

Oracle Supply Chain Management

- *Introduction*
- *Supply Chain Management*
- *Cases*

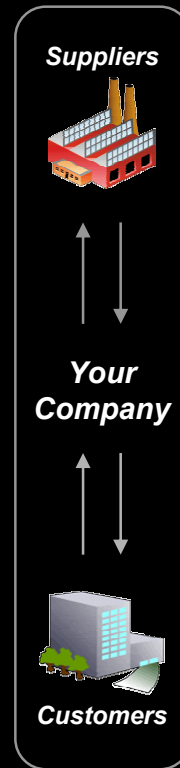
Traditional Supply Chain Pressures

Margin Pressure

- Intensified Global Competition
- Limited Pricing Power
- Economic Uncertainty
- Shorter Product Lifecycles

Customer Expectations

- Product & Service Innovation
- Higher Quality, Rapid Delivery
- Channel Demand Variability
- Decreasing Customer Loyalty



Response:

Automation

**Faster, Cheaper
Processing**

New Supply Chain Pressures

Margin Pressure

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- Economic Uncertainty
- Shorter Product Lifecycles

Customer Expectations

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- Higher Quality, Rapid Delivery
- Channel Demand Variability
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Supply Chain Complexity

- Highly Customized Products
- More Global Supply Base
- Contract Mfg / Outsourcing
- Fragmented Supply Chains

Compliance & Risk Mgmt

- Corporate Governance
- Industry Mandates
- Communication Standards
- Environmental Responsibility

Create New Challenges

How Do I...

- ... select the right balance between outsourcing and in-house production?
- ... structure pricing strategy to better shape product demand?
- ... deliver 100% perfect orders while still minimizing inventory?
- ... recall only contaminated lots while keeping good products on the shelf?
- ... deliver premium service to my top customers while containing cost?
- ... ensure service quality while relying on 3rd party service providers?
- ... comply with industry mandates such as RFID and still maintain margins?

Supply Chain Management

- **New customer demands**
- **More reliable products <> less possibilities for service income**
- **More complex products <> Higher skilled people - higher costs**
- **Develop new service products**
- **Better resource utilization and better integrated value chains**



Using Oracle planning tools for optimazing resources and spareparts

Information Promotes Collaboration

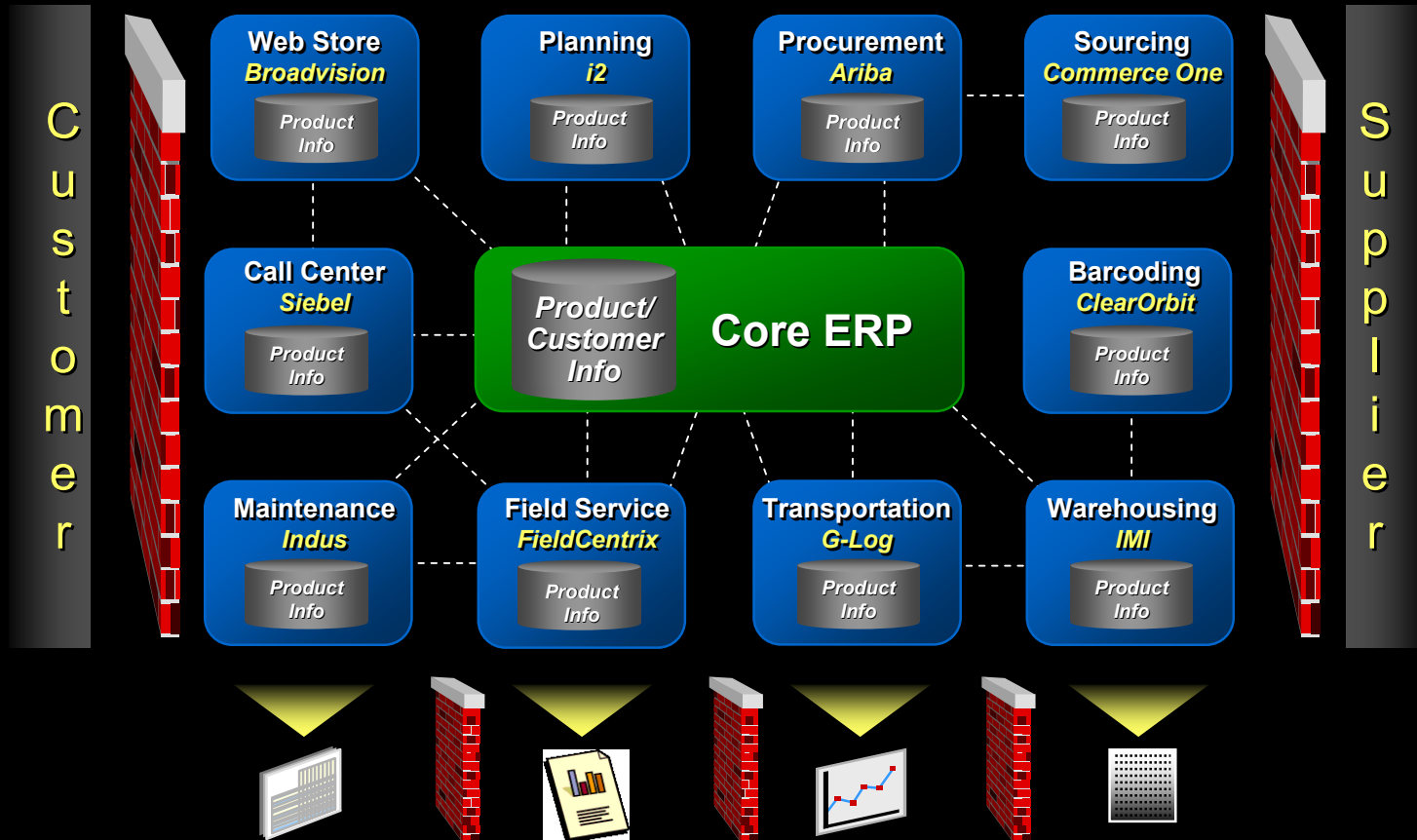


However, There Are Obstacles...

