Enabling
AOAC Mobile Computing with
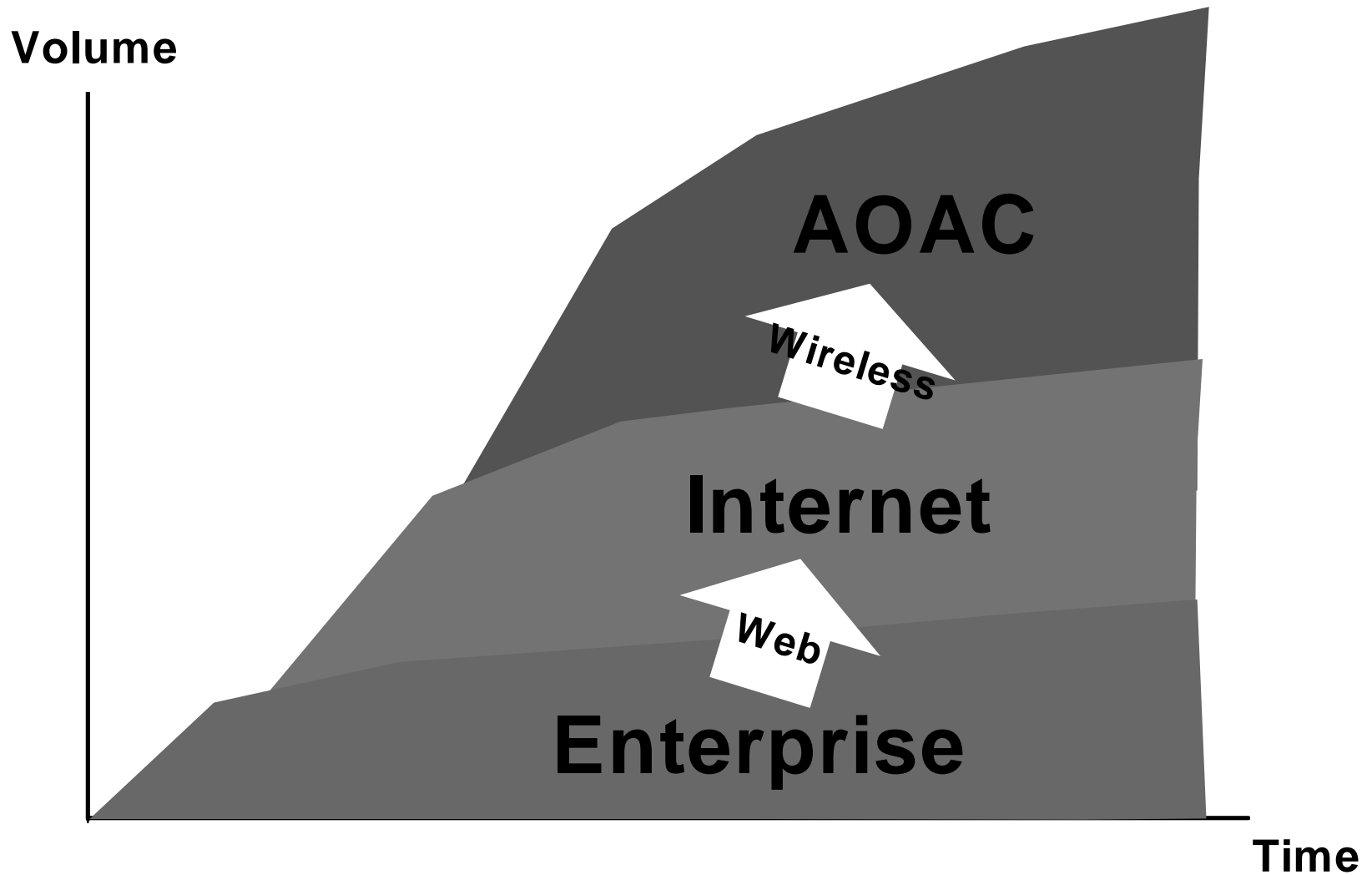# Narrowband Sockets

Mike Tso

Mobile Communication Operation

Intel Corporation

Agenda

- **Intel's Mobile Vision**

- **AOAC**

- **Virtual Internet**

- **Narrowband Sockets**

Intel's Mobile PC Vision

Volume

AOAC

Wireless

Internet

Web

Enterprise

Time

3

AOAC means
Data Finds You

The biggest development of the last 12 months is the Internet.

