

Globalizing NPW (Nissan Production Way)

Introduction of Global P Production E Engineering C Center

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- **Nissan Production Way (NPW)**
- **New approach for globalization**
- **Overview of
Global Production Engineering Center**



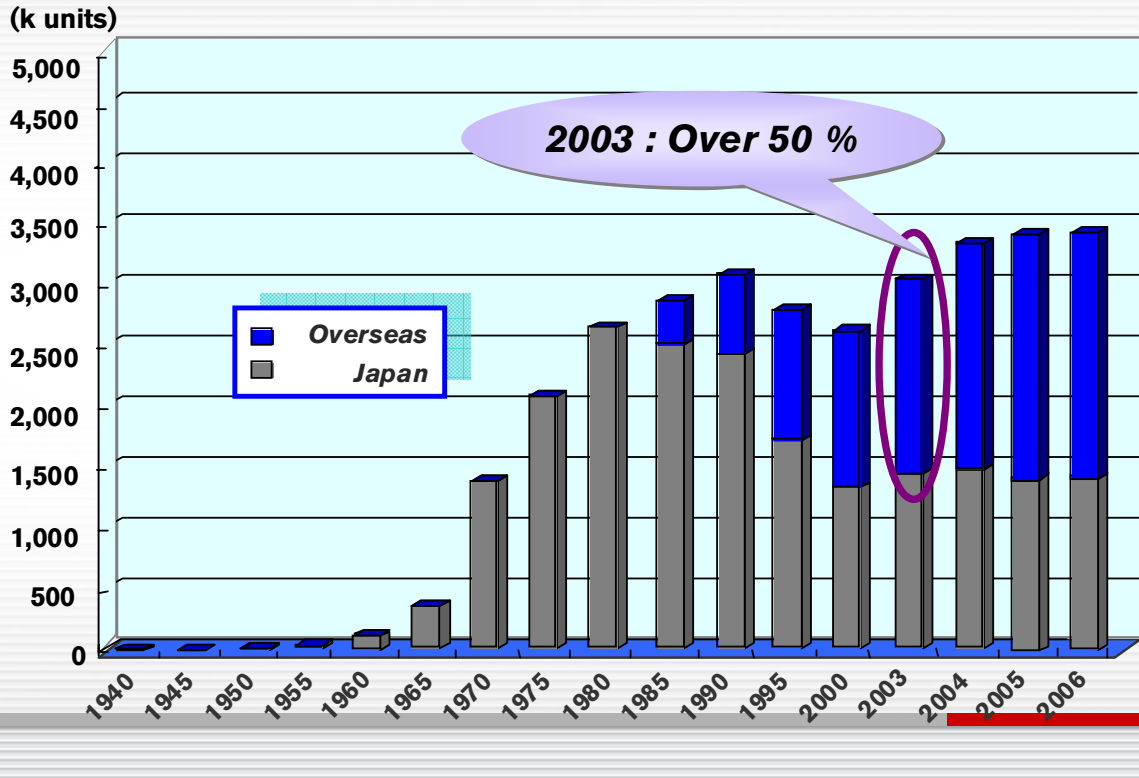
***Nissan Production Way :
Two never ending***

***Never ending synchronization (Douki)
our manufacturing with the customers***

***Never ending quests to identify problems
and put in place solutions***

- Nissan Production Way (NPW)
- **New approach for globalization**
- Overview of
Global Production Engineering Center

