

CONNECTED DEVELOPMENT

20,4

billion networked devices
in 2020*

70%

of companies do not analyze
and use IoT data today*

99%

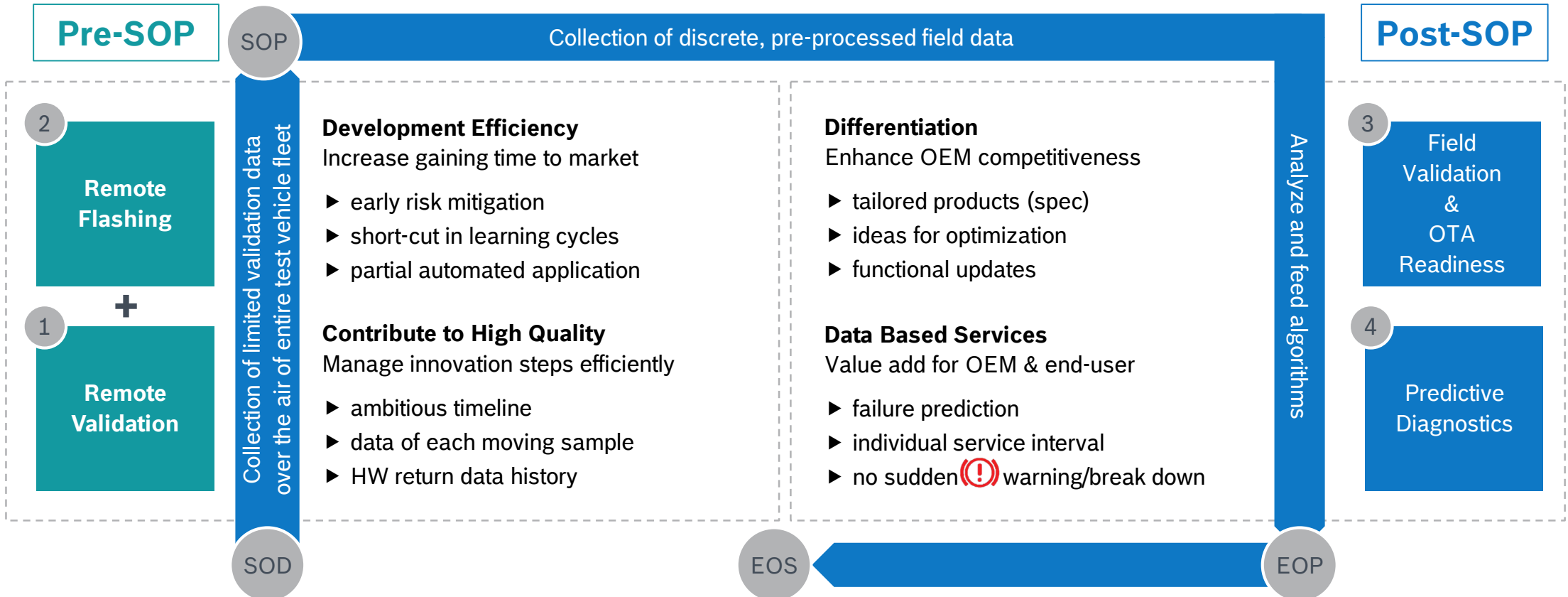
of data generated by IoT devices
remains unused*

