



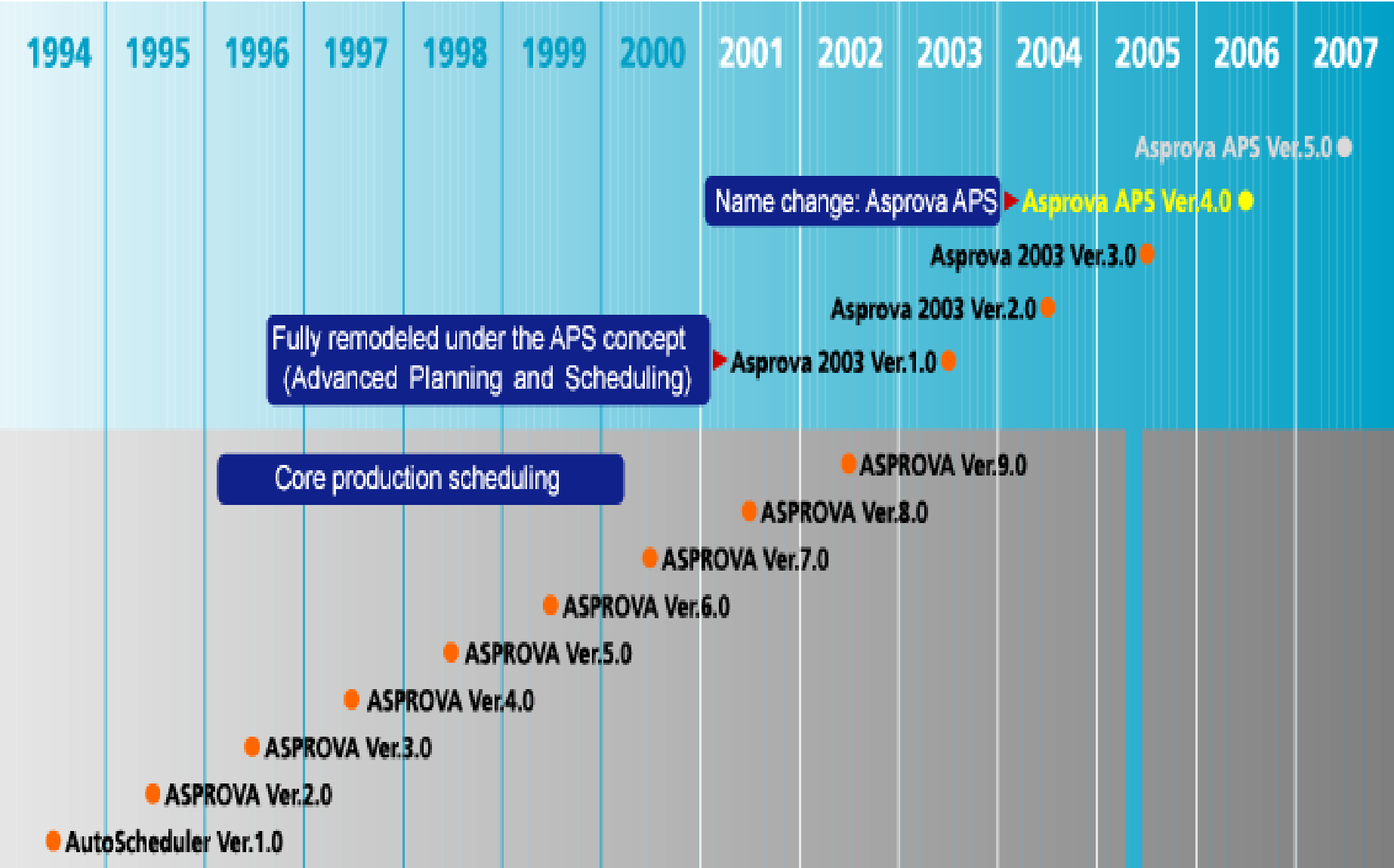
Asprova APS

APS (Advanced Planning and Scheduling) System With Network Support

**Comprehensively optimize production and enterprise management
with long-term, mid-term, short-term integrated planning**

