INTERNET TRENDS 2014 – CODE CONFERENCE

Mary Meeker

May 28, 2014

kpcb.com/InternetTrends



Outline

- 1) Key Internet Trends
- 2) Status Update Tech Stocks / Education / Healthcare
- 3) Re-Imagining Continues
- 4) Screen + Video Growth = Still Early Innings
- 5) China's Epic Share Gains
- 6) Public Company Trends
- 7) One More Thing(s)...
- 8) Ran Outta Time Thoughts / Appendix



KEY INTERNET TRENDS



High-Level User / Usage Trends*

Internet Users

<10% Y/Y growth & slowing...fastest growth in more difficult to monetize developing markets like India / Indonesia / Nigeria

Smartphone Subscribers

+20% strong growth though slowing...fastest growth in underpenetrated markets like China / India / Brazil / Indonesia

Tablets

+52% early stage rapid unit growth

Mobile Data Traffic

+81% accelerating growth...video = strong driver

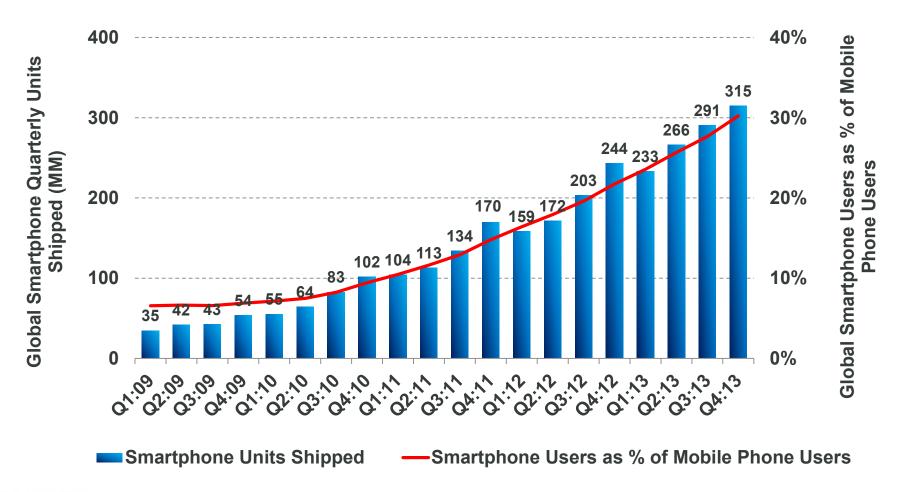


Mobile Usage Growth = Very Strong



Smartphone Users = Still Lots of Upside... @ 30% of 5.2B Mobile Phone User Base

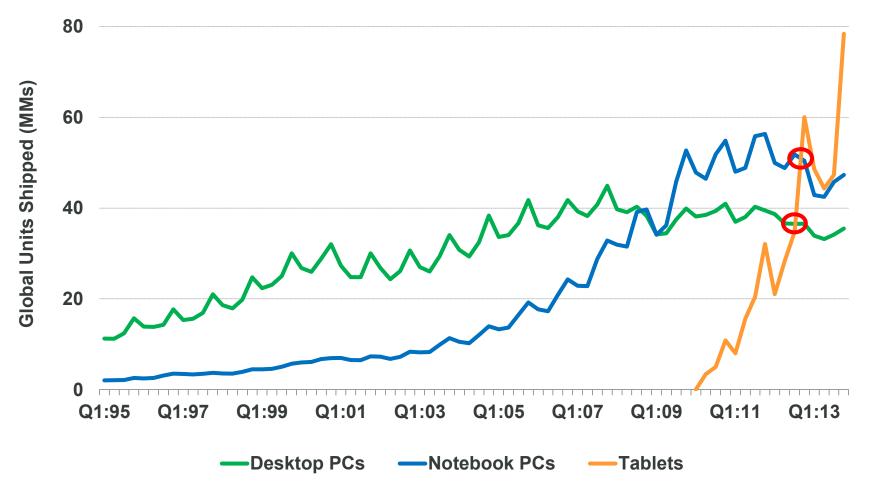
Global Smartphone Quarterly Unit Shipments & Smartphone Users as % of Mobile Phone Users, 2009 – 2013





