

PASOLINK Competitive "MONOZUKURI"

January 17, 2008 Motoo Mizumura, President NEC Wireless Networks Ltd.

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Competitive "MONOZUKURI (Production)"

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- Characteristics of PASOLINK Production
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Outline of NEC Wireless Networks



Organization

Corporate Name	NEC Wireless Networks, Ltd.
Established	December 1973 (NEC 100%)
President	Motoo Mizumura
Number of Employees	526 (as of December 2007)
Major Operations	Production of Mobile & wireless telecommunication equipment (Carrier Network BU) Control system terminals, etc. (Social Infrastructure BU)
Certificates Acquired	Quality management ISO:9001 In October 1992Environmental management ISO:14001 In October 1997In Croise (Control anagement ISO:14001 In October 1997Information



Major Products

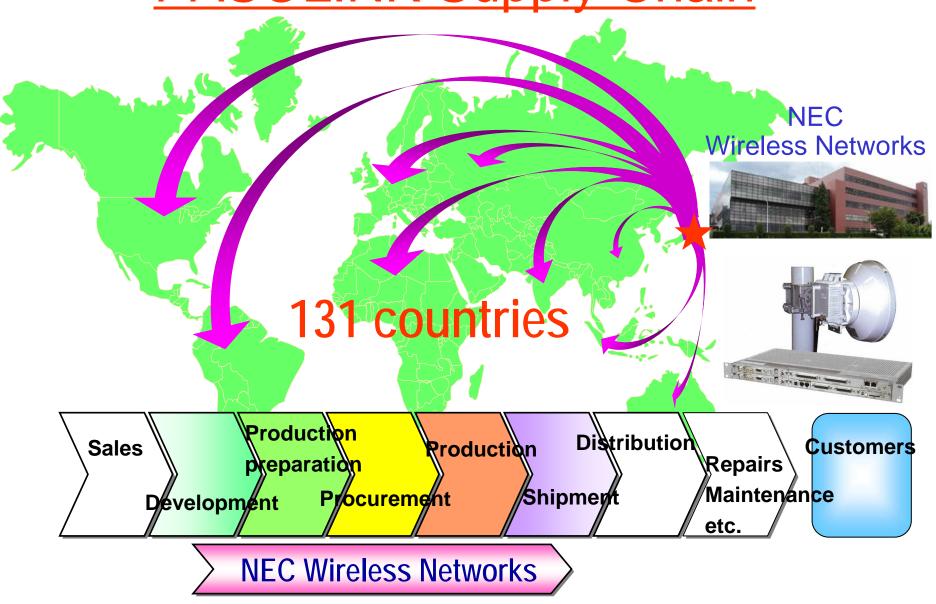




Competitive "MONOZUKURI"



PASOLINK Supply Chain





Characteristics of **PASOLINK** Production

←Flexible production based on orders reflecting various customer needs ~

Characteristics of Wireless Telecommunication Equipment

- Designed for various radio frequency policies in any country or region
- High reliability as network infrastructure

System needs of each customer

Lineup of over 1,000 product types !

