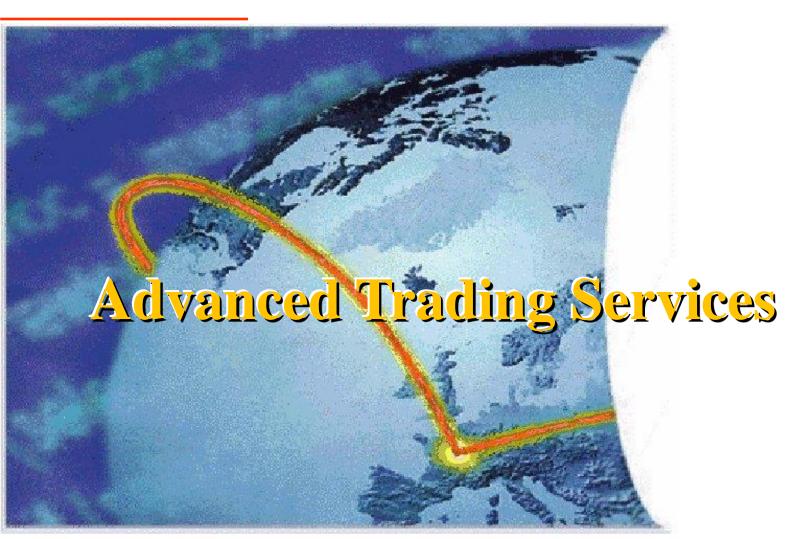


GE Information Services





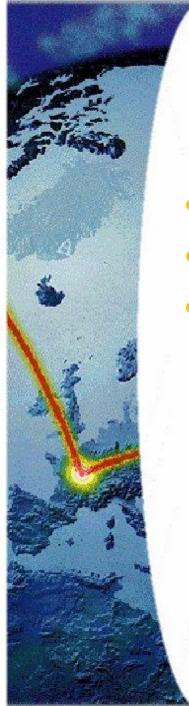
GE Information Services



TPNPost

from...







Thomas Publishing

- Up-to-date Product Information
- 95 Years in Business
- Publish:
 - 24 Major Buying Guides
 - 29 Product News Magazines
 - Two Product Information Exchange Services
 - Factory Automation Magazine
 - 3 Software Comparison Guides
 - Publication for Selecting Cost-efficient
 Inbound Transportation





Thomas Register

THOMASREGISTER

OF AMERICAN MANUFACTURERS

• 155,000 US and Canadian Companies

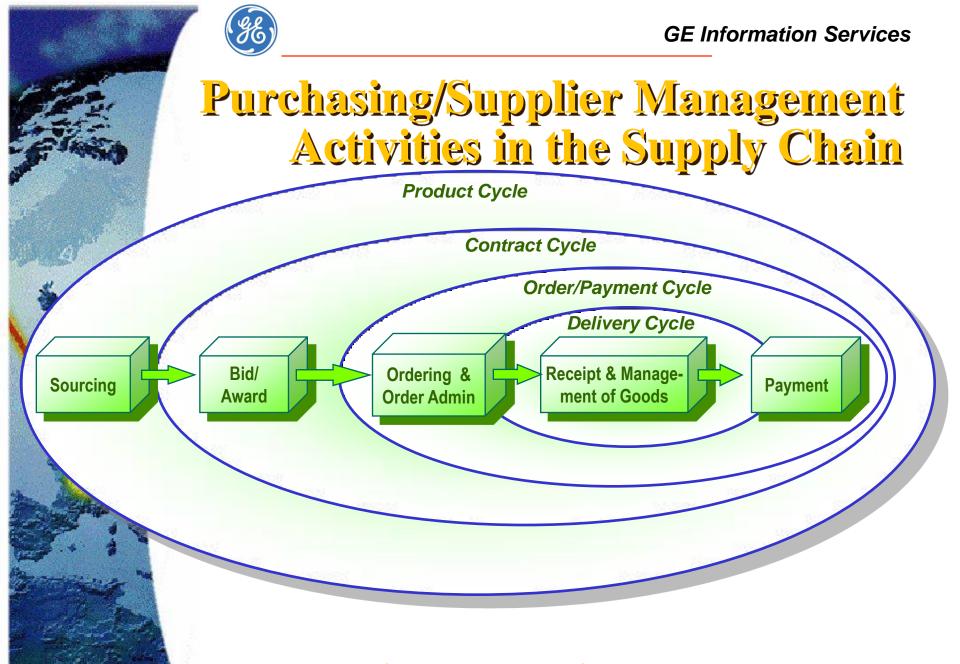
- World's largest online industrial buying source
- 57,000 product and service headings
- 3,100 online supplier catalogs
- 44,000 pages of detailed buying and specifying information.