- Established in 1994 as a Japan's first production scheduling software company
- Deployed 1102 units (as of 2007.01)
Japan 960, Overseas 142
- Japanese domestic market share 52.4%
(by Fuji keizai)

History of Asprova



- **Overseas Subsidiary Offices**

 - Asprova Beijing (China 2005)

 - Asprova Seoul (Korea 2006)

 - Asprova Europe (Germany in March 2007)

 - Asprova America (The US by end 2007)

- **Global Resale Partners**

 - Japan, China, Korea, Thailand, the US, Mexico, the UK, Spain, Portugal

- **Multiple languages Available**

 - English, Japanese, Spanish, Portuguese, Chinese (Simplified, Traditional), Korean, German, Thai,

For **overseas expansion**... Asprova APS

Our **global support system** is ready for your international expansion

Asprova is already in use in over 1000 factories worldwide and is supported by a network of more than 30 licensed distributors in Japan, the United States, Canada, South Korea, China, Hong Kong, Taiwan, Indonesia, Malaysia, Singapore, Thailand, Mexico, Spain, Portugal, Turkey, and the United Kingdom. Asprova is available in English, Japanese, Spanish, Portuguese, Korean, and Chinese (Simplified, Traditional).



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Asprova APS modules

For total support of your production planning ... Asprova APS

The following solutions are available through three level **long-term, mid-term, short-term** planning

-
- 1 Long-term scheduling for ... Annual business plan Asprova LS, Asprova MRP, Asprova KPI**
Input sales forecast, calculate KPI through FCR (or MRP), and output a long term workforce requirements plan, equipment load plan, purchase plan, and sales/profit plan.

 - 2 Mid-term scheduling for ... Production preparation Asprova LS, Asprova MRP**
Input customer forecast, and output through FCR (or MRP) a 3-month sales/profit plan, equipment load plan, workforce plan, production plan, purchase forecast, subcontracting forecast, and long lead time item purchase instructions.

 - 3 Short-term scheduling for ... Work instructions Asprova MS (production scheduler)**
Input manufacturing orders, and output through FCS work instructions for the shop floor, subcontracting instructions, and short lead time item purchase instructions.

 - 4 Integrated mid/short term scheduling for ... Order/forecast coordination Asprova APS**
Carry out production preparation based on a forecast, then input firm sales orders, and generate a schedule coordinating firm orders with the forecast to output work instructions for the shop floor.

 - 5 Manufacturing BOM for ... Production data standardization Asprova BOM, Asprova MRP**
If your basic production data is not yet in order, then your first step is to prepare the manufacturing BOM. Reduce mistakes and improve quality by standardizing production data.

 - 6 Network support for ... Production data sharing Asprova NLS, Asprova DS**
Enable use from any PC on your network to facilitate sharing of global production data.
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Awards Winning Software

Feb 2007: Japan Venture Awards (presented by Ministry of Economy, Trade and Industry of Japanese Government)

Nov 2000: Best Manufacturing Management System/Product (The Official CIM 2000 Awards in UK)

Apr 2000: 12th Annual Small and Medium Enterprise Excellent New Technology in Japan

Oct 1999: Software Products of the Year 1999 in Japan

Jun 1996: 4th Annual Small and Medium Enterprise New Frontier Prize (Japan Industrial Newspaper)

Your factory can expect **similar results** too ...