PASOLINK series

*

Radio frequency

*

Transmission capacity

Interface



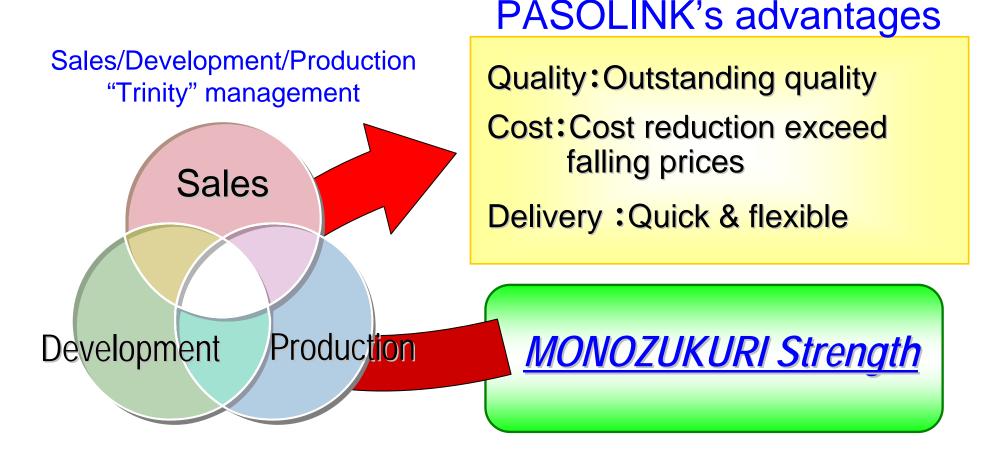
Market Requests





Strength of PASOLINK Business

Cope with needs through flexible production based on orders



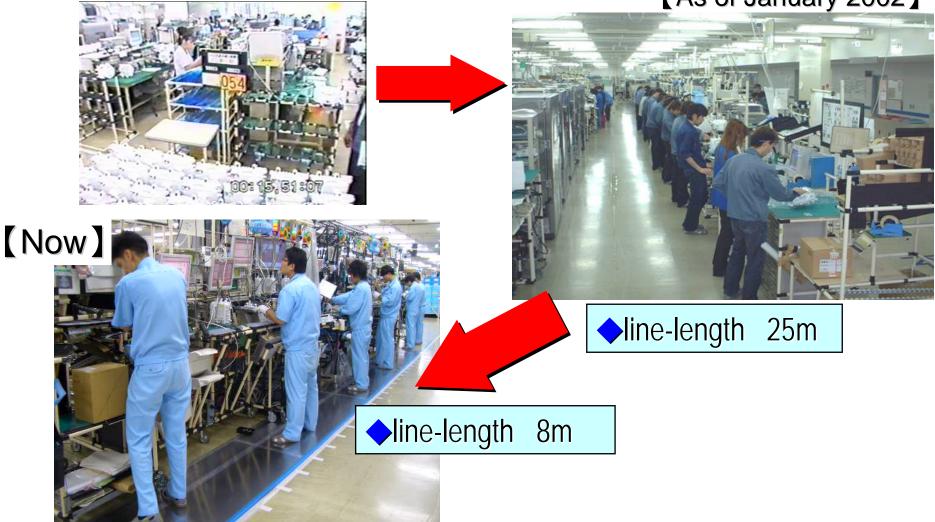


Production Line Reforms

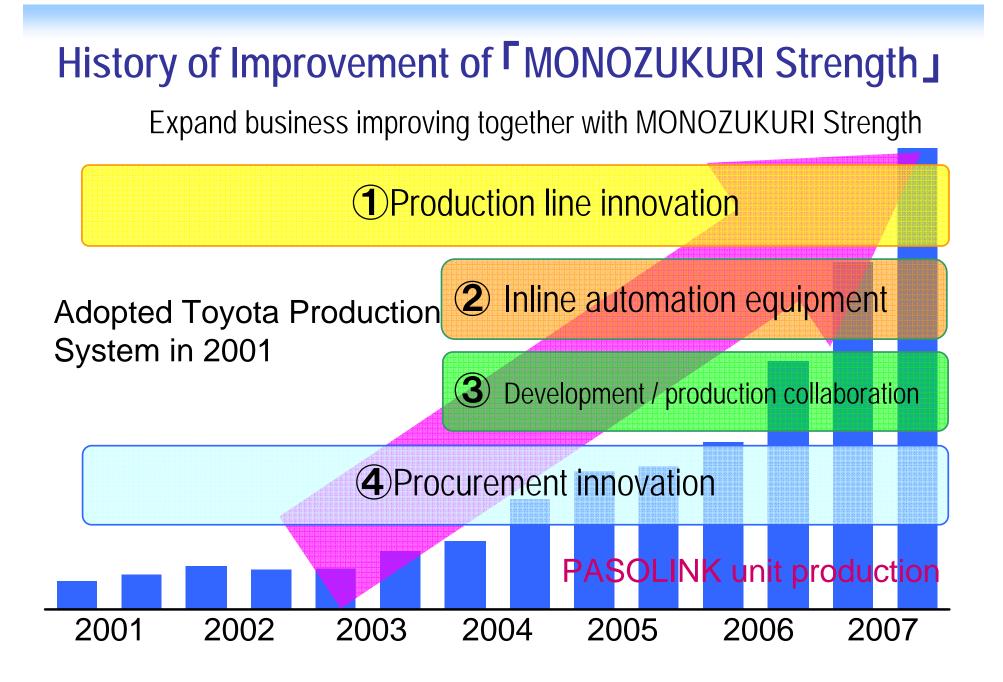
<PASOLINK ODU line>

[As of July 2001]

