

Nomadic Computing: Anytime, Anyplace Access

OSS 2002
May 10, 2002

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What We'll Cover

- **Devices**
- **Some statistics**
- **Snapshot of plumbing**
- **Close with three suggestions**

Magic?



Definition of Nomadic Computing

Portable computing with portable
communications ... transparent virtual
networking

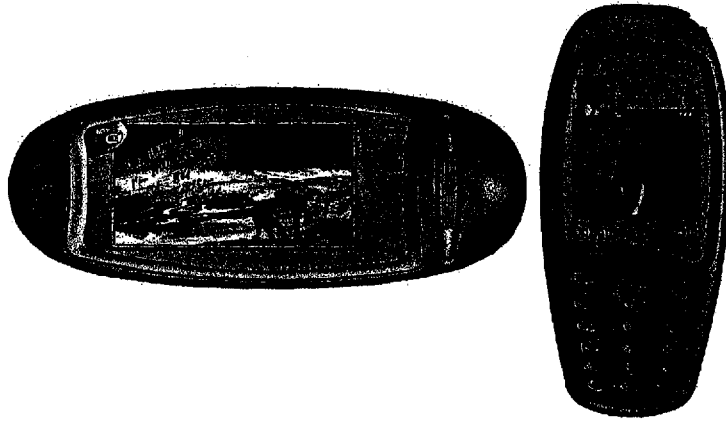
Goal of Nomadic Computing ...

permit users and programs to be as effective as possible ... without changes to the manner in which they operate.

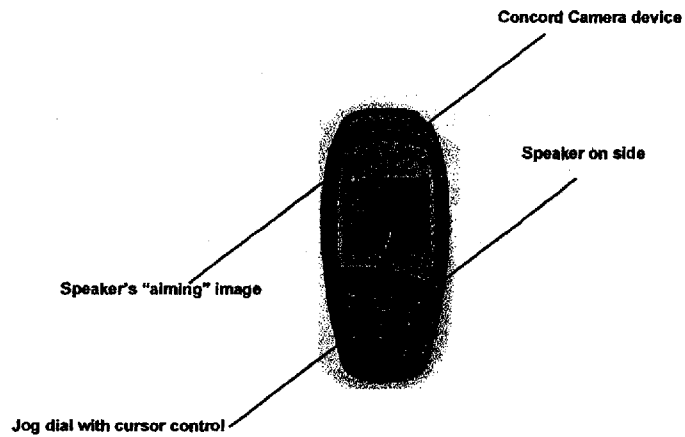
Nomadic Computing ...

- **The right portable hardware**
- **The right communication (telco & LAN)**
 - Roaming
 - Auto-recognition of device switch
- **The right bandwidth**
- **The right partnerships**
- **The right software**

Nokia = Rich Media Mobility

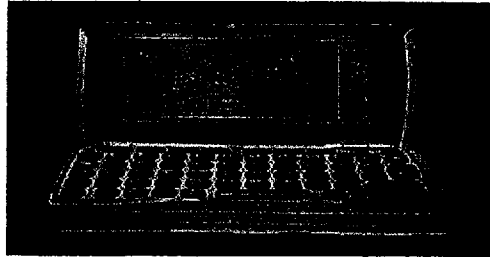


Nokia's Videophone



Nokia's Smartphone

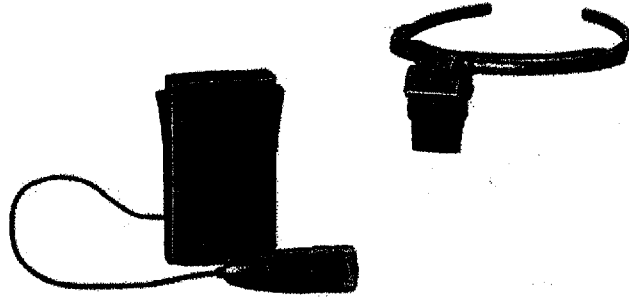
- **The 9210 Communicator—A high-resolution color display (4,096 colors)**
- **Nokia 9210 Communicator supports connectivity to Windows applications**



