



SCSK's Automotive Software Business

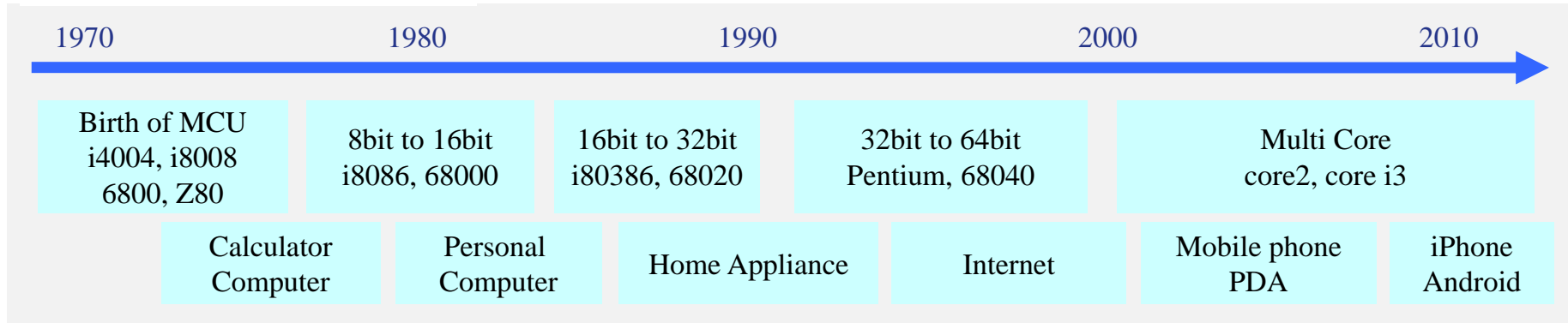
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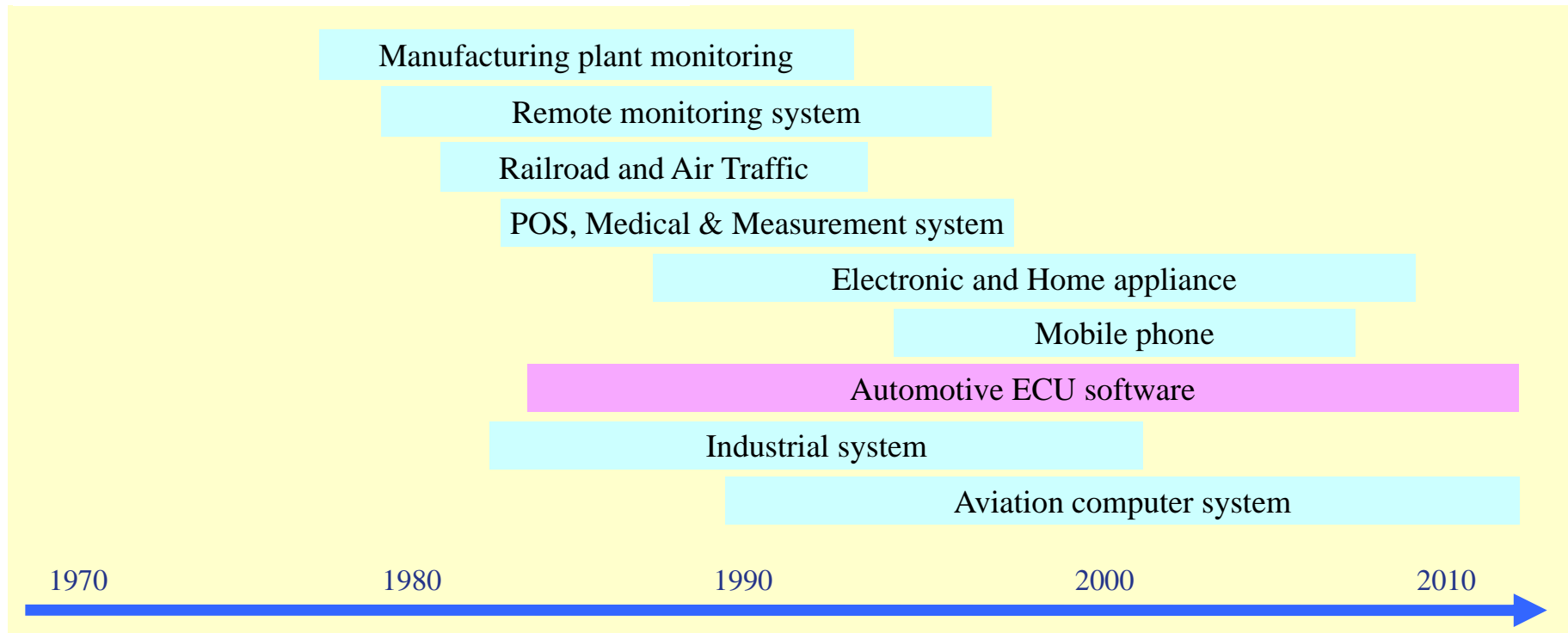
SCSK Corporation
May 20, 2015