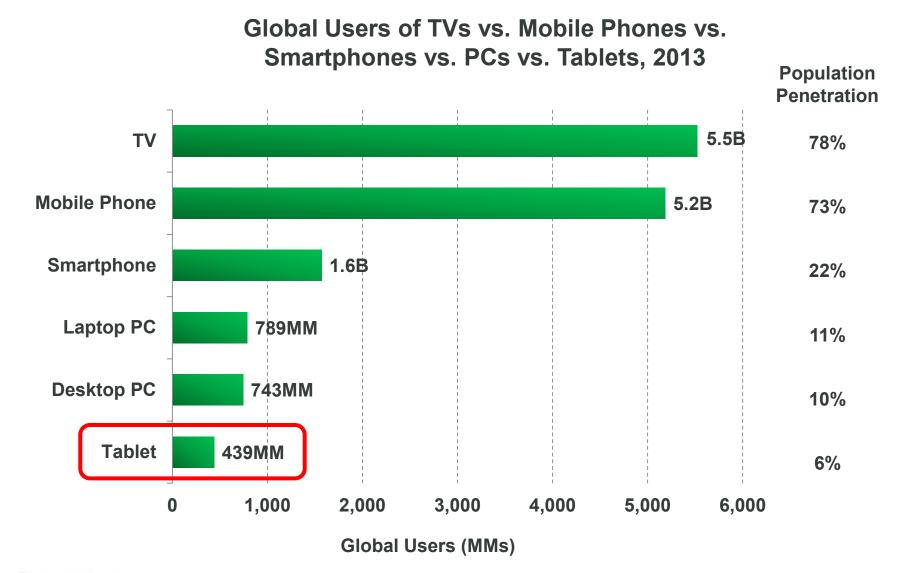
Tablet Units = Growing Faster Than PCs Ever Did... +52%, 2013

Global PC (Desktop / Notebook) and Tablet Shipments by Quarter Q1:95 – Q4:13





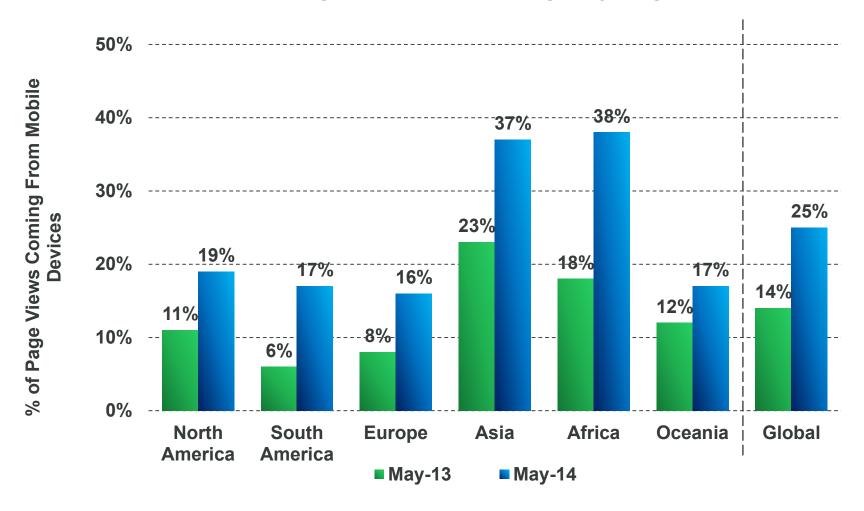
Tablet Users = Loads of Growth Ahead... @ 56% of Laptops / 28% of Smartphones / 8% of TVs





Mobile Usage = Continues to Rise Rapidly... @ 25% of Total Web Usage vs. 14% Y/Y

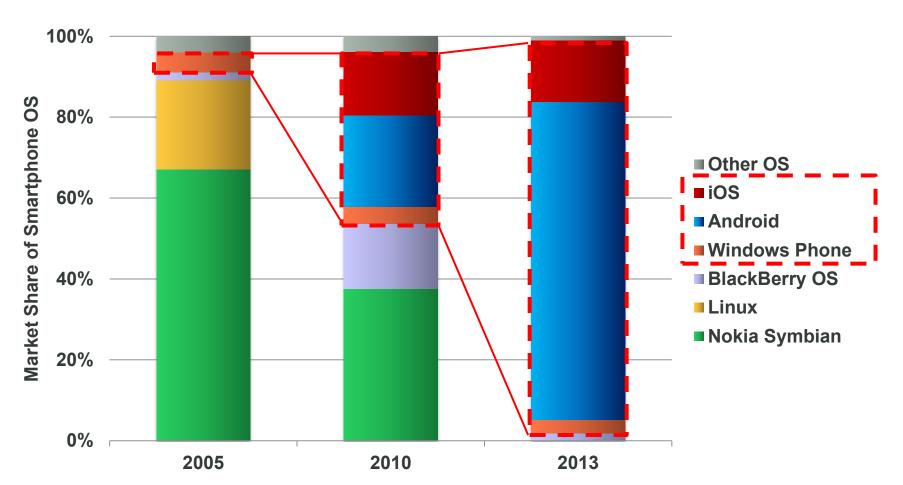
Mobile Usage as % of Web Usage, by Region, 5/14





Global Smartphone Operating Systems 'Made in USA'... 97% Share from 5% Eight Years Ago

Global Smartphone Operating System Market Share (by Units Shipped), 2005 vs. 2010 vs. 2013



