#### Morgan Stanley

#### Internet Trends

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#### **Internet Trends Outline**

- Stock Market Update
- State of the Internet...
   Mobile Will Be Bigger Than Desktop Internet in 5 Years
- Mobile Internet Deep Dive

#### Stock Market Update

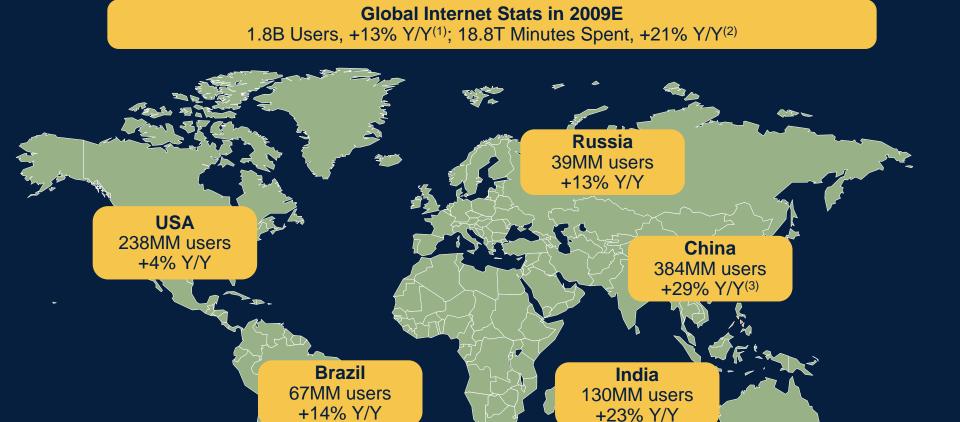
#### Stock Market = Often a Leading Indicator of Economic Growth

Russia +225% vs. 36-Month Low / India +120% / China +85% / USA (S&P500) +76%

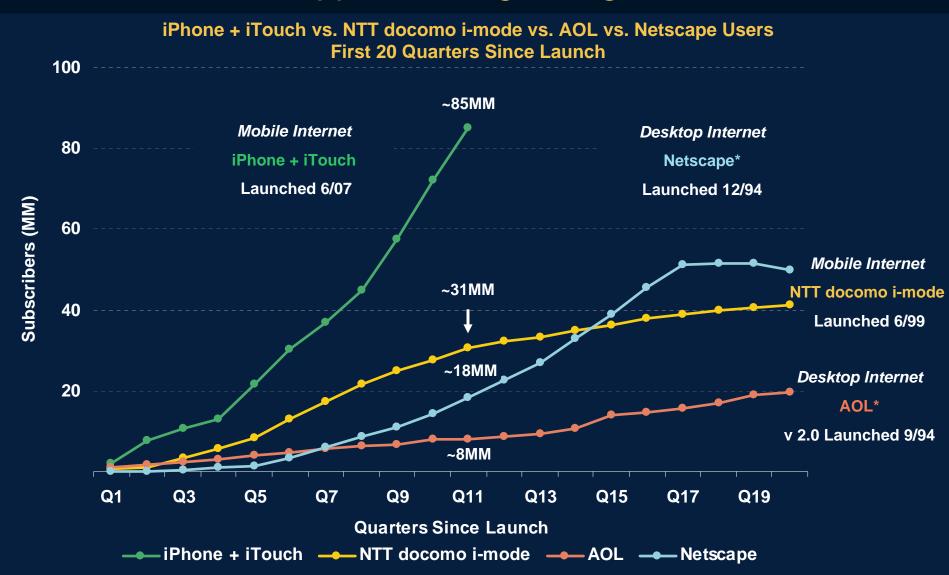


# State of the Internet...Mobile Will Be Bigger Than Desktop Internet in 5 Years

### State of the Internet – Usage Growth Remains Robust – 5 Countries = 48% of Users

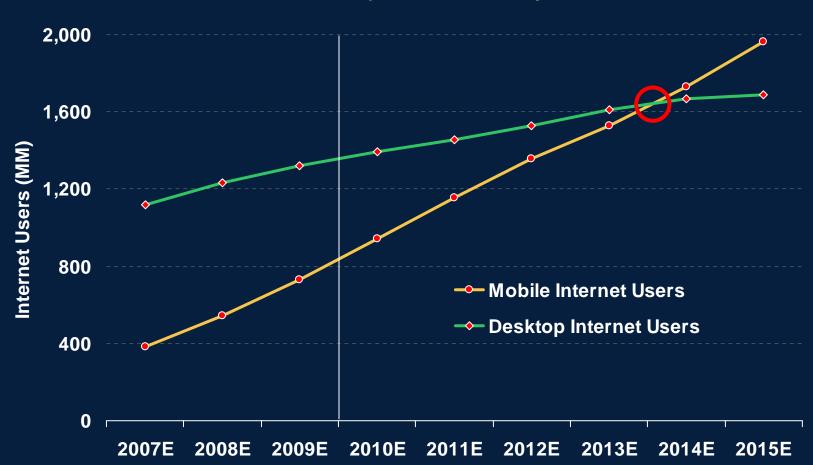


# Mobile Internet Ramping Faster than Desktop Internet Did – Apple Leading Charge

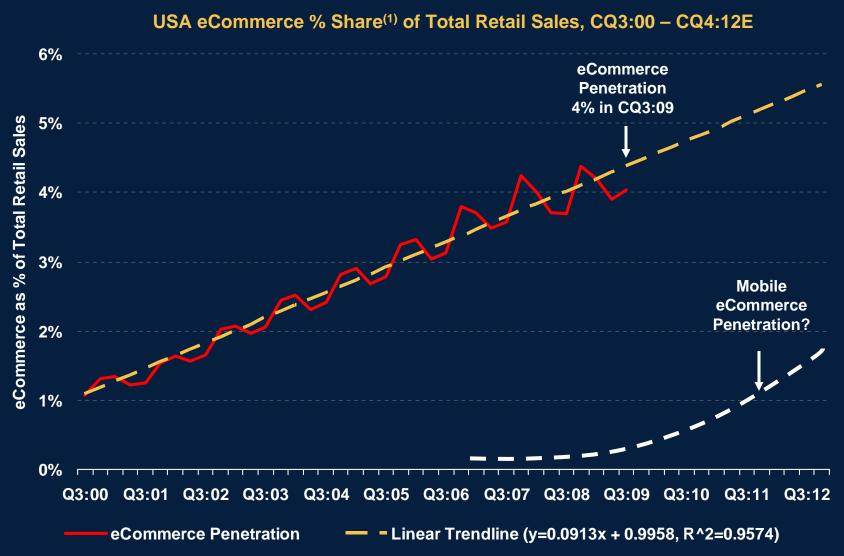


# Mobile Users > Desktop Internet Users Within 5 Years

Global Mobile vs. Desktop Internet User Projection, 2007 – 2015E



### Online Commerce Gaining Share vs. Offline — Online at 4% of USA Retail, Mobile Should Get to Same Level Much Faster

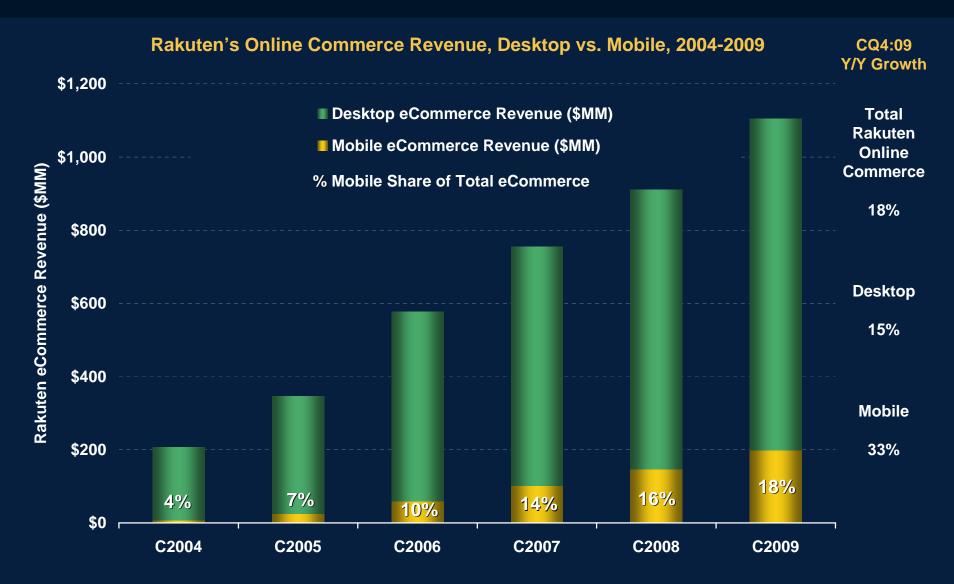


# *E-Commerce* - USA Online Penetration = 4-6% and Rising

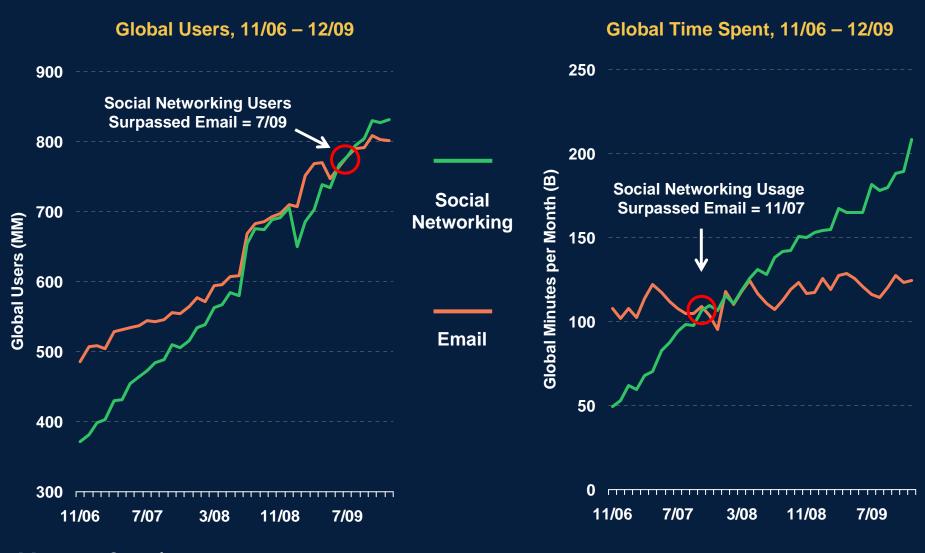
#### Categories' Online Penetration of US Retail Market, 2007