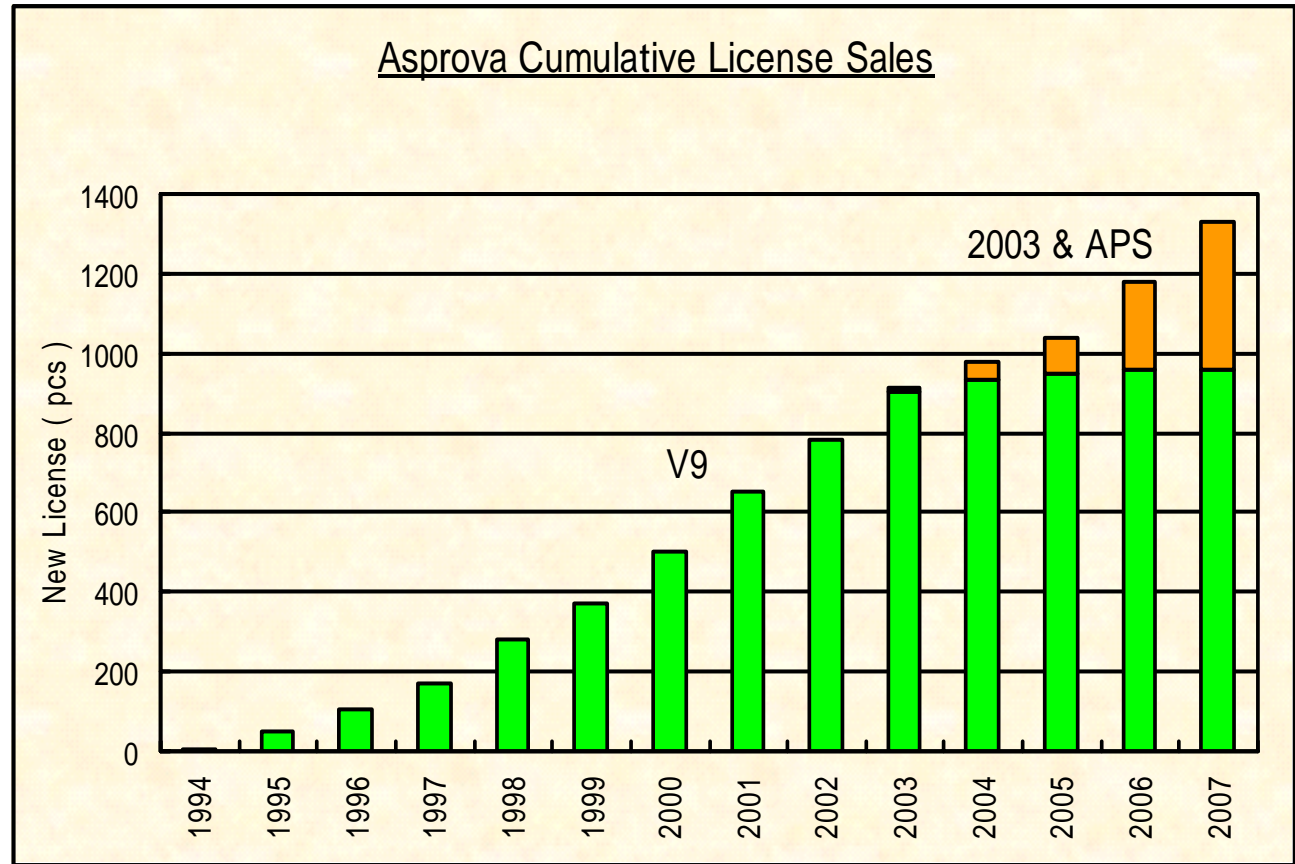
As Asprova has a wealth of experience with more than 1000 users throughout the world, some of these examples may be applicable to your case. Asprova is highly regarded across diverse industries, as shown below:

<p>Electric Electronics</p>	<p>LEDs; connectors; solderless terminals; microprocessors; printed circuit boards; silicon wafers; air conditioner cases (plastic molding); speakers; ceramics; watches; semiconductors; lead frames; CD-ROMs; CD-R / DVD / CD-ROM drives; electric wire; LCDs; stereos; photo masks; WF cables; sockets; mobile phones; connectors for mobile-phones; IC packages; aluminum electrolytic capacitors; photoresist; TFT modules; piston rings; needles; piano wire; printer pins; automotive meters; photoelectric board; digital cameras; car navigation systems; refrigerators; light fixtures; sensors; signal controllers; solar-powered battery modules; vacuum fluorescent displays; batteries; multipolar connectors; power cables; mainframe computers ...</p>
<p>Automotive</p>	<p>Engine parts; doors; chassis; interior (plastic molding); metal molds; shock absorbers; vehicle inspections; pipes; tubes; engines; cranes; rubber; aircraft parts; test bodies; brake parts; high-pressure hose; seat fabrics; wire rope; transmissions; camshafts; crankshafts; cases; wire harnesses; motorcycles; bicycles ...</p>
<p>Machinery</p>	<p>Looms; kitchen appliances; machine tools; agricultural machinery; industrial machinery; optical instruments; light fixtures; air conditioners; heating appliances; plastic parts for office equipment; control computers; material handling equipment; power transmission equipment; power-driven hand tools; internal combustion engines; in-line instrumentation systems; wafer visual inspection equipment; centrifuges; sewing machines; heat treatment equipment; tanks; water tanks; turbines; condensers; model engines; vacuum pumps; wafer precision equipment; food products machinery; electric facilities; gas and water-related tools; water supply-related instruments; electric welders; stage lighting fixtures; sewing machine parts ...</p>
<p>Metal</p>	<p>Drills; screws; cannons; wire; plumbing fixtures; guard rails; pipes; magnet wire; steel; sheet metal parts; fence; metal bridge parts; blades; connecting rods; nuts; industrial precious metal products; drawing alloys; aluminum for beverage cans; blades for cutting machines; gears; metal springs; timer parts; precision gears; aluminum foil; sheet copper; ship plates; drawn copper products; specialty steel products; cutting tool tips; lubricating oil packaging; beverage cans; magnets ...</p>
<p>Non-metal</p>	<p>Corks; packaging; textiles; paper; shipping blocks; camera films; rubber products; ABS resin; UV ink; gravure ink; printing of packing materials; coated abrasives; resin hose; coating materials; dental materials; film sheets; ceramic base for electronic parts; tiles; firebricks; new ceramics; catalysts; paper clay ...</p>
<p>Consumer goods</p>	<p>Fermented soybeans; detergent; flour; plastic bags; plastic food containers; plastic models; office goods; fishing reels; microwave dinners; magnets; wood processing; socks; cans; cosmetics; rubber stamps; ballpoint pens; shampoo; shopping bags; cardboard; home exterior products; drinking water; entranceways; underfloor storage units; fixture components; shoes; toy parts; necklaces; stockings ...</p>
<p>Medical</p>	<p>Medical products; test drugs; medical equipment; laboratory testing reagents; granulated powder; pills ...</p>
<p>Chemical</p>	<p>Adhesives; plastic; asphalt; silicon; motor oil; polyethylene; polypropylene; molding materials; rubber; fluorine chemical products; polyvinyl chloride; polyvinyl chloride paste ...</p>

Asprova Users

Panasonic, Matsushita, Canon, Sony, Sharp, Nikon, Hitachi, Sanyo, Mitsubishi, Sumitomo, Mitsui, Kyocera, Ricoh, NEC, Fujitsu, Dyson, Olympus, Citizen, Casio, Fuji Film, Fuji Xerox, Toshiba, Toray, YKK , Denso, Toyota, Nissan, Honda, Mazda, Kawasaki, Bridgestone, Komatsu, IHI, Japan Steel, Hoya, Fanuc, Yamaha, Shiseido, Suntory, Ajinomoto, and +1,000