Globalization of production



Globalization of production

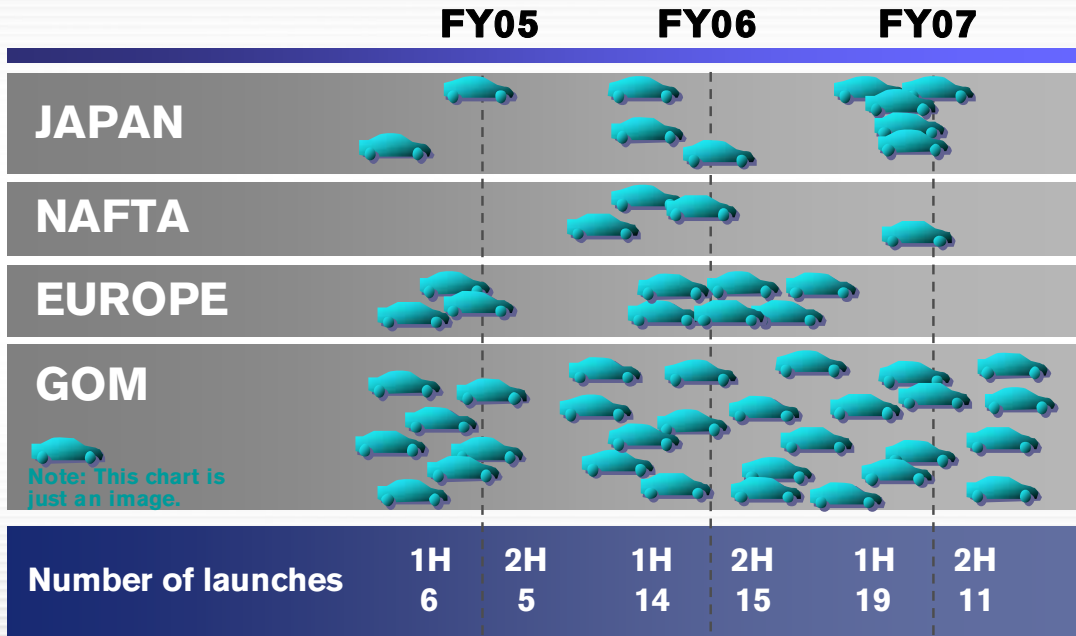


Vehicle plant (Including KD) : 26

Powertrain plant : 25

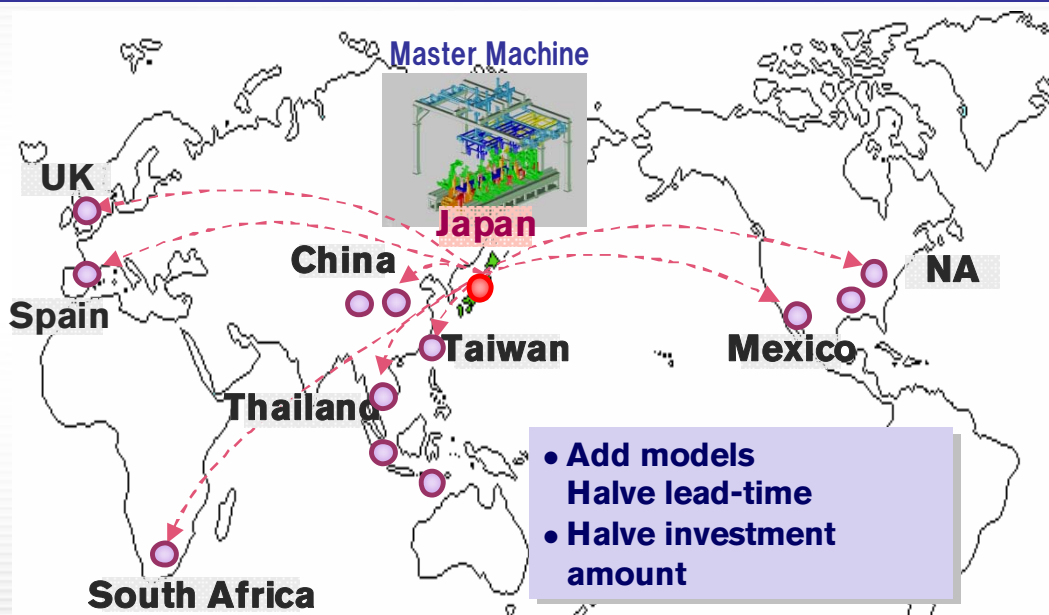
Nissan's global strategy

70 new model launches (SOP: start of production)