[As of January 2002]







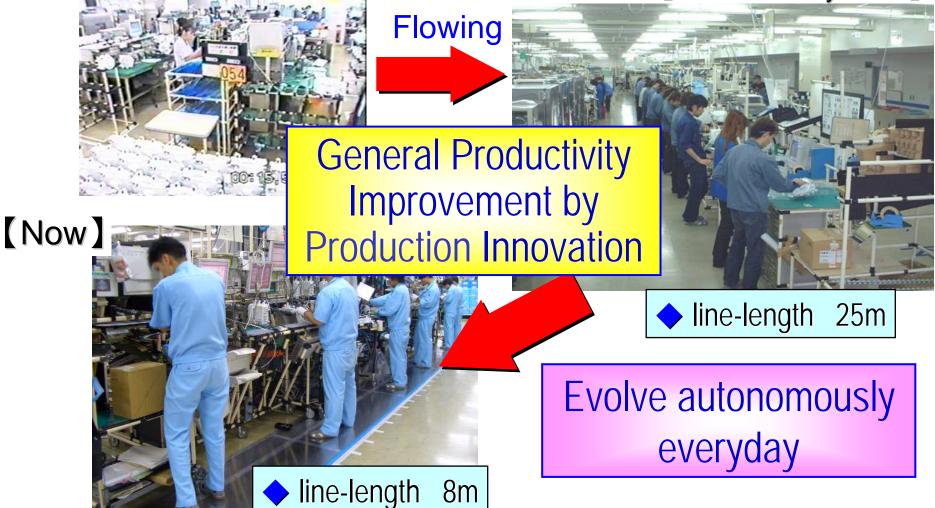


1.Line Innovation Activity(1)

<PASOLINK ODU Line>

[As of July 2001]







1.Line Innovation Activity(2)

Build the cost price and quality in line

1. Flowing

- No-backset smooth work
- Thoroughly eliminate inefficiencies
- 2. Mixing
 - -Achieve flexible, mixed production

3. Standard Operation

- Same rhythm, same outcome by everybody

4. Abnormal Stop

- Stop operation in case of any problem
 - → prevent defects from spreading on

Self-directive

evolution

everyday



2. Introduction of In-line Automated Facilities

→Hands-on activities of manufacturing & PE sections →

Standardized operations Clocklike stream

Small automated facilities for manufacturing & testing

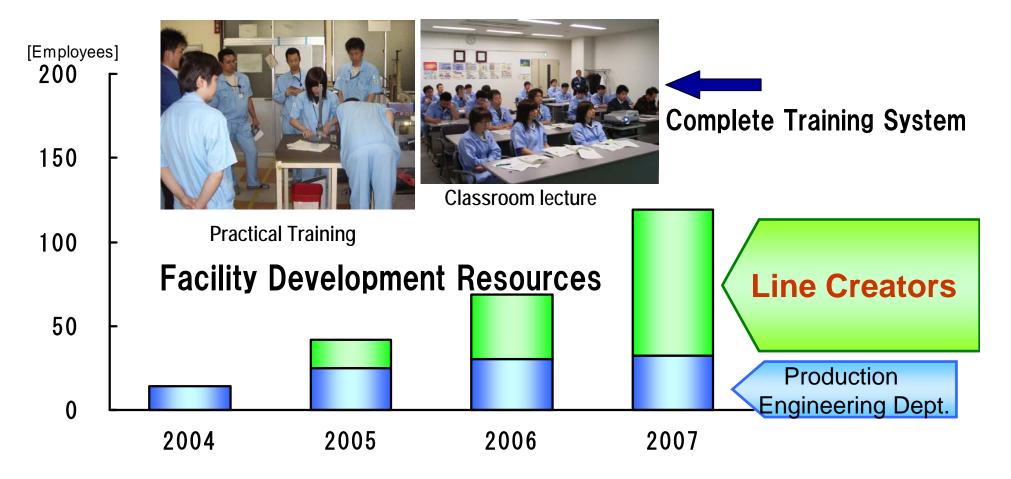
Improvement on the second time scale
Creation by line operators themselves
Cooperation with special technicians
Low-cost & small facilities
Quality enhancement





Line Creator

Line creators: production workers with facility development skills who can design production facilities by themselves





3.Development / Production Collaboration

Close collaboration between design engineers and production operators

- Feedback to designers from line workers
- Upper design aims for easy manufacturing
- Standardization at design phase focusing on "MONOZUKURI"
 - Line standardization by common platform design
 - Reduction in electron element number etc.