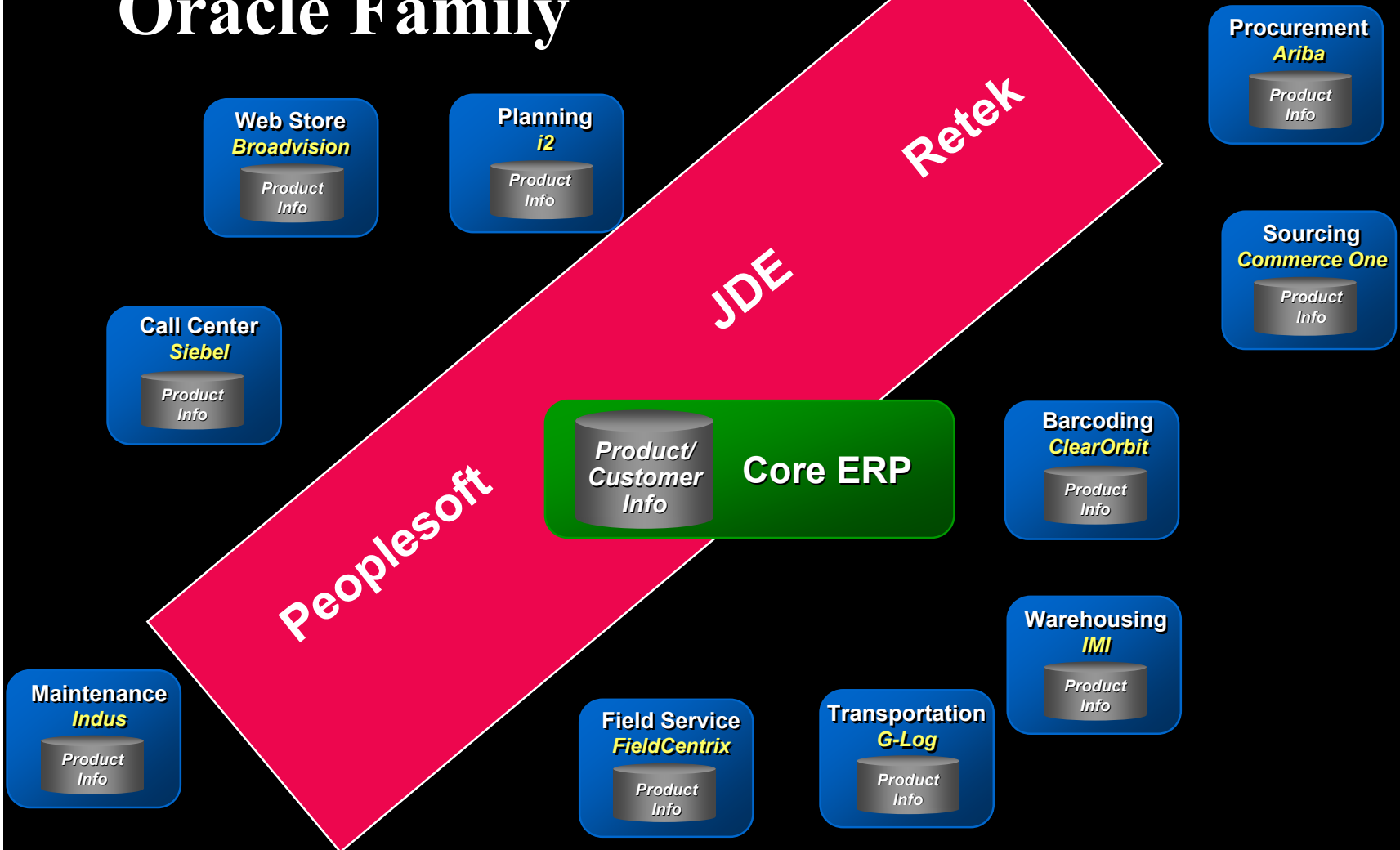
- Disparate Systems, Processes, Technologies

- Fragmented Data in Information Silos

- Limited Partner Communications



Market Changes – New members in the Oracle Family



Oracle's Approach to Business Applications

Unique Information Architecture



- Start with leading business practices
- Build a robust suite of applications on a common data model
- Enable modular deployment by business flow
- Leverage open standards to promote integration and low-cost deployment

Supply Chain Footprint

Product Development

- Adv Product Catalog
- **UCCnet Trading Connector**
- CAD Sharing & Viewing
- Collaboration Suite
- Product Intelligence

Order Management

- Order Management
- Configurator
- Advanced Pricing
- Release Management
- Receivables
- Order Intelligence

SC Planning

- Collaborative Planning
- Demand Planning
- Advanced SC Planning
- Constraint Optimization
- Inventory Optimization
- Global Order Promising
- Exception Management
- Planning Intelligence

Procurement

- Sourcing
- **Procurement Contracts**
- iProcurement
- **Services Procurement**
- Purchasing
- Supplier Collaboration
- **Oracle Supplier Network**
- Payables
- Purchasing Intelligence



Supply Chain Footprint

Logistics

- Inventory Management
- Mobile SC Apps
- Warehouse Mgmt
- **Transportation Planning**
- Transportation Exec
- **Sensor Based Services**
- **Fulfillment Intelligence**



Manufacturing

- Mfg Scheduling
- Discrete Manufacturing
- Flow / Lean Mfg
- Process Manufacturing
- Project Manufacturing
- Shop Floor Mgmt
- Mfg Intelligence