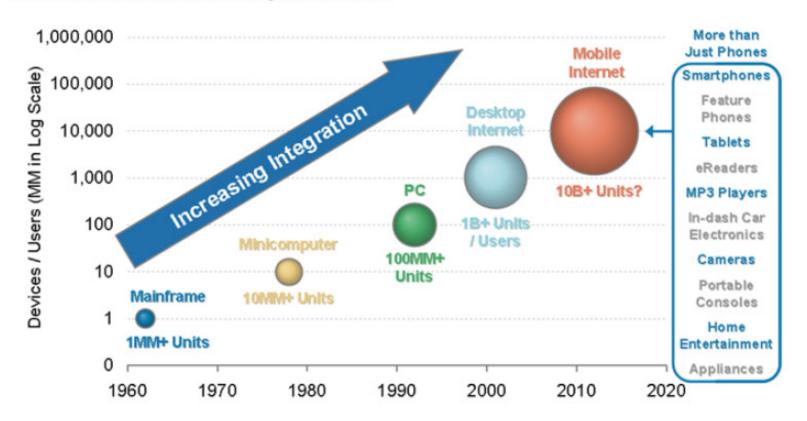


Each New Computing Cycle = 10x > Installed Base than Previous Cycle

Exhibit 29

Each new computing cycle typically generates around 10x the installed base of the previous cycle

Devices or users in millions; logarithmic scale



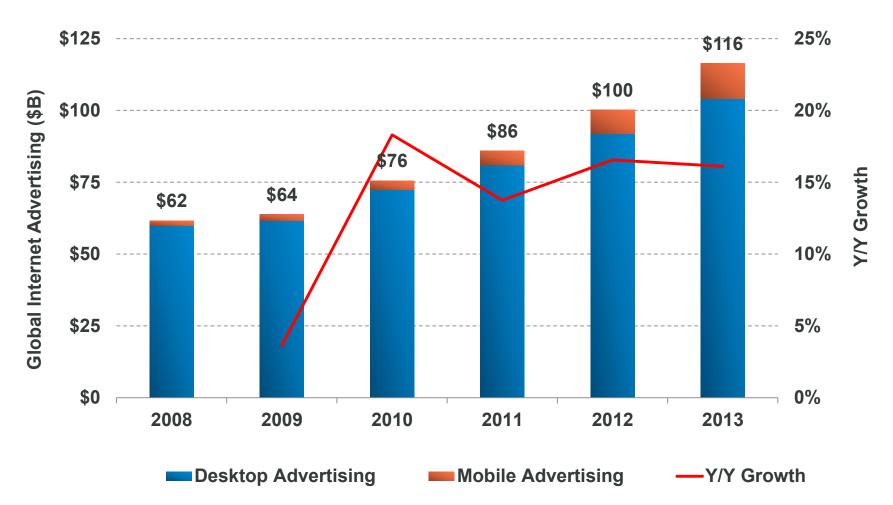


Advertising / Monetization = Mobile Especially Compelling



Internet Advertising = Remains Strong... +16%...Mobile +47% to 11% of Total

Global Internet Advertising, 2008 – 2013





ARPU Upside for Facebook + Twitter... Google ARPU = 6x Facebook...Facebook = 2x Twitter

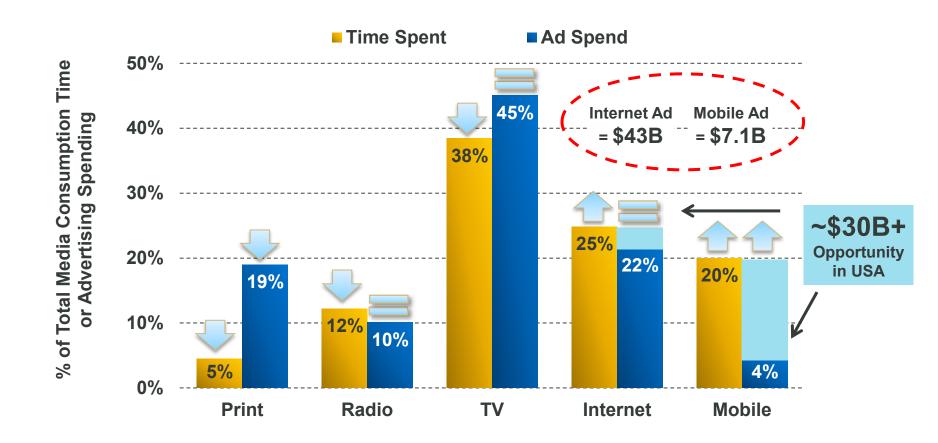
Annualized Ad ARPU (\$) & Mobile % of MAU

Annualized Ad ARPU (\$)	Q1:12	Q2:12	Q3:12	Q4:12	Q1:13	Q2:13	Q3:13	Q4:13	Q1:14
Google (\$)	\$37	\$37	\$38	\$43	\$42	\$41	\$41	\$46	\$45
Y/Y Growth	9%	6%	6%	14%	14%	11%	10%	8%	8%
Facebook (\$)	\$4.00	\$4.28	\$4.43	\$5.15	\$4.60	\$5.65	\$6.14	\$7.76	\$7.24
Y/Y Growth	1%	(2%)	7%	12%	15%	32%	39%	51%	57%
Mobile % of MAU	54%	57%	60%	64%	68%	71%	74%	77%	79%
Twitter (\$)	\$1.29	\$1.50	\$1.64	\$2.15	\$1.97	\$2.22	\$2.65	\$3.65	\$3.55
Y/Y Growth	90%	134%	108%	93%	52%	48%	61%	69%	80%
Mobile % of MAU						75%	76%	76%	78%