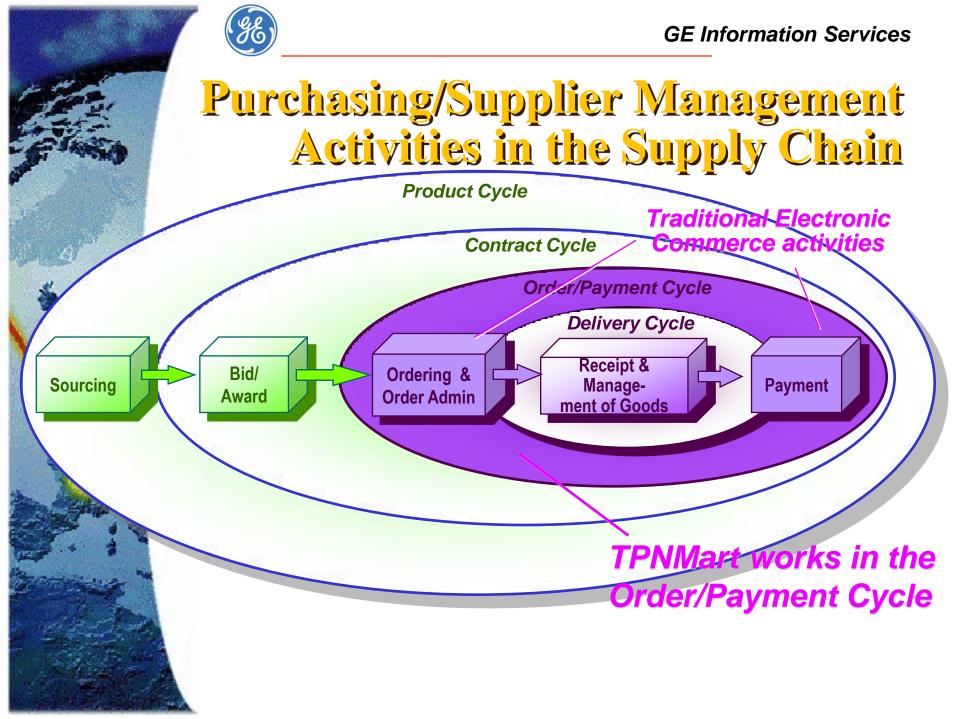
What is the Trading Process Network?

- Internet Technologies-based service.
 - A standard platform, enabling organizations to distribute and receive information (data, documents, messaging, content) from their Trading Partners
- Efficient inter-enterprise material management
 - A shared service model based on Internet technologies, lowering the cost & complexity of participation while enhancing the user experience
- Increased productivity
- Significant cycle time reduction
 - Specific content and services based on Industry Standards and Requirements

Improved profitability for the entire trading community



The Main Purchasing Processes

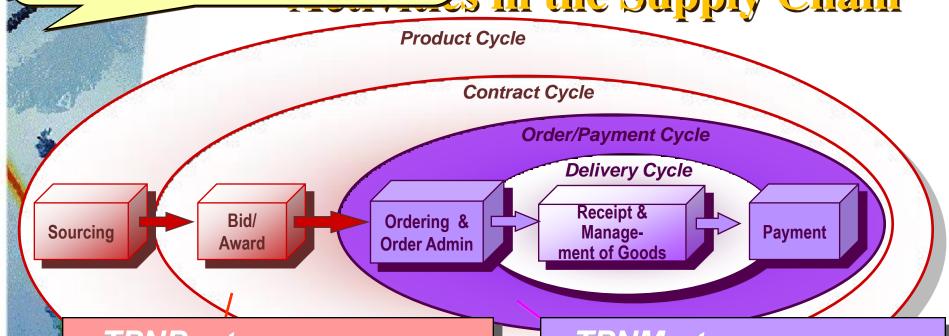


GE Information Services

And...