>20%		10 - 20%		<10%	
Computer products	45%	Toys / video games	19%	Home furnishings	9%
Other event tickets	27%	Baby products	19%	Cosmetics / fragrances	9%
Books	24%	Consumer electronics	18%	Sporting goods / apparel	8%
Music / video	24%	Office supplies	13%	OTC meds / personal care	6%
Gift cards / certificates	21%	Flowers / cards	12%	Appliances / tools	5%
		Jewelry	11%	Pet supplies	4%
		Apparel / footwear	10%	Auto / auto parts	2%
		Movie tickets	10%	Food / beverage / grocery	1%

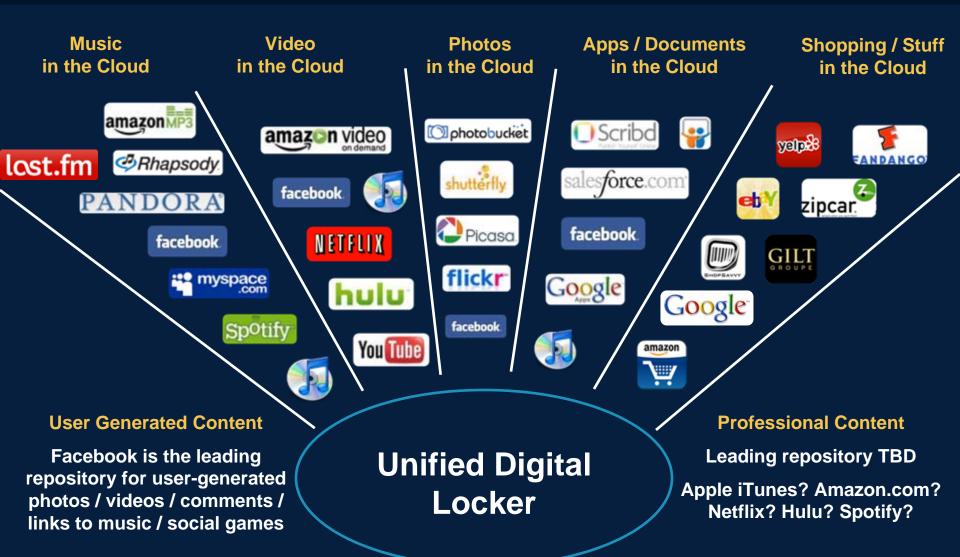
### Mobile Commerce Outlook = Japan Shows Way — 19% (and Rising) of Rakuten's CQ4:09 Online Commerce Revenue Derived from Mobile



# Communications – Social Networking > Email Usage...



### Connectivity = Cloud Computing Consumers Expect to Get Their Stuff 24x7 from Palms of Their Hands



#### Mobile Internet Deep Dive

#### Mobile Internet - Overview

- 1. Wealth Creation / Destruction is Material in New Computing Cycles Now in Early Innings of Mobile Internet Cycle, the 5th Cycle of Last Half Century.
- 2. Mobile Ramping Faster than Desktop Internet Did and Will Be Bigger Than Most Think 5 Trends Converging (3G + Social Networking + Video + VoIP + Impressive Mobile Devices).
- 3. Apple Leading in Mobile Innovation + Impact, for Now Depth of App Ecosystems + User Experience + Pricing Will Determine Long-Term Winners.
- 4. Game-Changing Communications / Commerce Platforms (Social Networking + Mobile) Emerging Very Rapidly.
- 5. Massive Data Growth Driving Carrier / Equipment Transitions.
- 6. Growth / Monetization Roadmaps Provided by Japan Mobile + Desktop Internet.

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Wealth Creation / Destruction is Material in New Computing Cycles – Now in Early Innings of Mobile Internet Cycle, the 5th Cycle of Last Half Century

### Tech Cycles Tend to Last Ten Years Entered Next Major Computing Cycle – Mobile Internet – 2 Years Ago

Mainframe Computing 1960s

*Mini*Computing
1970s

Personal
Computing
1980s

Desktop Internet
Computing
1990s

Mobile Internet
Computing
2000s







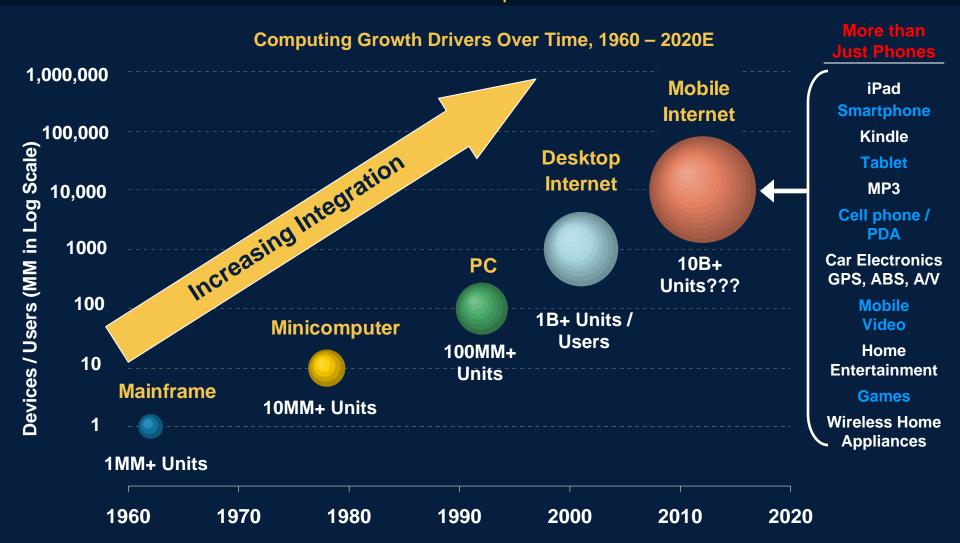




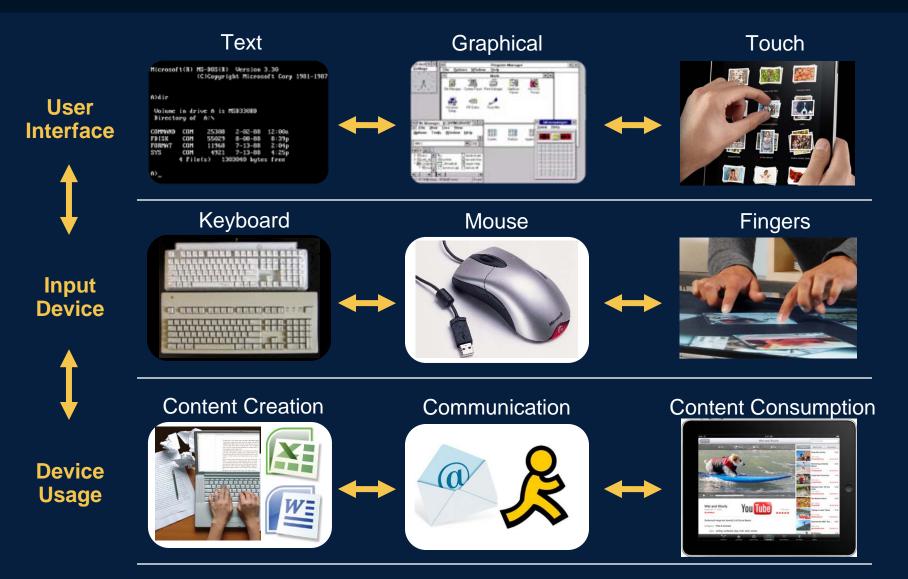


#### New Computing Cycle Characteristics

Reduce Usage Friction Via Better Processing Power + Improved User Interface + Smaller Form Factor + Lower Prices + Expanded Services = 10x More Devices



# User Interface + Device Usage Evolution Over Past 30 Years

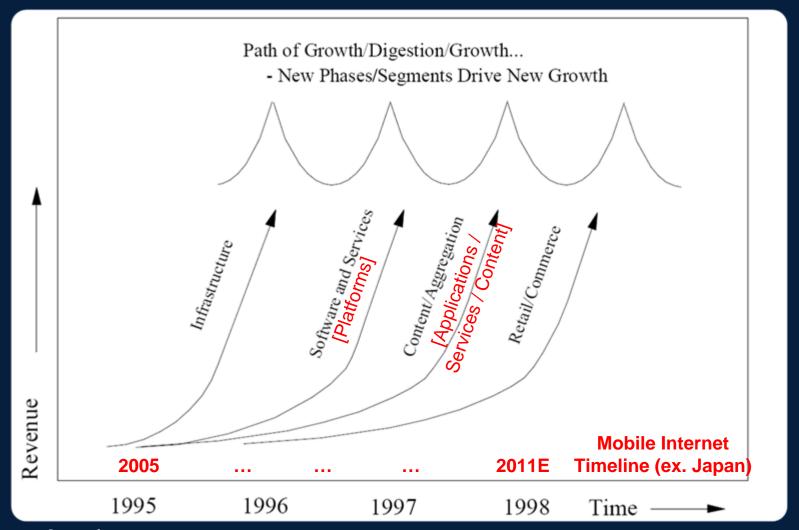


### Technology Wealth Creation / Destruction Cycles New Companies Often Win Big in New Cycles While Incumbents Often Falter

Mainframe Mini Personal Desktop Internet Mobile Internet Computing Computing Computing Computing Computing 1980s 1990s 1960s 1970s 2000s New New New New Winners Winners Winners Winners Google **IBM Digital Equipment Microsoft NCR** AOL **Data General** Cisco eBav **Control Data** HP Intel Yahoo! **Prime Apple** Sperry Honeywell Computervision **Oracle** Yahoo! Japan **Burroughs** Wang Labs **EMC** Amazon.com Dell Tencent Alibaba Compaq Baidu Rakuten

### Mobile Internet Likely to Follow Timing & Development Patterns of Desktop Internet Market

Timing & Development of Internet Market Segment – From Our 1996 Internet Retailing Report

