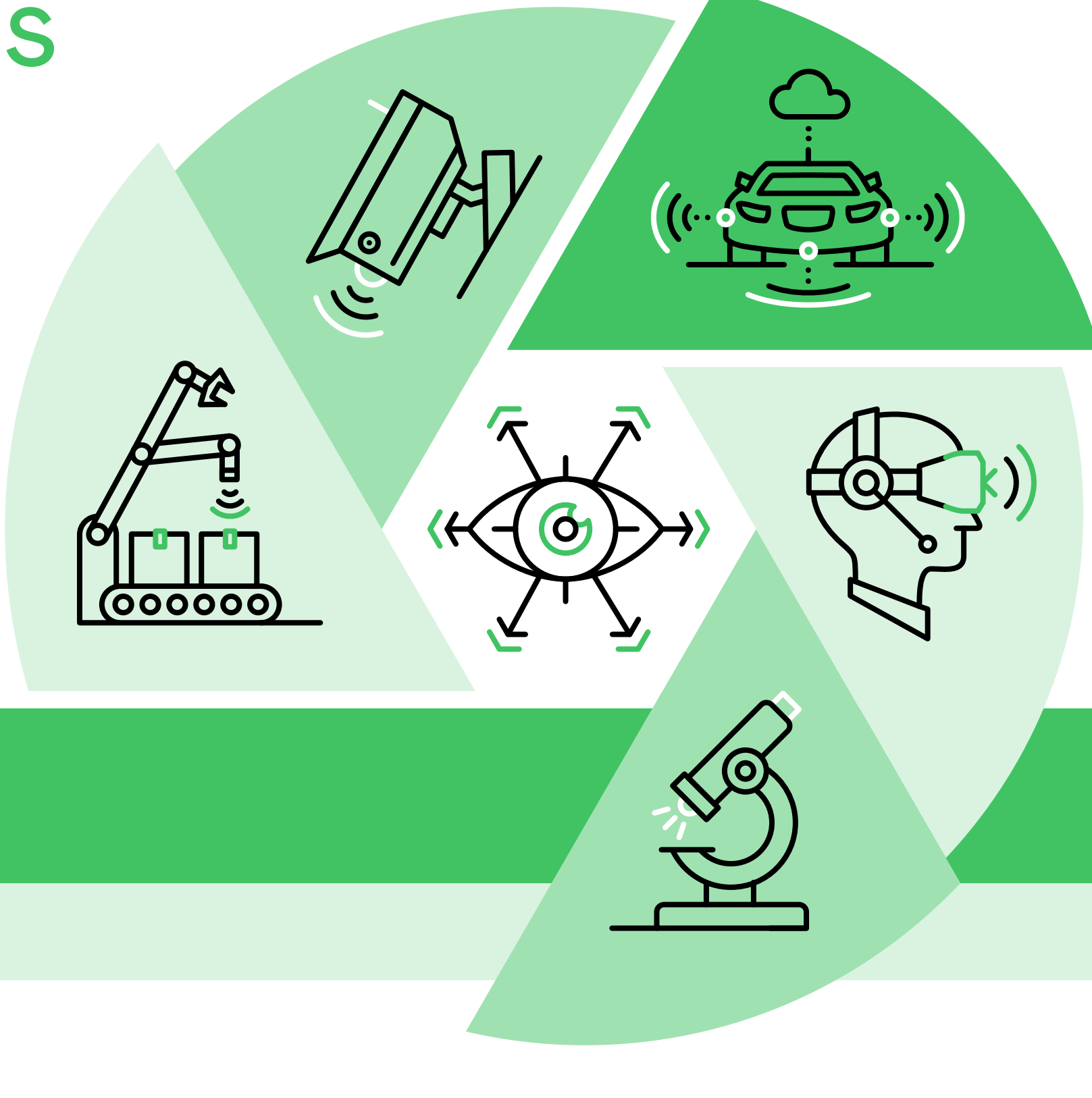
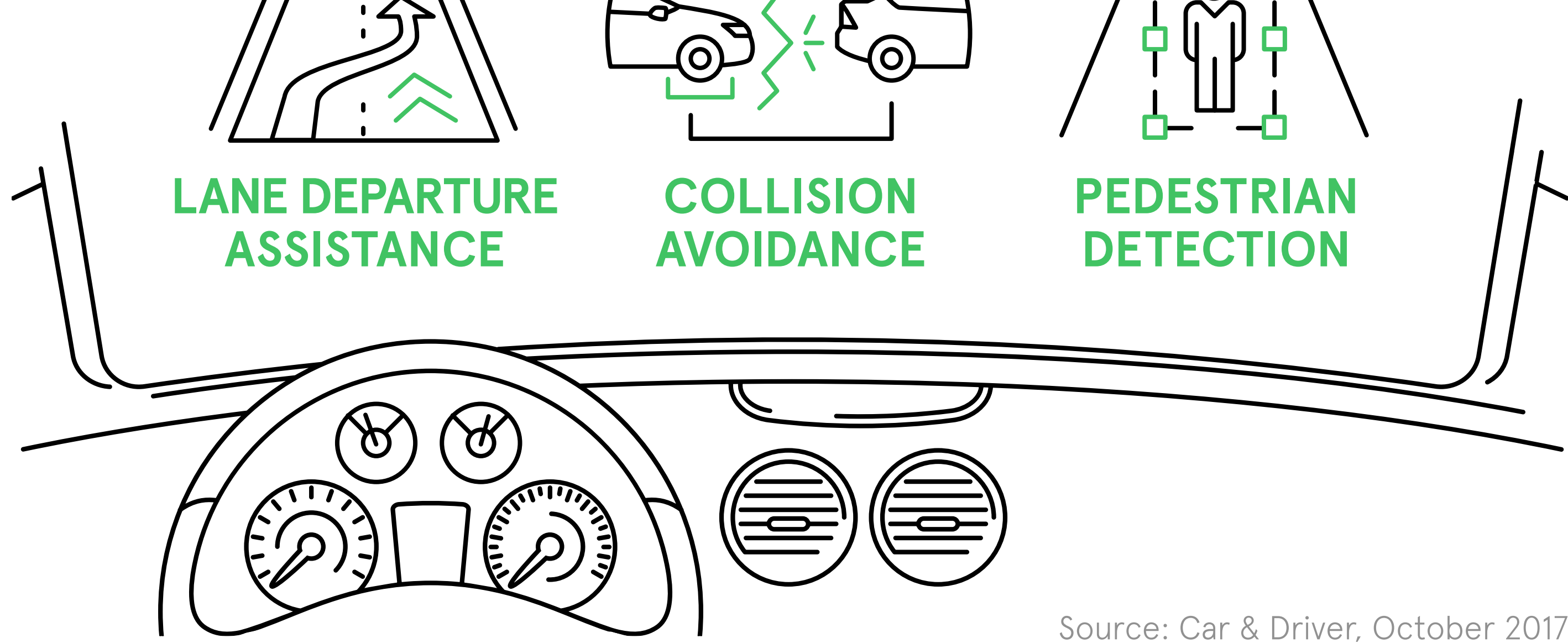