TPN Business Services
Supporting the TPN Community

Supplier Management s in the Supply Chain

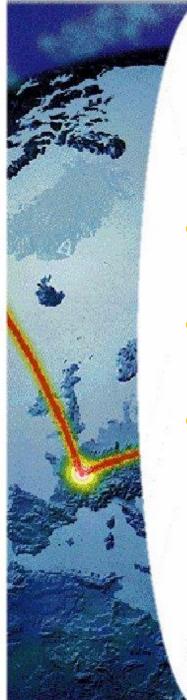


TPNPost

- Internet-Based Service
- Secure Document Distribution
- Secure Messaging
- Business Profile Database
- RFI's, RFQ's & Negotiations
- Support Services

TPNMart

- Internet-Based Service
- Electronic Product Content
- Supplier/Content Management
- Rules Based Requisitioning
- EDI & Purchasing Card
- Support Services





Trading Process Network

- Trading
 - Business to Business
- Process
 - Sourcing, Purchasing, Supplying
- Network
 - Many-to-Many Trading Communities





Trading —Business to Business

- Manufacturing Companies
 - Automotive, Domestic Goods, Electronics, High Tech
- Retail Chains
 - Food, Housewares, Clothing
- Service Companies
 - Banks, Utilities
- Public Bodies
 - Health Care, Defence
- ... and their suppliers!



Process

-Sourcing, Purchasing, Supplying

- Sourcing
 - Establishing Requirements, Soliciting Suppliers, Bidding and Selection
- Purchasing
 - Viewing, Choosing, Authorising,
 Ordering, Paying
- Supplying
 - Placing Bids, Accepting Orders,
 Dispatching Goods, Sending Invoices.
- ... Making buying simply better





Network —Trading Communities

- More than "Hub and Spoke"
 - Service encourages open trade between many Suppliers and many Buyers
- Increased Opportunities
 - Suppliers not limited to one Buyer
 - Buyers not limited to only "their" Suppliers
- Critical Mass important
 - Concentration on particular sectors
- ... more control, more choice!



Types of Purchase

There are three main types of purchase:

Direct Materials

- -These become part of the product
- –Examples: Components, raw materials, contract production labour

Plant and Equipment

- These are used for making the product or for running the company, but are still there at the end of the day.
- Examples: Milling machines, computers

Indirect Materials

- These are necessary to keep the company running but do not become part of the product although they are consumed.
- Examples: Office consumables, contract cleaning









High

Types of Purchase

Strategic

Strategy

- Integrated supplier
- Long-term agreement
- Technical relationship

Technology, Quality, Price, Cycle Time

<u>Leveraged</u>

Strategy

- "Home Base" supplier
- Create competition

Balance of Price & Quality

Niche

Strategy

- Develop new sources
- Strategic negotiation with local source

Caution Required

Commodity

Strategy

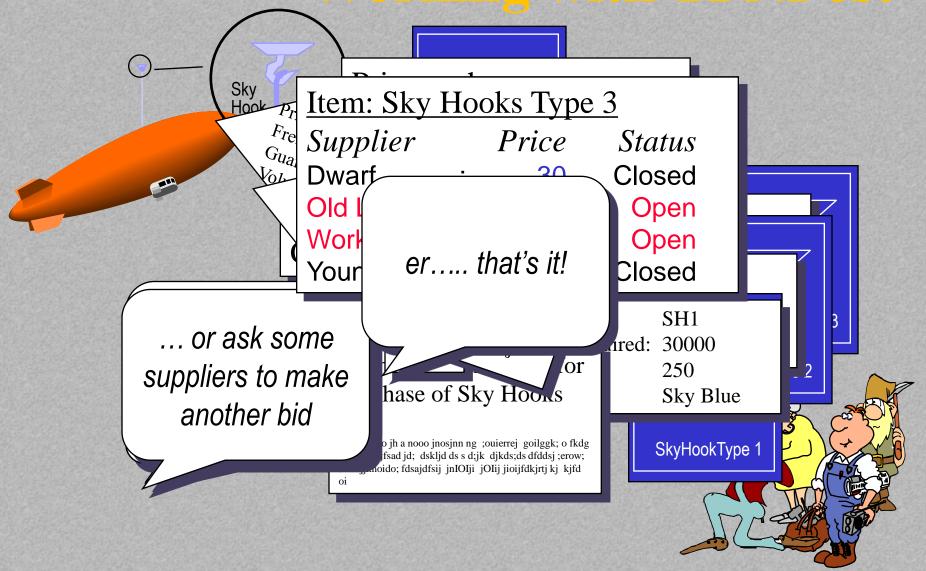
- Multiple sources
- Quote business
- Low risk/cost to move