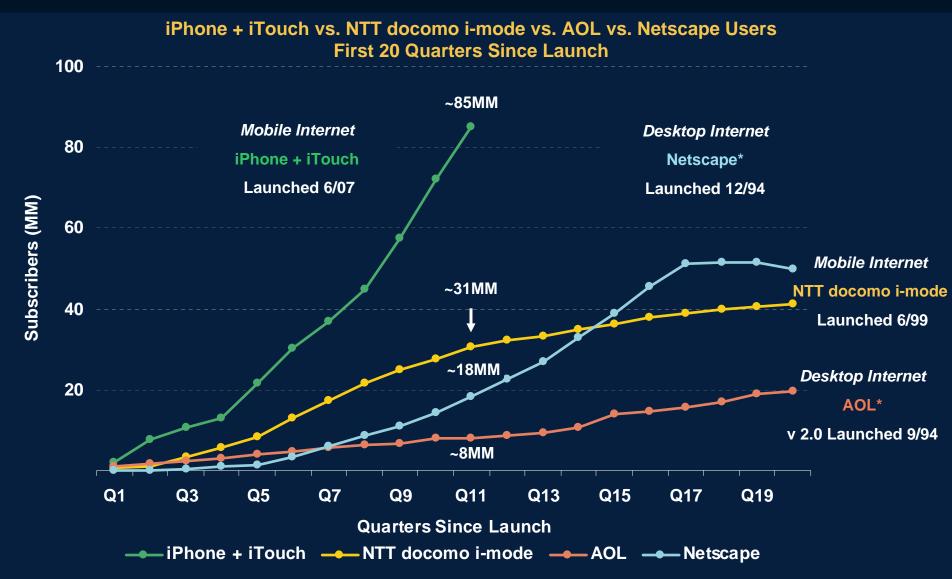


Mobile Ramping Faster than Desktop Internet Did and Will Be Bigger Than Most Think – 5 Trends Converging (3G + Social Networking + Video + VoIP + Impressive Mobile Devices)

Regarding pace of change, we believe more users will likely connect to the Internet via mobile devices than desktop PCs within 5 years

#### Mobile Internet Outpaces Desktop Internet Adoption

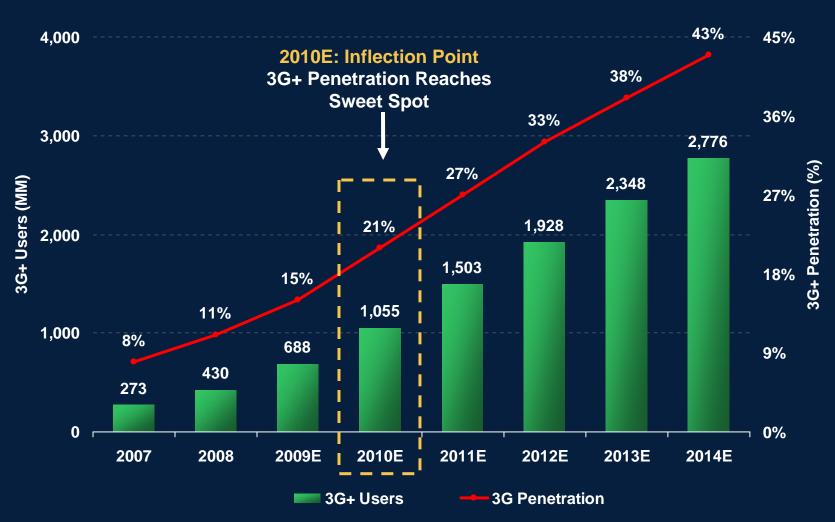
iPhone + iTouch Users = 11x AOL Users 11 Quarters After Launch



3G Adoption = Hitting Inflection Points

### Global 3G Subscribers = 2010E 'Mainstream' Inflection Point, Penetration >20%





### 3G Penetration Inflection Points Vary by Region W. Europe + N. America = 2007–2008, ROW = 2010E-2014E

#### **3G\* Connections & Penetration by Region, 2007 – 2014E**

(All connection numbers in 000s)	2007	2008	2009E	2010E	2011E	2012E	2013E	2014E
Western Europe	79,617	126,724	205,962	299,220	381,422	448,691	499,686	549,615
3G Penetration	17%	25%	39%	54%	67%	77%	85%	92%
Japan	72,690	88,434	101,320	110,823	116,581	120,463	123,217	124,770
3G Penetration	72%	84%	91%	96%	98%	99%	99%	100%
Asia / Pacific (ex. Japan)	50,163	83,514	151,192	295,230	482,981	693,995	918,063	1,135,626
3G Penetration	4%	5%	7%	13%	19%	25%	31%	37%
North America	53,307	83,460	116,575	145,683	177,451	204,835	231,271	260,575
3G Penetration	20%	29%	38%	46%	54%	61%	67%	74%
Eastern Europe	8,785	19,918	40,944	72,321	120,291	139,960	166,288	199,977
3G Penetration	2%	5%	9%	16%	26%	29%	34%	40%
Middle East & Africa	5,781	18,424	50,409	91,085	165,564	239,805	309,251	383,238
3G Penetration	1%	3%	7%	12%	19%	25%	30%	35%
South & Central America	3,126	9,265	21,875	40,448	59,107	80,087	100,027	122,258
3G Penetration	1%	2%	4%	7%	10%	12%	15%	17%
Total	273,469	429,739	688,278	1,054,810	1,503,397	1,927,837	2,347,804	2,776,058
3G Penetration	8%	11%	15%	21%	27%	33%	38%	43%

### 3G Growth Concentrated in Developed Markets – USA Now Leading in Users + Innovation (Surpassed Japan Users in CQ1:09)

		CQ3:09 3G		CQ3 3G	3G Sub (		3G Net		% of Global	2G + 3G	Implied 2G Net
Rank	Country	Subs (000)	Penetration	Net Adds	Y/Y	Q/Q	Y/Y Growth %	of 3G Subs	3G Net Adds	Net Adds (000)	Adds (Losses) (000)
1	USA	112,090	41%	8,994	50%	9%	11%	8%	22%	3,058	-5,937
2	Japan	97,548	90	2,735	15	3	-17	3	7	1,002	-1,733
3	Korea	35,570	75	1,721	22	5	0	5	4	839	-882
4	Italy	27,817	34	1,044	19	4	-14	4	3	-1,660	-2,705
5	UK	23,674	31	1,964	47	9	8	8	5	269	-1,695
6	Germany	22,260	22	1,851	40	9	18	8	5	147	-1,704
7	Spain	22,014	41	1,822	40	9	-6	8	5	411	-1,411
8	France	15,669	27	1,332	66	9	8	9	3	831	-501
9	Australia	13,678	56	989	37	8	3	7	2	700	-289
10	Indonesia	13,644	10	1,401	61	11	4	10	3	1,639	238
11	Poland	12,300	28	176	66	1	-86	1	0	414	238
12	Taiwan	8,318	33	1,600	92	24	84	19	4	483	-1,117
13	Malaysia	7,222	25	942	131	15	50	13	2	786	-155
14	Brazil	7,084	4	1,354	287	24	60	19	3	5,495	4,141
15	Russia	6,183	3	959	203	18	-9	16	2	6,942	5,984
16	South Africa	5,769	11	355	86	7	-13	6	1	1,181	826
17	Portugal	5,259	35	285	27	6	-18	5	1	155	-130
18	Saudi Arabia	4,991	15	493	46	11	42	10	1	2,698	2,204
19	Canada	4,757	22	447	62	10	-6	9	1	310	-138
20	Sweden	4,683	40	271	30	6	-23	6	1	66	-205
21	Netherlands	4,612	24	479	42	12	84	10	1	278	-201
22	Austria	4,340	40	390	49	10	17	9	1	123	-267
23	Israel	4,279	46	650	61	18	182	15	2	110	-540
24	Romania	4,207	15	292	63	7	33	7		456	164
25	Greece	3,245	17	90	101	3	-66	3	0	471	381
26	Egypt	3,229	7	325	86	11	6	10	1	3,809	3,484
27	Hong Kong	2,909	30	132	19	5	-27	5	0	159	26
28	Singapore	2,896	44	157	24	6	-21	5	Ö	106	-50
29	Philippines	2,870	4	246	46	9	-23	9	1	1,365	1,118
30	China	2,850	0	1,460		105		51	4	25,187	23,727
	Top 30	485,967	20%	34,958	41%	8%	9%	7%	86%	57,827	22,869
	Global	528,301	12	40,426	43	8	14	8	100	163,785	123,360

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### 3G is Key to Success of Mobile Internet But Wireless Options – Across-the-Board – are Growing Rapidly







• **3G** – 485MM global users, +46% Y/Y in CQ2, >11% mobile user penetration, rising to 44% by 2013E...Japan / W. Europe / USA already >30% penetration.



Wi-Fi – 319MM chipsets sold in 2008E, +42%Y/Y with 862MM installed base; estimate 60% of iPhone / iTouch usage may be on Wi-Fi, providing a crucial (and ~10x faster) offload to stressed 3G networks.

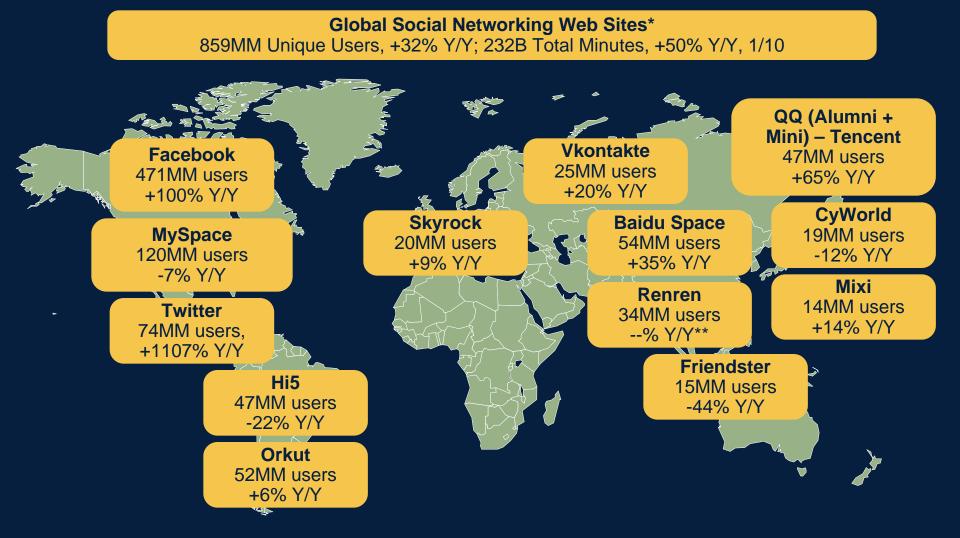


Bluetooth – 1.3B Bluetooth-enabled units shipped in 2008, +45%
 Y/Y; 2B+ Bluetooth devices in use.