■ We have committed to Automotive ECU software development since 1980s.

History of Microprocessor (MCU)



SCSK's footprint for Embedded system development



Power Train

- Gasoline Engine
- Diesel Engine
- Transmission
 - Automatic
 - AMT
- Hybrid System
 - Motor
 - Inverter
 - Power system

Body

- Air conditioner
- Door
 - Back door
 - Slide door
 - Switch
 - Metal Top
- Meter
- Light
 - Headlights

Fleet Control

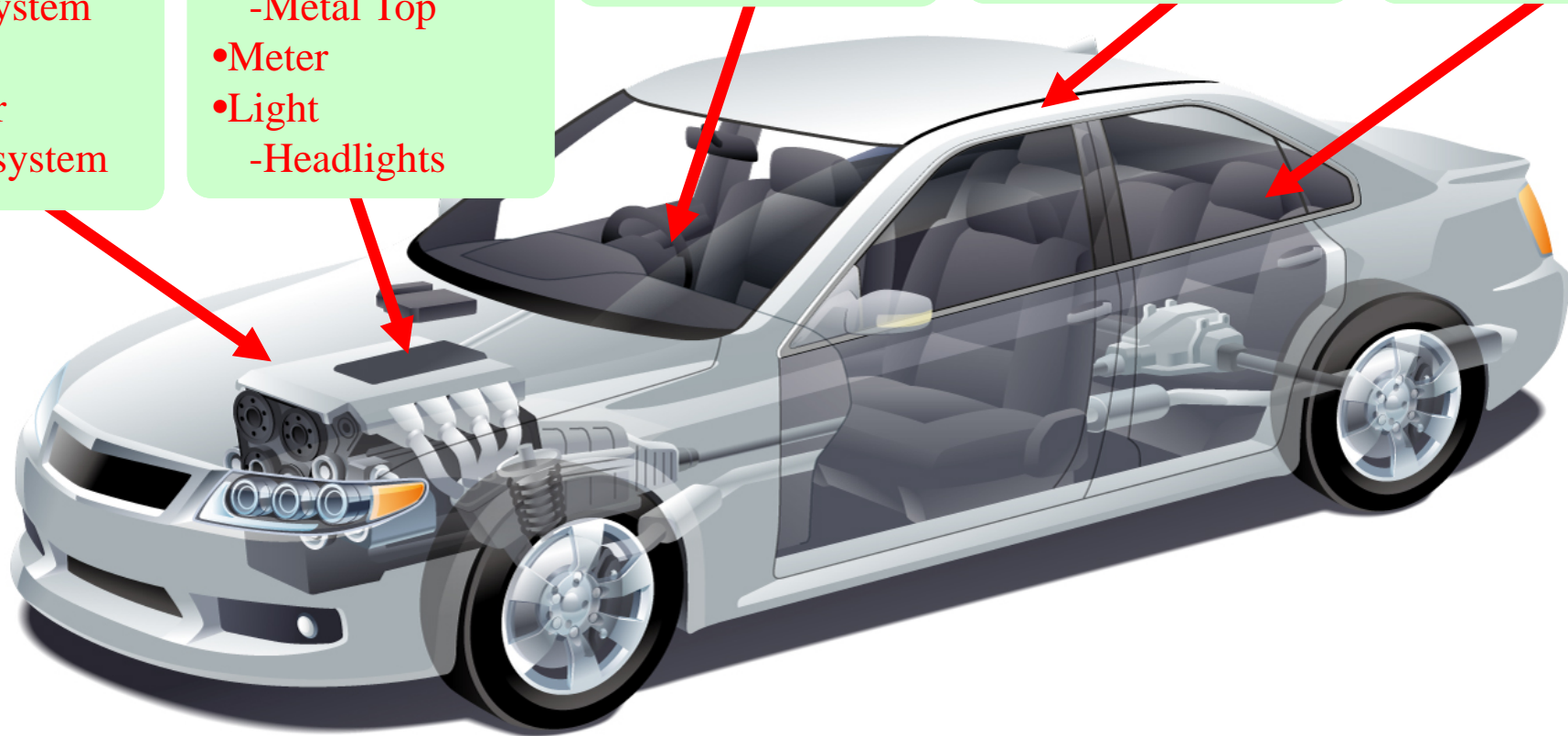
- Steering gear
 - Power steering
- Suspension
- Adaptive cruise control (ACC)