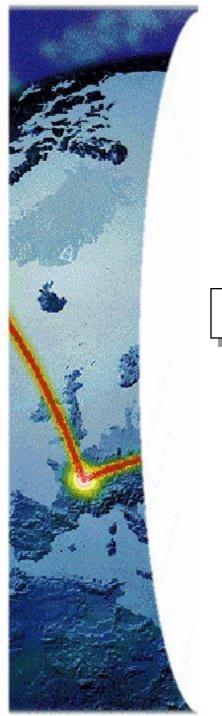
Pure Price Play

Low

Low

Working with TPNPost







Pre-Ordering Process with TPNPost



Supplier

Buyer

Yes, but why use the internet?



Why use the internet?

Longer reach

- Truly global communications medium

Deeper reach

Most prevalent computer-based capability

Future reach

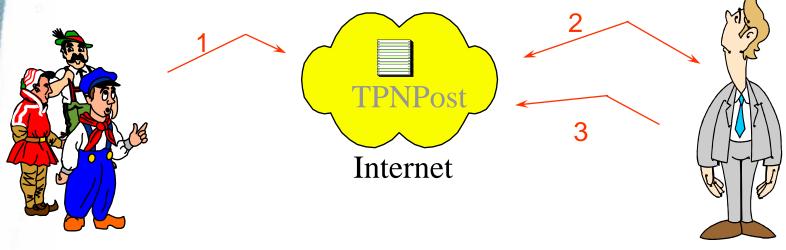
Standards-based with world-wide development

Matches user needs

 Techniques and style lend themselves to inter-company person-to-person transactions

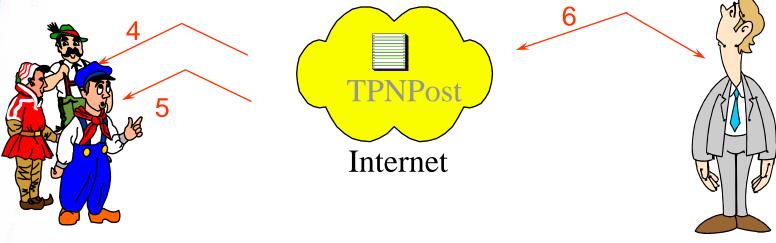


Pre-Ordering Process with TPNPost



- 1) Suppliers register for TPNPost by completing prequalification form on TPNPost Home Page
- 2) Buyer searches in TPNPost supplier database and selects suppliers (list of suppliers downloaded)
- 3) Buyer prepares and uploads RFQs and supplier list.