Internet is the Dialtone for Data…
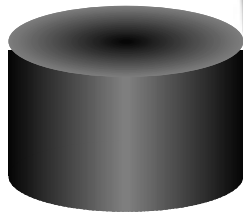
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The Myth of the Internet:

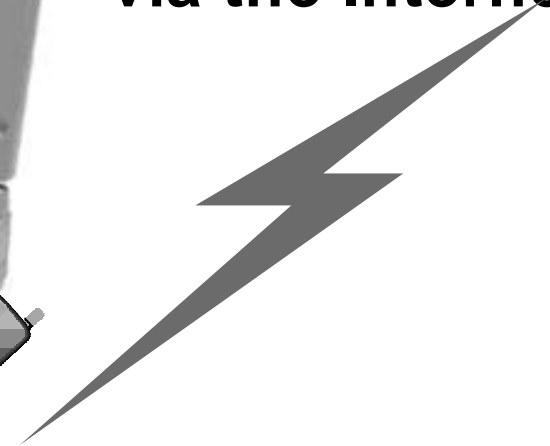## *"There is plenty of bandwidth available (soon)."*

The Trend:
Hybrid Applications

Complex content delivered on CD ROM or resides on HDD

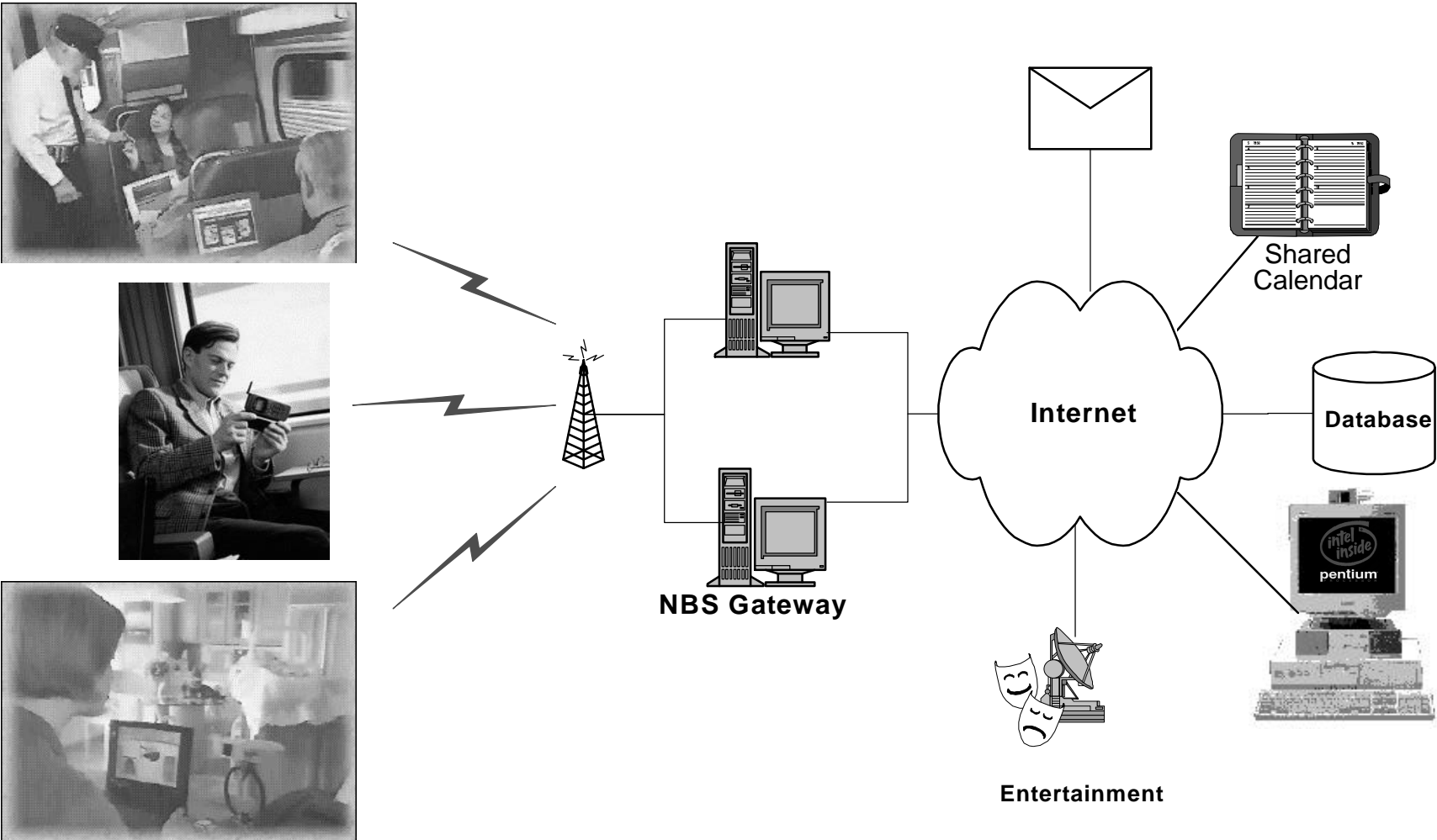**Updated and interactive content delivered via the Internet**

