

Global strategy of **Nissan Production Way**

Oppama Challenge Updates

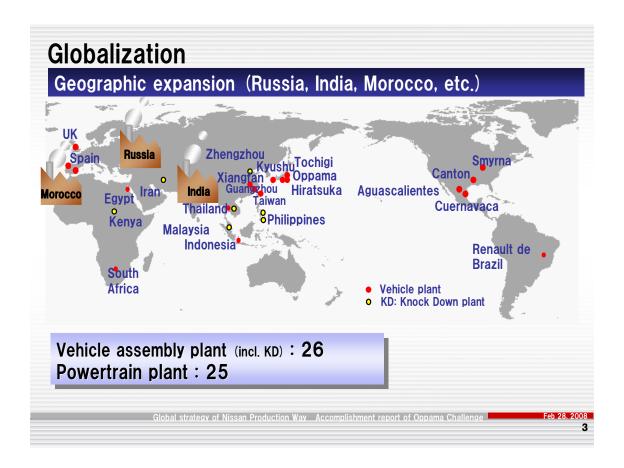
February 28th, 2008

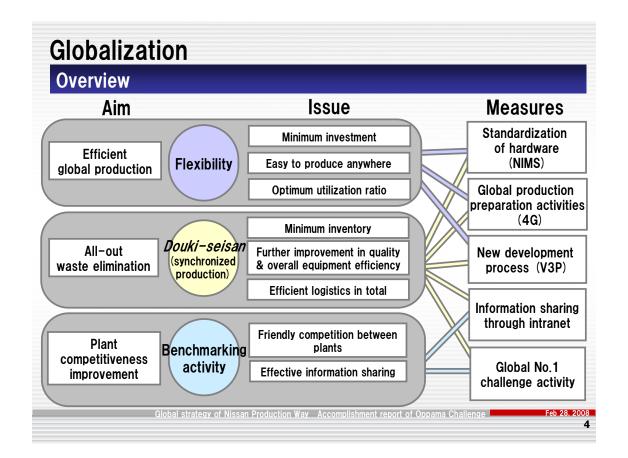
Nissan Motor Co., Ltd. Hidetoshi Imazu, EVP

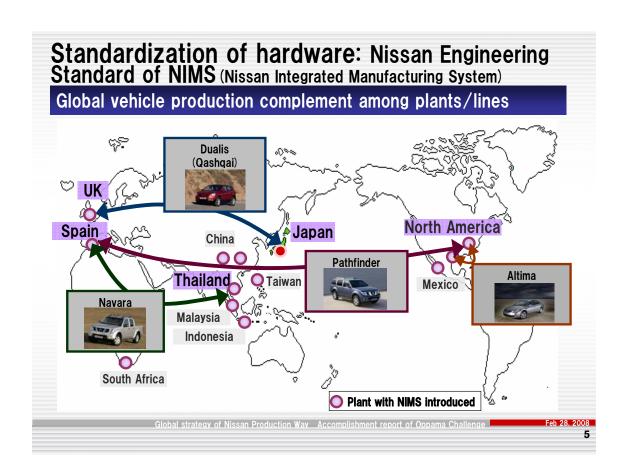
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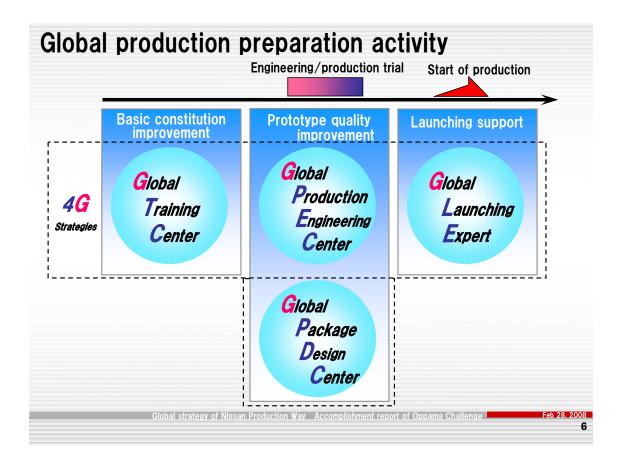
Oppama Challenge