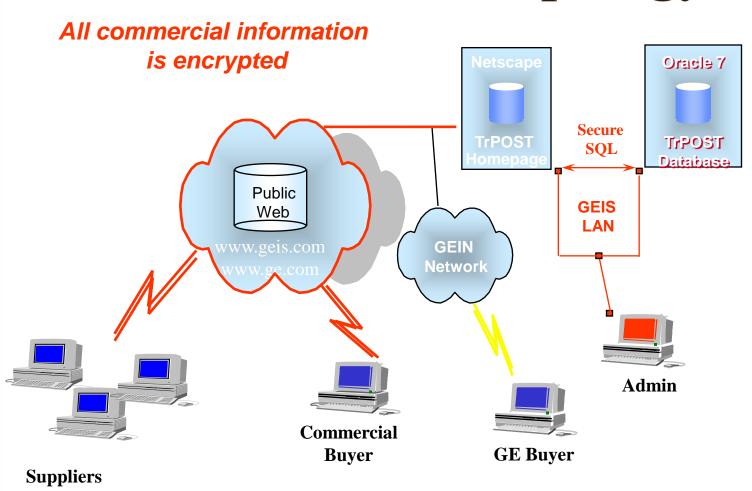
Pre-Ordering Process with TPNPost

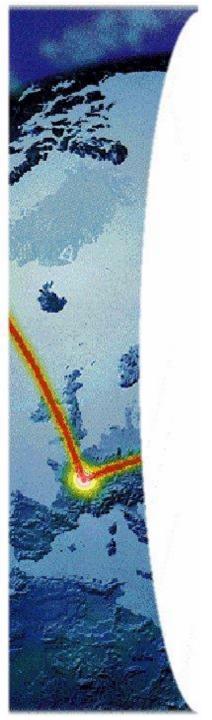


- 4) Based on buyer's selection, suppliers are notified via fax of the upcoming project that they have been invited to bid on.
- 5) Suppliers search database, select and download RFQs, fill in response and submit quote.
- 6) Buyer evaluates suppliers' responses, invites suppliers back for additional rounds and makes final selection.



TPNPost Topology







TPNPost - A Full Service Offering...

GE Experience and Best Practice

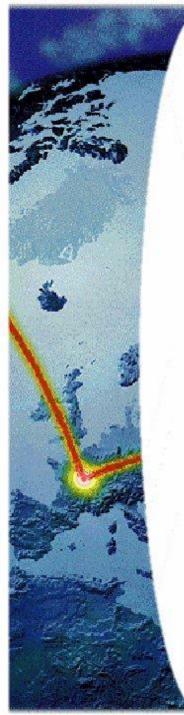
Software

Ongoing Transactions

Supplier Database Access

Consulting

Support Services



The GE Trading Process Network (TPN) is designed to... enhance a Company's Inter-Enterprise communications capabilities...

- Provides a standard platform, enabling organizations to distribute and receive information (data, documents, messaging, content) from their Trading Partners
- Uses a shared service model based on Internet technologies, lowering the cost & complexity of participation while enhancing the user experience
- Provides specific content and services based on Industry Standards and Requirements





Benefits

- Reduced Cycle Time
 - Critical to New Product
 Introduction
- Increased Buyer Productivity
 - Critical to Product Quality
- Improved Price performance
 - Critical for Profitability of every unit made.





Who Will Buy TPNPost?

Companies who:

- Buy large quantities or high value items
- Want to buy > \$20m per year through TPN
- Have the following *minimum* annual *turnovers*:
 - Manufacturer buying direct materials \$200m
 - Other company buying plant & equipment \$1000m
 - Company buying indirect materials \$1000m
- Want to involve several to many potential suppliers
- Preferably looking for some global suppliers
- Are constantly updating their product ranges
- Are in a competitive market



Production & Non-Production Procurement Needs.

Production (Direct Material)

Definition:

- •Raw materials, sub-assemblies or component parts
- •Physically become part of a finished product.
- •Mainly large, repetitive orders against negotiated contracts managed by purchasing function.

Non-Production (Indirect/MRO)

Definition:

- •Factory or office supplies and other overhead items
- •Not easily traced to specific units of production.
- •Characterized by single orders of off-theshelf items driven by end-user demand.

THE PARTY OF

Electronic Commerce Market View:

- •EC solutions focused on DM due to greater dollar value
- •DM solutions must become more sophisticated, extending EC benefits to all types of supplier relationships
- •Currently 130B of DM ordered via EDI

Electronic Commerce Market View:

- Emerging Elec Commerce market
- •EC penetration will (over time) drive greater transaction volume than DM.
- •Up to 85% of volume, 10% of value
- •Internet-based solution for IND/MRO ordering forecast to account for 70% of traded value by 2000 (Source: Input)



"Strategic" Sourcing Process Issues & Problems!

Production Materials —largest single expense for most manufacturers, *often* >50% of sales

Buyer needs significant Supplier Management activity to Qualify, Negotiate, Select, Contract, Order and Track