Drive Safety

- Integrated Control
 - Anti theft
- Drive support
 - Mobile
 - GPS

Telematics

- Navigation
- On board display
 - Back camera
- CAN
- Ethernet AVB



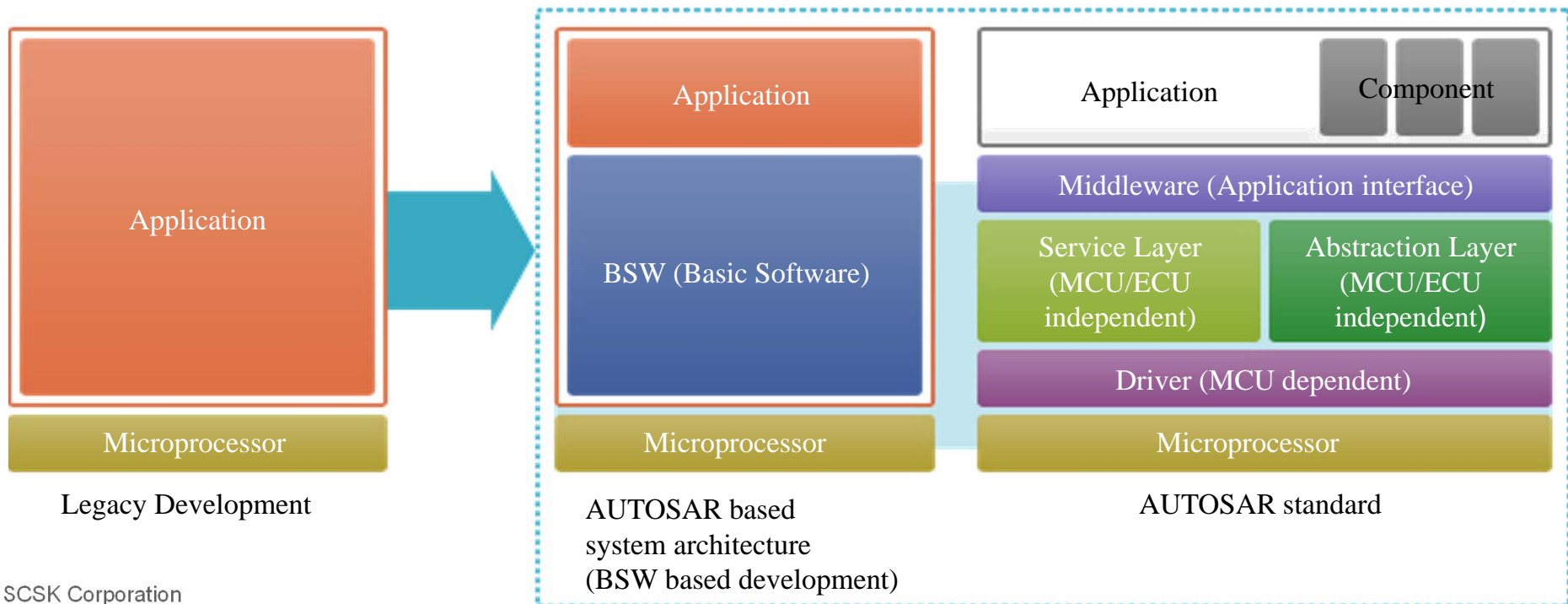
Hyper demand growth for intelligent automotive software - ten times development volume