• Front Loading

- Quality enhancement
- Cost reductions exceeding price declines



4. Procurement Innovation

Stable procurement supporting highly mixed BTO production

High flexibility through close cooperation with suppliers

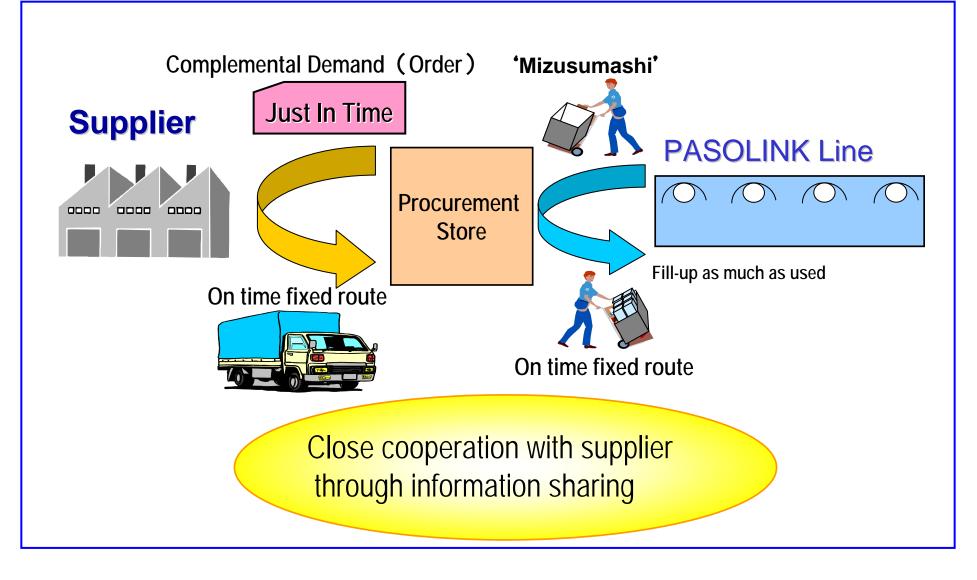
Reduction of parts variety

Just-in time procurement fully utilizing the "Kanban" system

In-house production of core parts



^FJust In Time J Procurement System

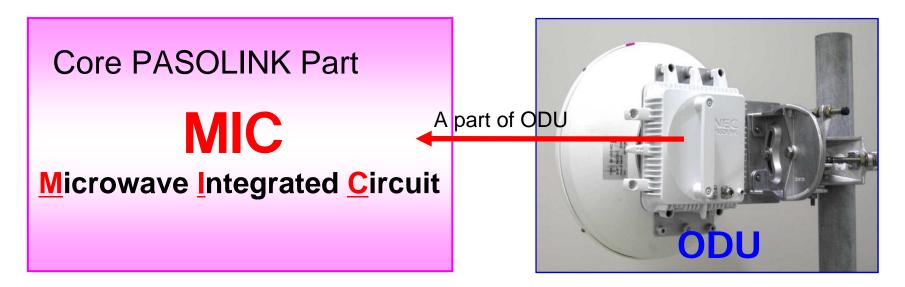


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Empowered by Innovation



In-house Production of Core Parts



Core technological PASOLINK part
 Sophisticated manufacturing know-how

with fine processing capability

Highly mixed In-house production & stable production



"MONOZUKURI Strength" Continuing Evolution

Sales/Development/Production "Trinity" Management As Industry Frontrunner

Outstanding Quality

Cost Competitiveness

High-Speed Shipping

Self-Directed Evolution Everyday



A Culture of Continuous Improvement is the strength of NEC Wireless Networks





Empowered by Innovation





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