#IoT
#LikeABosch



Connected Development & Data Based Services

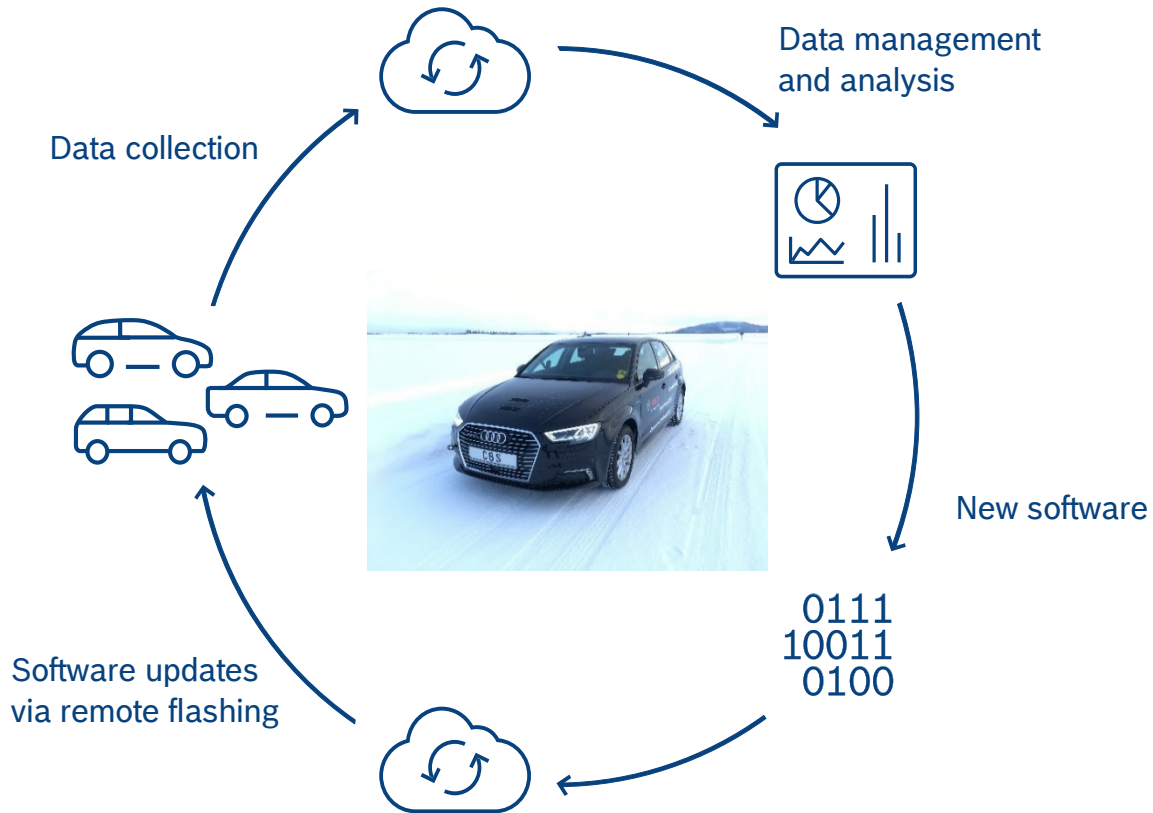
VALUE CREATION OVER VEHICLE LIFE CYCLE



SOD Start of Development | **SOP** Start of Production | **EOP** End of Production | **EOS** End of Support | **OTA** Updates over the air

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DATA-DRIVEN DEVELOPMENT CYCLE



Increased
efficiency.



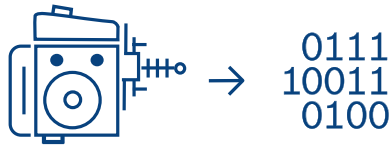
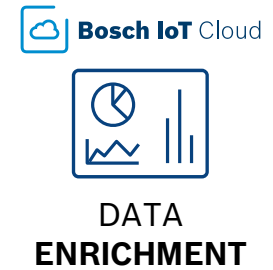
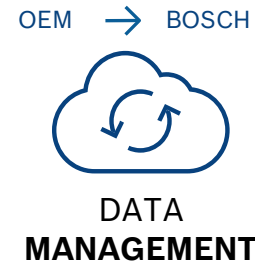
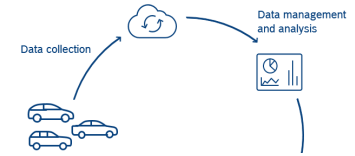
Guaranteed
quality.



Enabled
field validation.

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VALUE CHAIN - EXAMPLE BRAKE



Data client – BENEFITS

- ▶ Access to pre-defined **component internal information**, typically not available on vehicle network
- ▶ **Only relevant data** is being captured based on sub-service/function basis signals (smart data)
- ▶ **Configurable** according lifecycle (pre- / post-SOP) + **standardized interface** to vehicle network / CCU

Data client – MAIN TASKS

- ▶ Trigger based **event detection**, e.g. brake apply, failure entry...
- ▶ **Data storage** inside RAM fifo buffer of component ECU (decouple data generation and transmission)
- ▶ **Data transmission** on vehicle network via multiplexed single PDU (CAN/FR) or diagnosis sessions

THANK YOU