# Embedded Vision by the Numbers

How embedded systems and computer vision are shaping the future



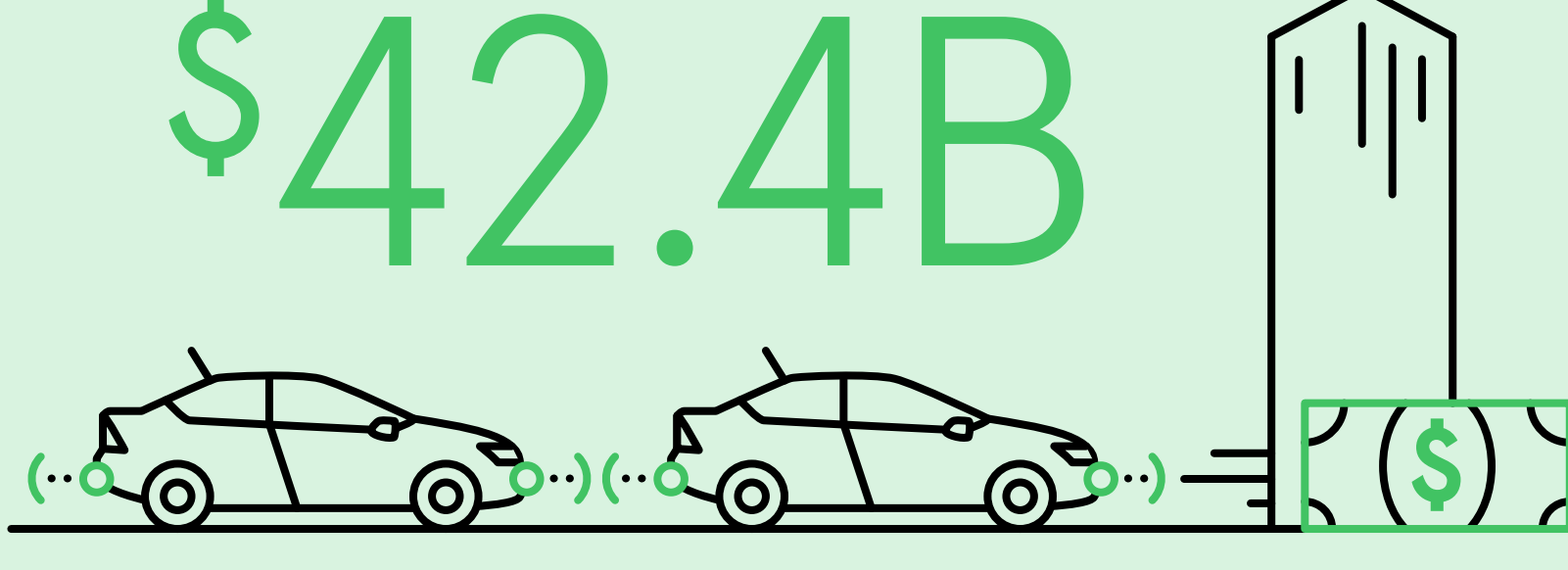
**ADAS** Advanced driver assistance systems are a huge application of **embedded vision** with features like:



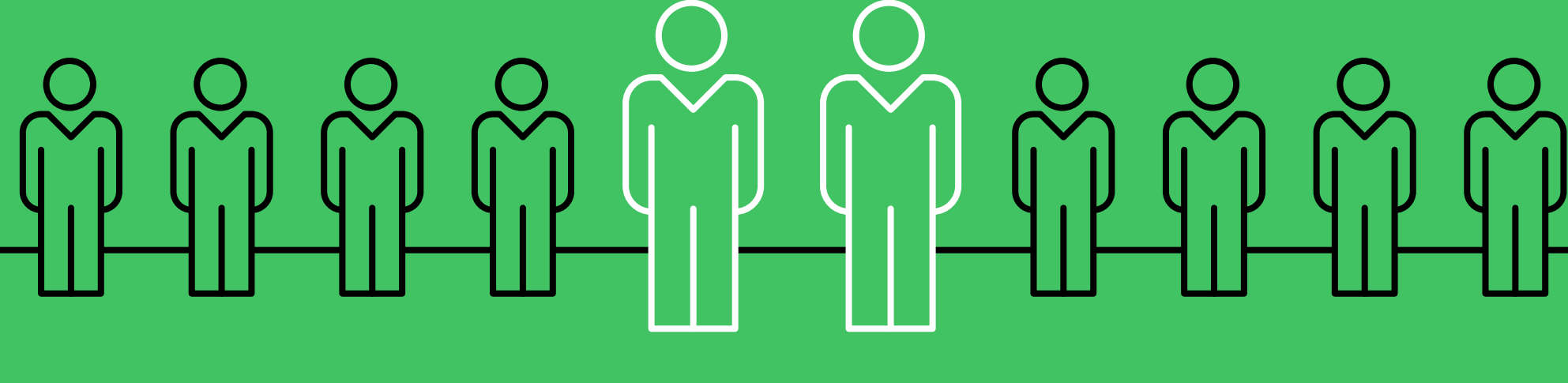
Source: Car & Driver, October 2017

Autonomous driving **embedded vision** market by 2021:

**\$42.4B**



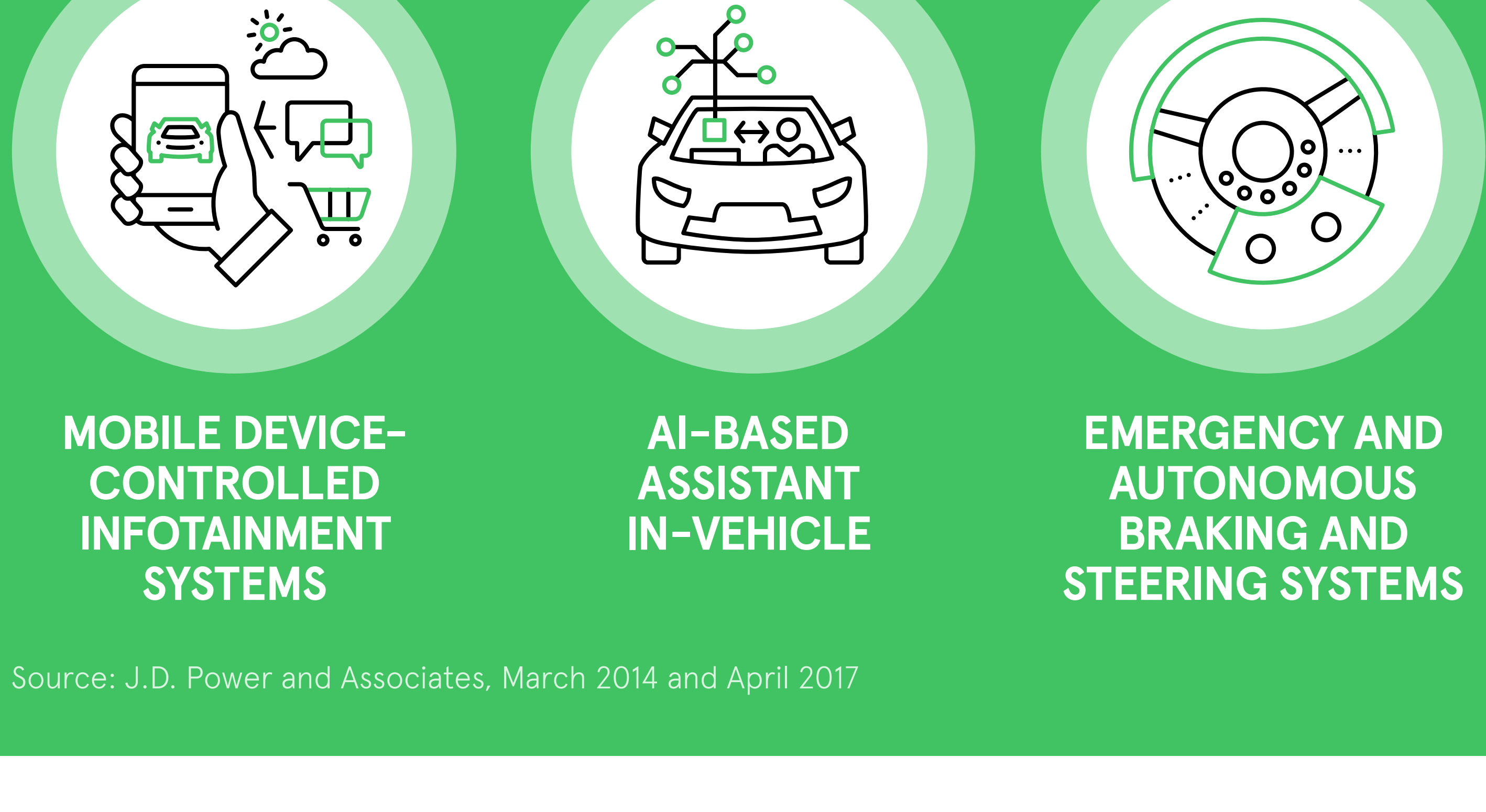
Source: Embedded Vision Alliance, September 2017



**20%** of consumers would pay as much as

**> \$3,000 <**

for autonomous driving applications:



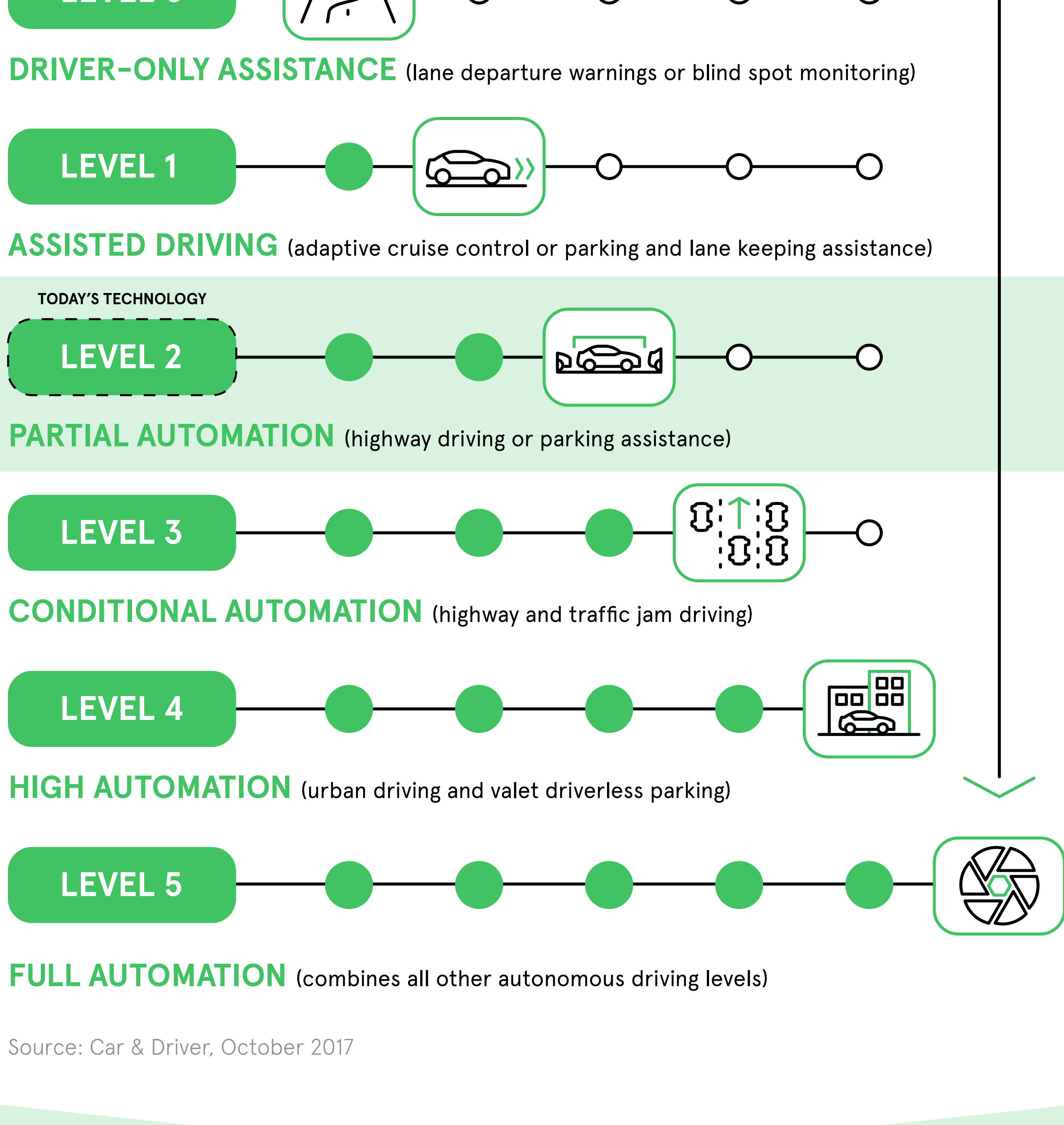
**MOBILE DEVICE-CONTROLLED INFOTAINMENT SYSTEMS**