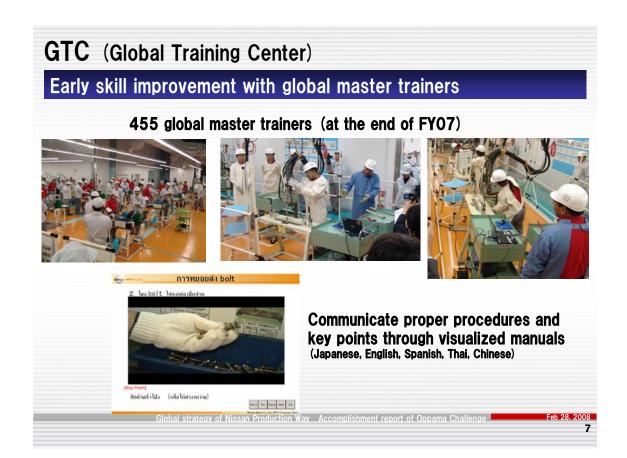
- ✓ Accomplishment
- ✓ Activities

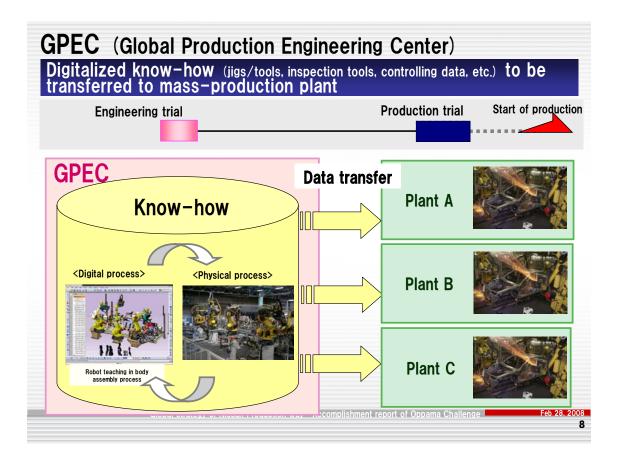


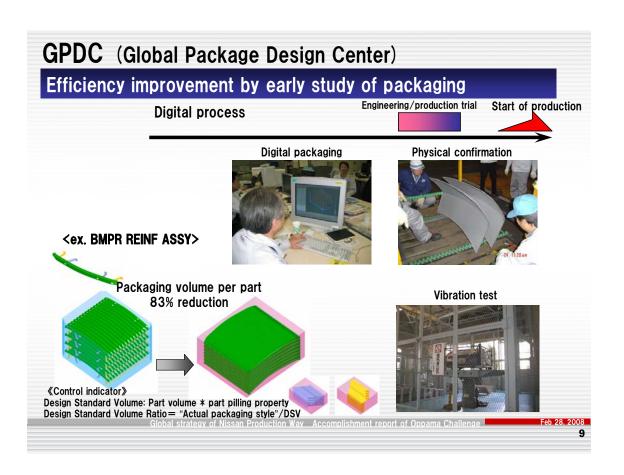


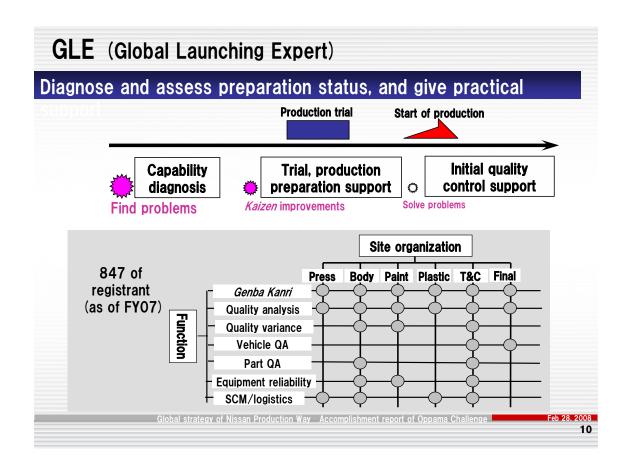


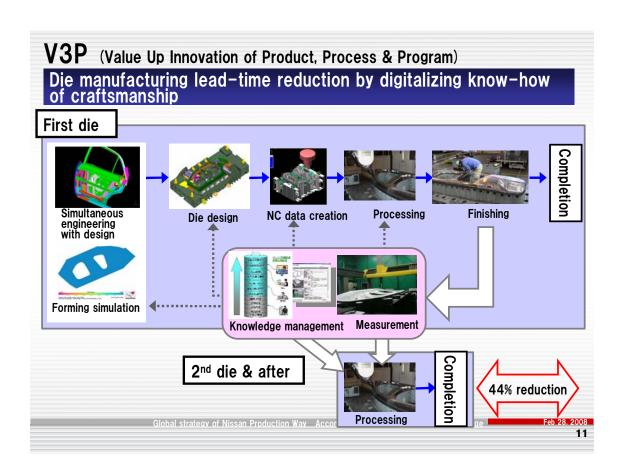


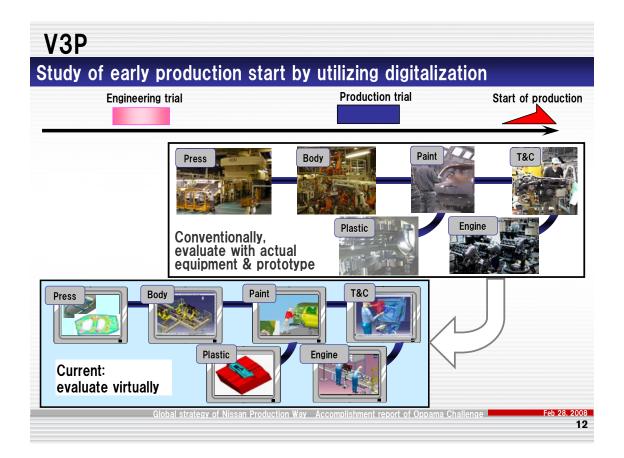


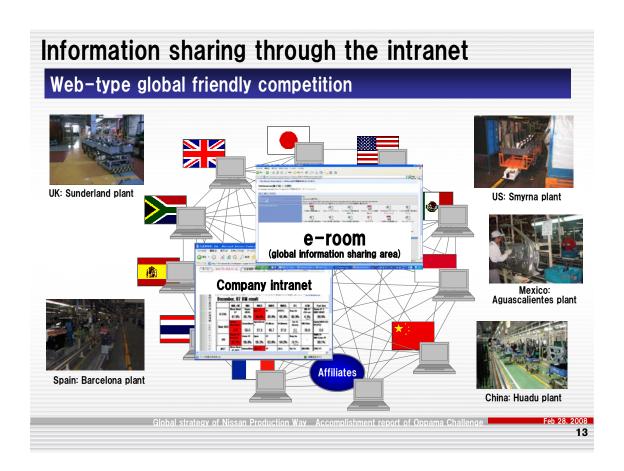








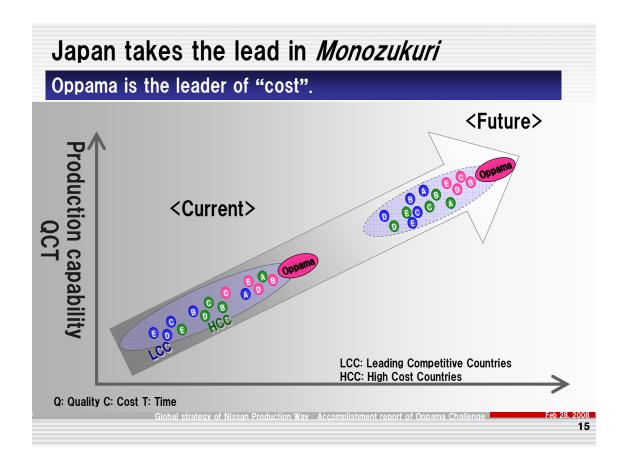




Global No.1 Challenge Activity

Utilize strengths of Japanese plants

Plant	Title	Aim
Oppama plant	Oppama Challenge	C: Cost challenge
Tochigi plant	Tochigi Plant Global No.1 Challenge	Q: Quality challenge
Kyushu plant	Kyushu Plant Challenge	T: <i>Douki-seisan</i> challenge
Yokohama plant	Yokohama Challenge	QCT 1/2 challenge
lwaki plant	VQ Challenge	Challenge to high quality and the cost level of 4-cylinder engines



