

PI ProcessBook 2012

- Focus on improving International support
- Better ways to manipulate time while reviewing displays
- Improved support for asset-based data, such as annotating a value referenced by an AF attribute

What's new in PI ProcessBook 2012?

The screenshot displays the PI ProcessBook 2012 software interface. The main window shows a 'Turbine Overview' for a wind turbine. The interface is divided into several sections:

- Search:** A search bar containing the text '*Farm'.
- Elements of Interest:** A list of wind farms, including Big Buffalo Wind Farm, Black Mesa Wind Farm, Black Wolf Wind Farm, Deep Valley Wind Farm, Eldorado Wind Farm, Grand Ridge Wind Farm, White Bear Wind Farm, Wild River Wind Farm, Windy Valley Wind Farm, and Yellow Creek Wind Farm.
- Turbine Overview:** A large display area showing the following information:
 - General Unit Information:** Unit Name: WTG06, Unit Model: 1.5 csCWE, Unit Status: Load Operation.
 - Generation Information:** Active Power: 1507.03 kW, Reactive Power: 41.5165 kVA, Apparent Power: 1505.80 kVA, Power Factor: 0.98, Line Frequency: 60.01 Hz.
 - Availability Information:** Energy (Daily): 27553.75 kWh, Capacity Factor (Daily): 76.40%, Availability Factor (Daily): 98.23%.
 - Unit Power Curve (Last 2 Hours):** A graph showing Generation vs. WindSpeed.
 - Active and Reactive Power Output:** A line graph showing power output over time.
 - Turbine Wind Speed:** A line graph showing wind speed over time.

A large text overlay in the center of the screen reads: "Reuse your displays and show meaningful status".

What's new in PI ProcessBook 2012?

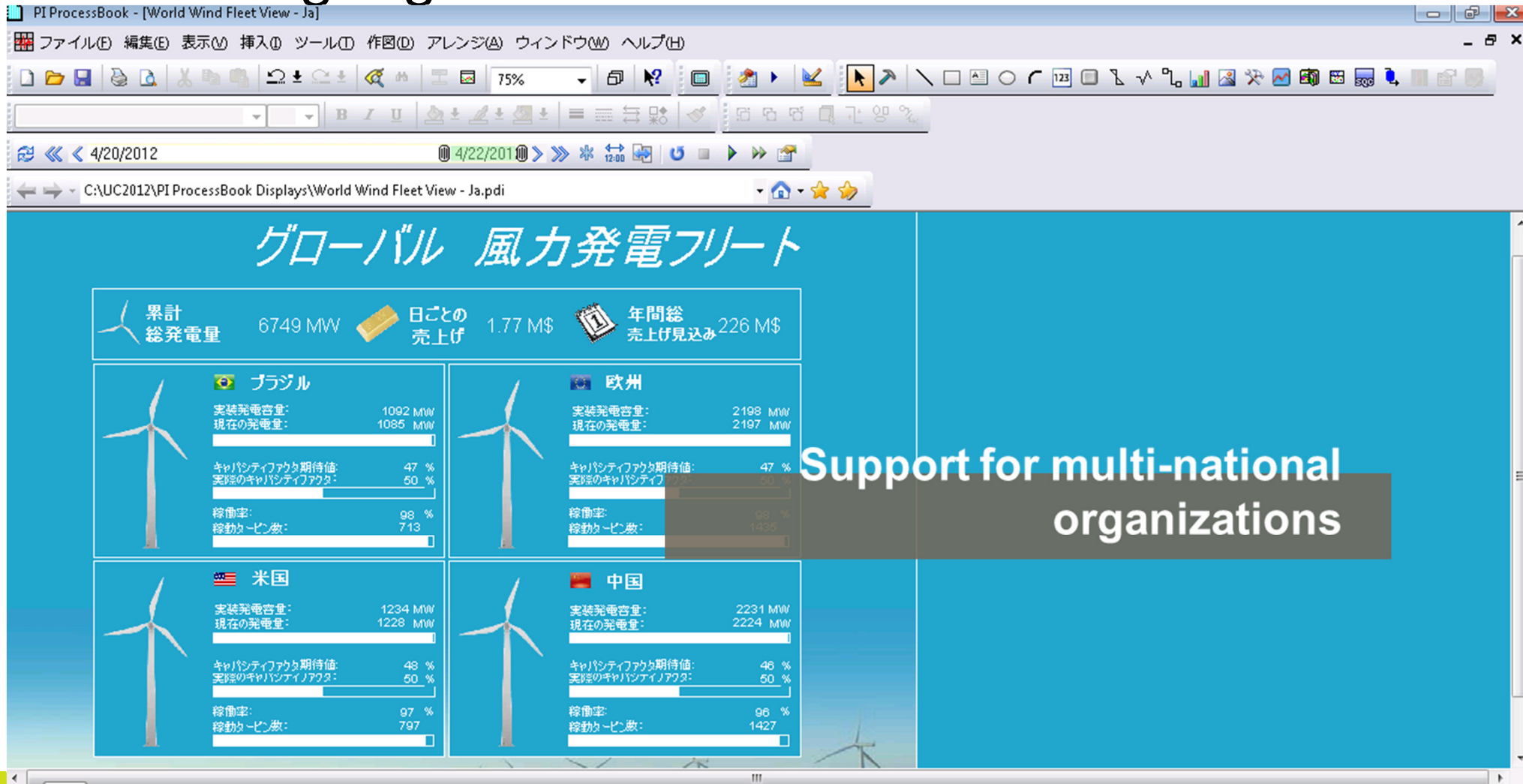
The screenshot shows the PI ProcessBook 2012 interface. The top status bar displays the time as 7:49:04 AM. The browser address bar shows the file path: C:\Users\ldieffenbach\Desktop\ProcessBook displays\Windtopia\Wind turbine overview.pdi. The main interface is divided into several panels:

- Search:** A search box containing the text '*Farm'.
- Elements of Interest:** A list of elements with a filter box. The list includes:
 - Big Buffalo Wind Farm
 - Black Mesa Wind Farm
 - GE01
 - GE02
 - GE03
 - GE04
 - GE05
 - GE06
 - GE07
- WindFarm assets:** A display titled 'Wind Farm' showing:
 - Site Location: Black M
 - Number of Units: 10
 - Units in Production: 8
 - Capacity Factor: 76
 - Availability: 70 %
- Wind turbine overview:** A display titled 'Turbine Overview' showing:
 - General Unit Information:
 - Unit Name: WTG01
 - Unit Model: 1.5 csCWE
 - Unit Status: Feathering Position
 - Availability Information:
 - Energy (Daily): 23543.62 kWh
 - Capacity Factor (Daily): 65.77 %
 - Availability Factor (Daily): 91.11 %
 - Unit Power Curve (Last 2 Hours)

A semi-transparent box with the text 'Navigate displays together' is overlaid on the 'Wind turbine overview' display.

What's new in PI ProcessBook 2012?