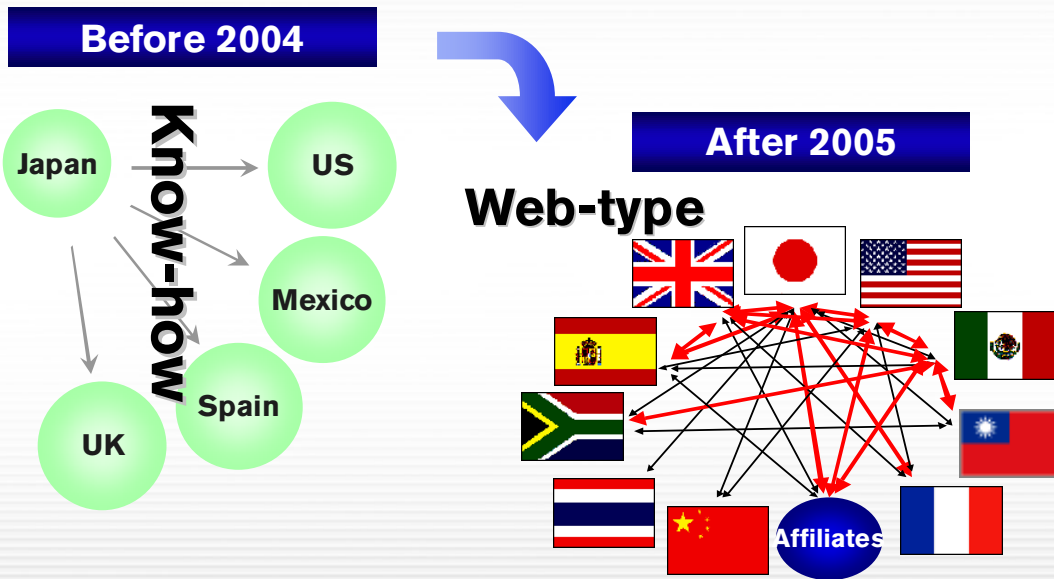


Standardizing hardware: Nissan Engineering Standard NIMS (Nissan Integrated Manufacturing System)

Globally deployed to 16 sites, 24 lines

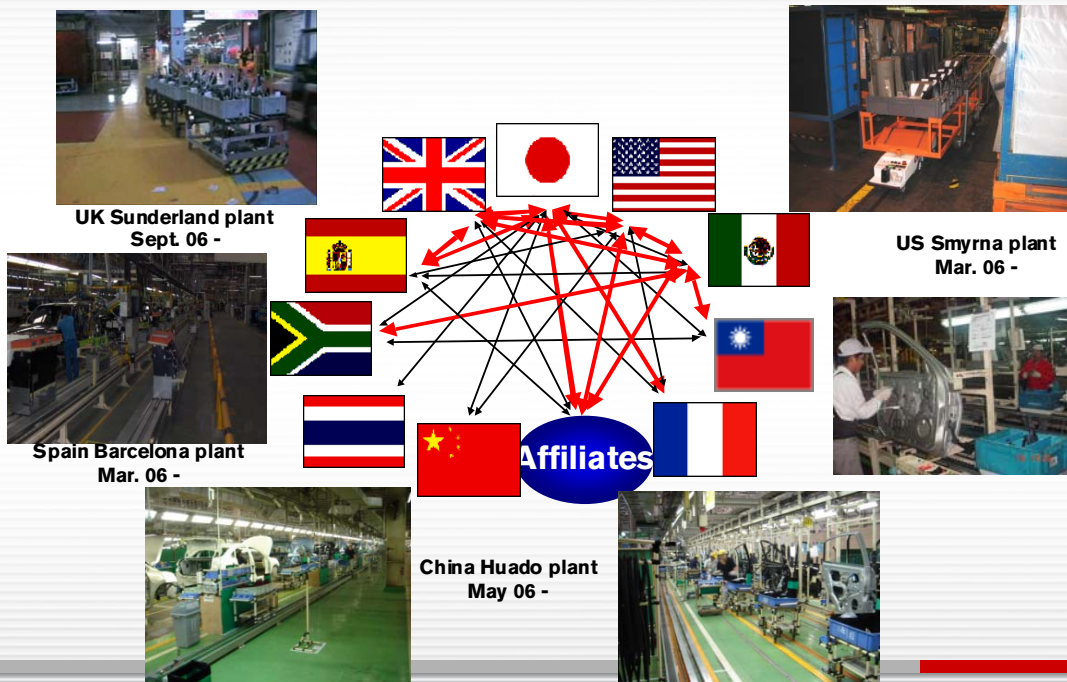


Radical progress of global friendly competition (internal benchmarking)