Social Networking =
Consumers Want to Connect via
Wired + Wireless Internet

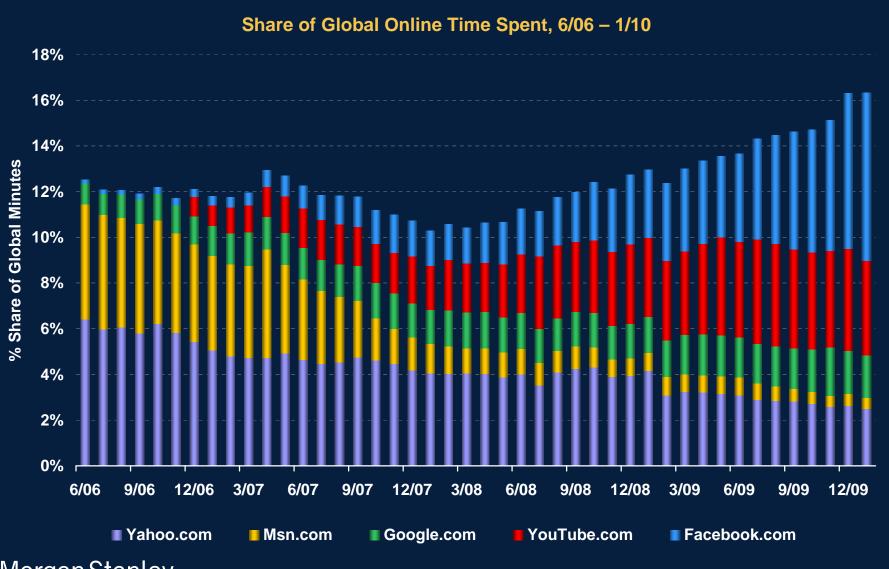
#### Social Networking -

Global Phenomenon, Facebook Leading, Though Many Regional Strongholds

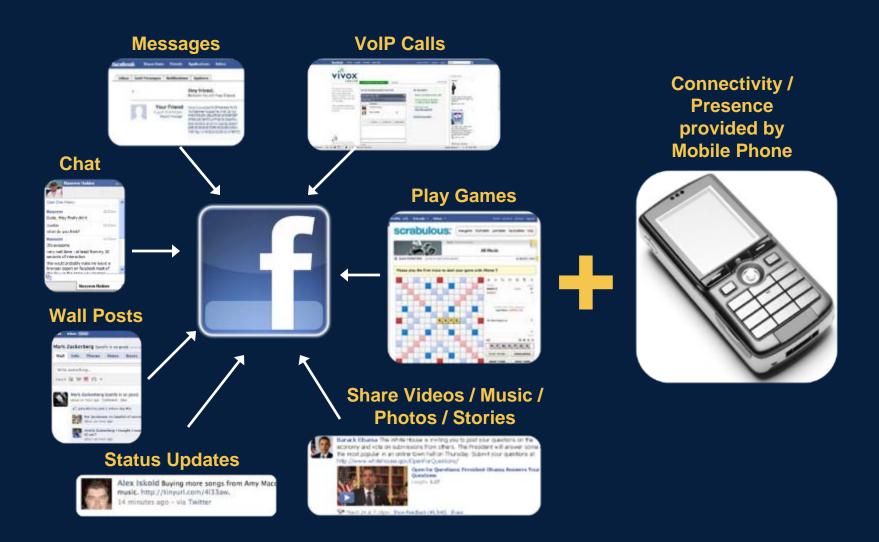


Note: \*Global social networking websites exclude application-based networks such as IM networks. \*\*Renren Y/Y data not available. Usage stats are 'unique visitors', per comScore global 12/09, may differ materially from company-disclosed 'registered accounts' stats. Other notable social networks include Windows Live Profiles, 56.com, Deviantart, Digg, Buzz Media, and Bebo. Source: comScore 1/10, Morgan Stanley Research.

### Facebook (+ YouTube) = Largest Share Gainers of Global Online Usage Over Past 3+ Years



### Facebook = Garnering Rising Share of Communications Unified Communications + Multimedia Creation Tool / Repository in Your Pocket



# Companies / Brands Leveraging Facebook – Social Influence Marketing With Millions of Fans

Rank	Top 20 Brands / Products	# of Facebook Fans				
1	Texas Hold'em Poker (Zynga)	16.5MM				
2	Mafia Wars (Zynga)	11.4MM				
3	Facebook	8.0MM				
4	Starbucks	6.5MM				
5	Coca-Cola	5.1MM				
6	YouTube (Google)	4.7MM				
7	Oreo (Kraft)	4.4MM				
8	Skittles (Mars)	4.2MM				
9	iTunes (Apple)	3.9MM				
10	Nutella (Ferrero)	3.8MM				
11	Disney	3.4MM				
12	Victoria's Secret (Limited Brands)	3.2MM				
13	Pringles (P&G)	3.1MM				
14	Kinder Surprise (Ferrero)	2.7MM				
15	Adidas Originals (Adidas)	2.7MM				
16	Live Messenger (Microsoft)	2.6MM				
17	Ferrero Rocher (Ferrero)	2.6MM				
18	Red Bull	2.5MM				
19	Playfish	2.1MM				
20	NBA	2.1MM				

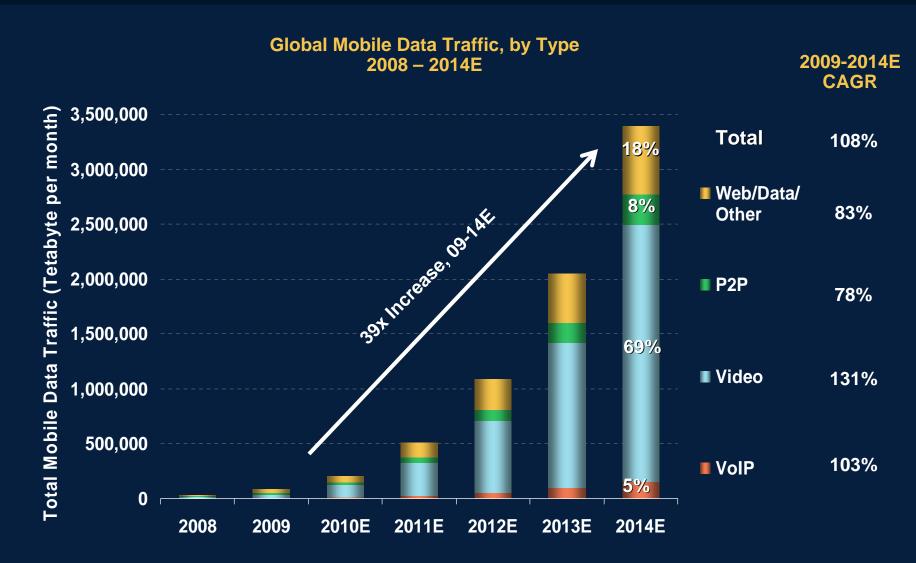
# Salesforce.com = Introducing Cloud + Social Networking to Enterprises

- Founded in 1999 with the goal of "making enterprise software as easy to use as a websites like Amazon.com"; updated goal in 2010 to make enterprise software as easy as Facebook.com.
- Product portfolio includes Sales Cloud (centralized client database & analytics); Service Cloud (custom service application suite); Custom Cloud (platform for customized 3<sup>rd</sup>-party applications); Chatter (social platform for enterprise collaboration);
- 2MM paying subscribers in 1/10, +35% Y/Y; \$1.3B revenue in FY2009, +21% Y/Y.
- 230K 3<sup>rd</sup>-party developers, +85% Y/Y; 145K custom applications, +45% Y/Y; 17B transactions in FQ4:09, +40% Y/Y.



Video =
Consumers Want to Find + Select + Watch
Video via Wired + Wireless Internet

#### Video Driving Rapid Growth in Mobile Internet Traffic Mobile Data Traffic to Rise 39x by 2014E (108% CAGR)



VoIP =
Consumers Want to Chat
(via Voice + Messaging + Video)
via Wired + Wireless Internet

#### If VoIP Leader Skype Were a Carrier, it Would be Largest 'Carrier' in World 521MM Users (+41% Y/Y) & 12% of Cross-Border Calling Minutes (34% Video-Enabled)

Rank	*Company	Туре	Region	Subscribers (MM)	Y/Y Growth	Blended ARPU (US\$)	Y/Y Growth	Market Cap (\$B)	
1	China Mobile	Wireless	China	493	19%	\$11	-10%	<b>\$192</b>	
2	Vodafone	Wireless	Europe	303	23	37	3	123	
3	Telefonica Moviles / O2	Wireless	Europe / LatAm	206	9	41	-9	137	
4	China Telecom	Wireline	China	194	-9	11	4	38	
5	America Movil	Wireless	LatAm	194	13	13	4	80	
6	Telenor	Wireless	Europe / Asia	172	8	20	-3	24	1
7	T-Mobile	Wireless	Europe / USA	150	6	37	-3	64	
8	China Unicom	Wireless	China	145	10	6	-4	32	
9	Orange	Wireless	Europe	129	9	50	0	69	
10	Bharti Airtel	Wireless	India	111	43	5	-22	25	
11	China Unicom <sup>(1)</sup>	Wireline	China	108	10	9	-18	32	
12	MTN Group	Wireless	Africa	108	34	15	-2	28	
13	Mobile TeleSystems	Wireless	Europe	101	2	8	-28	20	
14	Orascom	Wireless	Africa / Asia	89	12	6	-11	24	
15	Verizon Wireless	Wireless	USA	86	6	51	-2	86	
16	AT&T Mobility	Wireless	USA	82	9	51	1	155	
17	Telkom Indonesia	Wireless	Asia	80	32	3	-13	19	
18	Telecom Italia Mobile	Wireless	Europe / LatAm	72	2	37	2	30	
19	VimpelCom	Wireless	Russia	61	20	13	7	6	
20	NTT docomo	Wireless	Japan	55	2	61	-8	64	
21	AT&T (2)	Wireline	USA	54	-3	80	-1	155	
22	Deutsche Telekom	Wireline	Europe	54	-2	62	0	64	
23	BSNL (3)	Wireless	India	52	44	3	-35		
24	Turkcell	Wireless	Europe	49	-4	13	-24	15	
25	China Telecom	Wireless	China	47		8		38	
	Total			3,195	10%	\$23	2%	\$1,520	

<sup>\*</sup> Ranking is based on subscribers. Subscribers / ARPU data as of latest quarter (CQ3:09 or CH1:09 for some carriers who report on semi-annual basis). Market Cap as of 11/17/09. Total market value excluding duplicates = \$1,231MM; (1) China Netcom merged with China Unicom in 10/08; (2) AT&T / Verizon / DT's wireline ARPU is revenue per RGU (revenue generating unit) and include business lines: (3) BSNL is owned by the Indian government. (5) Subscriber figure for Skype is registered user amount as of CQ3:09, cross-38 border calling minutes as of C2009, per Telegeography. Source: Company Reports, Telegeography, Morgan Stanley Research.

