offers Complete Secure ADAS System....

...including Big Data Infrastructure

SENSE	Secure Network	THINK	Secure Network	ACT	BIG DATA
Radar Vision Secure V2X		Processing Sensor Fusion Security		Powertrain Chassis Braking	Digital Networking Infrastructure Security

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SECURE CONNECTIONS
FOR A SMARTER WORLD

WE OFFER A BROAD ECOSYSTEM OF SUPPORT FOR OUR CUSTOMERS

NXP — SECURE CONNECTIONS FOR A SMARTER WORLD

WE'RE CREATING SECURE CONNECTIONS FOR A SMARTER WORLD

Enhanced security | Mesh Connectivity | Sensors | Smart LED lighting | Gateway & Cyber Security | Access

Smart Parking | Smart Roads | Traffic Congestion | Smart Lighting | Waste Management

Car Entertainment | In-vehicle Networking | Car Access | Car2X and Radar

Manufacturing Automation Temperature Monitoring | Machine Diagnosis & Control | Remote Asset Control | Fleet Tracking

Secure Bank Cards | Mobile Transactions | Loyalty- Reward | RFID Tags/Labels | Supply Chain Monitoring | NFC Readers

e-passport | Smart eID | Health Card
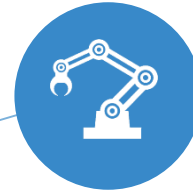
Contactless | Transport card | Access Solutions | Micro-payments

Hospital & at-home Patient Monitoring | Fall Detection | Personal Health & Fitness Monitoring

Smart Watch | Activity Tracking | Smart Glass

Distribution | Energy Consumption & Monitoring | Water Pressure Measurement

Cloud Computing
Gateways
Routers & switches
Security Appliances
Wireless Base Stations
Smartphones

SECURE CONNECTIONS FOR A SMARTER WORLD

SECURE CONNECTIONS
FOR A SMARTER WORLD