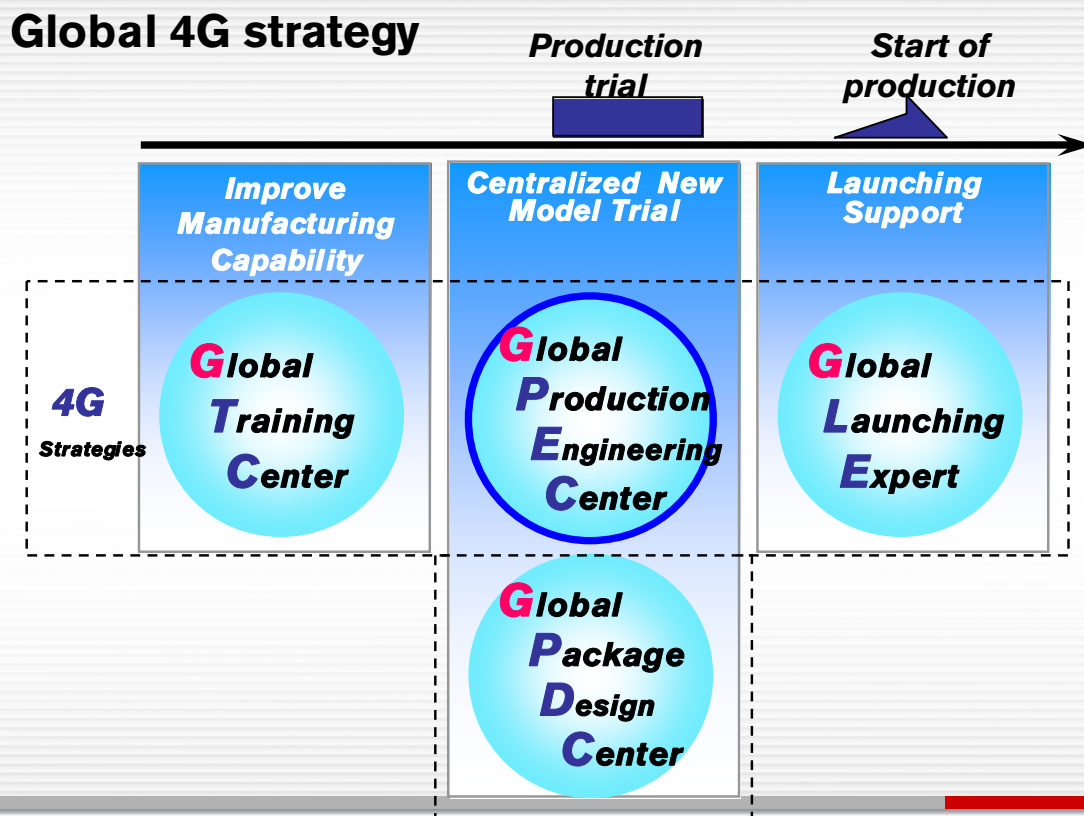


Scramble for wisdom, speed-up

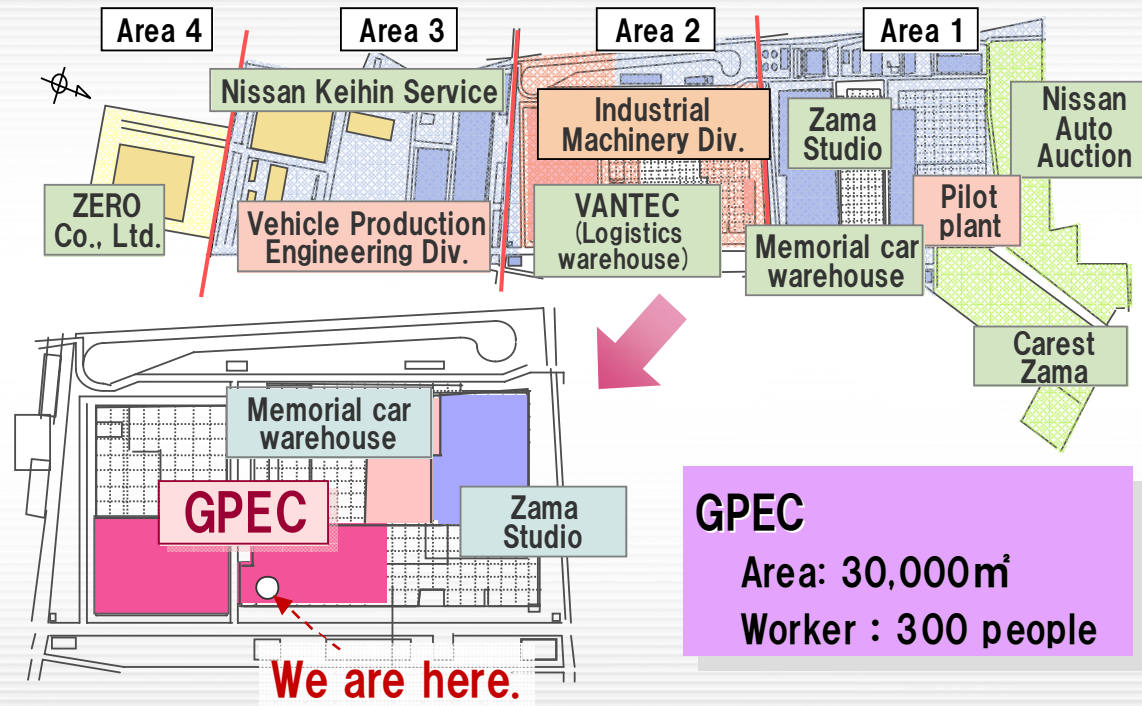
Kaizen examples expanding globally



- Nissan Production Way (NPW)
- New approach for globalization
- **Overview of Global Production Engineering Center**



