



USB

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Agenda:



- **Where it all began**
 - **USB Today**
 - **Q&A**
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Where it all began



- Creating the USB specification
 - Group of 7 formed in Q1'95
 - Compaq, DEC, IBM, Intel, Microsoft, NEC, Nortel
 - Spec 1.0 published in Jan'96
- USB Implementers Forum
 - First Developers Conference Sept'95
 - Compliance Workshops started up
- First products
 - Chipsets, peripheral silicon, tools appear 1H'96
 - PCs and peripherals appear 2H'96
 - PC ramp complete and peripheral ramp in full swing post Windows 98 launch

Spec Development Process



- Promoter Group
 - Focused group of experts to lead spec development
 - Members from key areas: silicon, peripherals, PC
- Contributors
 - Larger group of stakeholders providing spec feedback
- Adopters
 - Access to IP on a royalty-free basis

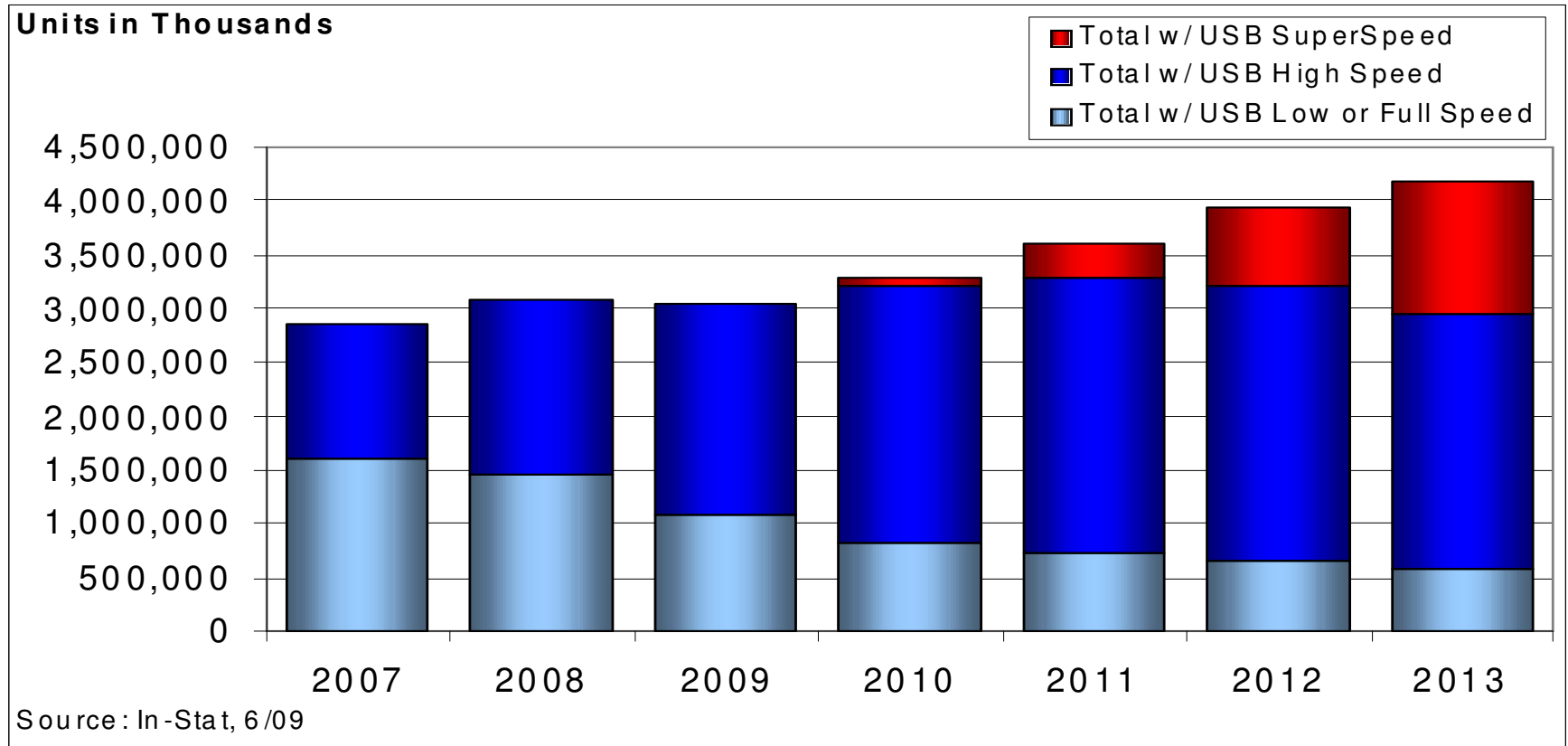


USB Today

Worldwide Shipment of USB-enabled Devices



- **USB the most successful interface in the history of PC**
- **Device charging over USB has become a major consumer feature**
- **USB Installed base is 10+ billion units and growing at 3+ billion units a year**
- **Adoption virtually 100% in PC and peripheral categories**



USB 3.0 Contributors



USB 3.0 - SuperSpeed USB



- SuperSpeed USB Products Shipping
- Up to 10x performance increase
- Fast sync-n-go
 - Minimizes user wait-time
- Optimized power efficiency
 - Uses 1/3 the power of USB 2.0
- Backward compatible with USB 2.0





Your Questions

Resources



USB 3.0 Specification

www.usb.org/developers/docs

USB 3.0 Compliance Testing (USBIF)

<http://www.usb.org/developers/ssusb/testing>

Microsoft Driver Verifier Documentation

<http://www.microsoft.com/whdc/DevTools/tools/DrvVerifier.mspx>

Microsoft Driver Verifier in Windows 7

<http://www.microsoft.com/whdc/devtools/tools/Win7DriverVer.mspx>

Microsoft Driver Distribution

<http://www.microsoft.com/whdc/maintain/drvupdate.mspx>

Windows Device Testing Framework

<http://msdn.microsoft.com/en-us/library/dd446421.aspx>

WLK Hardware Requirements

<http://www.microsoft.com/whdc/winlogo/hwrequirements.mspx>

Intel's xHCI Requirements/Specification

<http://www.intel.com/technology/usb/spec.htm>

Intel's USB 3.0 PIPE Specification

<http://www.intel.com/technology/usb/spec.htm>