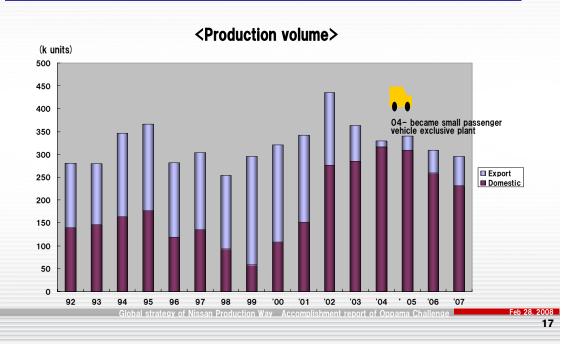
Global strategy of Nissan Production Way

Oppama Challenge

- ✓ Accomplishment
- ✓ Activities

Background of Oppama Challenge

Need cost competitiveness for small passenger vehicle



Oppama Challenge is:

World's top *Monozukuri*

a "survival strategy" for the Oppama plant to regain production volume.

It aims to the world's top plant in quality, cost & time by quickly "reforming *Monozukuri*" through benchmarking with mini cars and LCC companies and strengthening collaboration between *genba* (manufacturing shop floor) and engineering.

Internal related departments and our partners (suppliers & logistics companies, etc.) cooperatively spearhead reformation and promote quick horizontal deployment to plants in and out of Japan.

Through this reformation, all questions about Japanese plant cost competitiveness should be cast aside. It will greatly contribute to Nissan to improve the level of *Monozukuri*.

With the "world's top *Monozukuri*," global cars should be introduced so as to break away from a plant exclusive for the domestic market.

Global strategy of Nissan Production Way

Oppama Challenge

- ✓ Accomplishment
- ✓ Activities

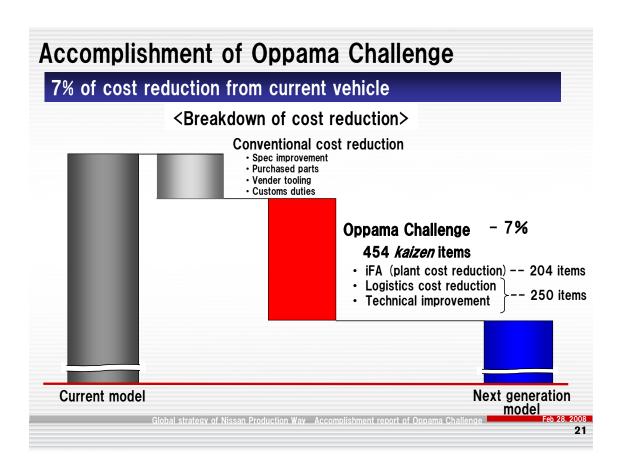
Global strategy of Nissan Production Way Accomplishment report of Oppama Cha