Service

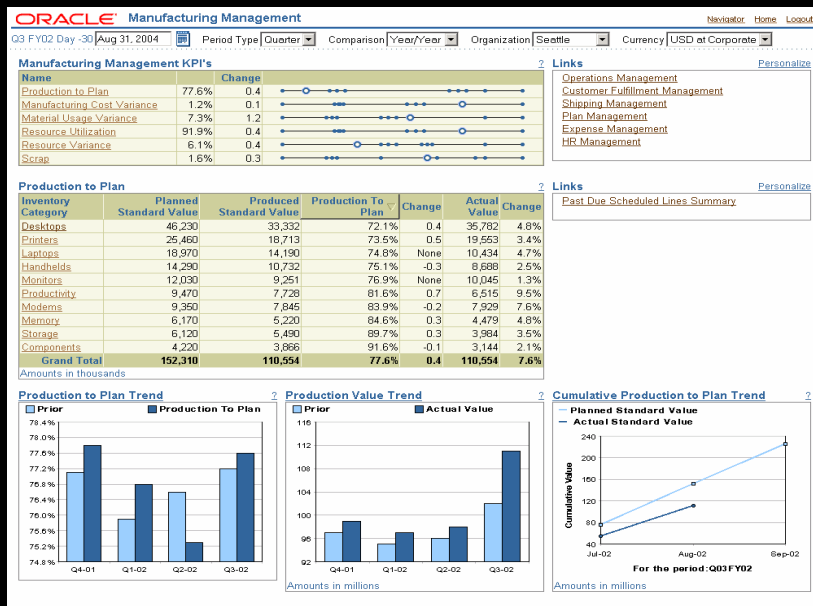
- iSupport
- TeleService
- Field Service
- Mobile Field Service
- Advanced Scheduler
- Spares Management
- Depot Repair
- Service Contracts
- Interaction Center
- **Service Intelligence**

Maintenance

- Enterprise Asset Mgmt
- Self-Service Work Reqs
- Property Manager
- Maintenance Intelligence

Information Drives Decision Making

Identify and Act Upon Improvement Opportunities

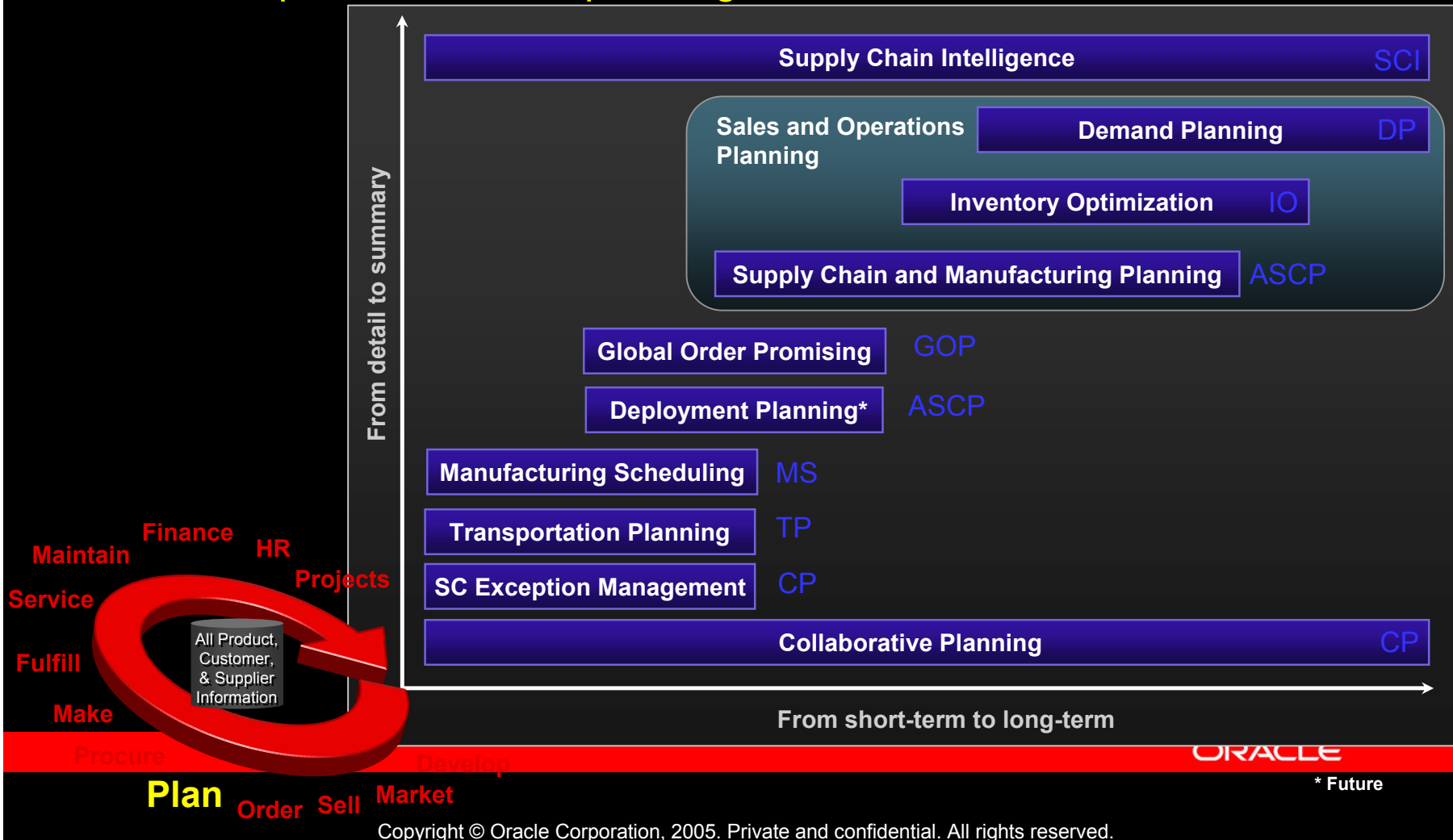


- Real-time updates on key performance indicators
- Complete information from summary to detail
- Information across all supply chain domains
- Presentation via role-based dashboards
- Internet browser-based delivery to your desktop
- Compare performance against different time periods and organizations