Skype (5)

**521MM** Registered **Users** 

(+41% Y/Y)

### Google Voice Putting User in Control of Voice Communications via IP Networks

- Google Voice Launched in 3/09, gives user a universal address book + single telephone number, to which all calls to user's home / office / cellphone can be forwarded
- Voicemail transcription + SMS + future integration with Gmail + \$0.02 per minute International VoIP call(1)
- Google Voice mobile app launched for Android / BlackBerry in 7/09, offers full native contact / dialer / SMS integration

#### Universal Address Book / Transcribed Voicemail / SMS on the Web Android Dialer / Address Book



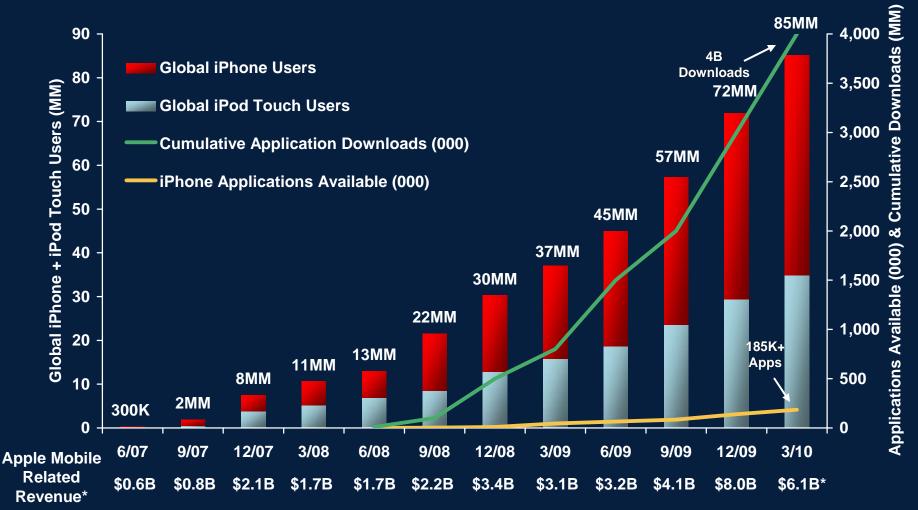
### Fully Integrated w/



Impressive Mobile Devices =
Apple's iPhone + iTouch + App Store Launches Over
Past ~3 Years Created the Spark for Mobile Internet
Liftoff as Microsoft's Launch of Windows 3.0 did for
the PC in 1990 and the Netscape Browser (and its
IPO) did for the Desktop Internet in 1995

### Apple iPhone / iTouch = Fastest New Tech Device / Ecosystem Ramp in History Great UI + Developer Tools + Hardware + Distribution + Powerful Connectivity (Wi-Fi + 3G)



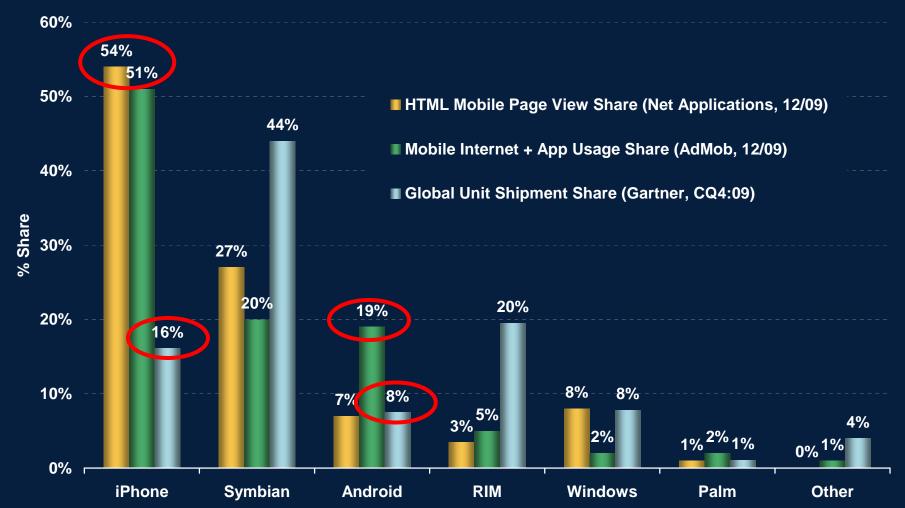


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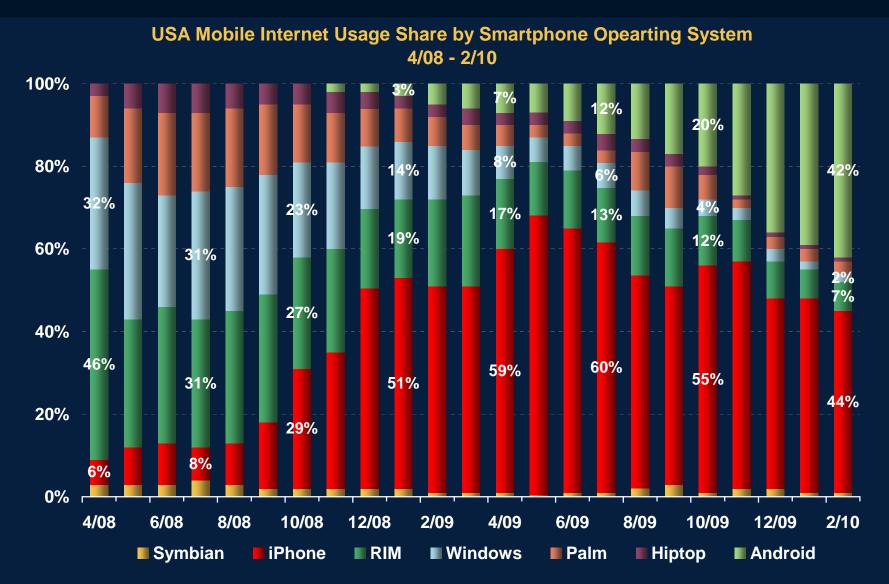
Apple Leading in Mobile Innovation + Impact, for Now – Depth of App Ecosystems + User Experience + Pricing Will Likely Determine Long-Term Winners

### iPhone + Android Mobile Internet Usage Much Higher than Shipment Share = Implies High Probability of On-Going Share Gains Based on Consumer Voting

#### Global Smartphone Share of HTML Mobile Page View / Mobile Internet + App Usage / Unit Shipments



### iPhone + Android Gaining USA Mobile Internet Usage Share – While RIM + Windows Mobile + Palm Losing Share

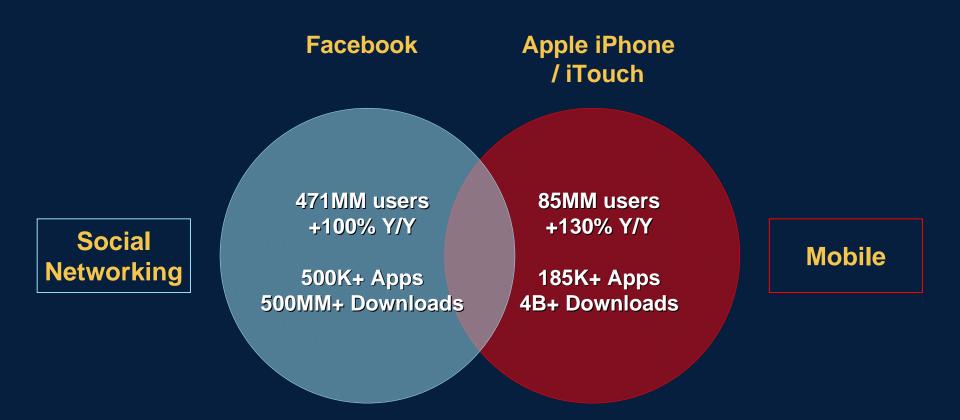


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Game-Changing Communications / Commerce Platforms (Social Networking + Mobile) Emerging Very Rapidly

### Facebook + Apple iPhone / iTouch =

Driving Independent / Overlapping Innovation / Usage in Social Networking + Mobile Platforms



### Facebook = 500MM+ App Downloads

Vibrant Developer / Application Platform Ecosystem = 500K Apps\*, +10x Y/Y

Category	# of Applications	% of Total	Top 100 Apps' Monthly Active Users (MM)	# of Apps w/ 1MM+ MAUs
Games	13,537	23%	418	56
Lifestyle	4,778	8	42	8
Utilities	4,604	8	59	8
Education	2,279	4	66	5
Entertainment	2,015	3	76	11
Business	1,981	3	5	1
Sports	1,431	2	5	0
Just For Fun	400	1	44	10
Friends & Family	61	0	37	3
Overall*	59,427		752	102

Note: Category breakdown per Facebook, one application can belong to multiple categories or belong to no category; Overall\* statistics per AppData, which reports a lower active apps count than Facebook's reported 500,000+ apps "built to date".

Source: Facebook, AppData as of 1/10, Morgan Stanley Research.

