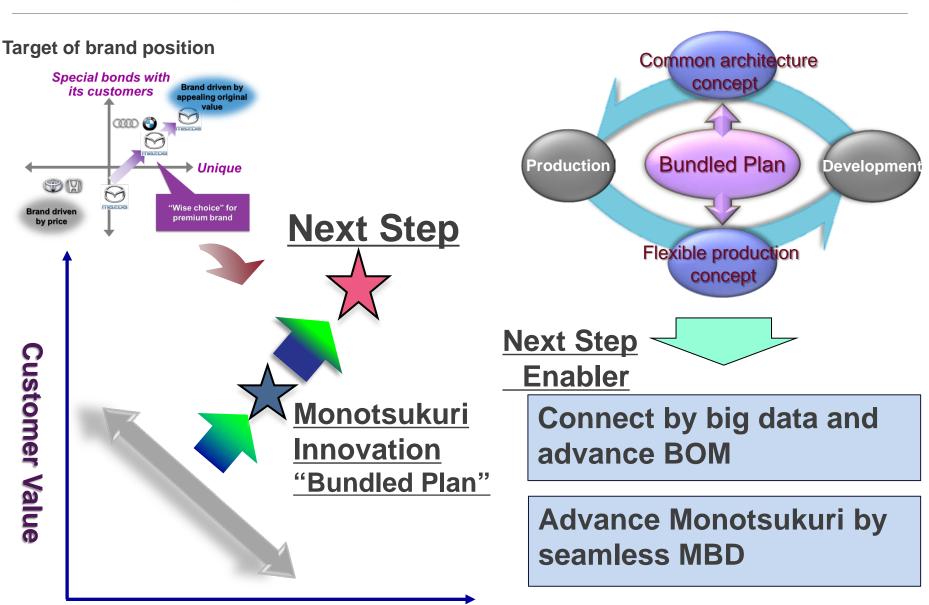


Mazda Monotsukuri Innovation and Further Advance by Using Manufacturing and Market Big Data

- 1. Mazda's target image and Monotsukuri Innovation
- 2. Further advance of Monotsukuri Innovation
 - Seamless Monotsukuri by using big data
 - Building block structure for Monotsukuri Innovation
- 3. Examples

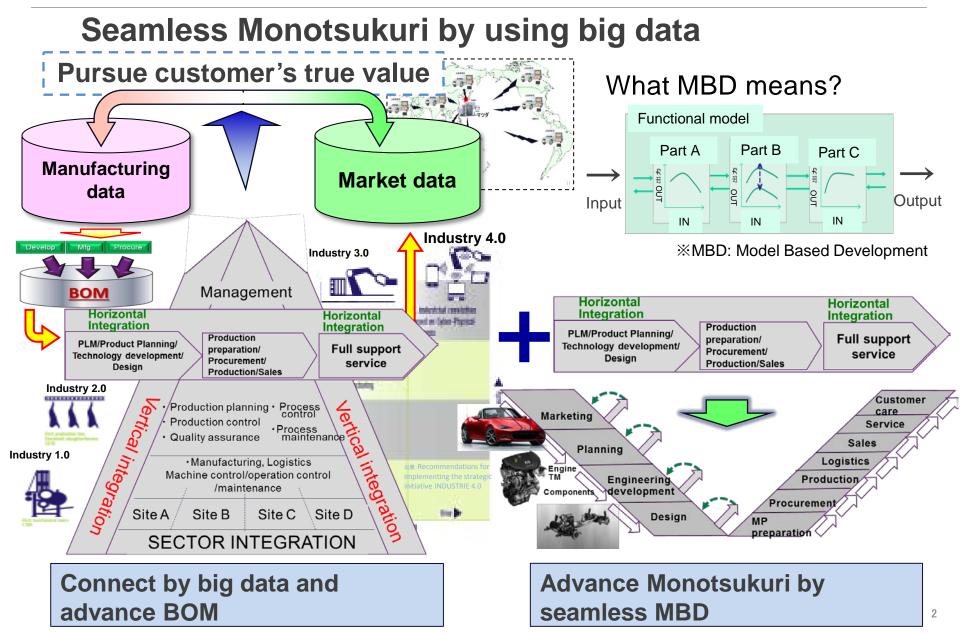
December, 1st 2015
Iwao AOTA
Production Engineering Division
Mazda Motor Corporation

