Impact of Network Computing

November 1996



Published by INPUT 1881 Landings Drive Mountain View, CA 94043-0848 United States of America

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Impact of Network Computing Peter Cunningham President, INPUT pac@input.com http://www.input.com

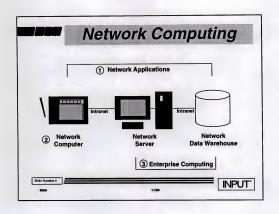
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Agenda ●Internet Applications ●Network Computers ●Enterprise Computing INPUT

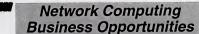
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- Network computing revolution will create:
 - -\$60 billion software industry by 2000
 - -\$45 billion hardware industry by 2000
 - -\$106 billion IT services industry by 2000

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Migration of Applications to New Intranet Platforms Migration of Applications to New Intranet Platforms INPUT

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Internet's Impact on Applications

- "Opens" collaboration
- Migrates business operations applications to the network
- Interactive applications emerge
- Enables electronic business

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Client/Server Application Development

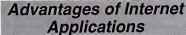
- 50% believe time & cost prohibitive
- 75% believe Internet applications solve the problem
 - lower cost of deployment & maintenace

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- Lower deployment & maintenance costs
- Balance load across thousands of servers
- Serve millions of client devices
- Mix database types
- Easily modify system and software

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Internet Application Platform War

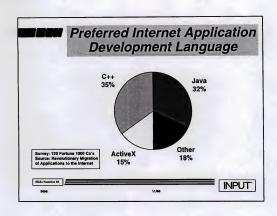
- ●"Open" Group

 -Netscape, Oracle, Sun, Novell
- Wintel Group
 - -Microsoft's ActiveX & Network OLE
- •"Wait & See" Group
 - -Hewlett Packard, Digital
- •IBM

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Vendors Connecting Applications to the Web

- OneWave Inc. connecting to SAP, Baan
- NetDynamics connecting to PeopleSoft
- Lotus connecting Notes to Web with Domino

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Examples of Migrated Applications

- Corel's Office Apps (WordPerfect)
- Dun & Bradstreet's SmartStream Web Series
- Applix, Inc.'s Espresso!
- Netscape's Collabra

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The Internet Will Have Greatest Impact On:

- Cross-industry Applications
 - -Human Resources
 - -Office Automation
 - -Engineering & Scientific Collaboration
- Vertical Industry Applications
 - -Business services
 - -Retail & wholesale

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CSX Corp. Case Study

- •Largest freight transporter in U.S.
- ●Transportation Workstation (TWS)
- •Inter-Enterprise Application
 - -Migrated from C++ to Java
 - -Three phases
- Resulted in time and cost savings

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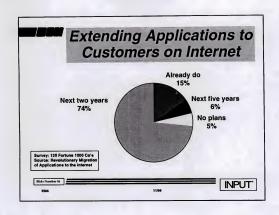
Internet Drives Interactive Applications

- Applications that interact with customers
- Electronic helpdesk
- Call centers
- Sales and marketing applications

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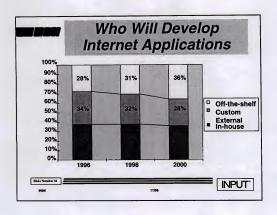
Internet Drives Super Vertical Applications Opportunities

- Business processes will be reengineered across industries
- Super-vertical applications will enable the automation of these processes
- Sales model for application software products will change

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Conclusions

- Applications will migrate to the Internet to decrease deployment & maintenance costs
- Internet platform will be a mixture of competing technologies

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Recommendations

- Reengineer business processes beyond the boundaries of the corporation
- Enable the automation of these processes with Internet technology
- Develop collaborative applications internally
- Develop interactive applications externally