- PI Language Selection Tool



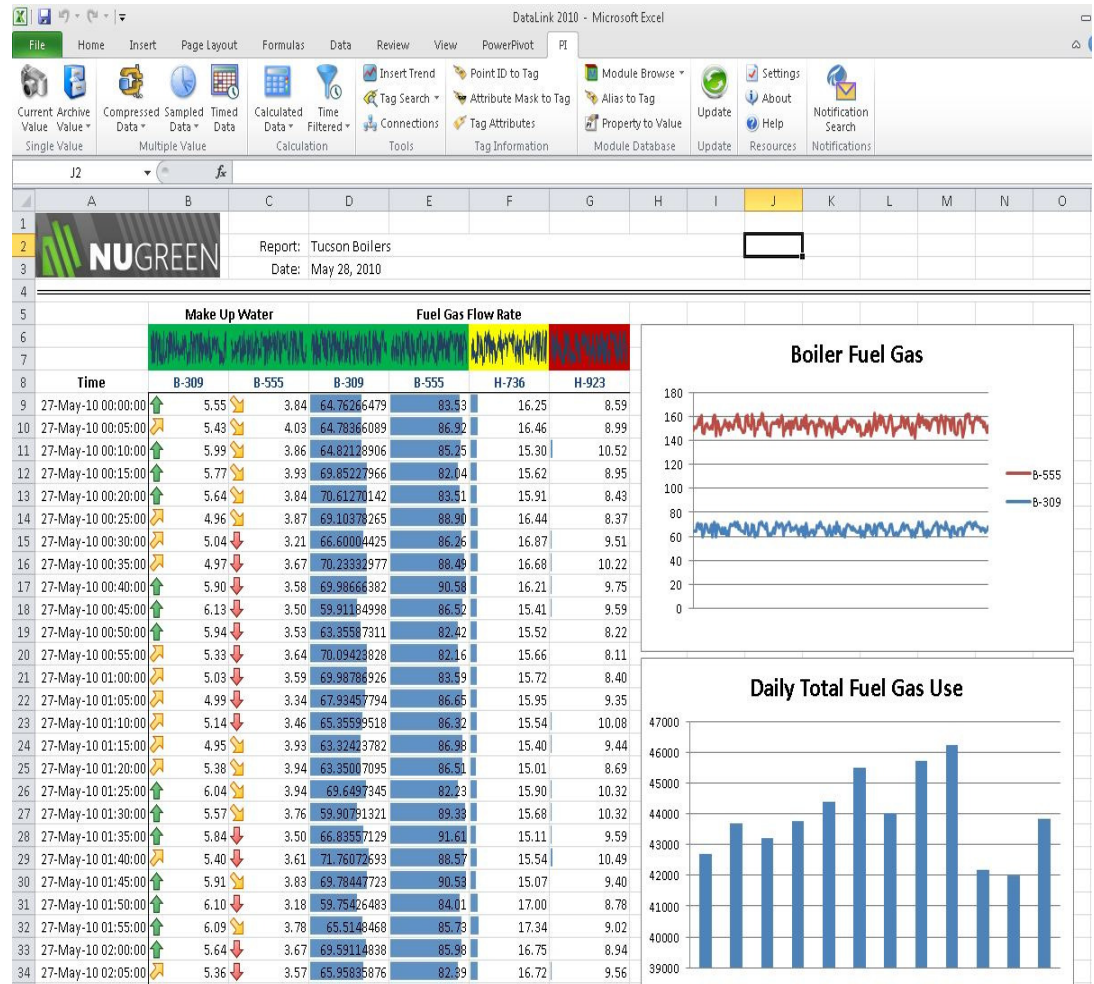
Support for multi-national organizations

Coming Next

- Better ways to build displays from assets
- Better ways to compare assets
- Ways to view and apply significant events with PI Event Frames
- Ways to launch PI Coresight for ad hoc analysis
- Display server to reuse PI ProcessBook content

PI DataLink

- Add-in to Microsoft Excel to retrieve PI System data, create reports, perform calculations, and do analysis in a familiar environment
- OSIsoft's most popular product by installations.



New Features in 2012

- Integration with PI Asset Framework

Easier to find data, re-use work with asset relative displays, use natural language, and view the world based on assets.

- Search

Browse or search the entire PI System to find exactly what you're looking for

- Excel 2010 64-bit support

32-bit or 64-bit. PI DataLink will work.

Integrated PI AF Experience

Book2 - Microsoft Excel

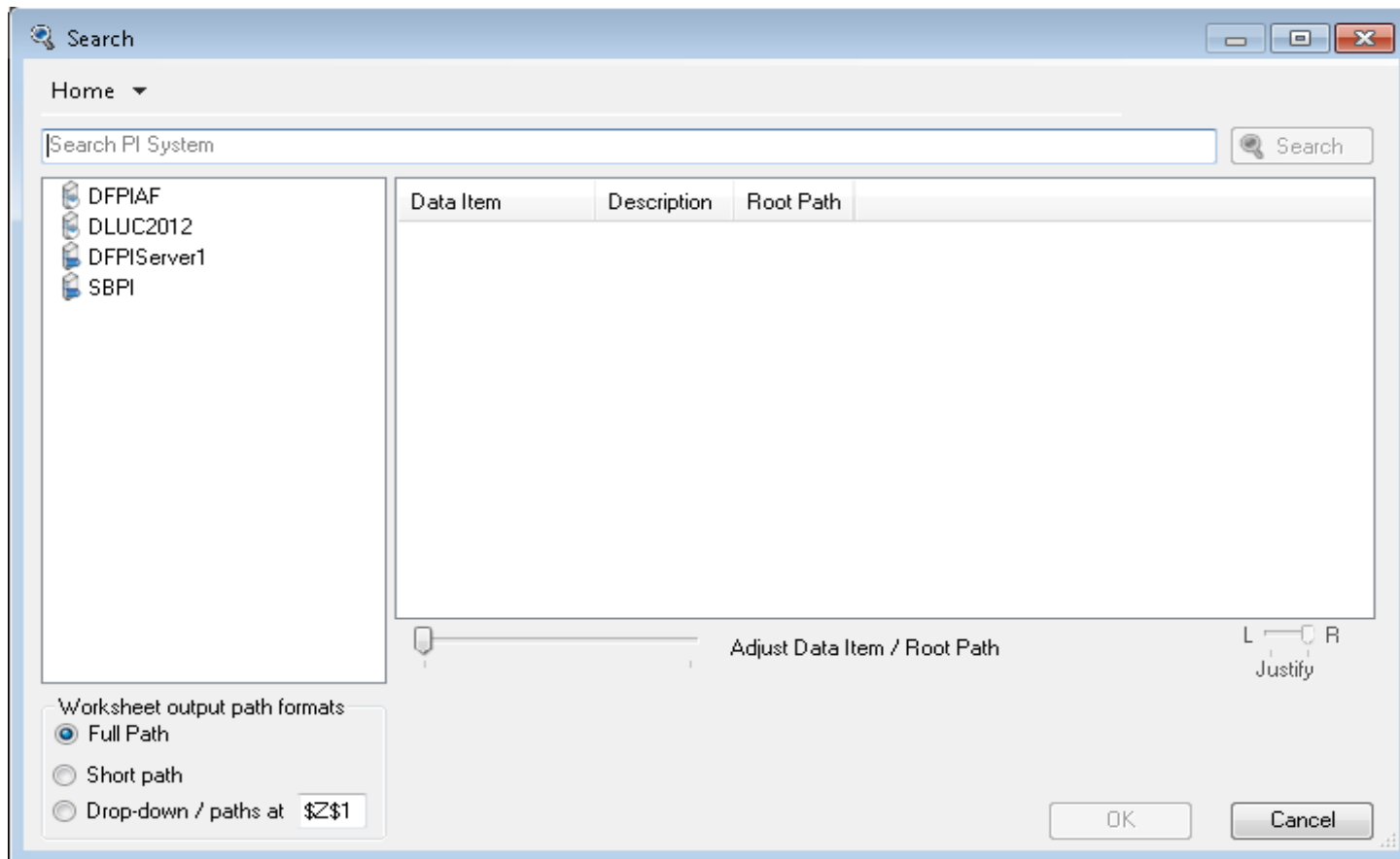
File Home Insert Page Layout Formulas Data Review View Load Test PowerPivot **PI** Team