## Apple iPhone / iTouch = 4B+ App Downloads (+4x) – (~47 per User) – Games + Entertainment + Books Lead

Category	# of Apps	% of Total	# of Paid Apps	Paid as % of Category Total	
Games	26,434	18%	17,935	68%	
Entertainment	21,181	14	15,481	73	
Books	20,931	14	19,159	92	
Travel	9,300	6	8,118	87	
Utilities	8,964	6	6,296	70	
Education	9,437	6	7,766	82	
Lifestyle	8,593	6	6,055	70	
Reference	5,692	4	4,681	82	
Music	4,933	3	2,705	55	
Sports	5,486	4	4,332	79	
Navigation	3,395	2	2,712	80	
Productivity	3,478	2	2,513	72	
Business	3,278	2	1,662	51	
News	3,629	2	2,354	65	
Health & Fitness	3,020	2	2,347	78	
Social Networking	2,542	2	1,285	51	
Photography	2,417	2	1,698	70	
Finance	2,008	1	1,261	63	
Medical	1,799	1	1,366	76	
Weather	622	0	490	79	
Total	147,139		110,216	75%	

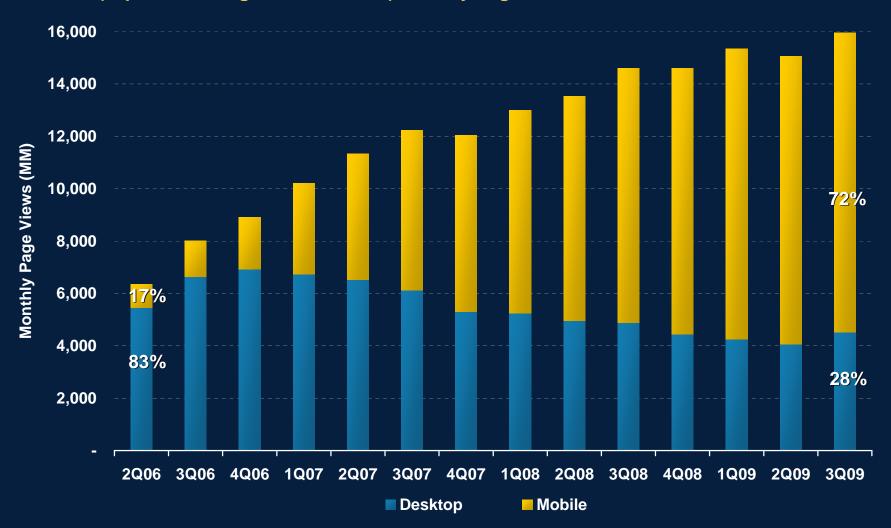
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## Apple iPhone / iTouch — Facebook is Most Downloaded of Top *Free* Apps

	Name	Category	Description
f	Facebook	Social Networking	Mobile front-end of the online site, allows users to chat / send messages / share photos + interests
	Google Earth	Travel	Users can view aerial maps of any available city / area, using touch screen to zoom in /out
PANDORA	Pandora Radio	Music	Creates customized interent radio stations that stream music based on songs / artists users like
Tap Tap Room	Tap Tap Revenge	Games	Rhythmic music game in which user taps and shakes screen to create certain beats of a song- includes online play
9	Shazam	Music	Application identifies artist / song title / album for songs playing on other audio devices
Lihri 3	PAC-MAN Lite	Games	3D remake of the classic game utilizes touch screen controls
	Backgrounds	Entertainment	Large selection of iPhone backgrounds that can be uploaded into your phone background library
	Touch Hockey: FS5	Games	Interactive air hockey game that allows users to play solo or online against friends
9	Labyrinth Lite Edition	Games	Users employ sensitive tilt controls to move ball to the end of the puzzle in this remake of the classic wooden puzzle game
AL WE	Flashlight.	Utilities	Fills screen with bright white light to use as flash light

### Japan Social Networking Trends Show Importance of Mobile – Mixi Mobile Page Views = 72% vs. 17% 3 Years Ago

Mixi's (Japan's Leading Social Network) Monthly Page Views, Mobile vs. PC, CQ2:06 – CQ3:09



## Amazon.com Revolutionizing Commerce – With Constant Product Improvements

Search

Amazon.com in 1995

Amazon.com in 2009

Same Day

1-Click



**Purchase** Suggestion Shipping... Shipping Amazon.com; Online Shopping for Electronics, Apparel, Computers, Books, DVDs & more - Microsoft Internet Explorer provided by M > e http://www.amazon.com/ref=gno\_logo 4 \* Apple press release: AppData.com - Happy Agu... @ Amazon.com: Online Sh... X <u>∰</u> • ₪ · WIShlis amazon.com Hello, Colter Vandomelen, We have recommendations for you. (Not Colter?) Colter's Amazon.com | 😝 Today's Deals | Gifts & Wish Lists | Gift Cards Search All Departments Books Movies, Music & Games New Kindle Digital Downloads Kindle **New Lower Price** Computers & Office Electronics Our newest Kindle with U.S. and International Home & Garden Wireless. At home or abroad in 100 countries you Express Checkout across the web with Grocery, Health & Beauty can think of a book and be reading it in less than Amazon PayPhrase 60 seconds. New lower price of \$259. ► Choose a PayPhrase amazonkindle Hear your music like Check This Out Related to Items You've Viewed Backyard Theater Week 5 of the 10th Anniversary Wish List Sweepstakes. never before. You looked at You might also consider Winterize Your Vehicle Now Learn more \*\* Stay safe and warm on the road. Windows 7 QuietComfort® 15 Simplify your PC with Microsoft's new OS. Warehouse Deals Guitar Hero 5 Stand Alone Guitar Hero World Tour Wii The Beatles: Rock Save on open-box items from Amazon Software for Nintendo Wii Band Kit for... for Nintendo Band - Software... for Bruno Magli Men's Malazu. Refurbished Founded by the Magli family in

Mobile Barcode Scan

Customer Review Recommendation Engine 3<sup>rd</sup>-Party Selling

...Or Free

### Mobile Revolutionizing Commerce – With Constant Product Improvements

- Location-Based Services Enable real-time physical retail / service opportunities
- *Transparent Pricing* Instant local + online price comparison could disrupt retailers
- **Deep Discounts** Invitation-only time-based selective sales gaining traction
- Immediate Gratification OTA (over-the-air) instant digital product + content delivery

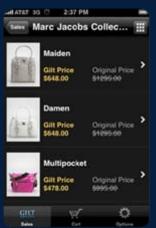
Location-Based Services
Priceline.com iPhone App
Finds hotel deals
in your area



Transparent Pricing
ShopSavvy Android App
Comparison shopping
among online + local stores



Deep Discounts
Gilt iPhone App
Designer handbags
Up to 70% Off



Immediate Gratification
iTunes Store on iPhone
Music / video / apps
delivered wirelessly



## Location-Based Services – Zipcar Combines Mobile Internet + GPS to Disrupt Car Rental Business

- Free app allows users to find Zipcars / reserve Zipcars / unlock Zipcar and drive away on iPhone (25% of Zipcar members are also iPhone users, per Zipcar survey).
- App engages GPS and Google Maps to display available Zipcars near current location / near any location you search, making results more relevant.
- Make reservations online while on-the-go (uses payment information from Zipcar.com member profile) / unlock car using iPhone + 3G / Wi-Fi.

### Find the Zipcar Closest to You



Sort Zipcars Based on Time Availability / Model



Review / Reserve the Zipcar You Want at the Right Price



Unlock the Zipcar
Using Your
iPhone



## Transparent Pricing - Likely to Disrupt Retail

- ShopSavvy app allows mobile users to scan product barcodes (using mobile digital camera) and retrieve best pricing information from web + local stores in <30 seconds.
- For web results, user can go to site or email link to friends...for local results (via GPS / cellular tower geo-locating), user can see store locations / get directions / call stores.
- Additional functions include price alerts (notifies user when price is cheaper / hit user's preset price target) / wish lists / search history.

Step 1: Tap Search



Step 2: Scan Barcode



Step 3: See Results



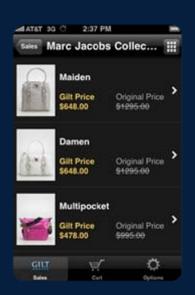
Step 4: Click to Buy

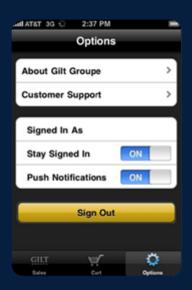


## Deep Discounts — Invitation-Only Time-Based Selective Sales Gaining Traction

- Gilt offers online 'flash' sales of designer apparel at deep discount prices for limited time frame.
- Launched in 2007, 1.2MM unique visitors in USA in 12/09, up 78% Y/Y, per Compete.
- Provides brands with more control over quantity / time-frame / pricing in online invite-only settings
   vs. offline discount chain stores.
- Incentives help drive viral growth \$25 credit when referral makes first purchase.
- Mobile application pushes the latest deal to the palm of consumers in real-time.







## Immediate Gratification – OTA (Over-the-Air) Instant Digital Product + Content Delivery

Print Books
Physical Distribution
circa 200AD



eBook on Phone / Kindle Wireless Delivery in 60 sec circa 2007



Over 3G / Wi-Fi circa 2008



**Nintendo GameBoy** 

**Physical Cartridge** 

circa 1989





Analog Cassette circa 1970s Physical Audio CD circa 1990s Digital Audio Streaming on Mobile Phones circa 2008







Analog VHS circa 1970s

Physical VCD / DVD circa 1990s

Digital Video Streaming on Mobile Phones circa 2008







## Mobile Coupons – Potential to Generate Retail Store Traffic / Sales

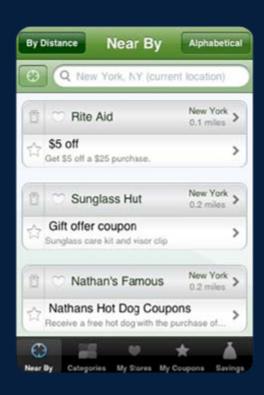
#### Coupon Sherpa -

Discounts Granted by Scanning Barcodes on Smartphones While at Store Checkout



#### mobiQpons -

Coupons Displayed on Smartphones Based on Proximity to Stores



#### Yowza!! -

Coupons Shared with Friends



## Branded Mobile Apps – Could Drive Incremental Store Traffic / Purchases

#### Chipotle iPhone App -

Locate, Order and Pay for Tacos / Burritos on Smartphone...and Skip the Line When You Pick Up



#### Starbucks Card on iPhone -

Management of Starbucks Credits +
Barcode Scanning for Easy
Checkout (Limited Availability\*)



# Mobile Push Notification – Enables Effortless Monitoring of Real-Time Transaction Process

### **eBay iPhone App** – Manage Transactions on Smartphones



#### eBay iPhone App -

'Auction Ending Soon' Reminder Pushed to Smartphones



### Lockerz – Social Rewards Program

- Free invitation-only social network / eCommerce / content discovery site where members earn reward points they can redeem for free products (including consumer electronics / apparel) and events...by logging in / watching 'promotional' videos / playing games / completing surveys / inviting friends.
- 8MM registered users as of 1/10 (still in beta); 150MM+ page views per month.
- Targets 14-25 year olds; launched in private beta in 3/09, expected to open to public in CH1:10E; backed by Liberty Media.