Remain Optimistic About Mobile Ad Spend Growth... Print Remains Way Over-Indexed

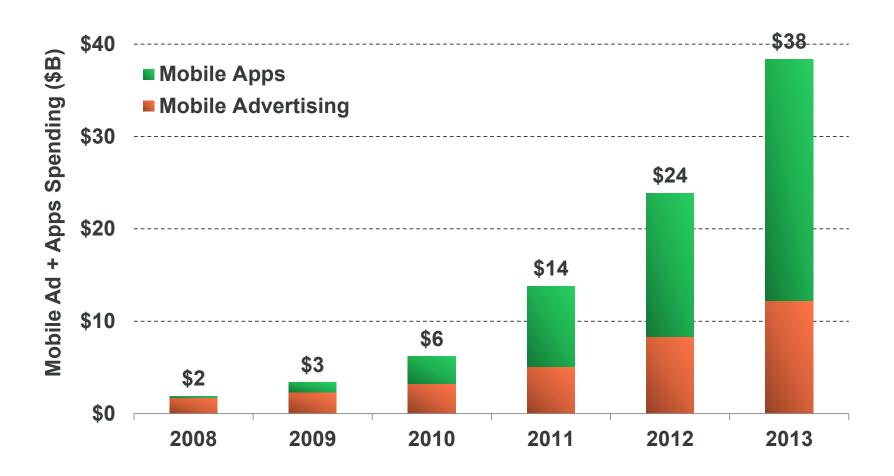
% of Time Spent in Media vs. % of Advertising Spending, USA 2013





Mobile App Revenue = Still Trumps Mobile Ad Revenue... @ 68% of Mobile Monetization

Global Mobile App + Advertising Revenue, 2008 – 2013





Cyber Threats Intensifying...



Cybersecurity Trends – Kevin Mandia (Mandiant / FireEye)

- 1) # of Active Threat Groups Rising Rapidly = 300 (+4x since 2011) per Mandiant tracking
- 2) Increased Nation-State Activities*
- 3) Vulnerable Systems Placed on Internet Compromised in <15 Minutes**
- 4) +95% of Networks Compromised in Some Way
- 5) As Mobile Platforms Grow, Directed Attacks Will Rise



STATUS UPDATE – TECH STOCKS / EDUCATION / HEALTHCARE



Technology Company Valuation Excess?

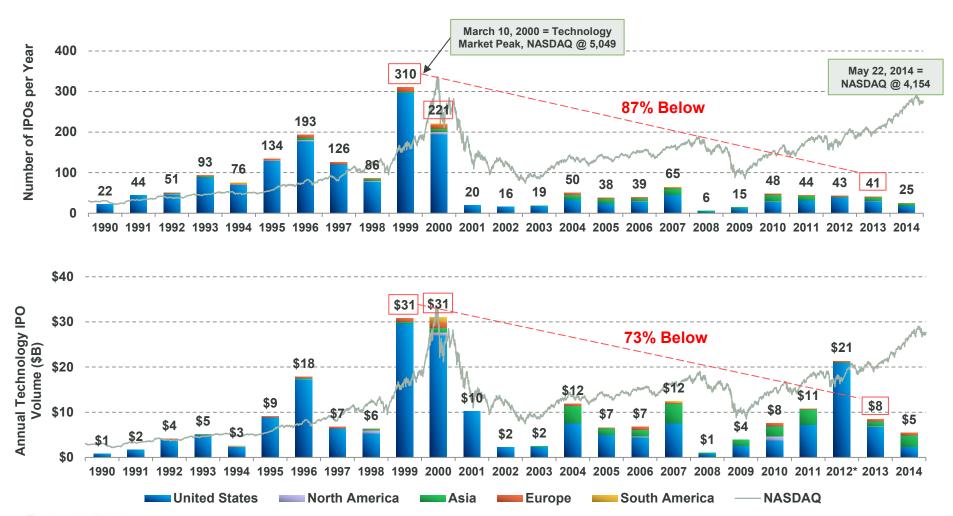
Some? Yes...

But, Let's Look @ Patterns...