Current Value Single Value | Archive Value | Compressed Data | Sampled Data | Timed Data | Calculated Data | Time Filtered | Asset Search | Update | Settings | About | Help

B17

	A	B	C	D	E
1	AF Attribute				
2	\\SL3ITPIAF01\ERP\San Leandro Facilities\HVAC\East AC Unit Temperatures Mixed Air	East AC Unit	08-Mar-11 17:59:27	59.594 °F	
3	\\SL3ITPIAF01\ERP\San Leandro Facilities\HVAC\East AC Unit Temperatures Leaving Air	East AC Unit	08-Mar-11 18:00:51	51.242 °F	
4	\\SL3ITPIAF01\ERP\San Leandro Facilities\HVAC\East AC Unit Temperatures Outdoor Air	East AC Unit	08-Mar-11 17:59:27	59.594 °F	
5	\\SL3ITPIAF01\ERP\San Leandro Facilities\HVAC\East AC Unit Temperatures Return Air	East AC Unit	08-Mar-11 18:00:51	72.608 °F	
6	\\SL3ITPIAF01\ERP\San Leandro Facilities\HVAC\West AC Unit Temperatures Mixed Air	West AC Unit	01-Jan-70 00:00:00	0 °F	
7	\\SL3ITPIAF01\ERP\San Leandro Facilities\HVAC\West AC Unit Temperatures Leaving Air	West AC Unit	08-Mar-11 18:00:52	52.682 °F	
8	\\SL3ITPIAF01\ERP\San Leandro Facilities\HVAC\West AC Unit Temperatures Outdoor Air	West AC Unit	08-Mar-11 18:00:48	63.734 °F	
9	\\SL3ITPIAF01\ERP\San Leandro Facilities\HVAC\West AC Unit Temperatures Return Air	West AC Unit	08-Mar-11 18:00:50	73.562 °F	

New PI DataLink Search Experience



Backwards Compatibility

- Continue to utilize existing workbooks
- AF Server NOT required.
- Use Attributes and/or PI Tags. Your choice.

Supported Platforms

Office Versions

- Excel 2007
- Excel 2010 (32-bit)
- Excel 2010 (64-bit)

- No longer supports Excel 2003 (or earlier)
 - Best PI AF Experience requires new Excel UI - Ribbon + Task Panes
 - Ending MS support for 2003
 - Mainstream Ended: April 14, 2009
 - Extended Support Ends: April 8, 2014

Operating Systems

- Windows XP (SP3) – Windows 7
- Windows Server 2003 (SP2) – 2008R2

- NET Framework 4.x required

Caveats

- Trend Control
 - 32-bit: Display & Update Existing Displays.
 - 64-bit: Not Available. Trends display as static images and do not update.

PI DataLink Server 2012

- Release coming in 2013
- Designed to support upcoming SharePoint 15
And PI DataLink 2012