Demand Increase of Asprova Production Scheduler



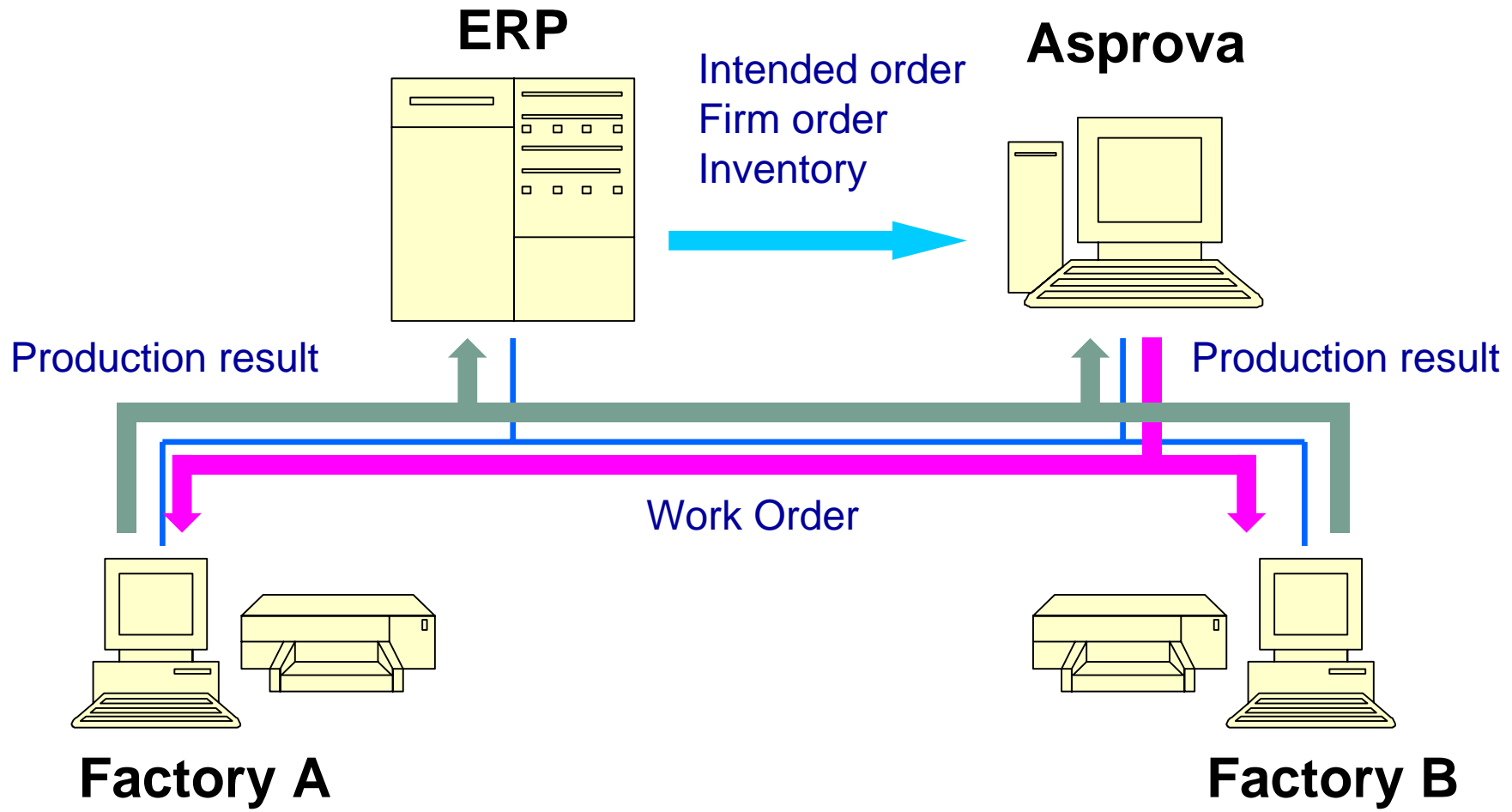
Asprova Benefits to Improve Profitability

- Visibility of the Factory
- Assure the Delivery Schedule
- Shorten the Delivery Schedule
- Meet the Urgent Order Requirement
- Ultra High Speed Scheduling
- Reduce Finish & WIP Inventory
- Find the Bottle Neck
- Bottle Neck Centered Scheduling
- Asprova Express - Easy Customization