2013 Technology IPOs = \$ Volume 73% Below 1999 Peak Level... NASDAQ 18% Below March 2000 Peak

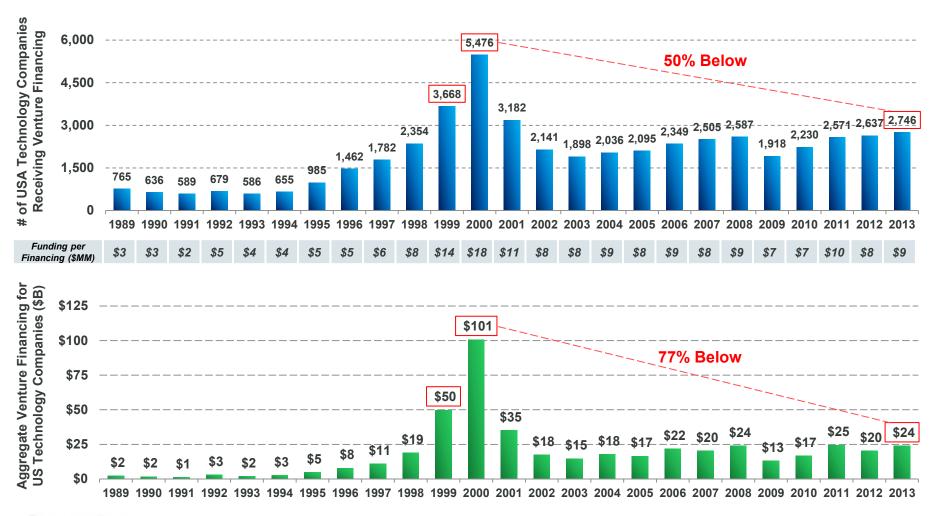
Global Technology IPO Issuance, 1990 – 2014YTD





2013 Venture Financings = \$ Volume 77% Below 2000 Peak Level

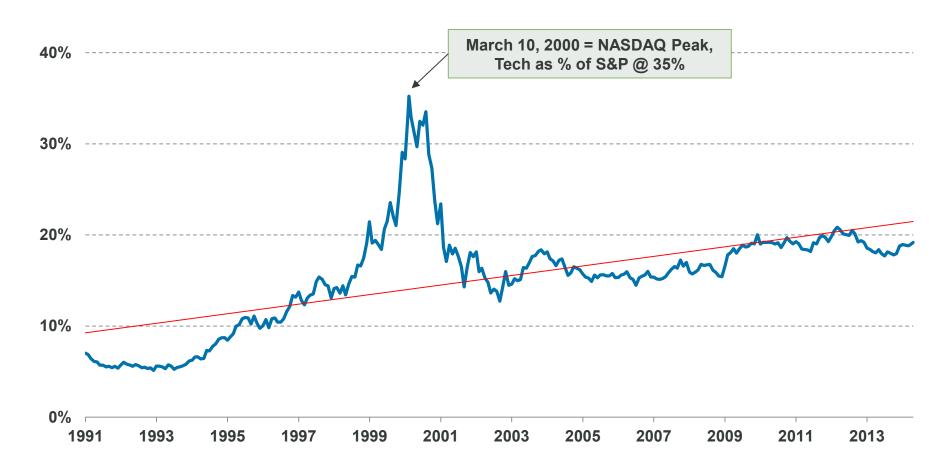
USA Technology Venture Capital Financing, 1989 – 2013





Tech Companies @ 19% of S&P500 Value = Well Below 35% March, 2000 Peak Level

Technology Company Market Value as % of S&P500, 1991 – 2014YTD





Education = May Be @ Inflection Point



Education Realities = Facts – USA...

Education is Important – Getting education right is crucial for future success

Education is Expensive

- Secondary School Costs USA ranks 4th globally in expenditure per student among 34 OECD countries*
- **Higher Education Costs** 71% of 4-year college grads = \$30K average student loan debt. All in, this \$1T+ exceeds credit card & auto loan debt

Education Results Often Subpar

- Public Schools Rank 27th globally in math / 20th in science / 17th in reading
- College Job Prep 1/3 of four-year college graduates feel their education did not prepare them well for employment



...Education Realities = Reasons for Optimism...

- People Care About Education 8 in 10 Americans say education issue is extremely / very important to them
- Personalized Education Ramping People learn in different ways and Internet offers many options – on own terms and at low cost – to many, with real-time feedback
- Distribution Expanding & Education Start Up Costs Declining –
 Direct to consumer / teacher allows education products to receive rapid mass adoption...productization / distribution costs falling



...Education Realities = Green Shoots Data

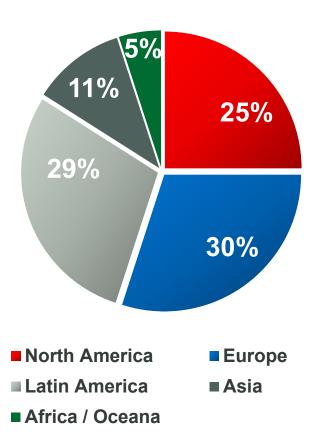
- Graduation Rates Rising 81% of high school freshman graduated in 2012, up from 74% five years ago
- Language Learning Easier / Fun 25MM+ people (+14x Y/Y) use Duolingo app to learn new language
- Communication Easier 12MM+ teachers / students / parents (+15x Y/Y) use Remind101 to send 500MM+ messages
- **Behavior Feedback Easier** 35MM+ teachers / students / parents using ClassDojo to help improve student behavior through real-time feedback
- Online Courses Can Help Learning Process (for Teachers + Students)
 - 430MM+ views (+69% Y/Y) on Khan Academy YouTube channel, 10MM MAUs
 - 65MM+ courses (+59% Y/Y) from iTunes U Open University downloaded
 - 7MM+ students (+ >2x Y/Y) enrolled in Coursera courses