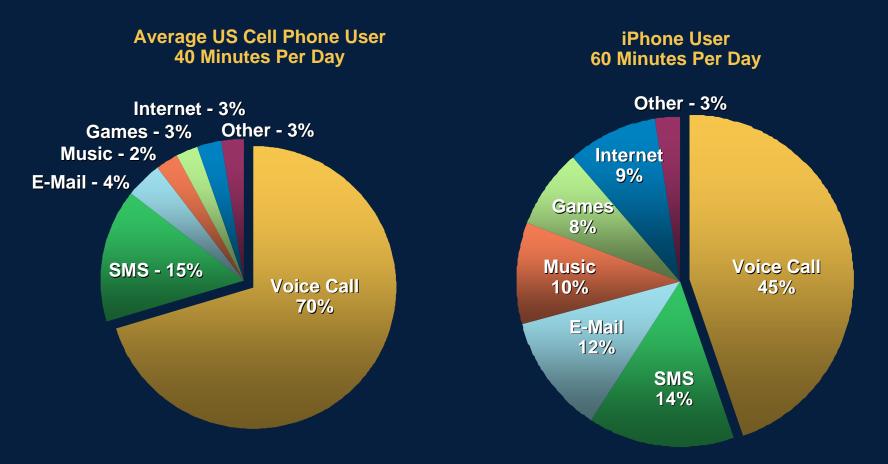


- 5 -

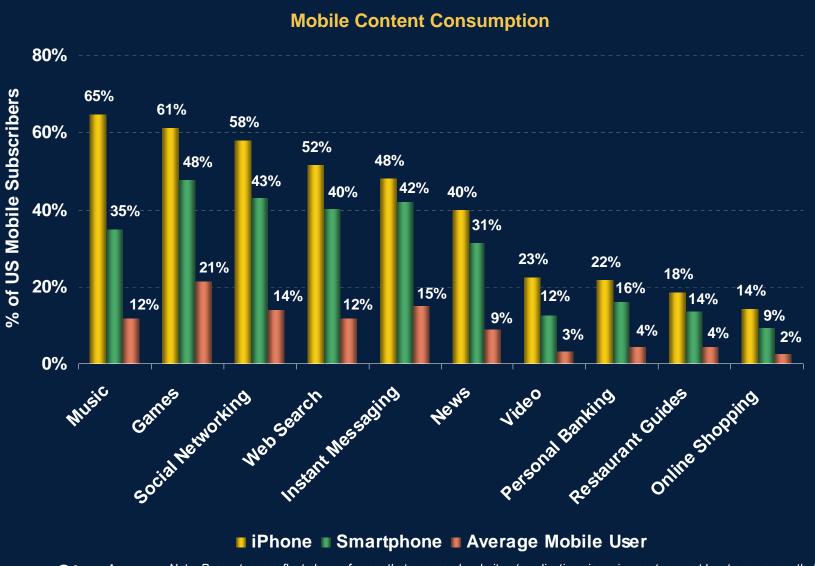
# Massive Data Growth Driving Carrier / Equipment Transitions

### Increasingly, Mobile Phone Usage is About Data, Not Voice = Average Cell Phone = 70% Voice...iPhone = 45% Voice

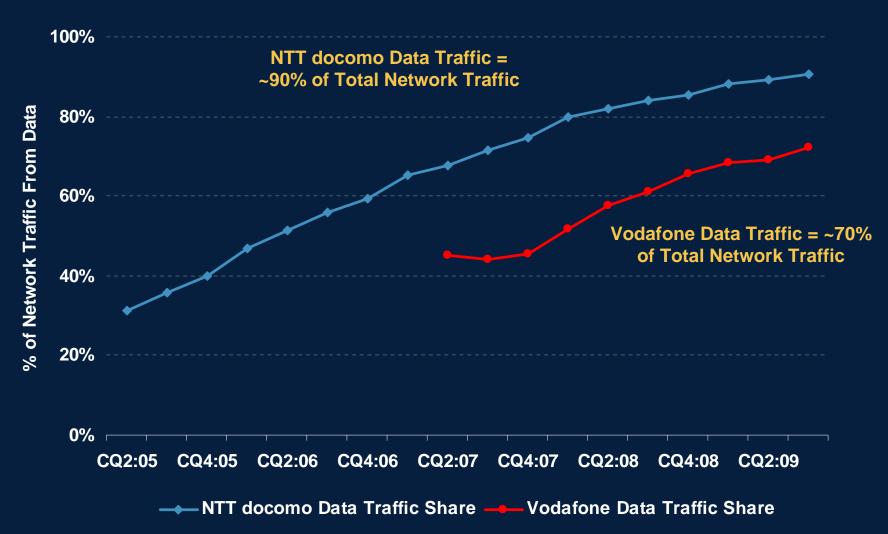
#### Daily Usage Breakdown, % of Time Spent on Each Activity



# iPhone Users Use Data / Internet Far More than Average Mobile Users



# Data = Increasingly Dominating Network Traffic Share for Wireless Carriers in Developed Markets

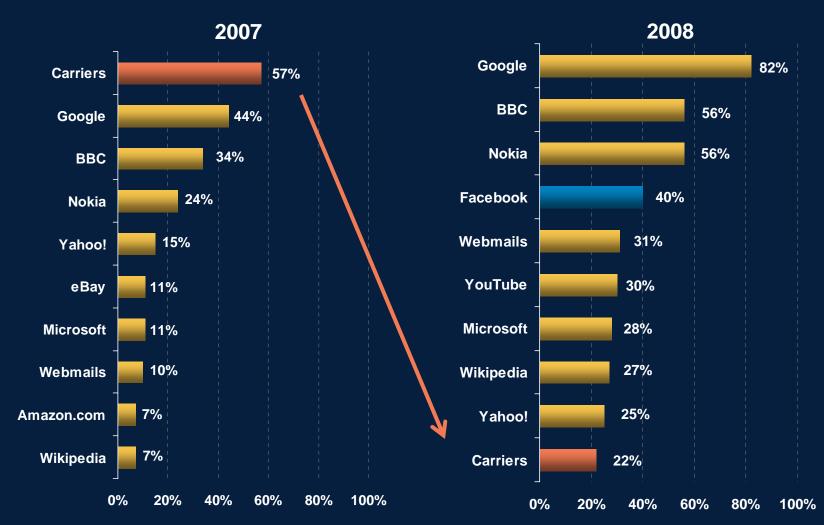


### Growth / Monetization Roadmaps Provided from Japan Mobile + Desktop Internet

When Consumers are Empowered by the Internet,
Usage Changes Can Occur Very Quickly

### Carrier 'Walled Gardens' Collapsed Extremely Rapidly – UK Mobile Users Are Fleeing from Carriers' Portal Sites

#### Mobile Web Sites' Share of UK Mobile Internet Users



Advertising Dollars Ultimately Follow Eyeballs

### \$46 in Annualized Ad Revenue per Internet User vs. \$28 in 2005 vs. \$0 in 1994

	1995E	2005E	2009E
Global Internet Ad Revenue	\$55MM	\$18B	\$54B
Ad Revenue per User	\$9	\$28	\$46
Global Internet Users	6MM	644MM	1.2B

### New Business Models are Often Created During Technology Changes

## China (Owing in Part to Tencent's Success) Shows 'Virtual Goods' Can be Big Business – \$2.2B in 2009E Revenue & \$24 Annual ARPU

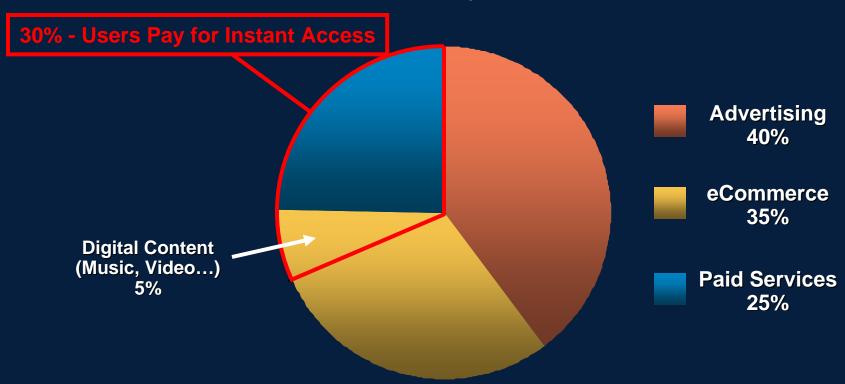
#### **Virtual Goods Sales in China, 2006E – 2013E**