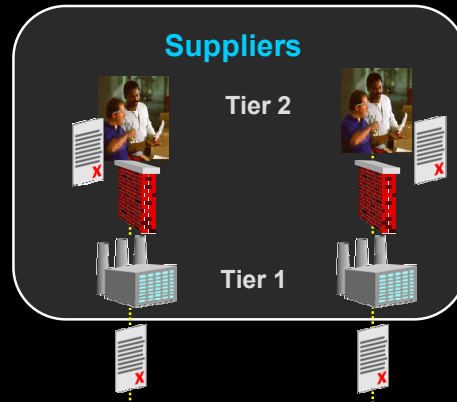
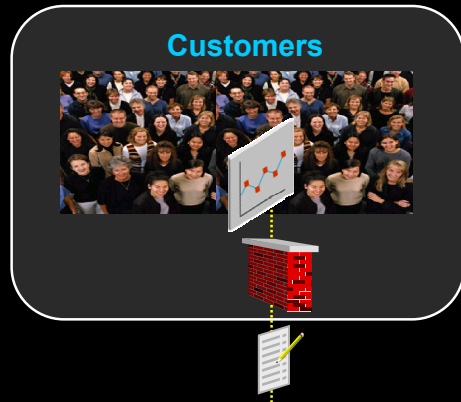
Oracle Advanced Planning

Complete e-business planning solution

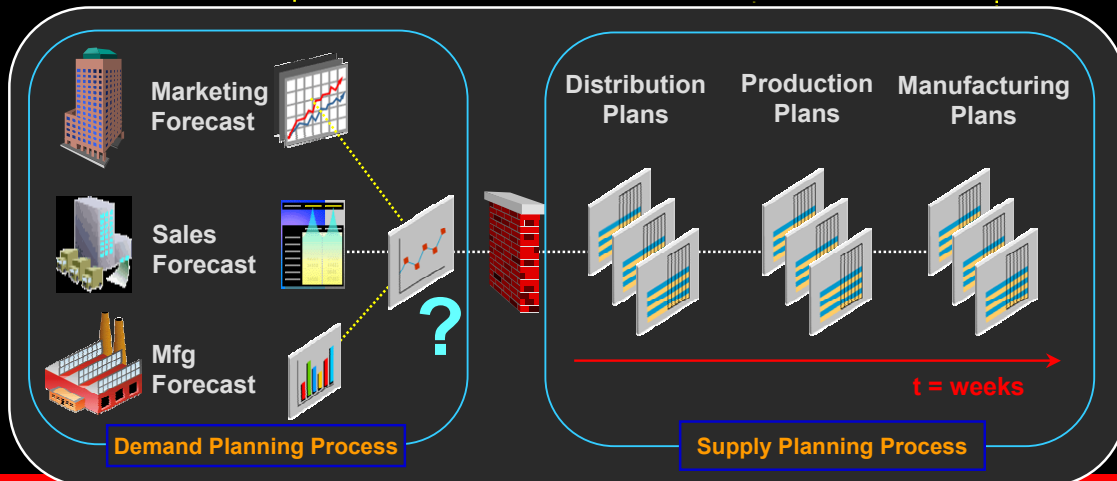


Traditional Approach

Multi-step planning processes, high latency, limited collaboration



- *Response 1:*
Maintain Excess Inventory
- *Response 2:*
Reserve Production Capacity



ORACLE

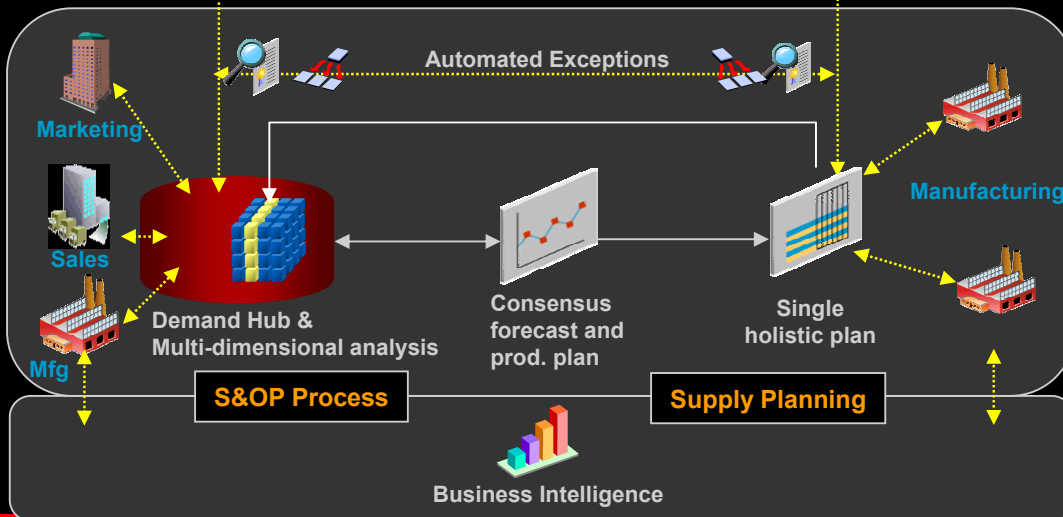
Supply Chains Built on INVENTORY

Move To A More Competitive Model

E-Business planning solution: zero latency, real-time collaboration



- Enable closed loop collaborative planning processes across your value chain
- Have complete supply chain visibility
- Make better decisions
- React immediately to disruptions in supply chain



ORACLE

Build a responsive Supply Chain on **INFORMATION** not inventory



- Powec – Norwegian based company bought by Power One
- Sell and produce power supplies and energy systems
- Started to implement a new manufacturing solution
- Focus changed to implement a new global Supply Chain Solution

Power-One Tools

Site Search

[Search Careers](#)

[Download Graphics](#)

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[Product Selector](#)

[Where to Buy](#)

[Download Data Sheet
By Part Number](#)

Locate Product Inventory

Enter Model Number

Europe

Enter a DC-DC or AC-DC power supply model and geographical area to locate distributor inventory.

Please contact your local representative for DC Energy System inventory information.

(POWER) 6.89 +0.34

As of 10/27/2004 3:19 PM EST

FNP300 AC-DC Front End



Understand the advantages of a microcontroller-managed AC-DC front end

[Read More](#)

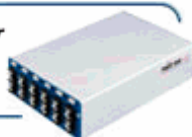
Z-One Digital IBA
Digitally integrated power management and conversion architecture dramatically simplifies power system development ([read more](#)).

Forza Power System
Forza Power System delivers up to 16kW from a single-shelf configuration ([read more](#)).

FNP300
Onboard microcontroller manages AC-DC front end I²C interface ([read more](#)).

