



Center for Bits and Atoms
12 October 2006

Internet Zero and Sun Microsystems, Inc.

Douglas W. Johnson

Danny Cohen

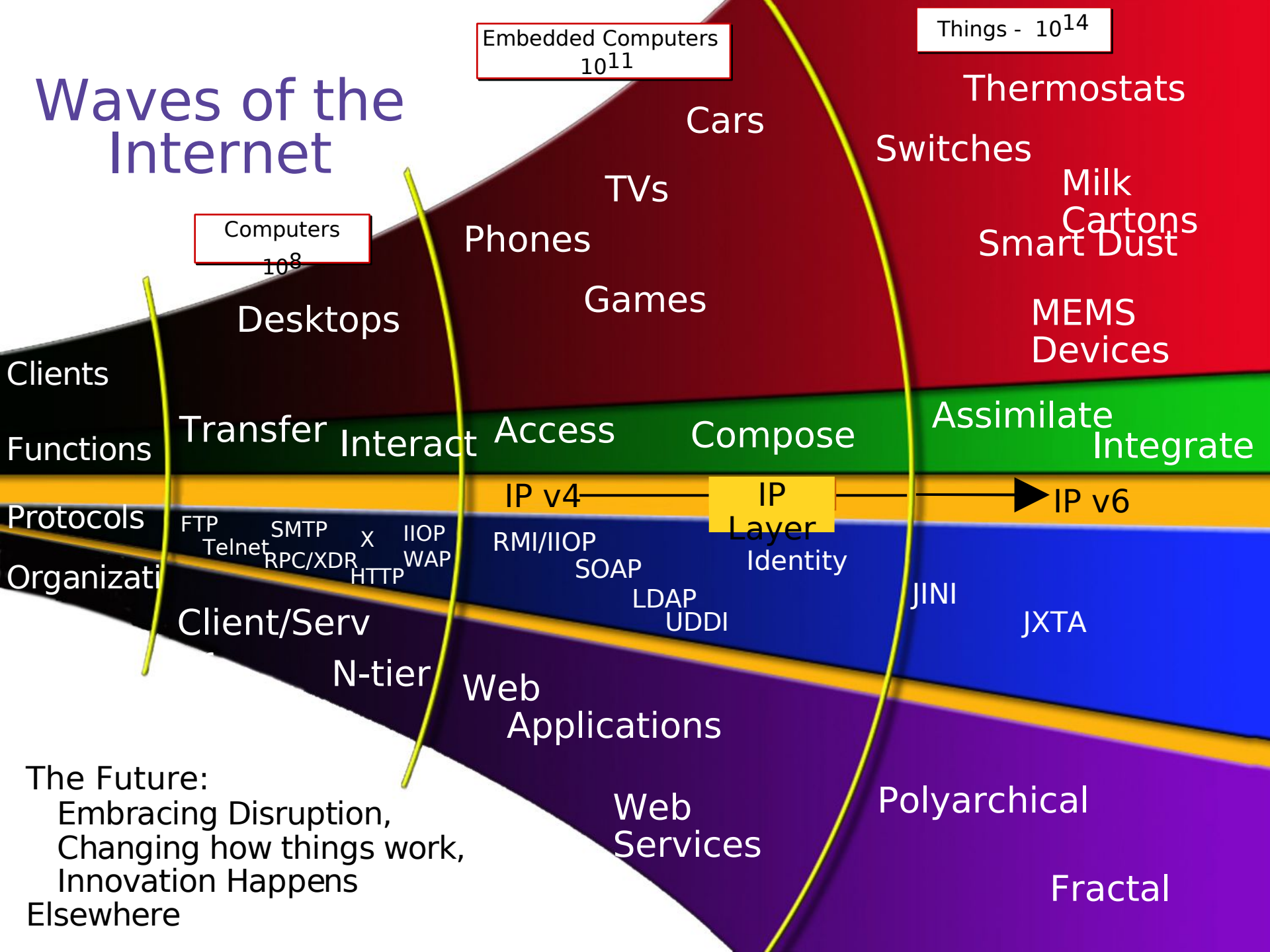
Arshan Poursohi

Sun Microsystems, Inc.

Sun Contributors

- Danny Cohen – Internet protocol design
- Arshan Poursohi – Sun SPOTS exploration and integration
- Doug Johnson – I0 Community development and standards

Waves of the Internet



The Future:
Embracing Disruption,
Changing how things work,
Innovation Happens
Elsewhere

Sun SPOTS

- Sun SPOTS designed to enable easier wireless sensor and transducer development.
 - > 32-bit ARM CPU, 512K RAM/4M flash
 - > 11-channel, 2.4 Ghz 802.11.15.4 radio
 - > J2ME CLDC 1.1 Java VM
- <http://www.sunspotworld.com/>
- Allows developer to focus on task, not integration
- Key idea being explored is to allow a mid-level, capable platform for interfacing with I/O networks

The Three Revolutions

- Open Standards
 - > Mutual corporate self-interest to “level playing fields”
 - > Crisis: *ex post* IPR bandits
- Open Source
 - > Freedom for developers (not end-users)
 - > But binary distributions still rule
- Network Services
 - > From selling bits to selling their execution

You Can't Create Community without Contribution

OpenSPARC™



NetBeans

java.com

opensolaris™



Java™
Sun Microsystems

solaris™



java.net



JINI

Looking Glass



OpenOffice.org



Mozilla
Firefox™



JXTA

java.sun.com

Sun Thrives Because Of Community

Sun Sponsored Open Source Projects



Open Source



standards and Industry Group



* Not a complete li

Internet Zero Community Goals

- Venue for technical exploration
- Development of specifications and standards while recognizing need for openness
- Resource for sharing development and continued work



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