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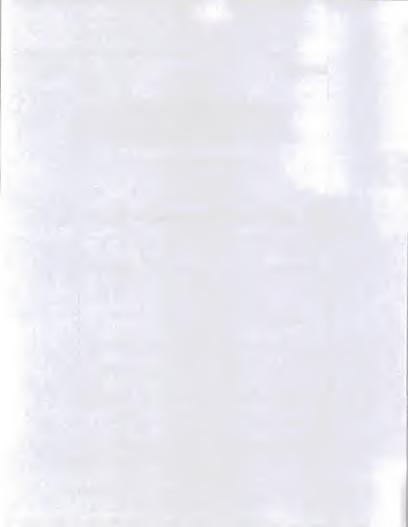
Internet Appliances - Challenge & Opportunity

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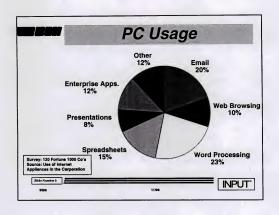
How PC Users Spend Their Time

- 15% of PCs used for singletask functions (data entry, POS, etc.)
- •User's time on PC:
 - -1/3 on Internet software (Web, email)
 - -1/2 on "office" applications

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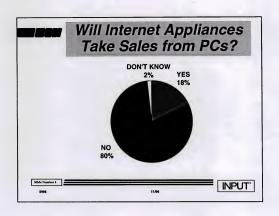
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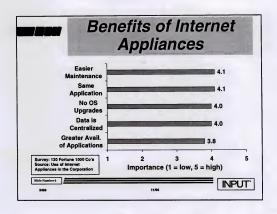
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Internet Appliances ●Benefits ●Challenge → Applications ●Opportunities → Solutions Services INPUT

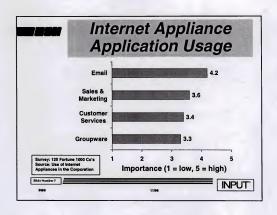
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Network Computer Applications

- CSX using Sun's JavaStations internally and at customer sites
- FTD uses network computers at 20,000 affiliated flower shops around the world

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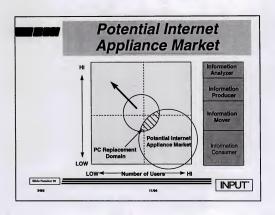
Network Computer Applications (continued)

- Marimba offers NC software for users to subscribe to channels
- Active Software offers workgroup software programs for NCs

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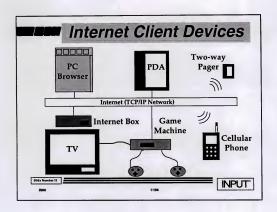
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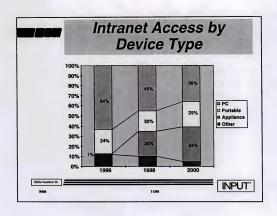
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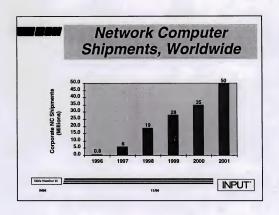


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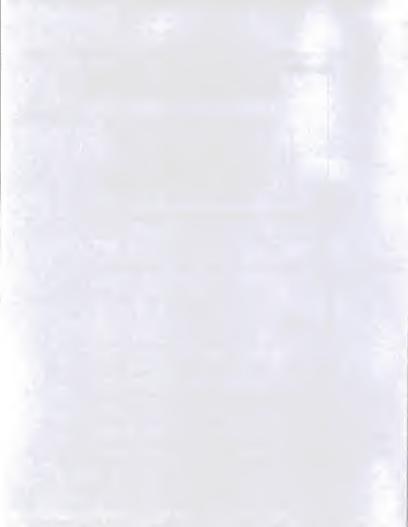


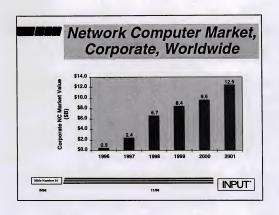






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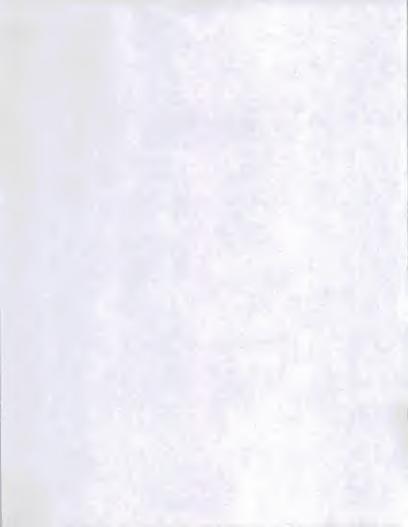
Recommendations