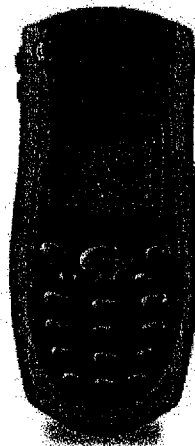
Anytime, Anywhere Access



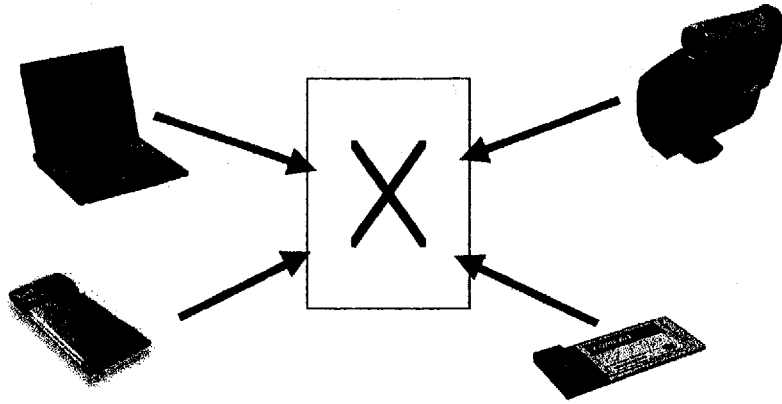
Poma: 800x600 and Telephony



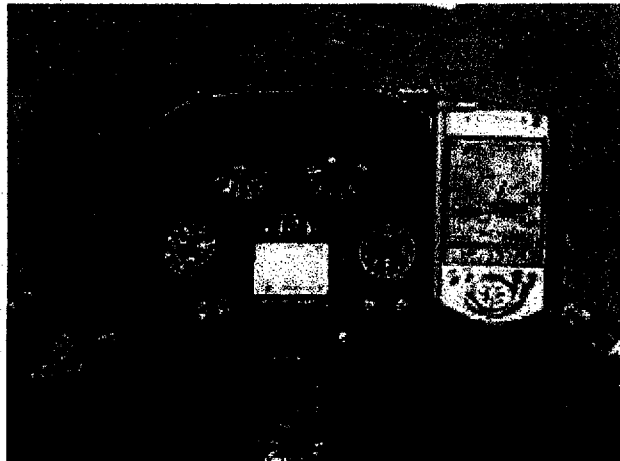
Sony T206 - GPS Inside



Wireless Multifunction Devices



NOW (New Office Workspace)



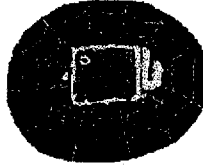
Newest Devices Stress Integration

Network Gateway



Broadband modem
Wireless gateway
Set top gateway
Whole house gateway
Multiservice gateway

Network Technology



802.11b
Ethernet
Bluetooth
Home RF

User Devices



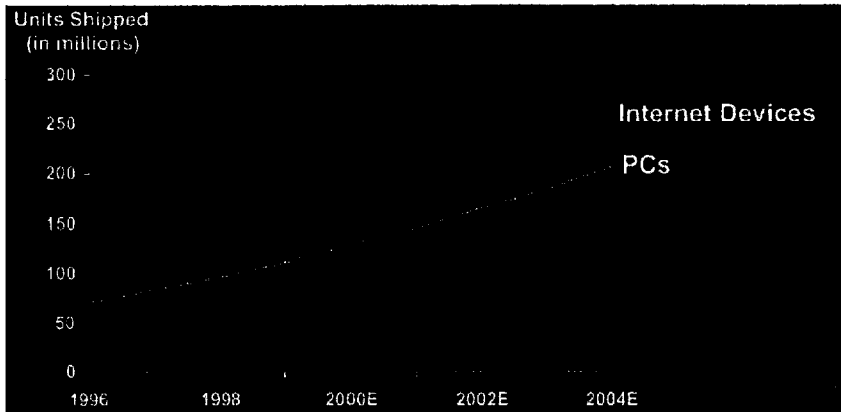
Smart appliances
Security
PCs
MP3 players
Medical devices
HVAC controls

Market Zip

- Global
- Significant
- Not the U.S.