2006E	2007E	2008E	2009E	2010E	2011E	2012E	2013E
\$547 	<b>\$889</b> 62%	<b>\$1,464</b> 65%	<b>\$2,207</b> 51%	<b>\$3,132</b> <i>42%</i>	<b>\$4,307</b> 38%	<b>\$5,763</b> 34%	<b>\$7,359</b> 28%
\$296 	<b>\$490</b> 66%	<b>\$841</b> 72%	<b>\$1,288</b> <i>53%</i>	\$1,858 44%	<b>\$2,564</b> 38%	<b>\$3,418</b> 33%	<b>\$4,439</b> 30%
18 	26 44%	37 43%	46 25%	55 20%	64 17%	74 15%	84 14%
\$1 	\$2 15%	\$2 20%	\$2 23%	\$3 20%	\$3 18%	\$4 16%	\$4 14%
\$252 	<b>\$399</b> 58%	<b>\$623</b> 56%	<b>\$918</b> <i>47%</i>	<b>\$1,274</b> 39%	<b>\$1,743</b> 37%	<b>\$2,346</b> 35%	<b>\$2,920</b> 25%
	\$547  \$296  18  \$1  \$252	\$547 \$889 62% \$296 \$490 66% 18 26 44% \$1 \$2 15% \$252 \$399	\$547 \$889 \$1,464 65%  \$296 \$490 \$841 72%  18 26 37 44% 43%  \$1 \$2 \$2 \$2	\$547       \$889       \$1,464       \$2,207          62%       51%         \$296       \$490       \$841       \$1,288          66%       72%       53%         18       26       37       46          44%       43%       25%         \$1       \$2       \$2       \$2          15%       20%       23%         \$252       \$399       \$623       \$918	\$547       \$889       \$1,464       \$2,207       \$3,132          62%       65%       51%       42%         \$296       \$490       \$841       \$1,288       \$1,858          66%       72%       53%       44%         18       26       37       46       55          44%       43%       25%       20%         \$1       \$2       \$2       \$2       \$3          15%       20%       23%       20%         \$252       \$399       \$623       \$918       \$1,274	\$547       \$889       \$1,464       \$2,207       \$3,132       \$4,307          62%       65%       51%       42%       38%         \$296       \$490       \$841       \$1,288       \$1,858       \$2,564          66%       72%       53%       44%       38%         18       26       37       46       55       64          44%       43%       25%       20%       17%         \$1       \$2       \$2       \$2       \$3       \$3          15%       20%       23%       20%       18%         \$252       \$399       \$623       \$918       \$1,274       \$1,743	\$547         \$889         \$1,464         \$2,207         \$3,132         \$4,307         \$5,763            62%         65%         51%         42%         38%         34%           \$296         \$490         \$841         \$1,288         \$1,858         \$2,564         \$3,418            66%         72%         53%         44%         38%         33%           18         26         37         46         55         64         74            44%         43%         25%         20%         17%         15%           \$1         \$2         \$2         \$2         \$3         \$3         \$4            15%         20%         23%         20%         18%         16%           \$252         \$399         \$623         \$918         \$1,274         \$1,743         \$2,346

In-Place Billing Systems (with likes of Carriers + iTunes)
Should Create Better Monetization Opportunities than
Experienced on Desktop Internet

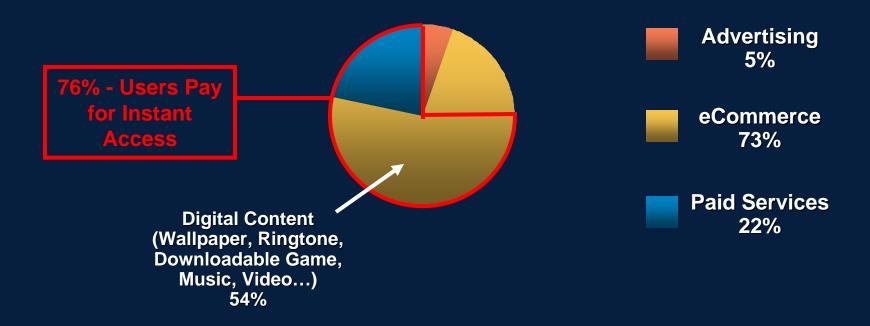
### Advertising + eCommerce (Vendor + Advertiser Paid) = Dominate Desktop Internet Revenue...

**Revenue Mix for Top 50 Global Internet** (ex. Data Access) Companies 2008E - \$91B



### ...While Premium Content Revenue (User Paid) = Dominate Mobile Internet Revenue

Revenue Mix (ex. Data Access) for Global Mobile Internet 2008E - \$37B



# Why Are Users Willing to Pay So Much More for Content on Mobile Devices than on Desktop PCs?

## Users Are Willing to Pay for Content On Mobile Internet Owing to...

- Easy-to-Use / Secure Payment Systems
  - 'Embedded' systems (like carrier billing
  - + iTunes) allow real-time payments;
- Small Price Tags Most content / subscriptions carry sub-\$5 price tags
- Walled Gardens Reduce Piracy –
   Content exists in proprietary
   environments, difficult to get pirated
   content onto mobile devices
- Established Store Fronts Carrier decks
  / iTunes store allow easy discovery /
  purchase
- Personalization More important on mobiles than desktops

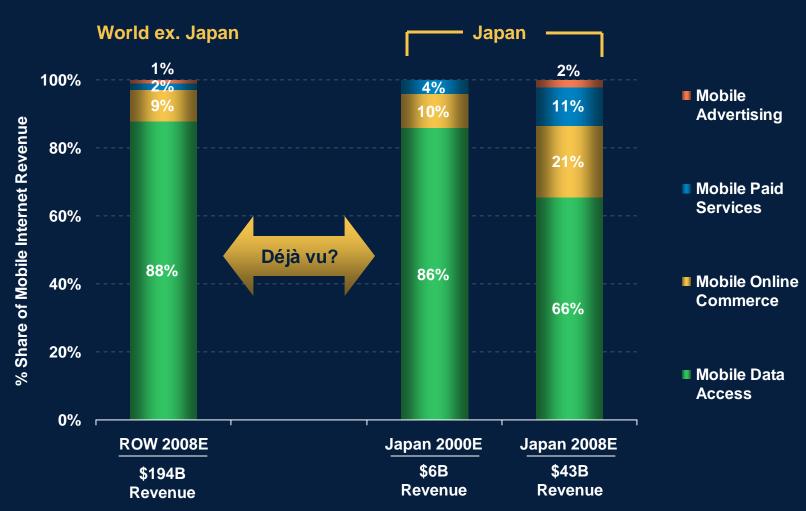
## Users are LESS Willing to Pay for Content On Desktop Internet Owing to...

- Difficult-to-Use / Fragmented Payment
   Mechanisms That Are More Susceptible
   to Security Issues Too many payment
   options for vendors / consumers +
   widespread fraud
- Often Expensive + Cumbersome to Purchase Legal Content – \$15+ per movie / DRM protection limits usage
- Open Internet + Piracy Most content in digital formats is available for free (newspaper / pictures) or for illegal download (music / video / applications)
- Lack of Centralized / Large-Scale
   Marketplace for Legal Content Discovery
   / Purchase Few players beyond iTunes
   + Amazon.com

Rapid Mobile Internet Growth in Japan Over Past Decade Sheds Light on How Internet Monetization May Develop in Rest of World (ROW)

# ROW's Mobile Internet Revenue Mix in 2008 = Japan's in 2000 - Data Access = 66% in Japan vs. 88% in ROW in 2008





Rapid Ramp of Mobile Internet Usage Will be a Boon to Consumers and Some Companies Will Likely Win Big (Potentially Very Big) While Many Will Wonder What Just Happened

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(as of March 31, 2010)

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	Coverage Universe		Investment Banking Clients (IBC)		
Stock Rating Category	Count	% of Total	Count	% of Total IBC	% of Rating Category
Overweight/Buy	1042	41%	325	43%	31%
Equal-weight/Hold	1095	43%	348	46%	32%
Not-Rated/Hold	15	1%	4	1%	27%
Underweight/Sell	373	15%	87	11%	23%
Total	2,525		764		

Data include common stock and ADRs currently assigned ratings. An investor's decision to buy or sell a stock should depend on individual circumstances (such as the investor's existing holdings) and other considerations. Investment Banking Clients are companies from whom Morgan Stanley or an affiliate received investment banking compensation in the last 12 months.

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Overweight (O). The stock's total return is expected to exceed the average total return of the analyst's industry (or industry team's) coverage universe, on a risk-adjusted basis, over the next 12-18 months.

Equal-weight (E). The stock's total return is expected to be in line with the average total return of the analyst's industry (or industry team's) coverage universe, on a risk-adjusted basis, over the next 12-18 months.

Not-Rated (NR). Currently the analyst does not have adequate conviction about the stock's total return relative to the average total return of the analyst's industry (or industry team's) coverage universe, on a risk-adjusted basis, over the next 12-18 months.

Underweight (U). The stock's total return is expected to be below the average total return of the analyst's industry (or industry team's) coverage universe, on a risk-adjusted basis, over the next 12-18 months.

Unless otherwise specified, the time frame for price targets included in Morgan Stanley Research is 12 to 18 months.

#### **Analyst Industry Views**

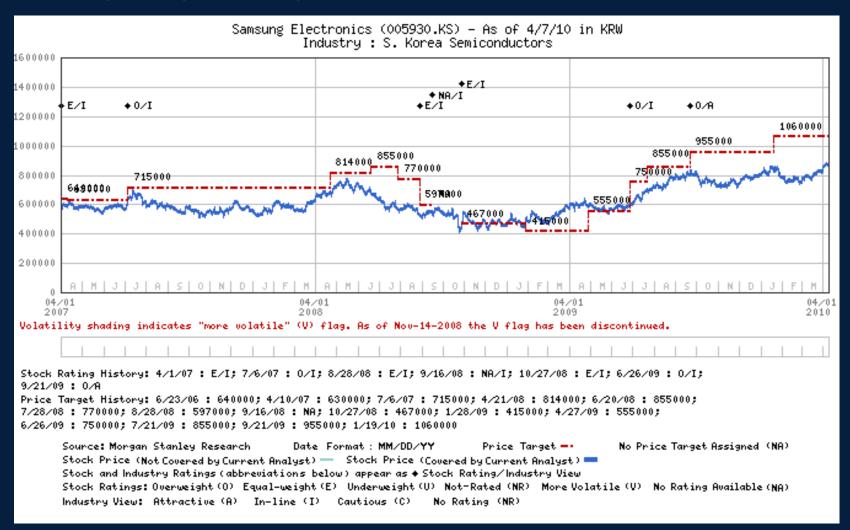
Attractive (A): The analyst expects the performance of his or her industry coverage universe over the next 12-18 months to be attractive vs. the relevant broad market benchmark, as indicated below.

In-Line (I): The analyst expects the performance of his or her industry coverage universe over the next 12-18 months to be in line with the relevant broad market benchmark, as indicated below.

Cautious (C): The analyst views the performance of his or her industry coverage universe over the next 12-18 months with caution vs. the relevant broad market benchmark, as indicated below.

Benchmarks for each region are as follows: North America - S&P 500; Latin America - relevant MSCI country index or MSCI Latin America Index; Europe - MSCI Europe; Japan - TOPIX; Asia - relevant MSCI country index.

Stock Price, Price Target and Rating History (See Rating Definitions)



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