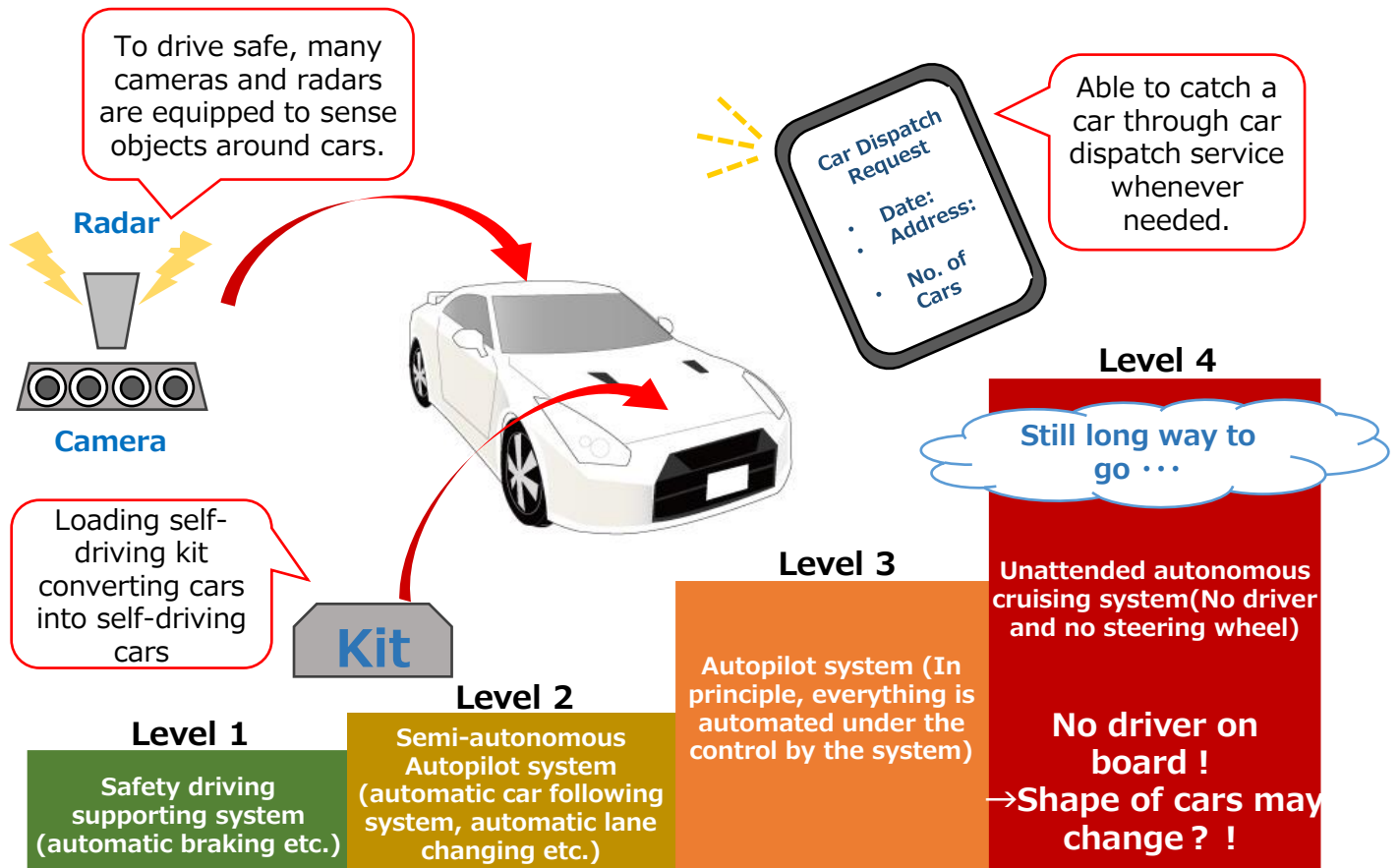## Q AI (Artificial Intelligence), the hottest topic! In what area is it expected to be used? (Part-1)

**A** It is expected that development in self-driving technology will lead AI related industry to grow in land transportation sector. Its current market size (JPY 100 million as of 2015) is likely to grow about 30 times to approx. JPY 30.5 trillion in 2030!

- Self-driving system can be divided into 4 levels by its development stages (Please refer to diagram below).
- Self-driving car's safety is expected to be warranted by numerous number of cameras and radars to detect surroundings. Nowadays, self-driving kits started to come into market where self-driving are available by just loading it.
- We expect self-driving cars will become popular from 2020 onward mainly when driving on expressways.
- We expect cars will become more convenient as taxi dispatch service and car-sharing will be served by self-driving cars in future.

### "Image of Development of Self-driving System"

To drive safe, many cameras and radars are equipped to sense objects around cars.

**Radar**

**Camera**

Loading self-driving kit converting cars into self-driving cars

**Kit**

Car Dispatch Request
- Date:
- Address:
- No. of Cars

Able to catch a car through car dispatch service whenever needed.

**Level 4**

Still long way to go・・・

**Level 3**

Unattended autonomous cruising system(No driver and no steering wheel)

No driver on board !
→Shape of cars may change？！

**Level 2**

Autopilot system (In principle, everything is automated under the control by the system)

**Level 1**

Semi-autonomous Autopilot system (automatic car following system, automatic lane changing etc.)

Safety driving supporting system (automatic braking etc.)

(Source) SMAM, based on material of Ernst & Young Institute Co., Ltd.

## Disclaimer