AOAC = Virtual Internet

- **Wireless Messaging**
  - –**Much Lower Overhead than Circuit Switched Data**
  - –**Store/Forward Capabilities**
- **Background Updates**
  - –**Fake "Fat" Pipe**
  - –**Latest Information Available Instantly when you need it**

Internet Data Sent as Wireless Messages

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AOAC Usage Model

Shared Calendar

Internet

Database

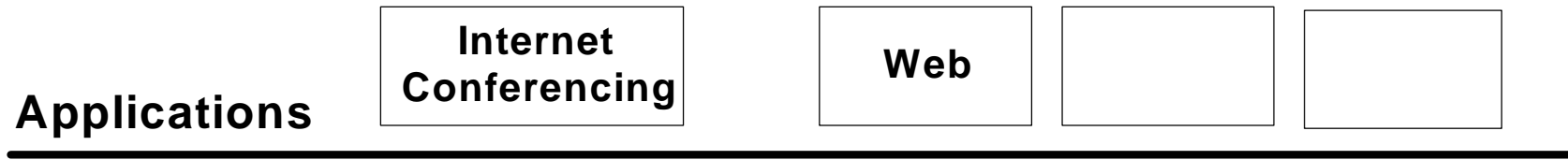NBS Gateway

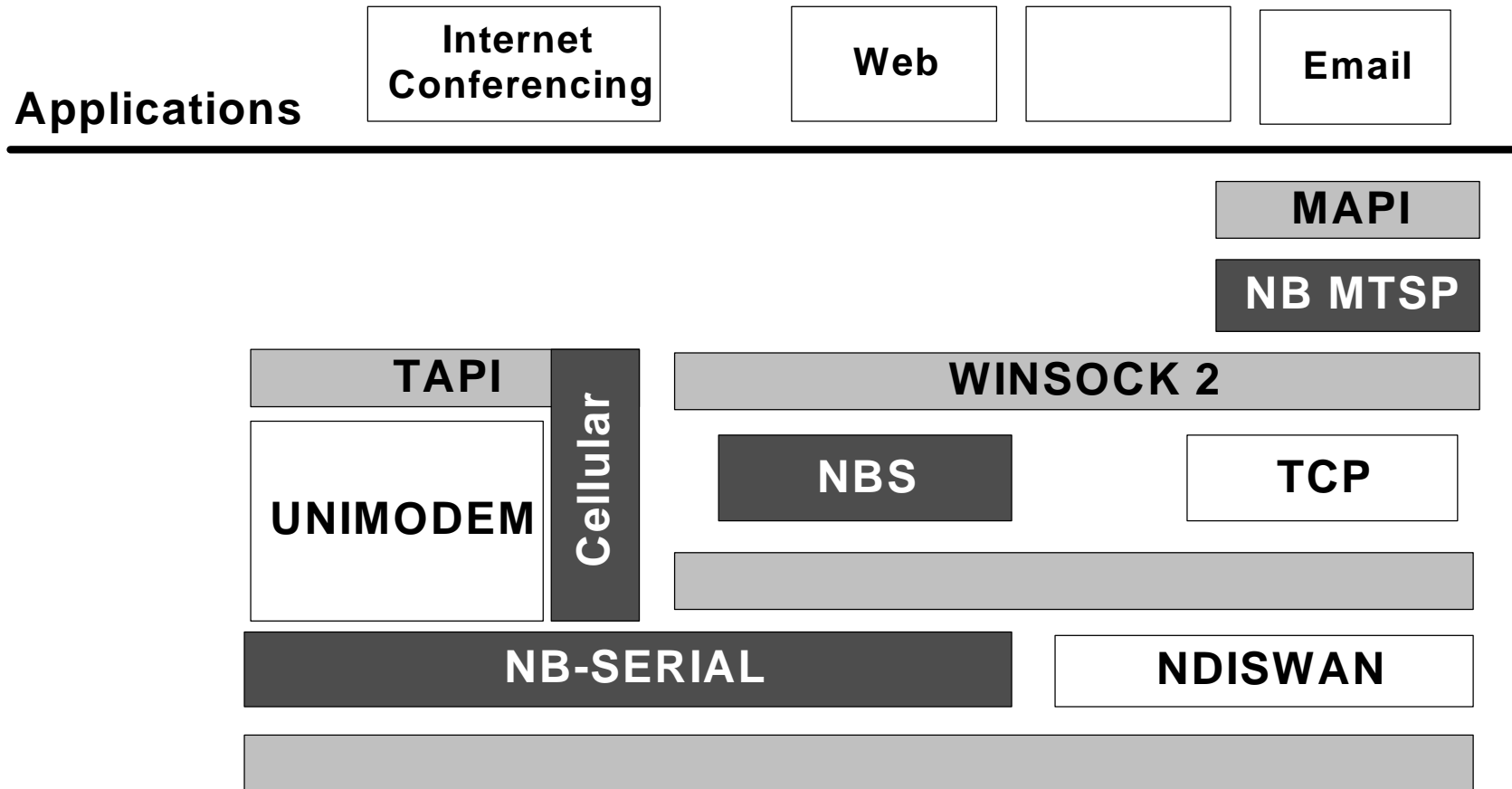Entertainment

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What is NBS?

- **Open Industry Specification**

- **Universal Short Messaging API**
  - **Network Independent**
  - **Scaleable Message Format**

- **Accelerates AOAC Applications**
  - **Familiar Sockets API**
    - **BSD Sockets, Winsock2**
  - **Familiar UDP, TCP services**
    - **F&R, Port Multiplexing, Reliability**

NBS is a Key Enabler of Virtual Internet

Using Standard APIs

Applications | Internet Conferencing | Web | | |

| WINSOCK 2 |
| NBS | TCP |
| |
| NB-SERIAL | NDISWAN |
| |

Extending Standard APIs

Applications

| Internet Conferencing | Web | | Email |

MAPI

NB MTSP

| **TAPI** | **Cellular** | **WINSOCK 2** |

| **UNIMODEM** | | **NBS** | **TCP** |

| **NB-SERIAL** | **NDISWAN** |

What does NBS mean for you?

- **User**
  - "Always" Connected Applications
- **Software Developer**
  - Opportunity for Innovation
- **Hardware Manufacturer**
  - Reduced Time to Market
- **Network Operator**
  - New Revenue Opportunity

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Call to Action

- **Review NBS Spec and Give Input**
  - **http://www.intel.com/ial/nbs**
  - **http://www.nokia.com**
- **Develop AOAC Apps**