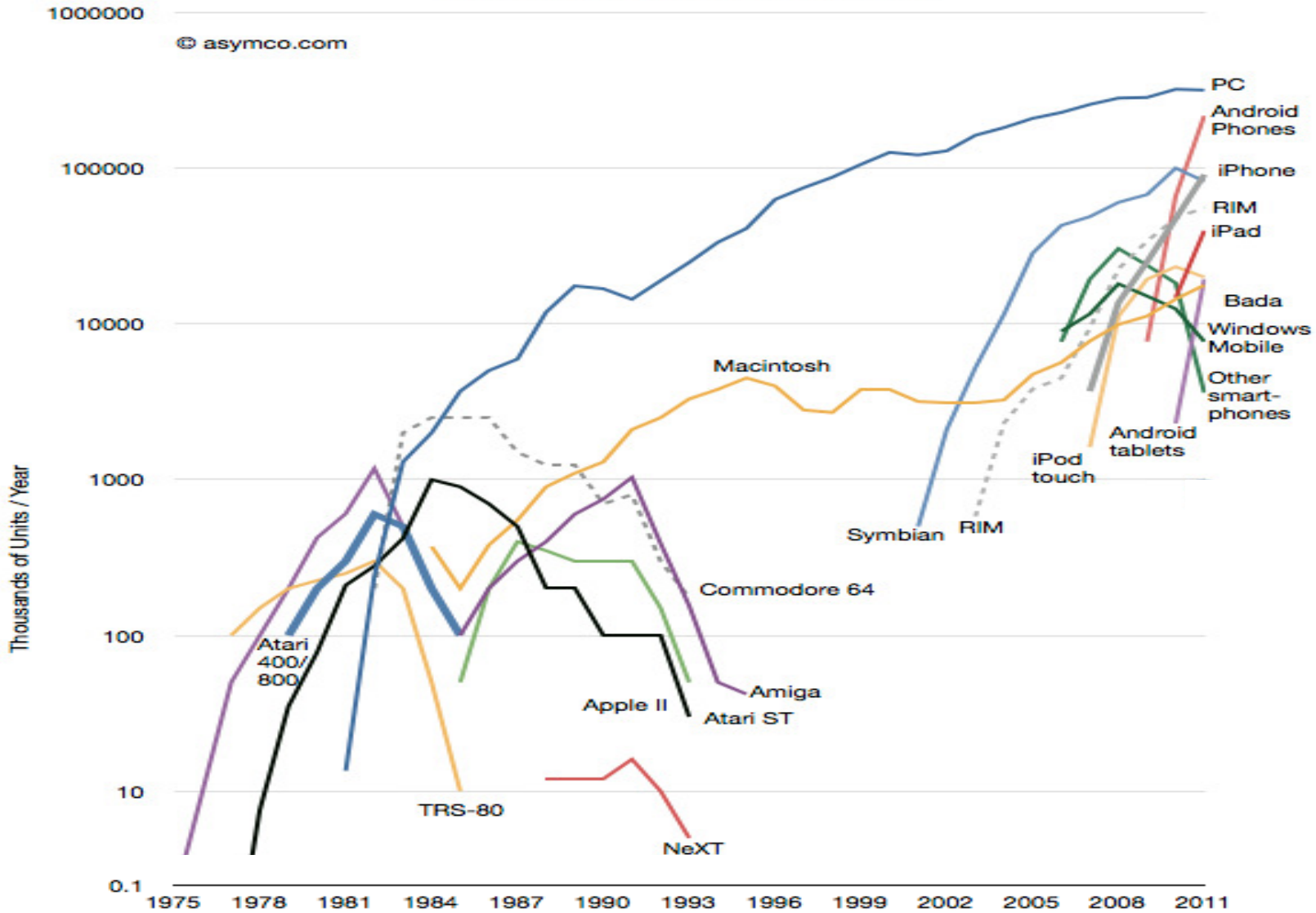
**We have
come a long
way.**



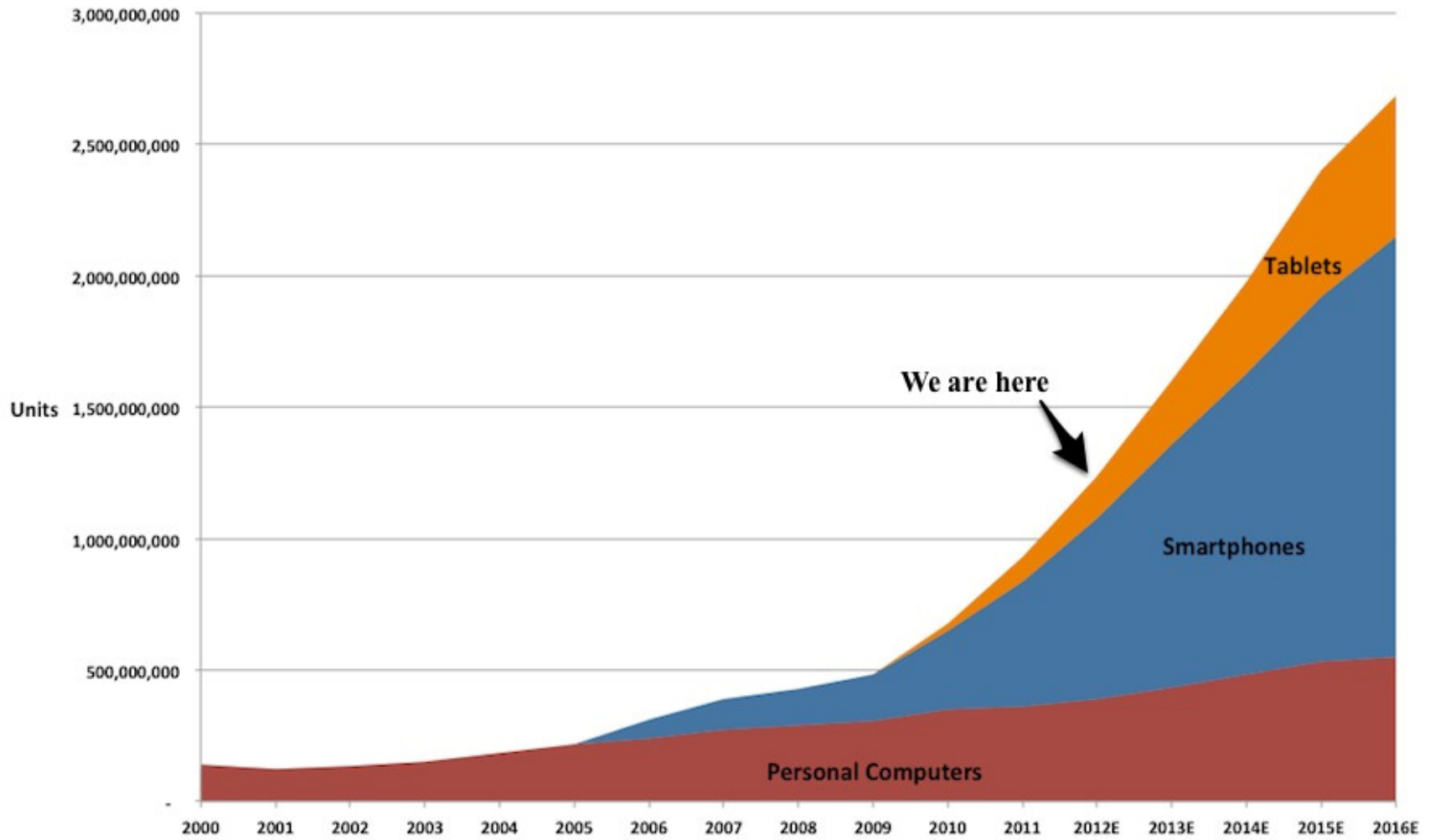
The Mobile Device Explosion



Units Shipped Per Year (Log scale)



Global Internet Device Sales



Source: Gartner, IDC, Strategy Analytics, company filings, BI Intelligence estimates

25% of computers used for work
globally are tablets and smartphones
-Forrester Research Inc. 2011



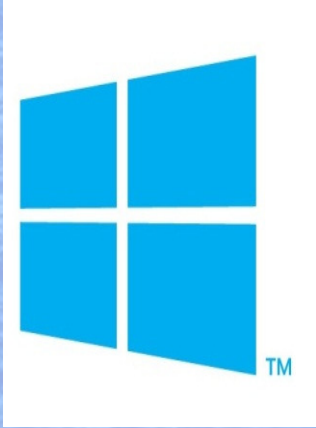


#1 tablet vendor with 40 million iPads sold in 2011

(That's one every 1.2 seconds)