Online Education = It's a Global Thing

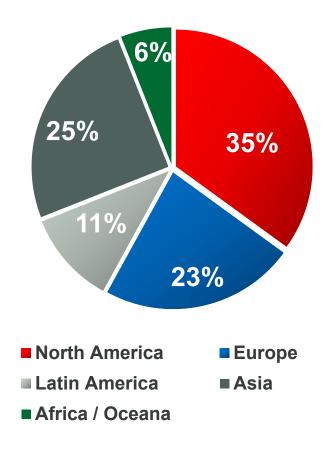
Duolingo (25MM Users)

Traffic Distribution, 4/14



Coursera (7MM Users)

Student Distribution, 3/14





Healthcare = May Be @ Inflection Point



Healthcare Realities = Facts – USA...

- Costs Up to 17% of GDP @ \$2.8T in 2012, +2x as percent of GDP in 35 years
- **Waste = 27% of Spend** \$765B of healthcare spend estimated from excess costs: \$210B = unnecessary services; \$190B = excess administrative; \$55B = missed prevention opportunities; \$310B = inefficient delivery of care / fraud / inflated prices (2009)
- Employers Carry Big Burden \$620B spend by employers for 150MM Americans
 (2014E)...costs up 28% vs. 5 years ago...67% CFOs indicate healthcare costs = leading economic
 concern
- **Individual Costs Rising** >25% of family income likely to go to healthcare spending in 2015E vs. 18% in 2005...top 5% healthcare consumers (most with multiple chronic illnesses) spent 50% of healthcare dollars (2009)...>50% of personal bankruptcies driven by healthcare costs
- Chronic Conditions = +75% of Spend Most costly = cancer / diabetes / heart disease / hypertension / stroke...1 in 2 Americans has at least 1 chronic condition, 1 in 4 has 2+...32% of Americans obese in 2008, up from 15% in 1990
- **Behavior = Root Cause of Many Health Problems** Health risk behaviors cause chronic diseases. 52% of adults did not meet recommendations of physical activity (2011)...50% of those with chronic conditions not complaint with taking medicine to manage disease = \$100B on avoidable hospitalizations (2010)



...Healthcare Realities = Reasons for Optimism...

- Digital Technology Enables Change Healthcare system has relied on antiquated systems
- Government Enabled Change Pushes Technology
 - HITECH Act \$35B administered by Office of the National Coordinator for Electronic Health Records (EHR) + health information technology in 2013...penalties exist for non-compliance
 - Affordable Care Act Coverage expansion in works
- Consumerization of Healthcare Majority (52%) of consumers want to access tools / websites rankings for quality / satisfaction / patients reviews of doctors + hospitals



...Healthcare Realities = Green Shoots Data

Digitization of Healthcare Happening

- Providers Using Fully Functioning EHR 84% of Hospitals / Academic / Institutional practices...51% (& rising) of office-based practices
- Consumers Happy to Communicate via Email 62% for healthcare concerns
- Digital Health Venture Investments Rising +39% Y/Y to \$1.9B (2013, USA)

Quality Over Quantity Incentives Being Implemented

- Payers Incentivized to Engage Patients / Improve Care / Outcomes / Reduce Costs
- Providers Shifting to Value-Based from Fee-for-Service Payments
- Employers Lowering Costs by Offering Services to Improve Engagement / Choices /
 Care 46% of employers will enact participatory / outcomes based incentives (like
 weight loss / cholesterol levels)... By 2015, 60% will offer price transparency tools from
 health plans

Patient Engagement Rising & Yielding Results

- Redbrick Health employer engagement platform = 4:1 ROI savings per participant
- *Teladoc* employer focused telemedicine platform = \$798 savings per consultation vs. office visit & ER over 30 days
- *Mango Health* adherence app = 84% Statin adherence vs. 52% market average
- WellDoc chronic disease platform = diabetes app prescription with reimbursement



RE-IMAGINING CONTINUES



Re-Imagining Messaging / Communications



A Tweet – David Sacks (Yammer CEO / Founder)



David Sacks @DavidSacks

Both WhatsApp and Secret represent the ascendency of the phone book over the friend graph. It's back to the future.

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◆ Reply ♣ Retweet ★ Favorite • More

3:17 PM - 19 Feb 2014
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Global OTT (Over-the-Top) Messaging Services = >1B Users in <5 Years...