Overview of GPEC

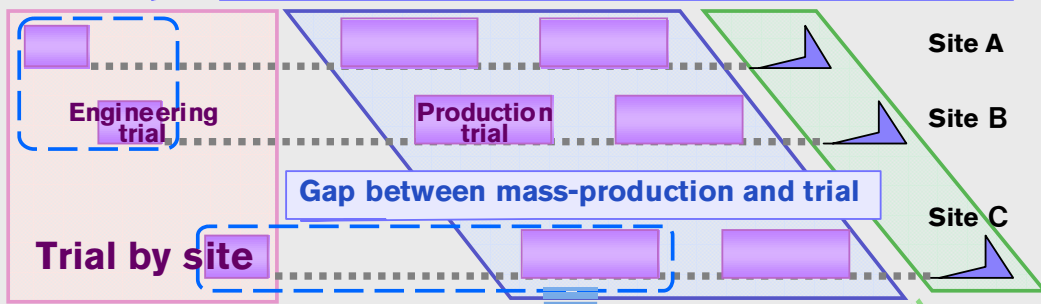


Aim of GPEC

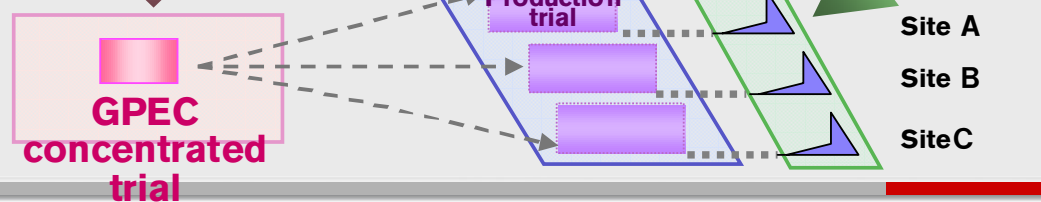
Difference from mass-production plant, issue sharing by project

Traditional process

- Need people for each project
- Share information (concerns, etc.) between projects