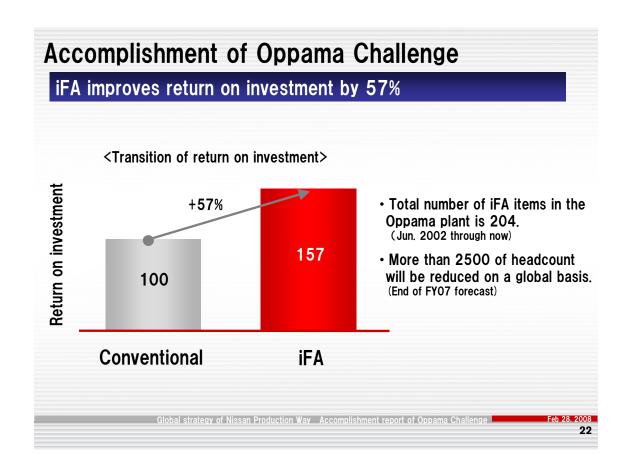
Accomplishment of Oppama Challenge

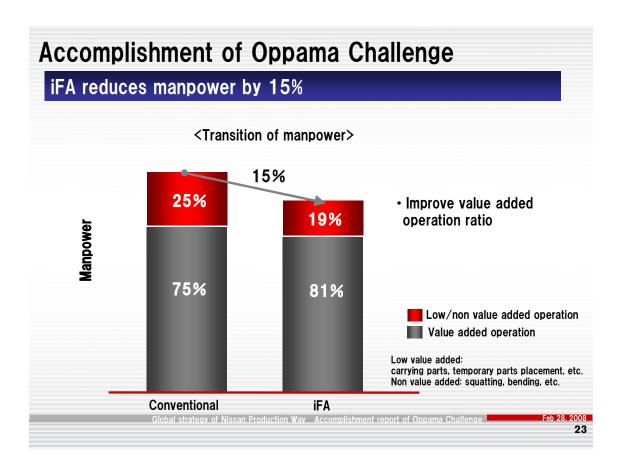
Summary

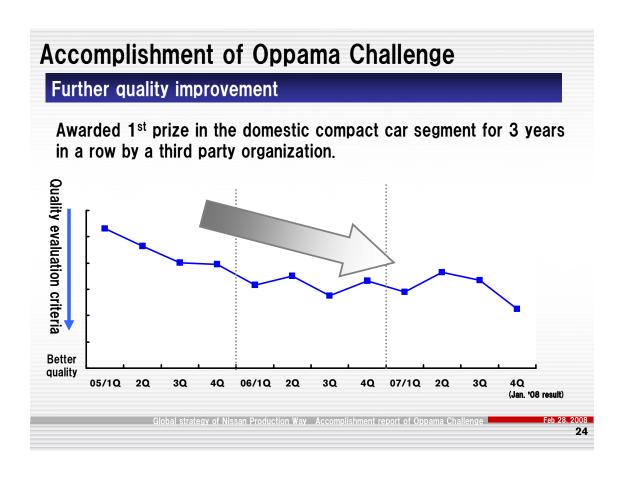
- Improved cost competitiveness against LCC countries
 - It was decided to introduce a next-generation model in the Oppama plant.
 - The utilization ratio of the Oppama plant improves. (From Sept. '08, 2nd shift will start in the plant No.1.)
- Globally expand iFA (iFA: cost reduction activities)
 - To be applied globally: Russia, India, Morocco, etc.