Power-One Announces On-Time Z-One™ Digital IBA Production Release ([read more](#))

AC-DC Power Supplies ([overview](#))



[Product Selector](#)
[Download Data Sheets/App Notes by Part Number](#)

Board, chassis, & rack mount
Modular high power products
Battery chargers
Cassette style
DIN-rail mount
CompactPCI
Distributed power front ends

DC-DC Converters ([overview](#))



[Product Selector](#)
[Download Data Sheets/App Notes by Part Number](#)

High density bricks (1/8 to full)
maXYZ IBA products
Non-isolated SIP's
Industry-standard board mount
Rack, chassis, & DIN-rail mount
Cassette style
Compact PCI

DC Energy Systems ([overview](#))



[Product Selector](#)
[Download Data Sheets/App Notes by Part Number](#)

Modular rectifiers
System controllers
Monitoring/Management software
Power subracks and shelves
Primary and secondary distribution
Complete power systems

Supply Chain Management – Vision Statement

- Provide Power-One with a competitive advantage by driving to the lowest cost and the shortest lead times.
- Building a cost effective Global Supply Chain by using Oracle planning tools, techniques and the right people.
- Be a part of our Customer's Supply organization.



Energy Solutions - Supply Chain in Action

Move production from Norway to Far East



Module Manufacturing Center



System Integration and Test Center



Distribution Center



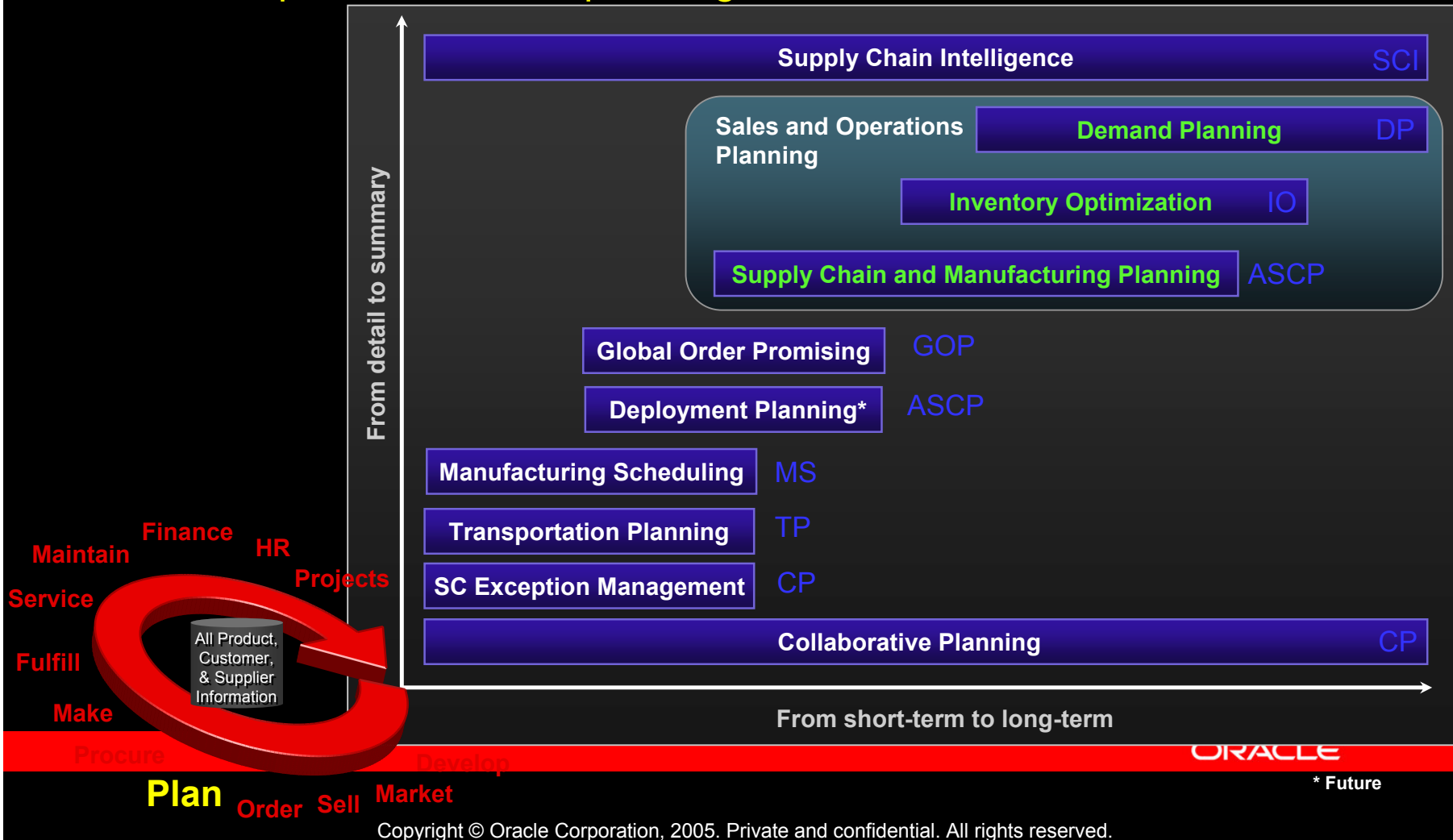
Future Facilities

Global System Integration

- **Deliver global product's for global customer's**
 - **“The customer shall not see the difference”**
- **Using Oracle Forecasting and Supply Chain Planning for Optimization**
- **One database for traceability**
- **One tool for recording serial number's on deliveries**
- **Global distribution of documentation**
- **Can deliver from “anywhere” through our 3PL-partner**