Global Messaging Ecosystem – Select Players, 2013



WhatsApp (USA), 4+ Years

MAUs = **400MM**, +100% Y/Y Messages / Day = **50B**, +178% Y/Y



Tencent WeChat (China), 3+ Years

MAUs = 355MM, +125% Y/Y



Line (Japan), 2+ Years

MAUs = **280MM**Messages / Day = **10B**Revenue = **\$388MM**, +5x Y/Y (Q4:13)



KakaoTalk (Korea), 3+ Years

Messages / Day = **5.2B**, +24% Y/Y Revenue = **\$203MM**, +4xY/Y



Snapchat (USA), 2+ Years

Messages / Day = 1.2B

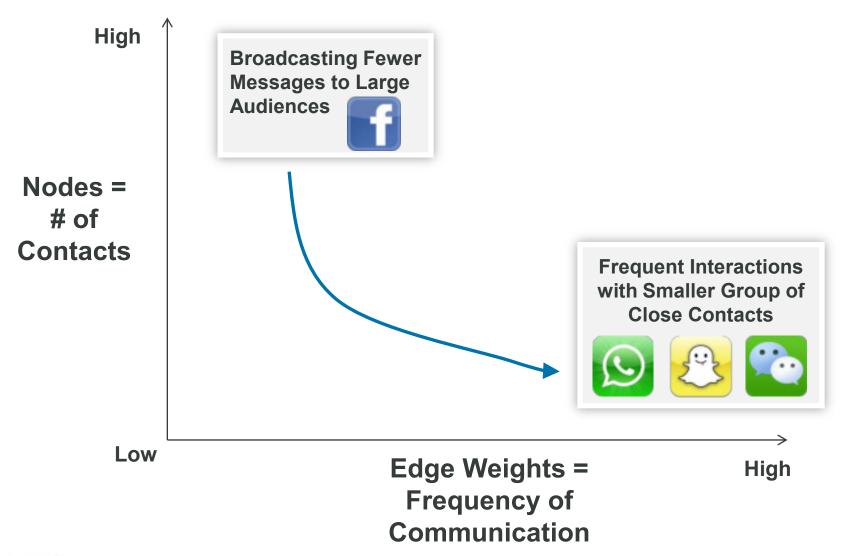


Viber (Israel), 3+ Years

MAUs = **100MM**



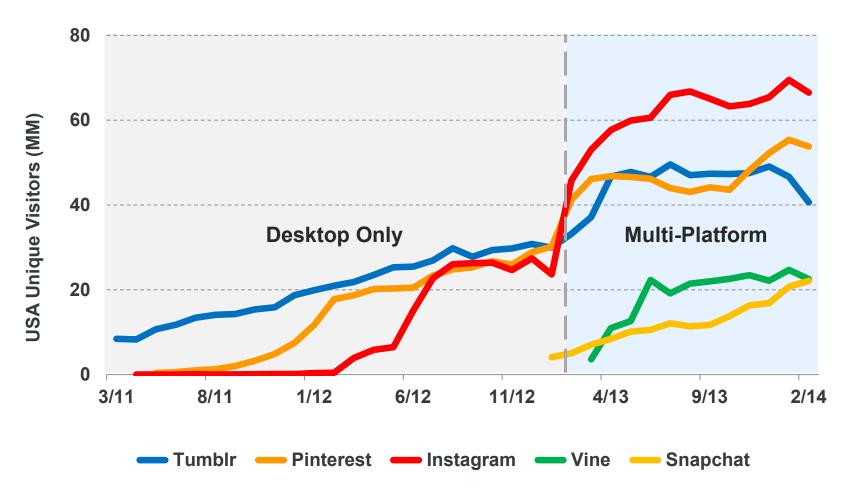
Evolution of Messaging → New Social Graphs... Edges = Potentially More Value than Nodes...





Evolution of Communications -> Image + Video Sharing Rising Rapidly

'Visual Web' Social Networks: Unique Visitors Trend, USA, 3/11 – 2/14



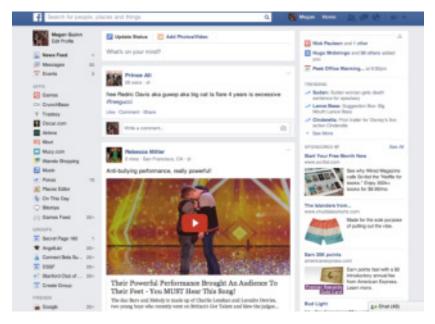


Re-Imagining Apps



Evolution of Apps → Internet Unbundling...

First, multi-purpose web apps... ...then, multi-purpose mobile apps...







...now, single-purpose = 'there's an app for that...'















40

Evolution of Apps → Internet Unbundling = Rise Of Invisible App

...now some apps are disappearing altogether...









Foursquare Swarm

Runkeeper Breeze

Dark Sky

We're entering the age of apps as service layers.

These are apps you have on your phone but only open when you know they explicitly have something to say to you.

They aren't for 'idle browsing,' they're purpose-built & informed by contextual signals like hardware sensors, location, history of use & predictive computation.

- Matthew Panzarino, TechCrunch, 5/15/14



Re-Imagining Distribution Channels & Content



Social *Distribution* Leaders = Facebook / Pinterest / Twitter...