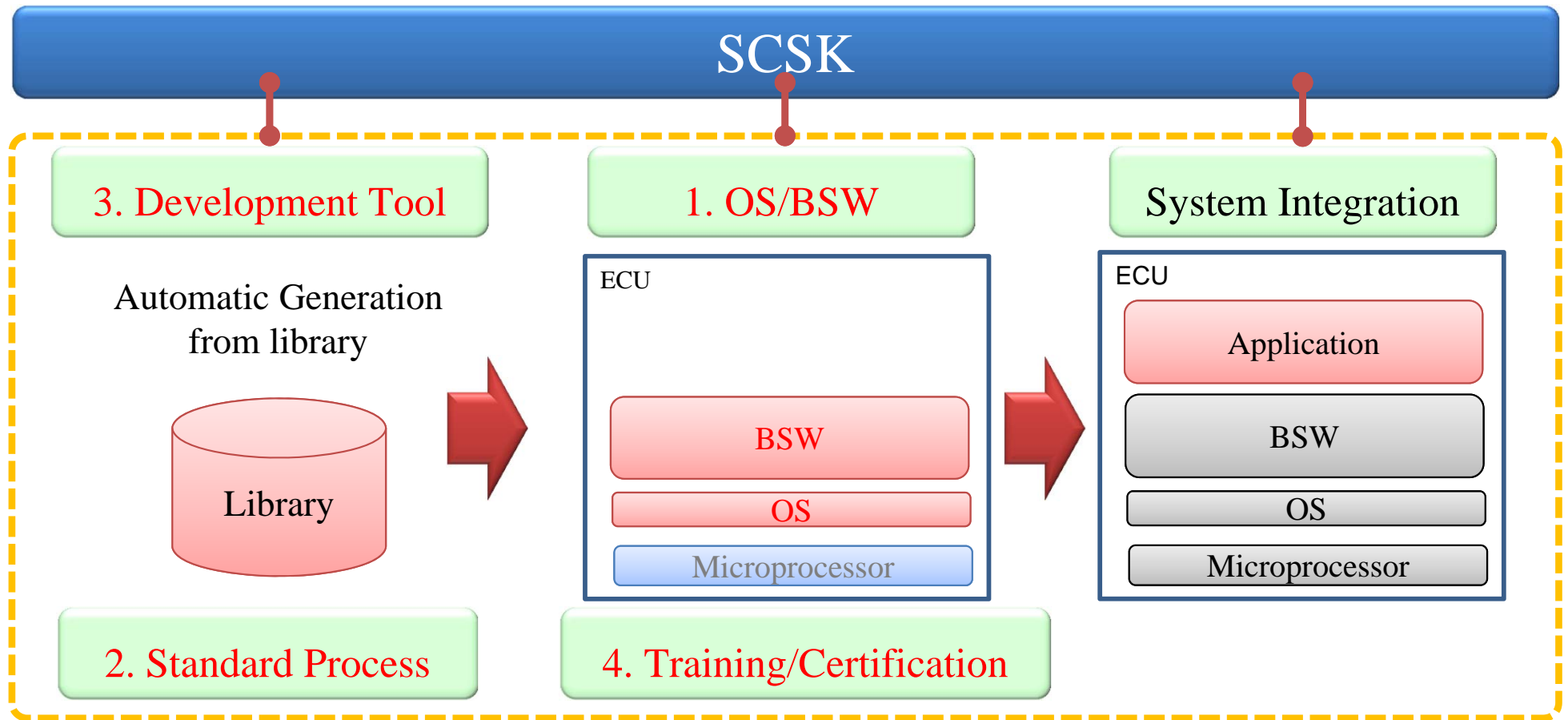
More demand has grown for automobile industry, providing more “Comfort”, “Safety”, “Eco friendly”, and “Reliability”. For example, “pre-crash safety system” minimizes collision damage assuring “Comfort” and “Safety”. Hybrid vehicle and Electric vehicle provides “Eco friendliness”. These new features are all developed based on state-of-the-art engineering and software platform for Automotive Electronics.

Features built-in to automobile have grown annually, a trend that results in growing quantity of ECU and growing complexity/development volume for ECU software. It is said that a high end automotive model uses more than a hundred ECUs with more 10 million line codes of software.

Issues Automotive industry is facing – growing needs for scalable solution

It has become a major issue for the automotive industry to ensure high reliability for the growing ECU software development. The automotive industry has developed a standard automotive software platform “AUTOSAR” and implemented a model based development using “Automotive SPICE” to ensure highly reliable and mass scalable automotive software development process.





Performance and quality of OS & BSW impacts end products' performance and development process

SCSK is committed to provide

“Automotive software expertise” × **“Various software development methodology”**

30+ years of Automotive ECU development

From legacy to cloud application development

Create our Future of Dreams

We create our future of dreams by establishing value based on our customers' trust.

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