Power One using Oracle Advanced Planning for the Global Supply Chain

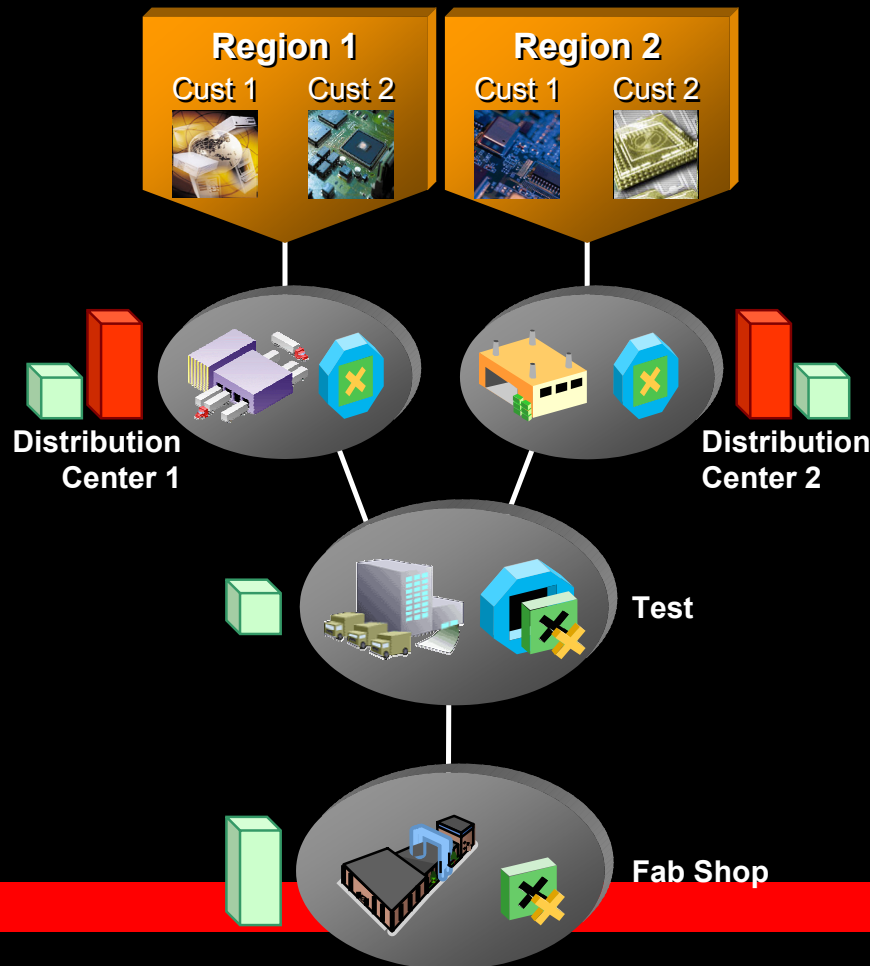
Complete e-business planning solution



Inventory Postponement Optimization

Inventory Optimization

Utilize Postponement to Support the Lean Enterprise



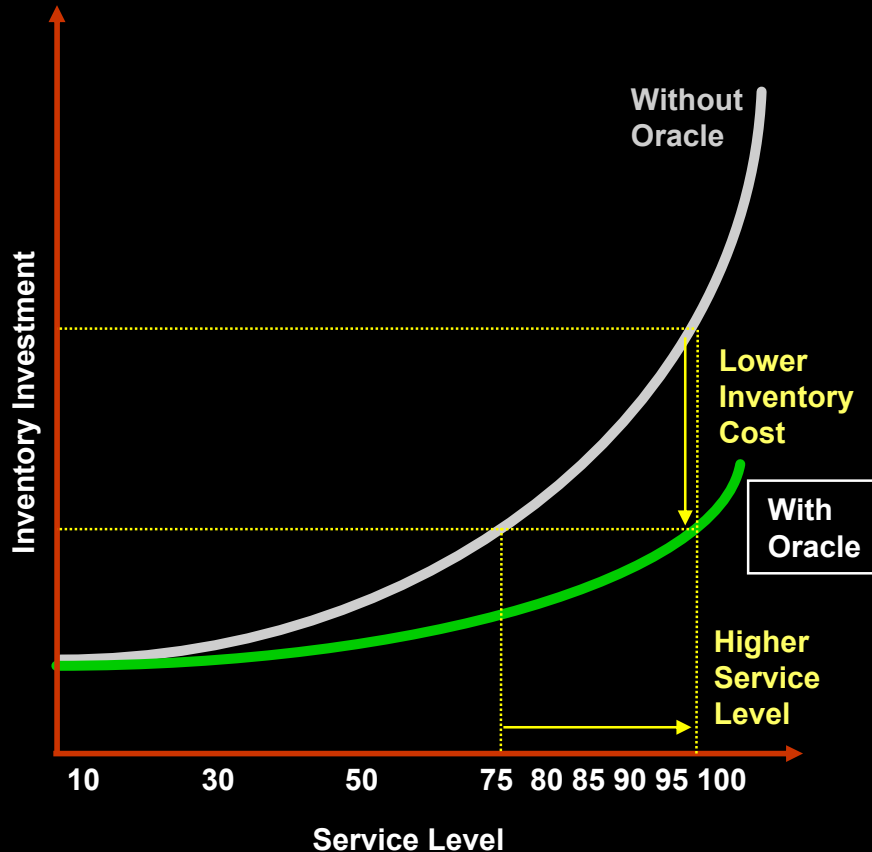
- Determine Where to Hold Inventory to Guarantee a Desired Service Level
 - Manufacturing plants
 - Distribution centers
 - Central warehouses
- Determine What Stage of Production to Hold Inventory
 - Finished goods
 - Die bank
 - Wafers
- Postpone Value-Add Activities Until Actual Demand Pull

 Initial Safety Stock Levels

 Safety Stock with Postponement

Inventory Postponement Optimization

Key capabilities



- Reduce inventory without sacrificing customer service
 - Postponement
- Manage supply chain variability
- Choose the best service level strategy based on cost and revenue
- Invest in profitable channels, products, and customers
- Manage seasonality and product life cycle characteristics
 - Recommend time-phased safety stock to supply planning
- Out-of-the-box optimization
 - For planners, not programmers