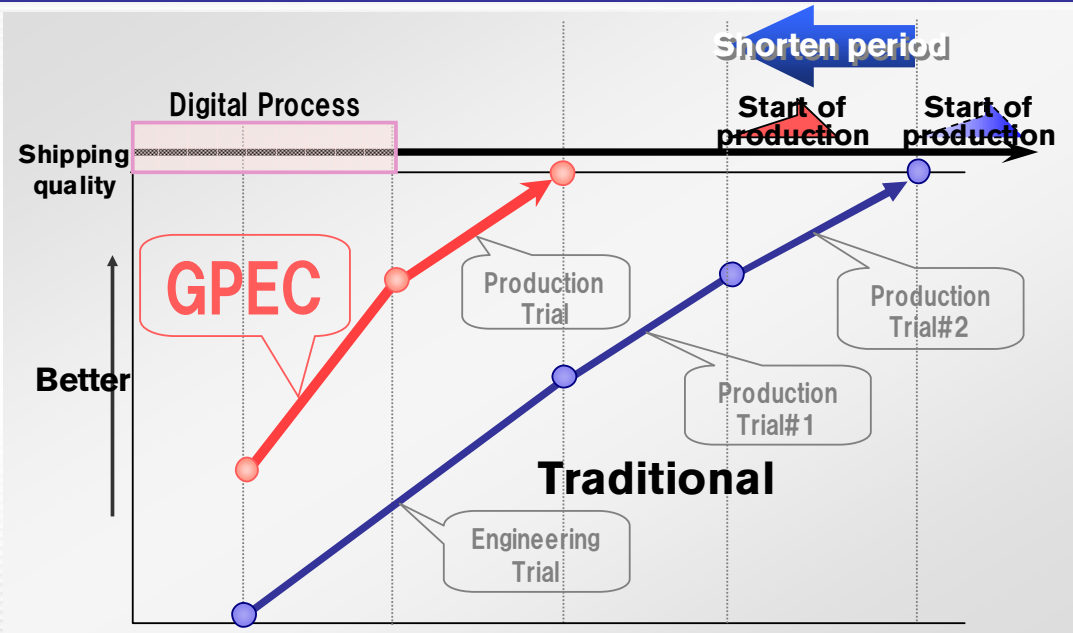


Current



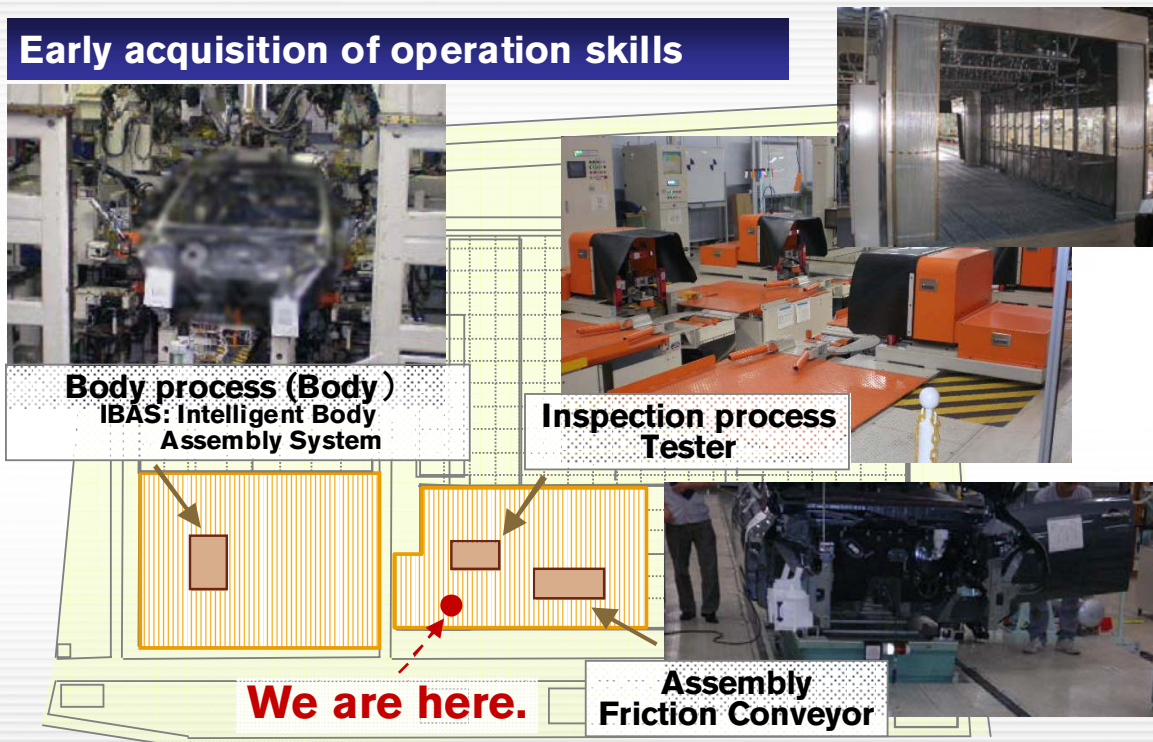
Aim of GPEC

Launching quality assurance & development lead-time reduction



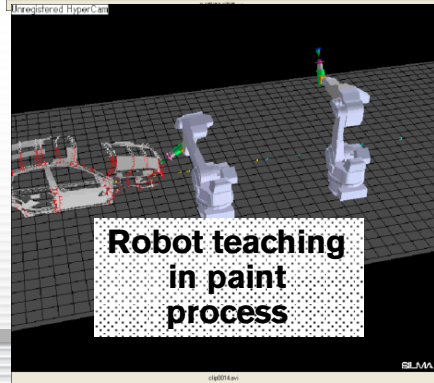
Facilities equivalent to mass-production plant

Early acquisition of operation skills

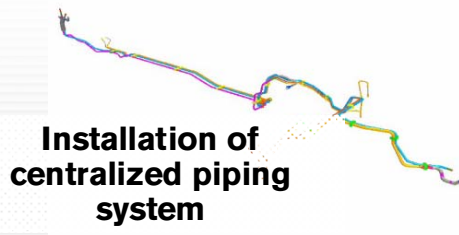


Digitalized know-how data

Transcript of jig & tools, inspection tools, control data, etc. to mass-production plant

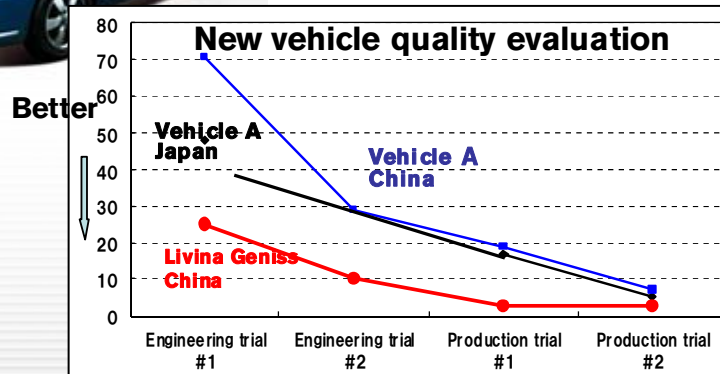


Robot teaching in body process



New model launch in General Overseas Market

Successful example of Livina Geniss in China



Douki (Synchronization) with customers

Reduction of lead-time from product development to production

[Engineering development - product]

Rese arch — Advanced developments

[Production development-Production]

Engineering Trial — GPEC — Production Trial

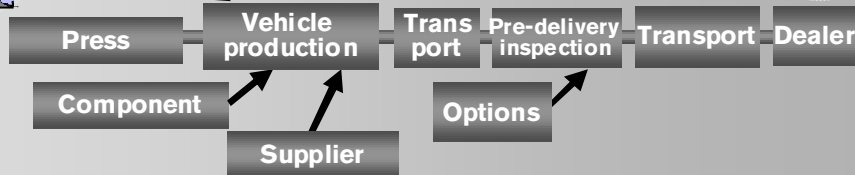
Delivery



Order

Production plan

[Order-Production-Transport-Delivery]



Nissan's *Monozukuri* (manufacturing) to the world