**From less than 5% smartphones
market share to #1 position in 2
years**



Windows 8

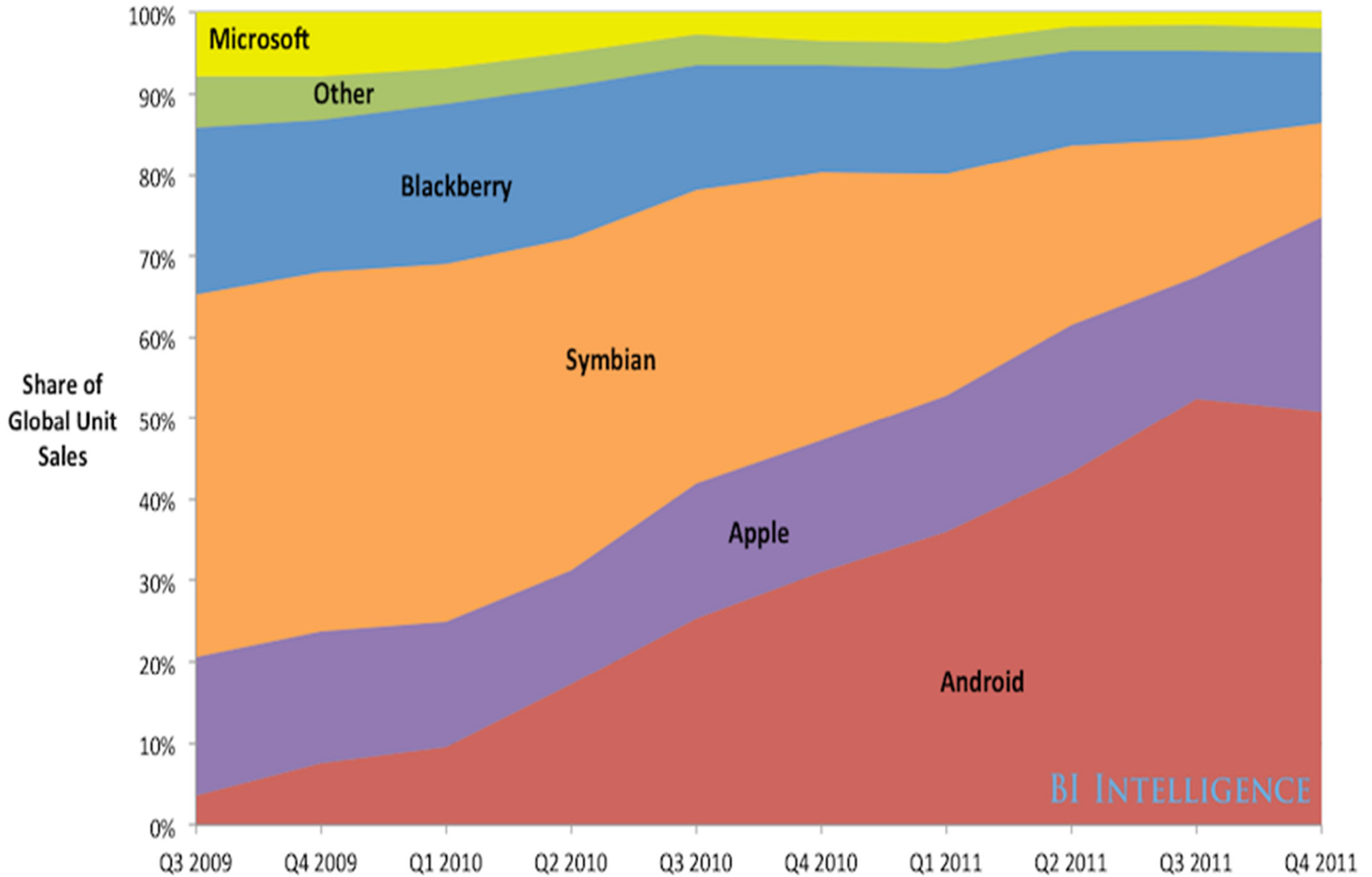
Its all about the ecosystem

- **Microsoft's master plan to beat Apple and Google**
By [David Goldman @CNNMoneyTech](#) April 17, 2012: 5:20 AM ET



Who's still in the race?

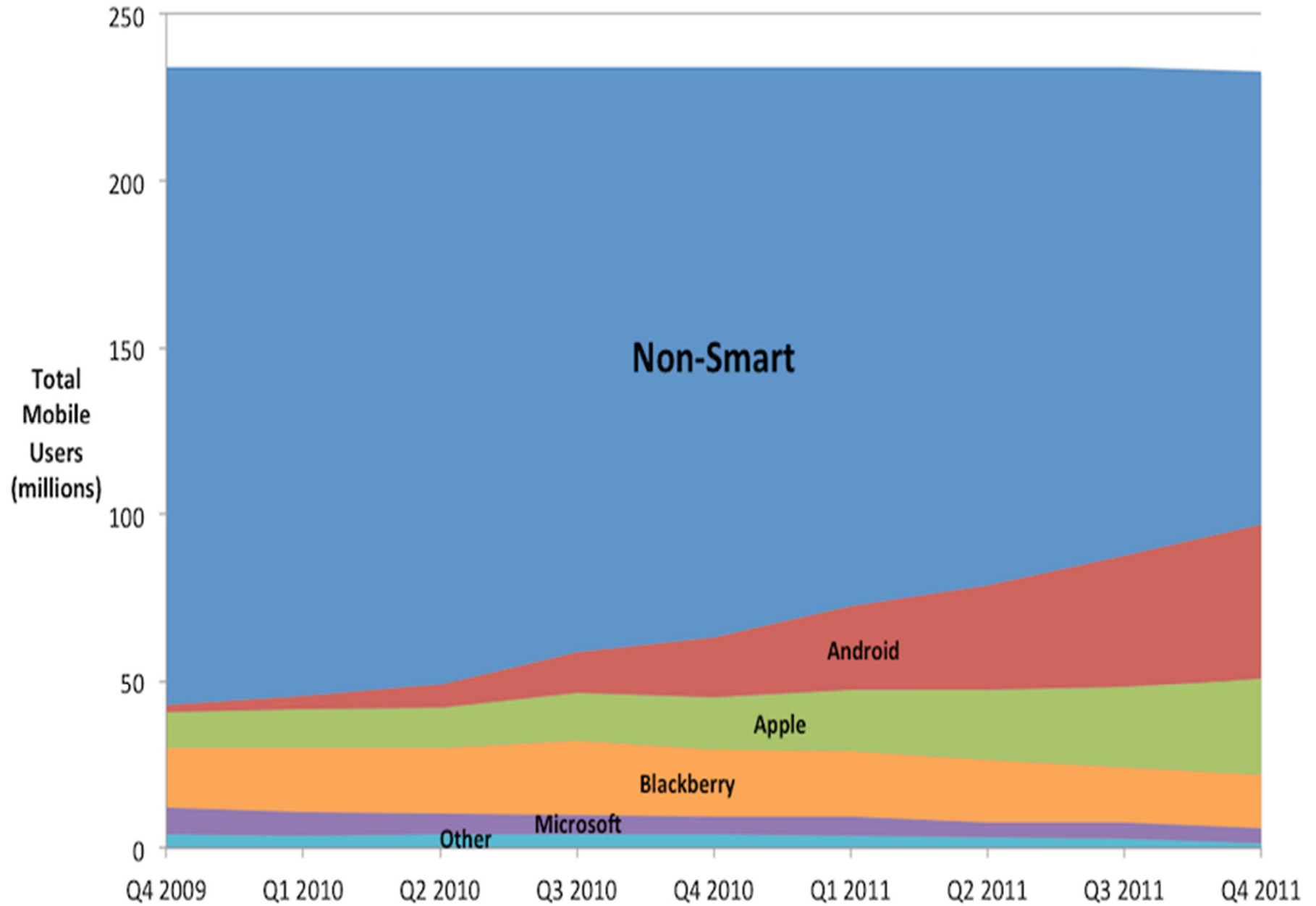
Smartphone Market Share By OS (Global)



Source: Gartner

BI INTELLIGENCE

Mobile Market Share By OS (U.S.)



