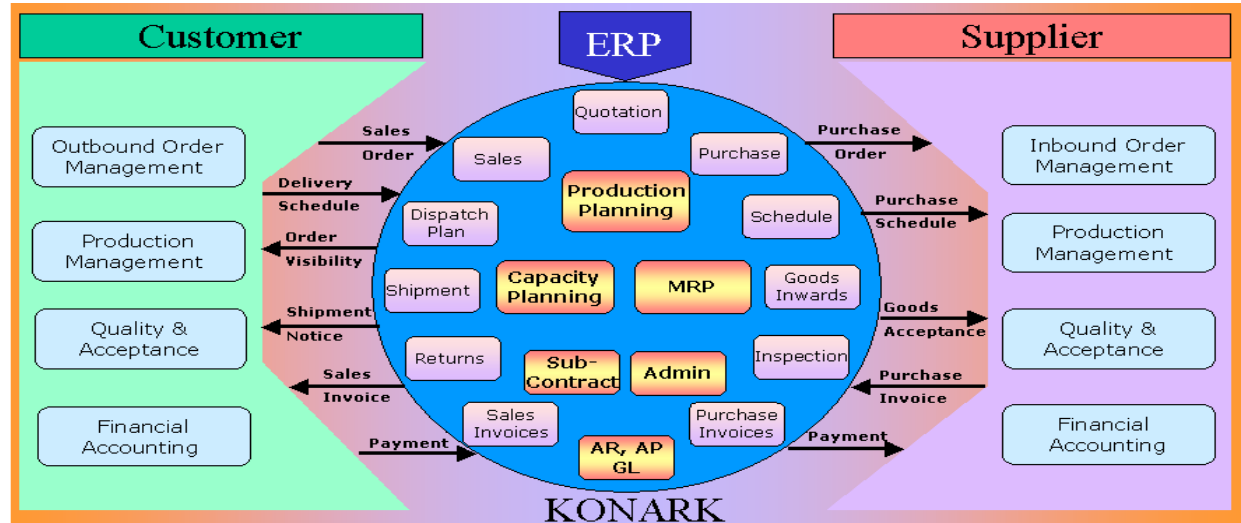# ERP-SCM System for Manufacturing/Distribution Companies

iTWINE's Konark is a web-based, integrated enterprise resource management system covering the functions of **S**ales & **D**istribution, **V**endor **M**anagement, **M**aterial **M**anagement and **I**nventory, **P**roduction and **P**lanning, **S**ub-**C**ontracting, **Q**uality **A**ssurance, Maintenance and **F**inancial **A**ccounting modules of an enterprise.

The following table lists the features provided for each business function:

Function	List of Features
Sales & Shipping Management	Enquiries, Sales Orders, Quotation Conversion, Shipments Scheduling, Planning and Tracking, Price Revisions, Sales Trends, Sales Order status Visibility
Purchase & Vendor Management	Vendor Analysis and Rating, Purchase Contracts, Purchase Orders with Schedules, Item-Party Configuration, Business Sharing definitions, Outstanding Purchase Orders, Purchase Item History
Material Management	Material Variance Analysis, Multiple Locations, Stock Statement, Minimum stock and Re-order levels, Batch / Serial number tracking, MRP using Sales Orders / Sales Forecast, Bar-code interface, Shelf-life tracking
Production Planning, Shop floor and Maintenance Management	Master Production Schedule with Material – Machine - Man-power requirement details for daily/weekly/ monthly planning, Multiple assembly lines/Work centers, Work Order, Down-time analysis, Sub-Contractor stock, Breakdown & Rejection Analysis, Balancing of Loads, Resource Scheduling, Work-in-Progress (WIP) Status and Cost, Re-Usability of existing BOM, Preventive and Predictive maintenance calendars, Tool Replenishment Planning, Actual vs. Planned Production and Consumption, Tool life history, etc.
Quality Assurance	User configurable Inspection Parameter definitions, Inspection Plan Definitions and Sampling Definitions, Inspection Report, Alerts for Instrument Calibration, Pareto Analysis and Histograms
Financial Accounting	Multiple Financial years, Financial Periods, Currencies, Business Units, Chart of Accounts, AR–AP-GL Modules, Cash & Bank Transactions, Tax/Statute Calculation, P&L and Balance Sheet, Receivable - Outstanding aging analysis, Payables planning, etc.

Technologies leveraged in Konark
- J2EE 3-tier architecture – Highly scalable; Deployment on most *Operating Systems*
- Reusable components – Easy integration with other application systems or *databases*
- Use of *open* sources; No dependency on third party products
- Access through *Internet* as well as *Intranet*; Facilitates remote support and access
- Online *Dashboards* with Graphical representation for easy viewing and decision making