Postponement Analysis

Workbench

Printable Page

Search

Show Search

Display using Preference Set



Create/Edit

Save As Default

Go

TIP Select one or more plans and drilldown

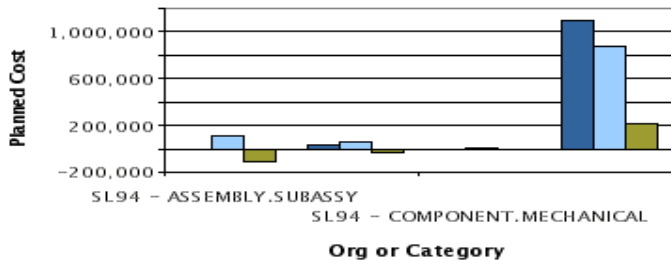
SL94

Safety Stock

Hide Graph

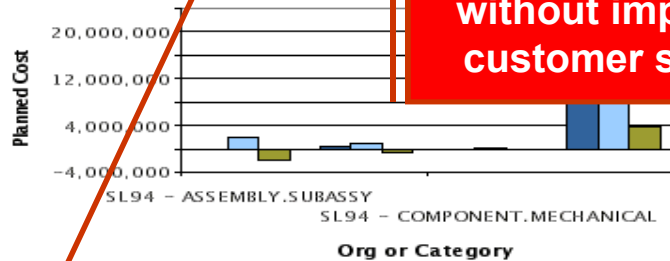
Safety Stock Carrying Cost - No Postponement
 Safety Stock Carrying Cost
 Safety Stock Carrying Cost Savings

Safety Stock Carrying Cost Breakdown



Safety Stock Inventory Value - No Postponement
 Safety Stock Inventory Value
 Safety Stock Inventory Value Savings

Safety Stock Inventory Value Breakdown



Reduce inventory without impacting customer service

Hide Table

Plan	Category	Safety Stock Carrying Cost - without Postponement	Safety Stock Carrying Cost - with Postponement	Safety Stock Carrying Cost Savings	Safety Stock Inventory Value - without Postponement	Safety Stock Inventory Value - with Postponement	Safety Stock Inventory Value Savings
SL94	ASSEMBLY.SUBASSY	0	107796.97	-107796.97	0	1892368.82	-1892368.82
SL94	COMPONENT.ELECTRICAL	29938.06	58284.07	-28346.01	489001.6	1003637.52	-514635.92
SL94	COMPONENT.MECHANICAL	0	9667.89	-9667.89	0	169742.16	-169742.16
SL94	COMPUTER.HANDHELD	1094127.14	873373.58	220753.57	19252611.77	15368046.25	3884565.52
Total		1124065.2	1049122.51	74942.7	19741613.37	18433794.75	1307818.62

Workbench

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Go

TIP Select one or more plans and drilldown

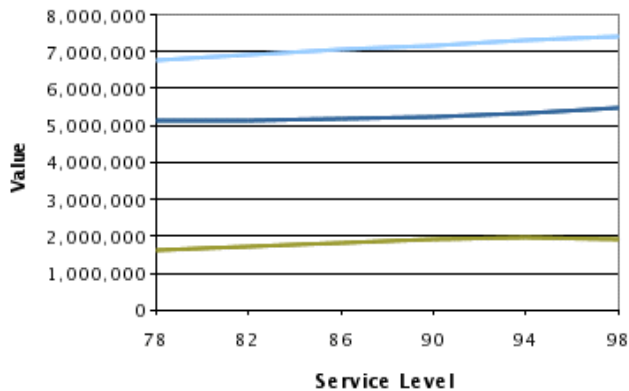
SL78
SL82
SL86

Revenue and Cost Postponement Budget Service Levels Safety Stock

Hide Graph

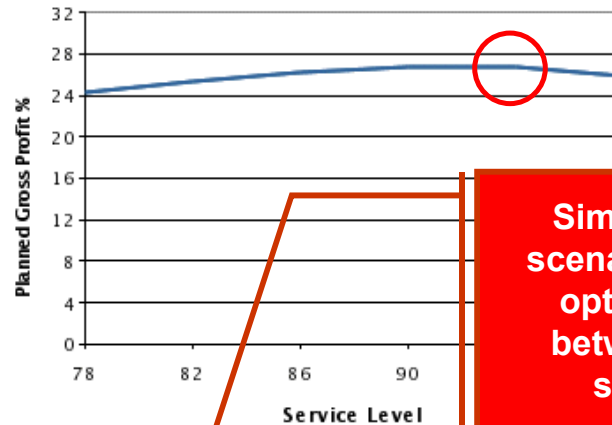
Planned Total Cost Planned Revenue
Planned Gross Profit

Plan Gross Profit Breakdown



Planned Gross Profit %

Planned Gross Profit Percent



Simulate multiple scenarios to find the optimal trade-off between cost and service level

Hide Table

Attained Service Level	Target Service Level	Planned Production Cost	Planned Carrying Cost	Planned Purchasing Cost	Planned Transportation Cost	Planned Total Cost	Planned Revenue	Planned Gross Profit	Planned Gross Profit %	Inventory Value	Plan
78.00	78.00	556,273.88	97,442.44	3,543,621.03	917,612.95	5,114,950.30	6,748,760.35	1,633,810.06	24.21	132,239.58	SL78
82.00	82.00	558,751.36	115,611.53	3,561,112.48	920,159.11	5,155,634.49	6,905,075.03	1,749,440.54	25.34	156,898.11	SL82
86.00	86.00	561,570.56	136,292.39	3,581,024.82	923,056.46	5,201,944.23	7,045,055.86	1,843,111.63	26.16	184,965.49	SL86
90.00	90.00	564,987.78	161,418.48	3,605,310.72	926,568.38	5,258,285.36	7,170,535.12	1,912,249.76	26.67	219,063.76	SL90
94.00	94.00	569,686.45	195,982.57	3,638,718.42	931,397.32	5,335,784.76	7,287,830.16	1,952,045.40	26.79	265,976.92	SL94
98.00	98.00	578,144.06	258,217.34	3,698,861.34	940,089.36	5,475,312.10	7,383,451.71	1,908,139.61	25.84	350,455.71	SL98

Workbench Printable Page



Revenues

2001 – 2002 – 2003 – 2004
17' – 28' – 68' – 253' (1000\$)