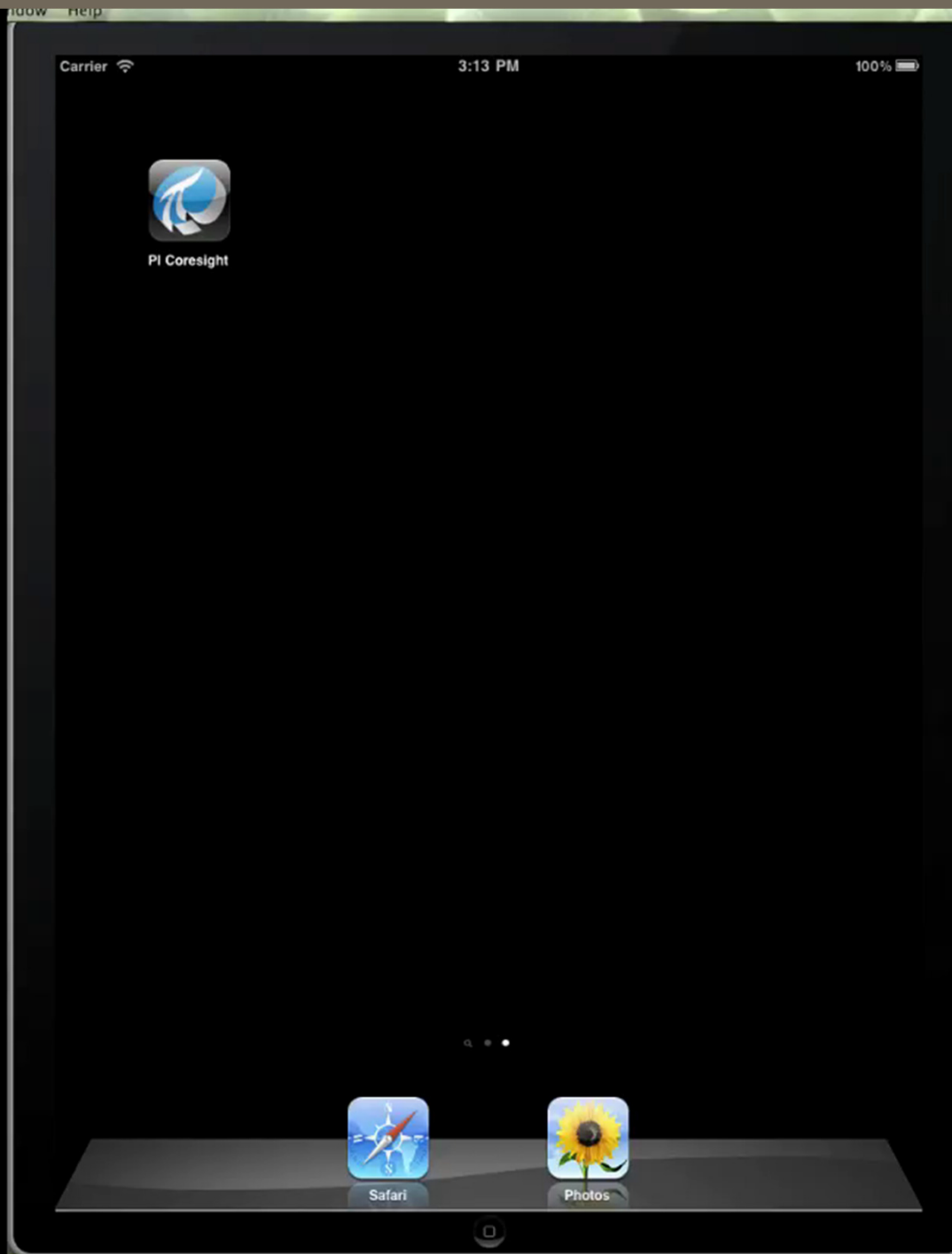
Source: comScore

Priority?

	Apple	Android	Windows
Phones	2	2	3
Tablets	1	3	3

PI Coresight on iPad

- Native application for optimal touch experience
- Form factor well adapted for PI Coresight
- Same displays available on Desktop or iPad