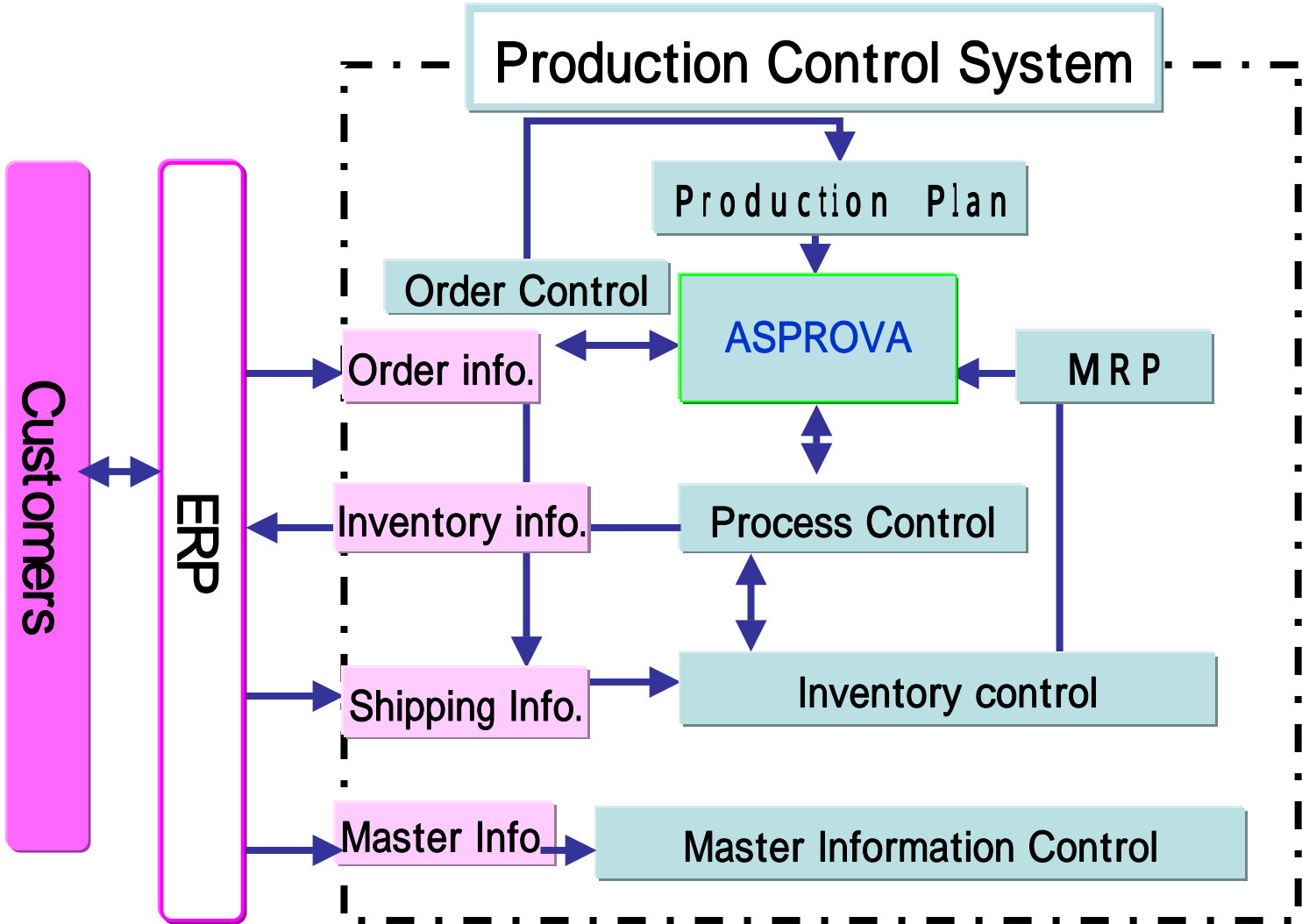
Advanced Scheduling Optimization (Interface with ERP=Asprova ASO)

- Asprova ASO for mySAP ERP
- Asprova ASO for QAD MFG Pro
- Asprova ASO for Oracle EBS
- Asprova ASO for Tpics

System structure



System Structure



SAP + Production Control System Example (Sony Chemical China)