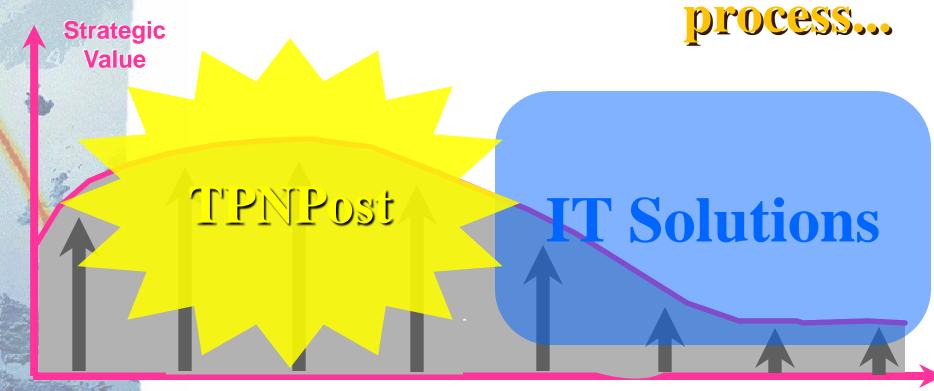
Inefficient methods of communicating with suppliers — long cycle times and non-strategic buyer activities (mailing, faxing, phoning)

Traditional EDI used to Automate DM ordering but has not addressed majority of process activities.

DM/Production Sourcing Solutions must streamline timeconsuming, low-value tasks to improve supplier management



IT based Solutions have had little impact on the "Strategic" Sourcing



Identify Requirements Identify Potential Sources

Prepare & Distribute RFQ's

Bid, Negotiate & Award Purchase Order & Scheduling

Shipment & Receipt

Tracking Payment

Product Life-cycle



Strategic Activity focus —

TPNPost streamlines existing processes.

Key Activities

Identification & Qualification of Sources

RFQ Preparation & Distribution

Bid & Negotiation

Trading Partner
Communication &
Collaboration

Current Process

Paper catalogs, Yellow Pages, On-line DB (Prop/ Internet), Internal Systems

Collate, Mail (Std or Overnight), E-mail, Fax, Copy

Travel, Phone, Mail (Std. or Overnight), E-mail, FAX

Phone, Mail (Std or Overnight), E-mail,Fax

TPN-Enabled Process

TPNCommunity DB, Audit Services, On-line Catalogs, Industry Classications

Secure Document & Data Distribution via the Internet

Secure, multi-round, private offer electronic bidding and decision supported award

Secure Messaging, Document & Data Distribution via the Internet

TPNPost provides the tools for more effective Supplier

Management



Substantial Business Impact

ssue/Problem

Post

Gycle Time

Strategic Sourcing
vs Low Value Activity

Supplier Communication **Industry Benchmark**

50% of Sales

88 Days

- Requirements Planning (12)
- Contract Negotiation (56)

- Order Placement (20)

50%of Buyer Time spent on Non-Strategic Activities

\$8 to \$10 Overnight Mail charges per package

Improvement

10% Savings

50% Reduction

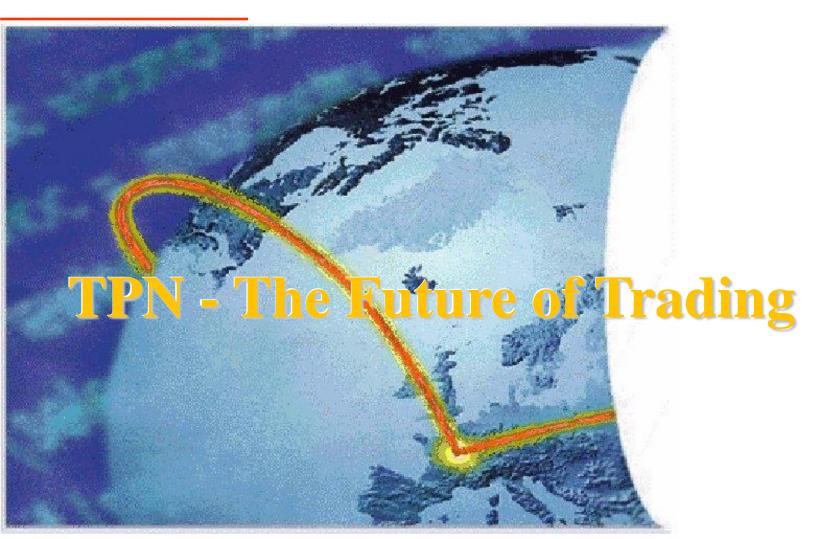
33% more time spent on Strategic Sourcing

100% Removal Paper & Mail Charges

TPNPost targets payback in less than 12 months - High ROI through process improvement & cost leverage

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GE Information Services





GE Information Services