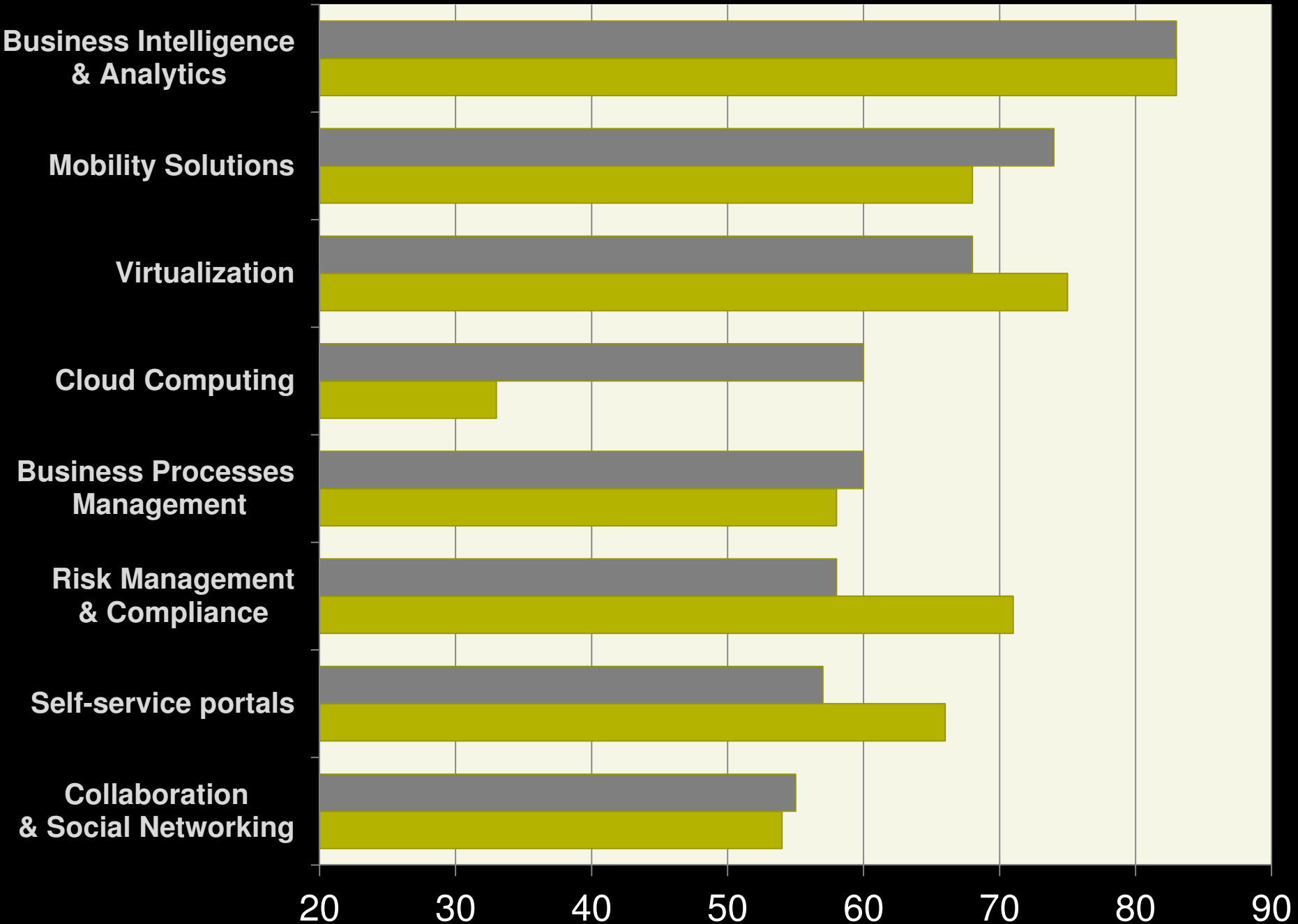


PI Coresight on smartphones

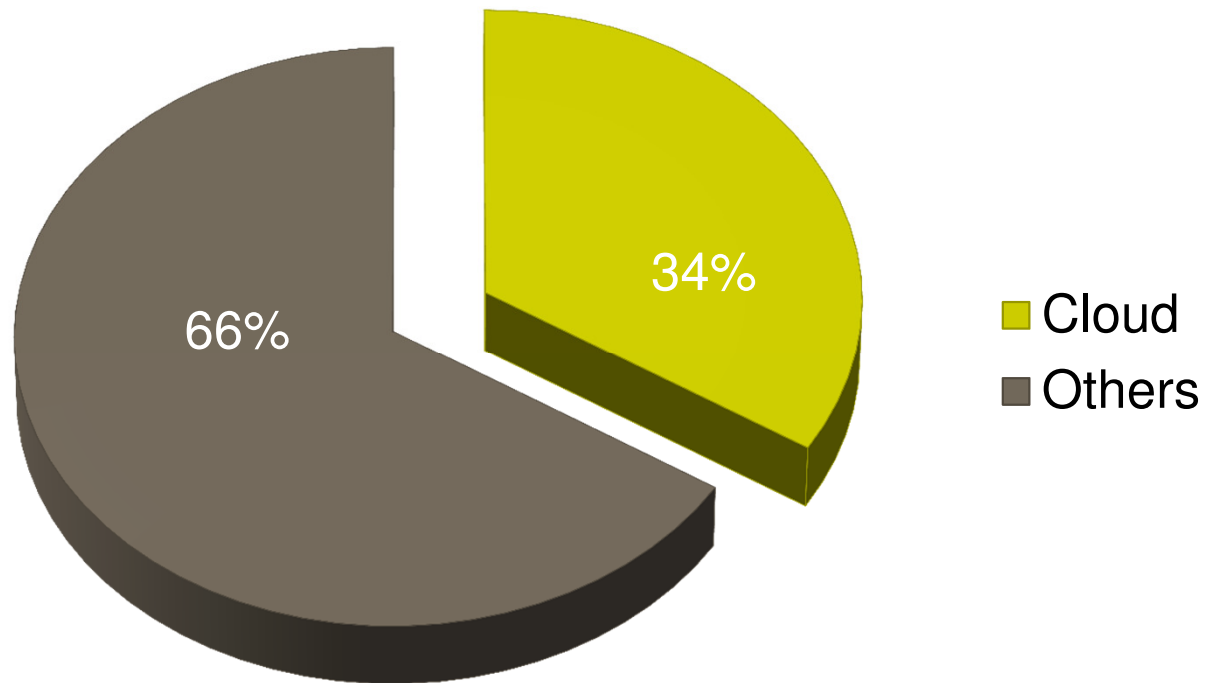
- Designed for smaller displays
 - Same display data, smaller layout
- Tight integration with PI Notifications
- Need for Cloud based connectivity
 - Need alternative to VPN for large fleet of devices
 - Need to support other identity providers

CIO top priorities

■ in 2011 ■ in 2009

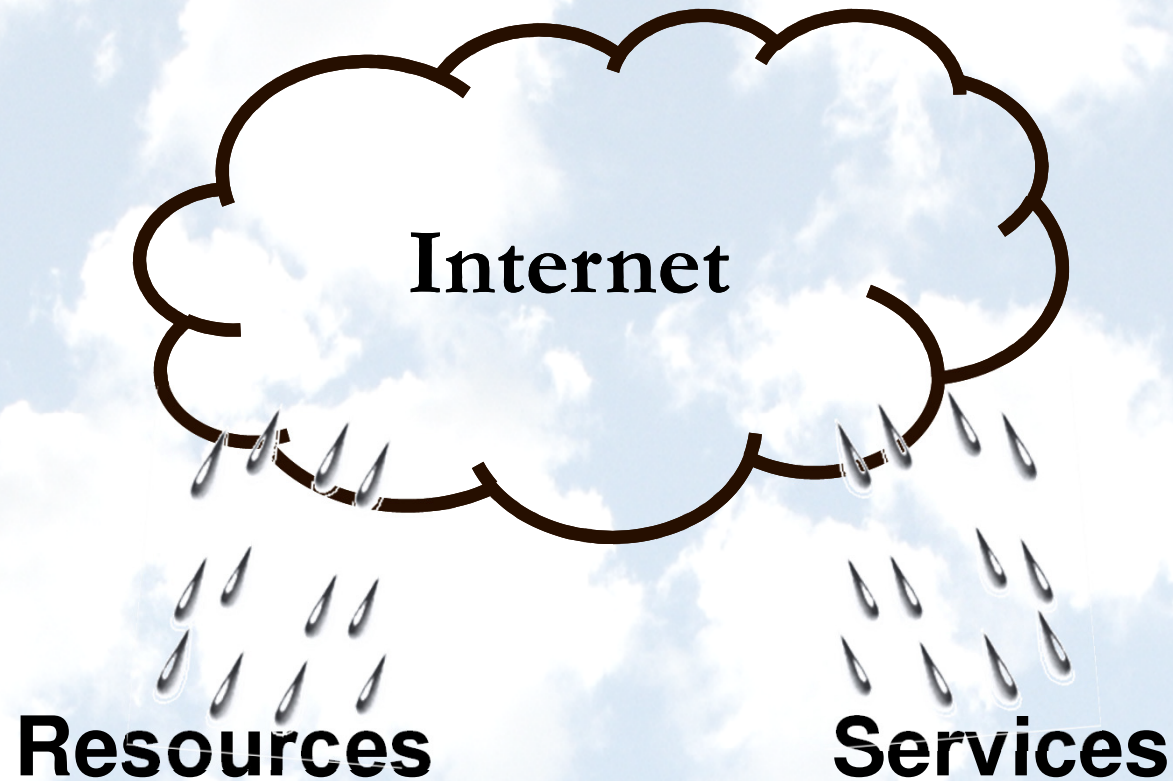


2012 IT Budget Allocations



Forbes Tech
April 2012

What do we mean by 'Cloud'?



