Technology Tools:
Finding the Perfect Fit

Jack Powers, Director,
International Informatics Institute
Adjunct Professor, New York University

Technology Tools

In the pocket

Mobile phones and PDAs

In the office

Office Automation

Intranets, Extranets and the Internet

In the home

Home offices

Digital entertainment hubs

In the future

Mobile Phones

• 500,000,000 phones sold

• 25% of all humans on the phone by 2006

Generations Technology Tools + 1G **Analog** + 2G Digital, PCS 10 kbps CDMA, TDMA, CDPD & GSM Personal Communications Services • 2.5G **GPRS** 40-60 kpbs **GSM**, General Packet Radio Services + 3G **UMTS** < 2 MBps Universal Mobile Telecom System

NTT DoCoMo iMode

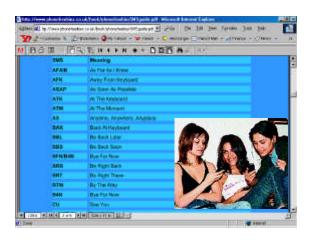
• ~ 18 million users in Japan
• Email
• SMS: Short
Messaging Service
• cHTML: compact
HTML
• Microbilling
• 9.6 kbps
• +\$3/mo, .03/128k

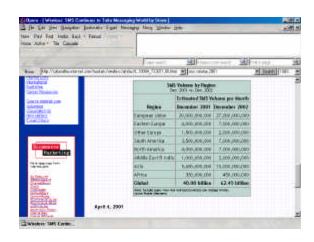
Mobile
Services

Address book
Speed dial
Caller ID
Call log
Receive-only email





















Voice access examples

• www.tellme.com
1-800-555-tell

• www.bevocal.com

In the office

Office automation
Instant messaging
Intranets and extranets
The Internet

Office Automation

Spreadsheets
Databases
Networking
Sales automation
E-Commerce
Customer service

FedEx Web Site
Cost of telephone
customer contact \$2.00

Cost of online contact .07

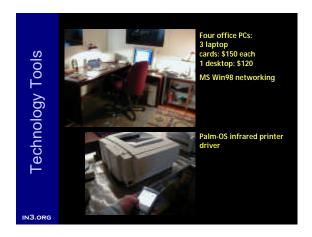
David Roussain, FedEx vice president for e-commerce marketing









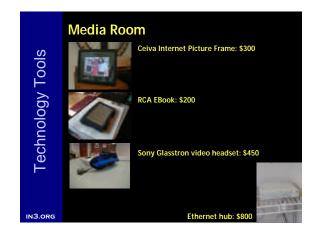
























In the future

• Wireless multimedia

• Artificial intelligence

• The Internet Everywhere

Technology Tools

3G Mobile Phones

- Enhanced telephony
- < 2Mbps data transfer
- Multimedia
- Streaming media



Technology Tools

Artificial intelligence

Technology Tools

Practical AI on the Web

- Search engines and content filtering
- Personalization and customer service
- Data mining and decision support
- Speech recognition
- Natural language processing
- Image analysis and machine vision
- Intelligent agents
- Games and simulations

Technology Tools

Web AI Examples

- Amazon.com recommendation engine
- MySimon.com shopping bot
- Nativeminds.com virtual ECRM agent

Technology Tools

The Internet Everywhere

- Wireless Internet Protocol
- Embedded Internet
- Ubiquitous, Pervasive, Immersive IP

IN3.OF