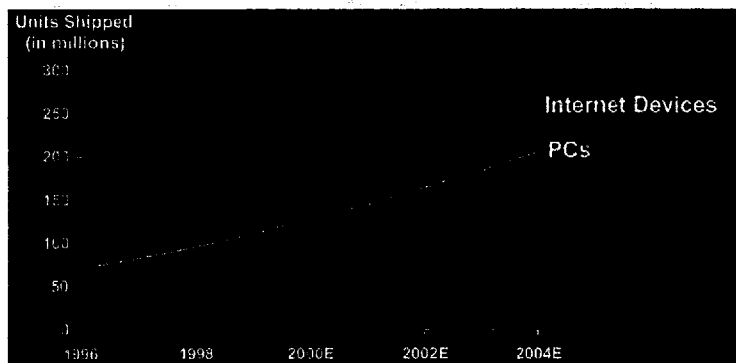


PCs + Devices



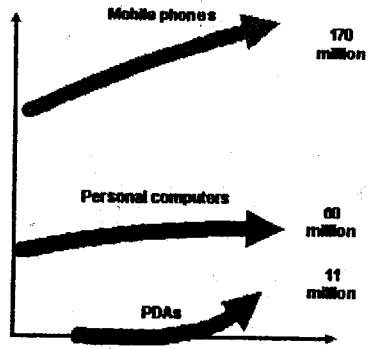
Source: Morgan Stanley Dean Witter Equity Research, IDC, and Yankee Group, 2000 studies.

PCs + Devices



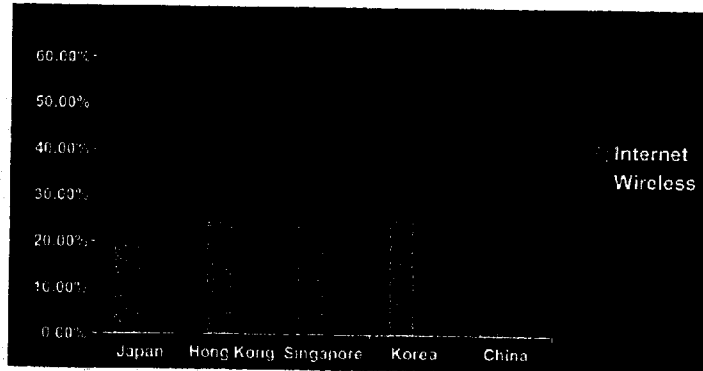
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Device Penetration -- U.S.



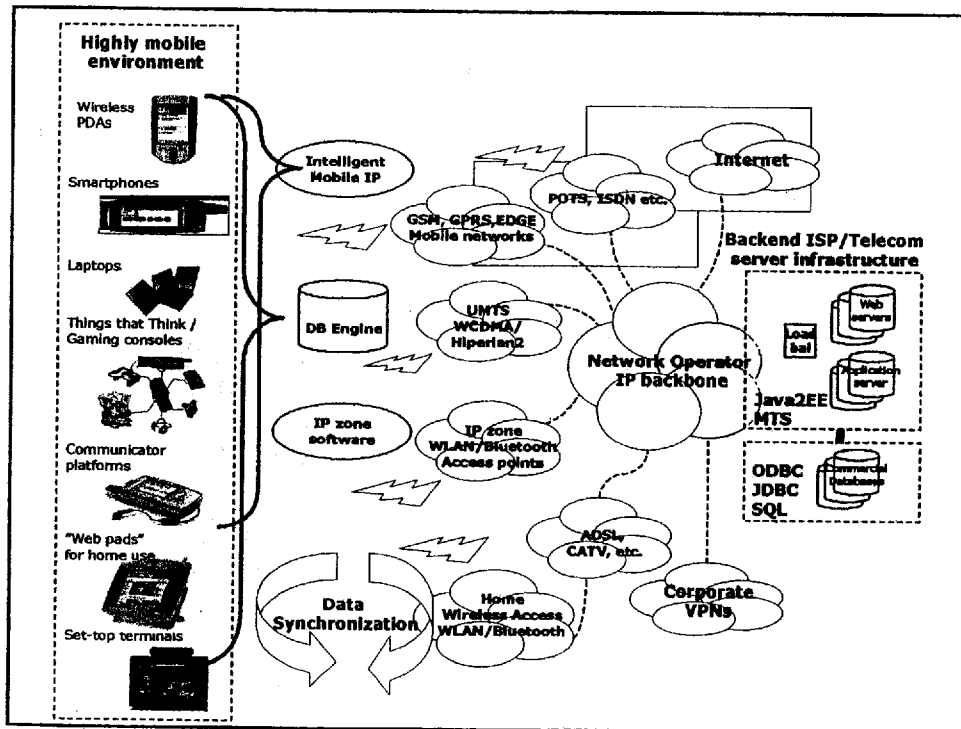
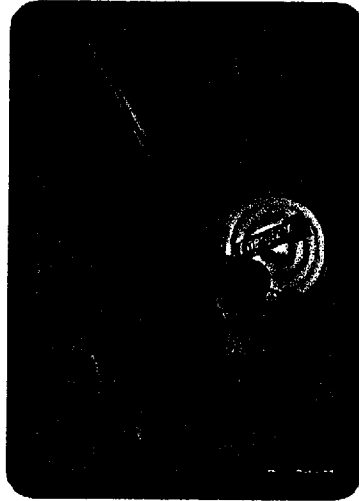
Worldwide mobile-phone sales are expected to reach around 550 million units next year, according to leading makers, up from around 400 million this year. Source: <http://www.techweb.com/news/story/reuters/REI2000122150006>