1. Mazda's target image and Monotsukuri Innovation



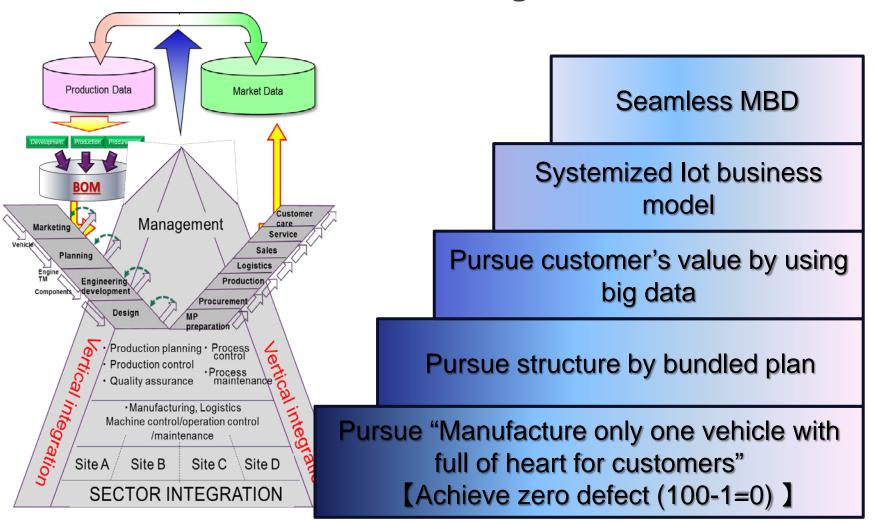
Business Efficiency

2. Further advance of Monotsukuri Innovation



2. Further advance of Monotsukuri innovation

Monotsukuri Innovation Building Block Structure

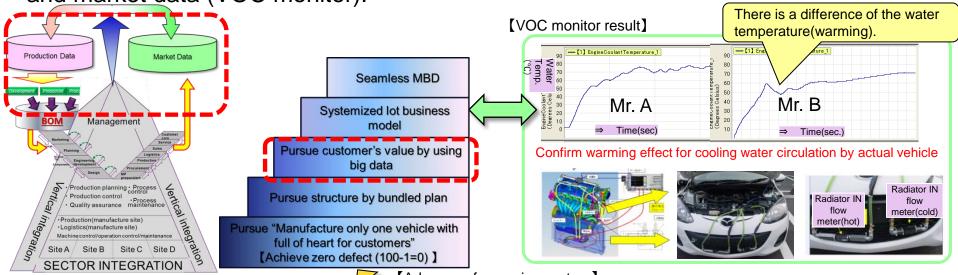


Monotsukuri Innovation Building Block Structure

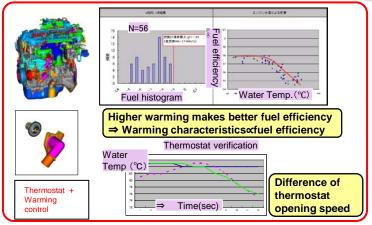
At Present

3. Example #1: Using production big data and market big data

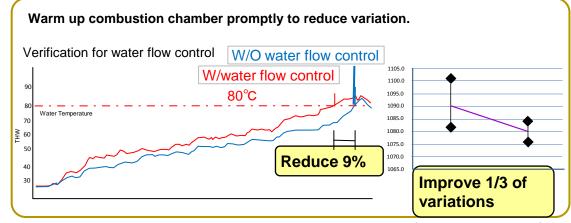
Improve warming characteristics(fuel efficiency) by using engine manufacturing data and market data (VOC monitor).