- Question the acquisition of new PC clients
- Purchase new network computers for greater access and manageability
- Replace PCs with NCs to lower maintenance costs and centralize administration

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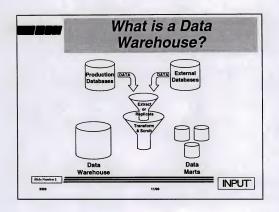


Intranet Impact on Enterprise Computing Peter Cunningham President, INPUT pac@input.com http://www.input.com

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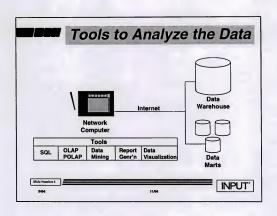
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Impact of Intranets on Data Mining • Easier & faster access and analysis • Inter-enterprise reengineering • New operational applications

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Consumerizing the Data Warehouse

- simple and cost-effective way to expand the reach of the data warehouse to:
 - -employees
 - -strategic business partners
 - -outside vendors
 - -corporate customers
 - _individuals

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Internet Complements Data Warehouse

- Removes the complexity of traditional client-side software
 - Decreases capital intensity and project expense

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Case Study: Catalog Sales Business Problems -Customer retention -Cross-selling -High direct mail cost

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Case Study: Catalog Sales

- Technical problems
 - -Fragmented data from many OLTP systems
 - -No way to view "whole customer"
 - -No demographic data
 - -Impossible to analyze data
 - -Current solutions too costly to employ

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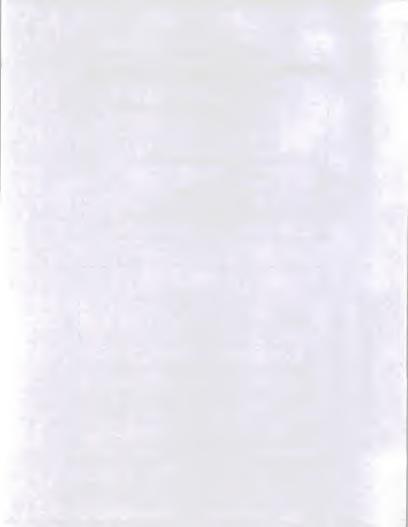


Case Study: Catalog Sales Solutions

- - -Data warehouse connected to the Web
 - -Daily update
 - -Ad hoc access
 - -Multiple analysis tools
- Result
 - -Increase in sales
 - -Decrease in mail costs

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OLAP Vendors Providing Data Warehouses from Browsers

- Arbor Software's Essbase Web Gateway
- MicroStrategy's DSSWeb
- Information Advantage's WebOLAP

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Internet Drives Requirement for Scalable Data Warehouses

- Corporations are rapidly turning to scalable/parallel hardware and database platforms
- Need to marry large-scale data warehouses to MPP systems

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Electronic Commerce Will Create Data to Mine

- Mining transaction data results in better control of inventory
- Transactions on the Internet will drive the demand for data analysis tools market

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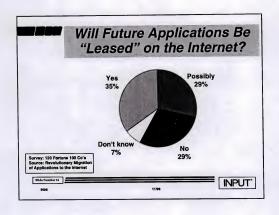
Return of the Super Service Bureau

- Centralized control
- •Low cost of maintenance & administration
- •High level of security & integrity
- Expandable computing power& data storage
- Greater reliability

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Conclusions

- Internet is accelerating the demand for data warehousing and mining solutions
- Data mining will guide decision-making for electronic business
 - Purchasing bureau services on the Internet will result in cost savings

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Recommendations

- Centralize data in a warehouse
- Connect the data warehouse to your Intranet
- Deploy data mining software to network computers and PCs
- •Implement electronic business systems together with data warehouses

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