Asia Pacific: Wireless Dominates

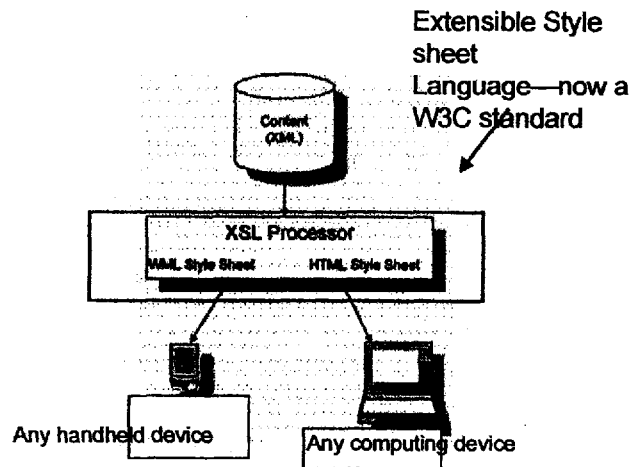


Source: Palm Inc., November 2000

Next Level

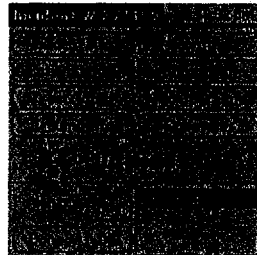


XML —Digital “Vegematic”



Pen Computer

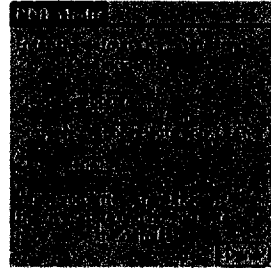
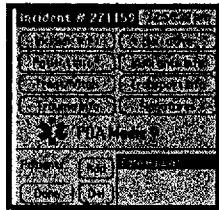
- **PDA Medic**
 - Emergency medical services
 - HotSync
 - The price is \$5,000 for five
- **EMS Manager is a turnkey personnel tracking software program.**
 - Price: \$1,000.



Source: Pen Computer Solutions, January 2001

Pen Computer

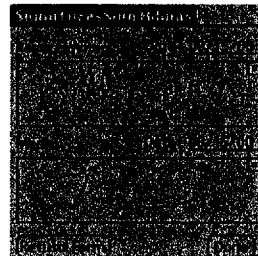
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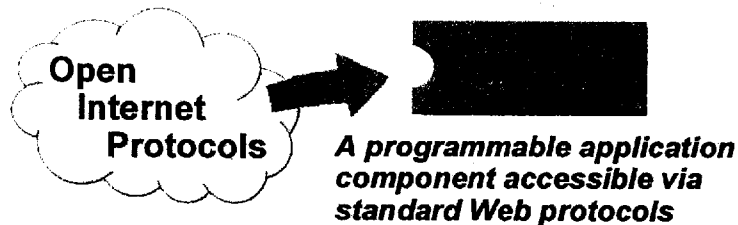


Source: Pen Computer Solutions, January 2001

Pertimm

- **Application for news and Intranets with internal, 3rd party, and Web content**
- **Patented**
 - Linear sorting routine
 - Real-time data monitoring system
 - Semantic glimpse of each file or url content
- **One service instead of separate applications for unrelated tasks**