**AI-BASED ASSISTANT IN-VEHICLE**

**EMERGENCY AND AUTONOMOUS BRAKING AND STEERING SYSTEMS**

Source: J.D. Power and Associates, March 2014 and April 2017

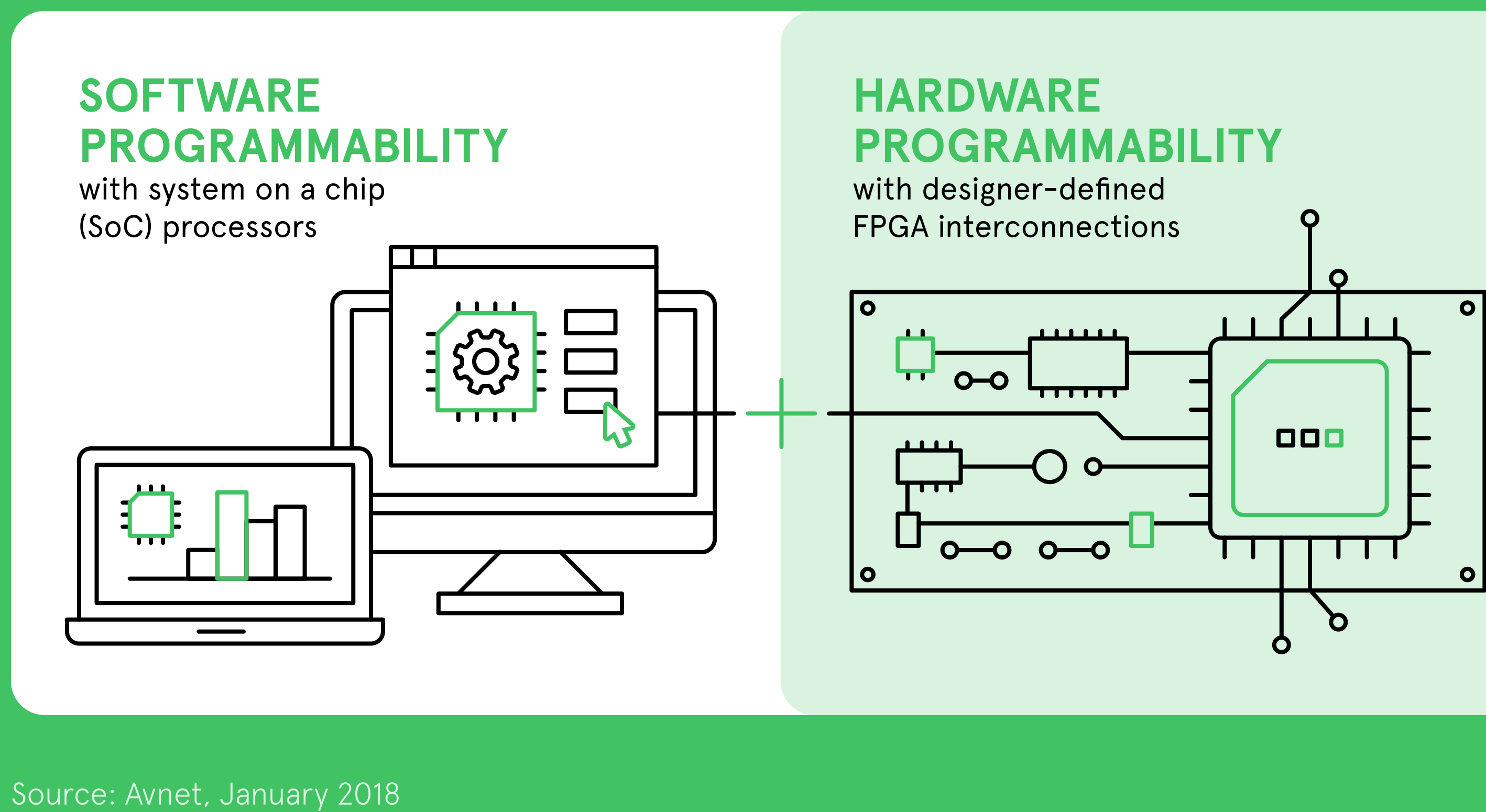
Setting the stage for **fully autonomous** driving:



Source: Car & Driver, October 2017

**All Programmable** technologies bring clarity to the complexity of higher-level automation

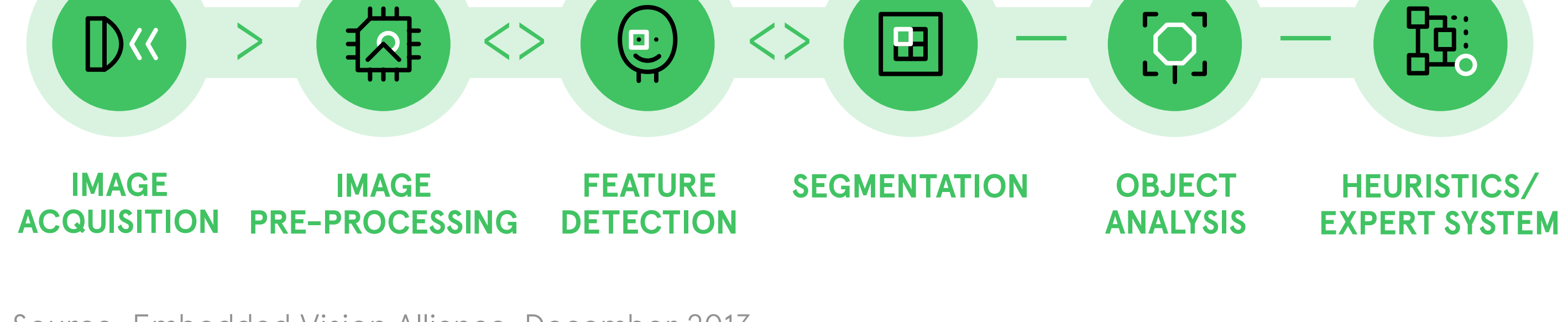
SoCs with programmable logic create lower power, higher efficiency data paths that enable machines to make high functioning decisions:



Source: Avnet, January 2018

How **embedded vision** happens

Before, external chips and pre-written hardware interconnects slowed down the process of machine vision. Now, with all Programmable technologies, the complex process of getting information from a camera into an action taken by the car is made simple.



Source: Embedded Vision Alliance, December 2013

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