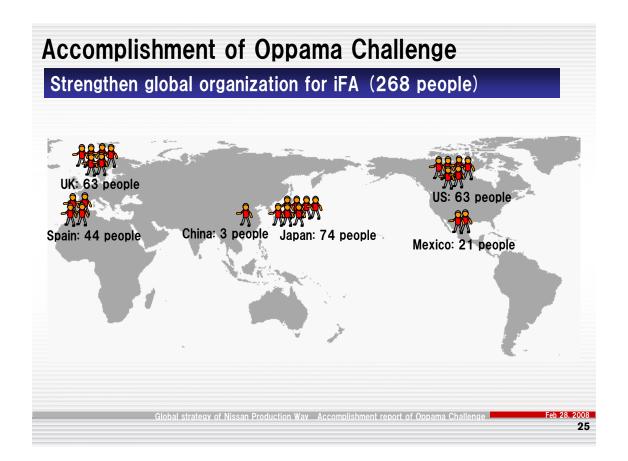
iFA: integrated Factory Automation



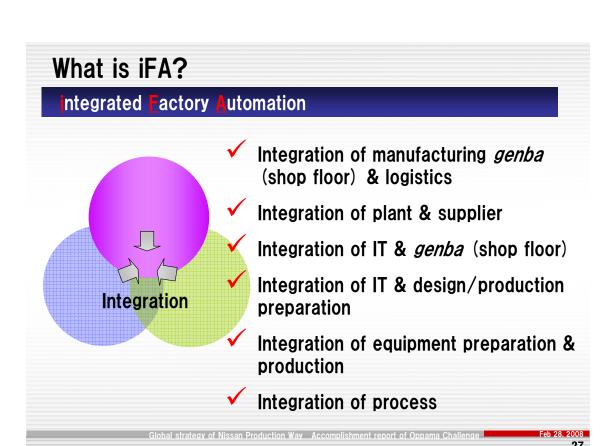












What is iFA?

Smooth material flow & low cost automation

Introduce low cost automation

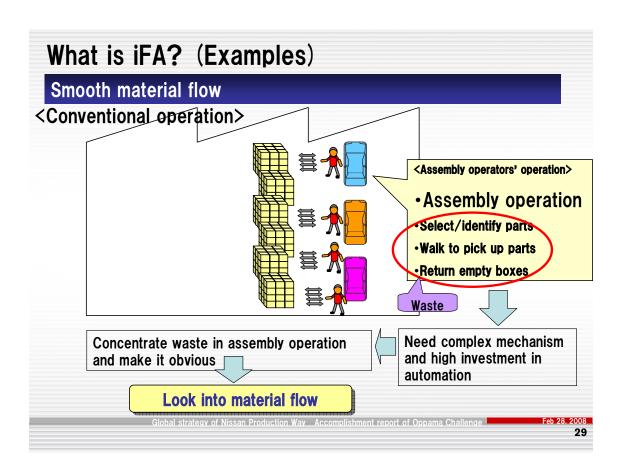
*Karakuri = automation with wisdom

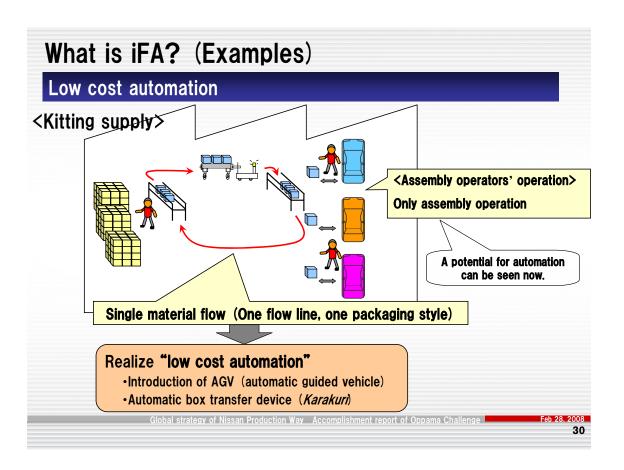


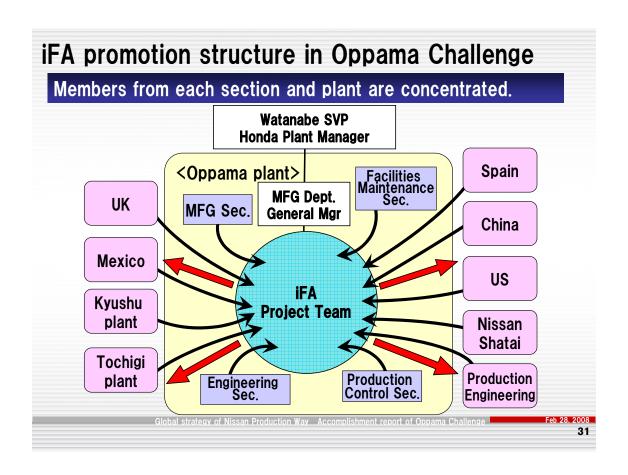
Make material flow smooth without stagnation by looking into the flow

= Status with no waste

*What is Karakur/?









Activities of Oppama Challenge Cost reduction by adopting general automobile steel Transition of adopting in-house press parts Study of corrugation through forming simulation 95% 74% Possible of Cost reduction by adopting general automobile steel

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Next generation