Pertimm Is A Web Service



- **UDDI - Provides a directory of services on the Internet**
- **WSDL - XML Web services are defined in terms of the formats and ordering of messages**
- **SOAP - XML Web service consumers can send and receive messages using XML**
- **Built using open Internet protocols**

Focus it with Pertimm - Microsoft Internet Explorer

http://wg2.ipdipper.com/energy/

explode **Term** nuclear_weapon (conce) nuclear_waste
 nuclear_weapon

Search

Help
 About Pertimm
 About Pertimm, Inc.
 Concurrences

170 references have been found

- 1. Aborigines & Uranium : No Radioactive Wastes On Our Land**
 Aboriginal people of Arnhem Land, Aboriginal land, effects of uranium mining, Aboriginal people living, strip mining operations, uranium industry, north wall of the Ranger tailings dam, mining stops, mining operations poses long-term effects, Aboriginal owners of Australia.
 Pertinence 4, English, TEXT, Jan 06 2001 19:36, 3 occurrences, 15 Kb,
http://wg2.ipdipper.com/rs04/d3/d/wpdenery_04_d3_d5/0/www.sea-us.org.au/blackuranium.html
- 2. Green Party News**
 Dr Busby, uranium tipped shells, Dr Chris Busby, Green Euro MEPs, uranium risk, low level radiation specialist Chris Busby, Green Party News, actual numbers of leukemia cases, GREEN PARTY HOMEPAGE, Green MEP Jean Lambert.
 Pertinence 4, English, TEXT, Mar 01 2002 17:27, 4 occurrences, 6 Kb,
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- 3. Snapshots from the U.S. Nuclear War Plan - page 11**

Focus it with Pertimm - Microsoft Internet Explorer

http://wg2.ipdipper.com/energy/

explode **Context** nuclear_weapon (conce) nuclear_waste
 nuclear_weapon

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Focus it with Pertinam - Microsoft Internet Explorer

http://wg2.ipdipper.com/energy/

explode nuclear_weapon (conce) nuclear_waste
 - nuclear_weapon

newer than sort by words

Help
 About Pertinam
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 Occurrences

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Glimpse

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3. Snapshots from the U.S. Nuclear War Plan - page 11

Highlight: CE Form Factor

Highlight →

Green Party News - Lowest Entail Factors

Dr Chris Busby of the Low Level Radiation Campaign who recently presented his findings to the Royal Society will tell Euro MPs that his research, published earlier this year, shows that deaths from leukemia resulting from the Chernobyl explosion have been 100 times more than predicted by the National Radiological Protection Board. His findings involved examination of cancer cases for all 168,000 women in Wales and Scotland who were pregnant when the Chernobyl reactor exploded. Dr Busby's research shows that the number of leukemia cases reported from low level radiation is many times more than those reported from high level radiation. Dr Busby has also called for more research into the health effects of low level radiation. He says that the current estimates of cancer risk from low level radiation are based on data from high level radiation which is not directly comparable. He says that the current estimates of cancer risk from low level radiation are based on data from high level radiation which is not directly comparable. He says that the current estimates of cancer risk from low level radiation are based on data from high level radiation which is not directly comparable.

Summary: Three Suggestions

- **Plan for wireless “anytime, anyplace” information**
- **Interdiction becoming more difficult**
- **Intelligence: distributed and disbursed**
- **Fluid information environment**

Arnold Information Technology

- **Founded in 1991”**
- **Booz, Allen; Bell+Howell; Ziff Communications-- Participated in the development ABI/INFORM, Business Dateline, General Business File, and Health Reference Center**
- **Provides technology assessment and information engineering services**
- **Recent projects:**
 - **Wireless strategy for one of the “world’s largest software company”**
 - **One of the founders of the Point Internet service (“Top 5% of the ‘Net), sold to Lycos in 1995**
 - **U.S. government projects**
 - **Worked on i2’s Dot Net product Web Zeer (Cambridge, England)**

Arnold Information Technology

- **US West's online yellow pages strategy**
- **Six books, more than 40 articles**
- **ASIS Distinguished Lectureship / Thomson Online Best Paper Award**
- **Business and technical market studies / strategy**
- **Contact:**

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sa@arnoldit.com

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