[Accumulation of engine production data]



[Advance of warming system]
(Current) Thermostat => (Advance) water flow control valve engine to improve warming characteristics(fuel efficiency)



3. Example #2: Using manufacturing big data and vehicle characteristics measurement

Body manufacturing data and vehicle characteristics measurement by DDRS

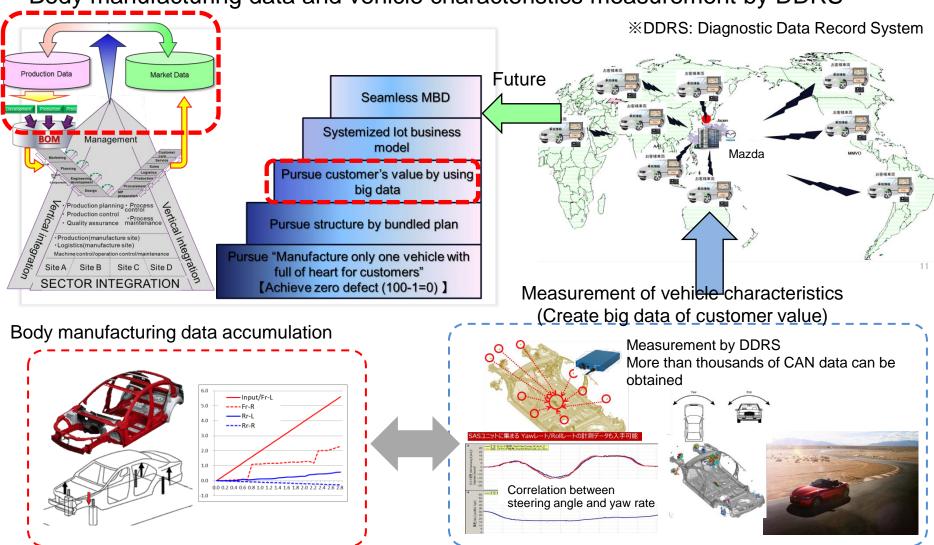
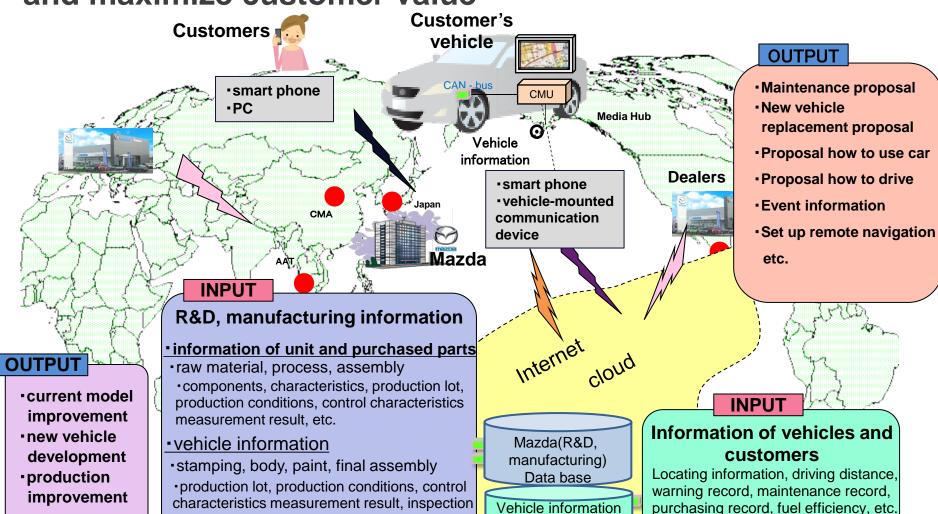


Image of final target

result, etc.

etc.

Use big data of manufacturing & market data fully by IoT and maximize customer value



Data base

6



Thank you.