Revenues 4times 2003

Market share of 50%

Shipped 50 million single chips Bluetooth devices

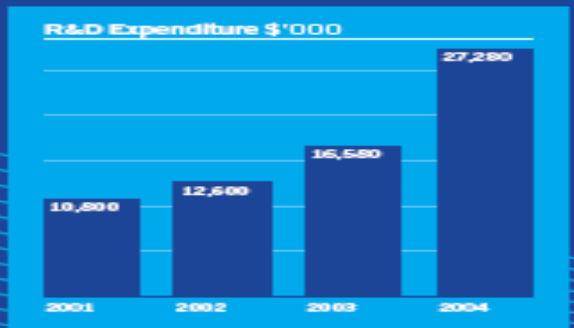
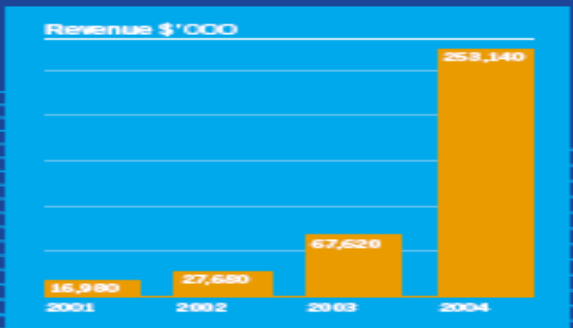
A Fabless Company

IPO
CSR listed on the London Stock Exchange under the symbol CSR on 2 March 2004. It was originally listed at an offer price of 200p per share, representing an initial market capitalisation of £240 million and was the most successful European IPO of 2004.

CSR's Offices



Total number of employees 316



Cambridge Silicon Radio



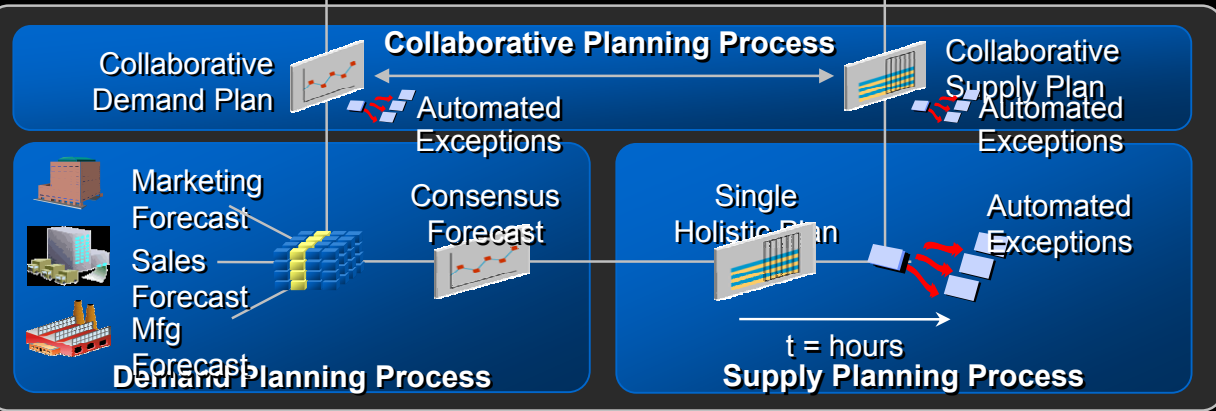
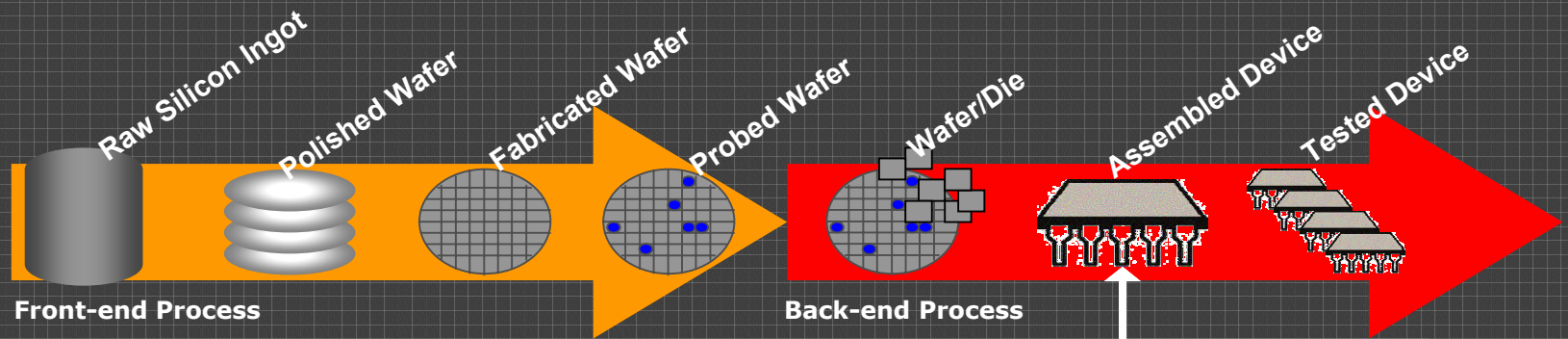
A brief introduction to CSR:

CSR designs and manufactures single-chip wireless devices. Our business started with a focus on solutions for the 2.4GHz Bluetooth® personal area networking standard; in November 2004, we entered the IEEE 802.11 marketplace - a family of wireless standards also referred to as 'Wi-Fi' or 'Wireless LAN' - with devices capable of operation in both the 2.4 and 5GHz frequency bands.

CSR's leading position in the Bluetooth business has been won by a unique approach to IC design based on extremely high levels of integration, providing compelling performance and cost advantages to OEMs. This brand ethos has been carried through to 802.11 applications, with an IC architecture that integrates a new level of functionality embracing all three major variants of the protocol (802.11a, b and g), and IC choices that offer solutions for both current applications, and emerging embedded applications in portable consumer electronics devices (including mobile phone handsets) and home appliances.

In the Bluetooth market, CSR is ranked #1 in every Bluetooth market segment with a unit market share in excess of 50%.

Industry Solution - High Tech: Semiconductor



CSR – is using Oracle’s Sophisticated Planning tools to get full visibility of all goods in the whole and outsourced Global Supply Chain