Infrastructure as a Service

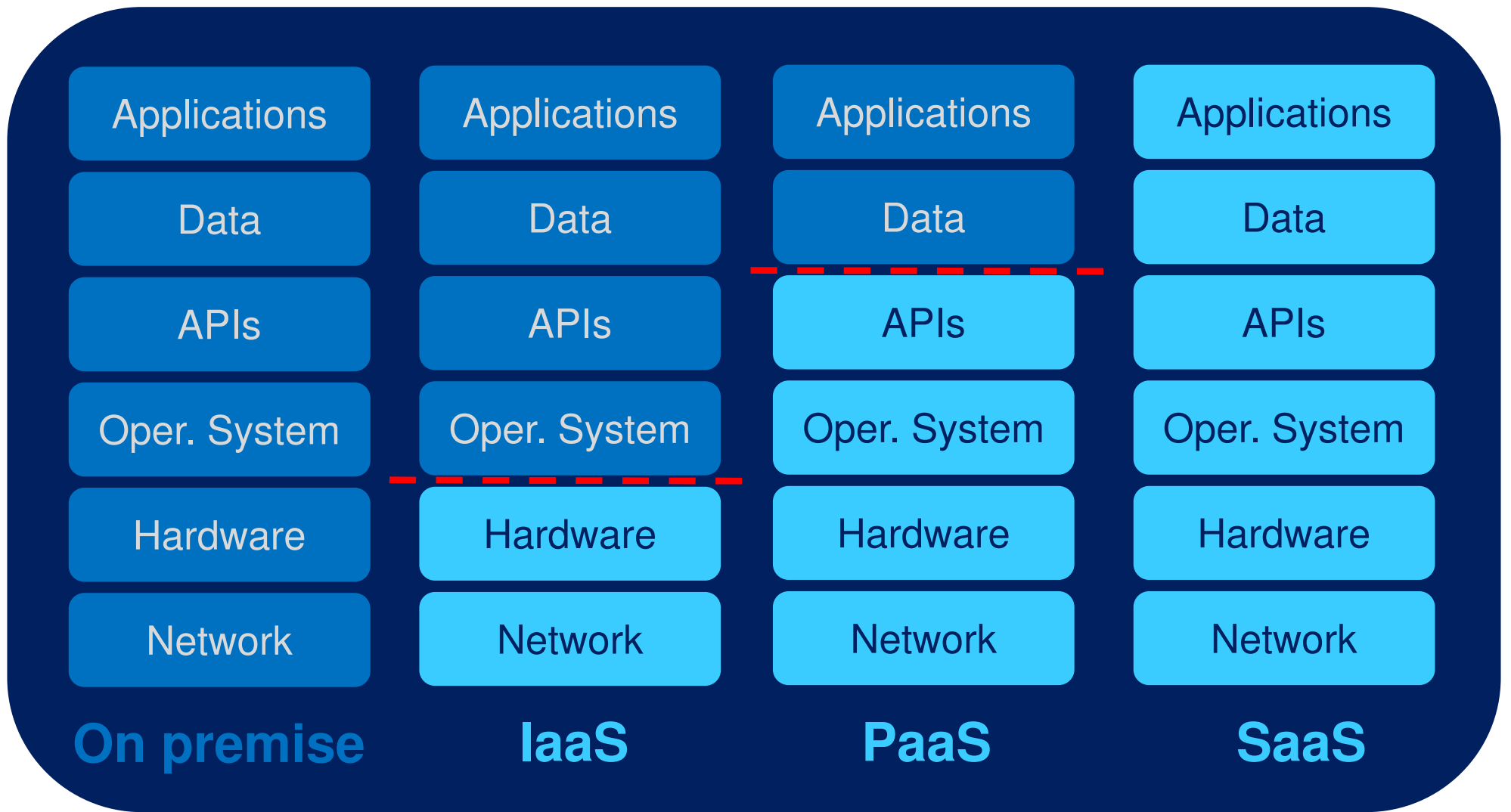


Platform as a Service

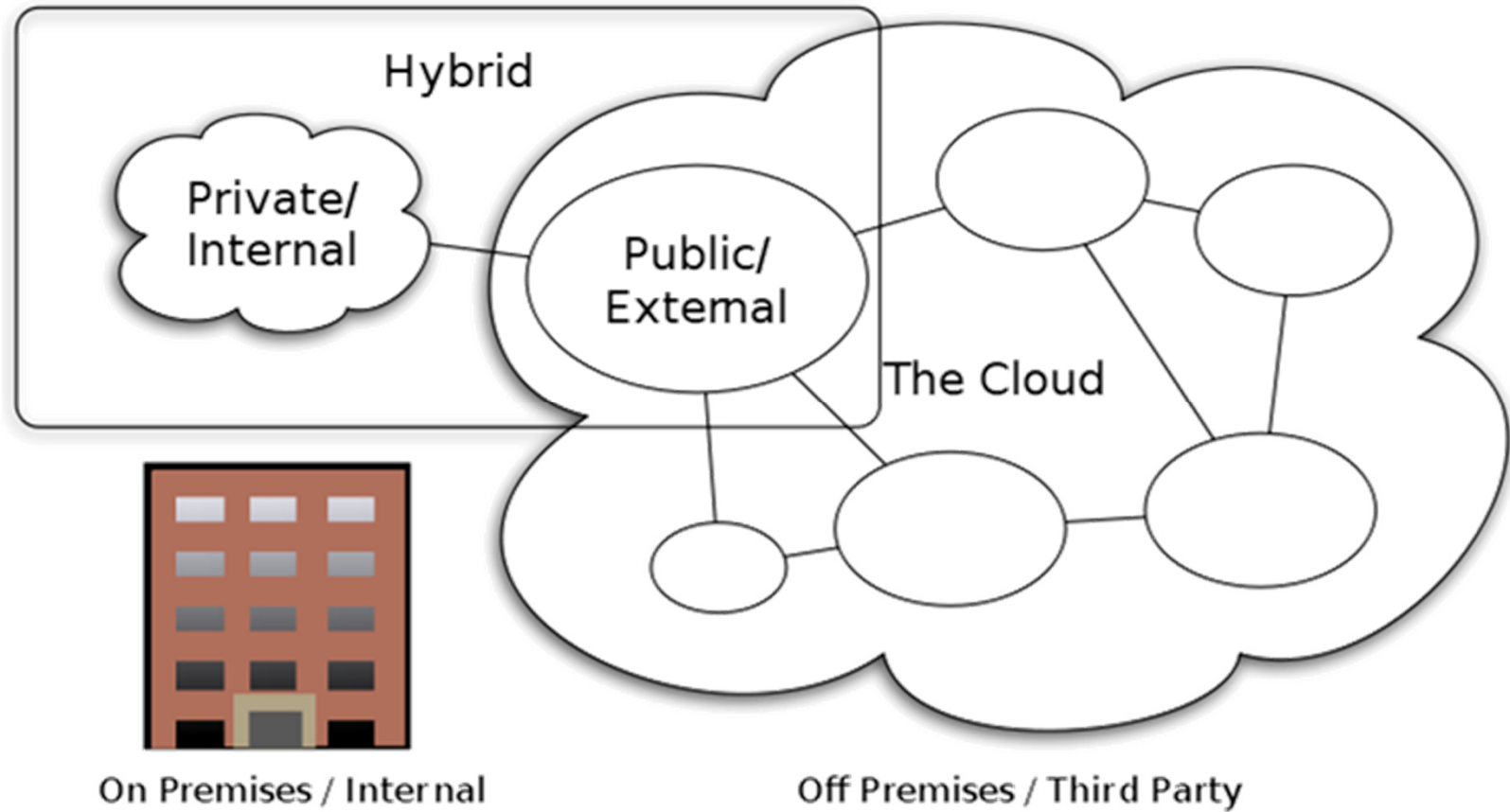


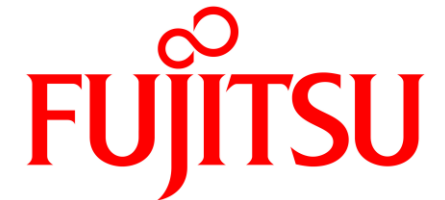
Software as a Service





Where is the Cloud?





Why Windows® Azure™ ?

- Microsoft next Operating System
 - Windows 8 / Windows Server 2012
- Azure offers IaaS, PaaS and SaaS
- Azure supports public, private and hybrid deployment
- Historical partnership with Microsoft

Concerns about the Cloud...

- Security
- Performance
- Reliability

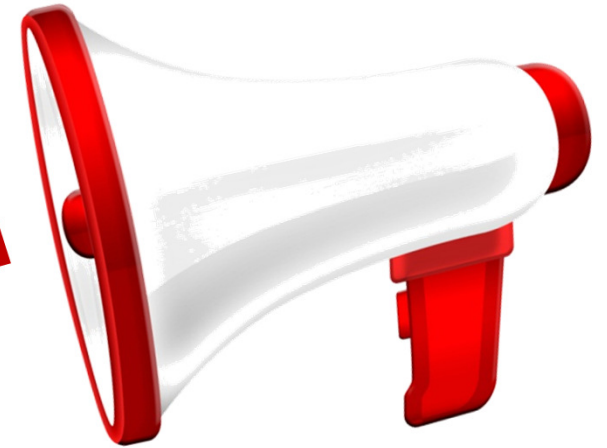


What are the benefits?

- Transfer of responsibilities
 - No need for hardware infrastructure
 - No maintenance
 - Always be up to date
- Elastic/scalable solution
- More flexible consumption model

Call to action!

**Talk to us about your
perspective and needs around
Cloud and Mobility!**



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LARSEN & TOUBRO

It's all about Imaginering