- Social Media Traffic Referral Leaders =
 Facebook / Pinterest / Twitter with estimated 21%, 7%, 1% of global referrals, per Shareaholic, 3/14.
- Social Distribution Happens Quickly =
 Average article reaches half total social referrals
 in 6.5 hours on Twitter, 9 hours on Facebook,
 per SimpleReach, 5/14.



Social News Content Leaders = BuzzFeed / Huffington Post / ABC News...

Facebook Likes

Facebook Comments

30

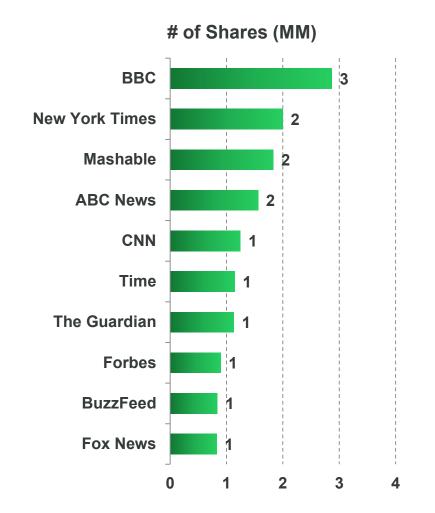
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Top Facebook News Publishers, 4/14

of Interactions (MM)

BuzzFeed 39 28 **Huffington Post ABC News** 19 Fox News 15 **NBC** 12 **IJReview** 12 ■ Facebook Shares The Guardian

Top Twitter News Publishers, 4/14





New York Times

The Blaze

Daily Mail

44

10

20

Re-Imagining Content + Content Delivery = BuzzFeed... Lists / Quizzes / Explainers / Breaking / Video / Mobile

BuzzFeed

130MM+ Unique Visitors +3x Y/Y (5/14) >50% Mobile, >75% Social, >50% age 18-34



15 Things You Didn't Know Your iPhone Could Do
17MM+ views



What State Do You Actually Belong In?
40MM+ views



Why I Bought A House In Detroit For \$500

1.5MM+ views



Photoshopping Real Women Into Cover Models

13MM+ video views

Re-Imagining Day-to-Day Activities



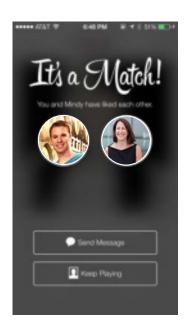
Re-Imagining How People Meet

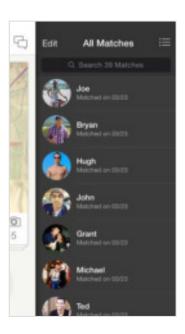
~70K Bars / Nightclubs, USA



Tinder

800MM Swipes per day, +21x Y/Y 11MM Matches per day, +21x Y/Y







Re-Imagining Local Services / Reputation = Leverage + Efficiency



6MM Guest Stays 550K Listings, +83% Y/Y

11x Ratio Guest Stays / Listings





231MM Buyers, +44% Y/Y 8MM Sellers 29x Ratio \$31K / Year Avg to Alibaba's China Retail Marketplace Sellers



39MM Meal Orders, +74% Y/Y 29K Restaurants, +3X Y/Y

1,367x Ratio \$35K / Year Avg to Restaurants



Re-Imagining Grocery Shopping

>47% of Online Transactions Use 'Free-Shipping,' vs. 35% Five Years Ago...

Same-Day Local Delivery = Next Big Thing...



Instacart

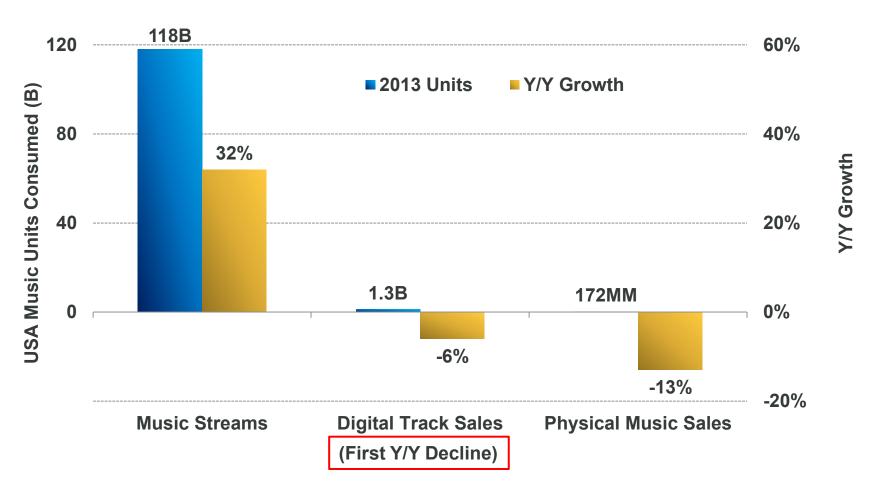


Amazon Fresh



Re-Imagining Media (Music) Consumption = Streaming +32%, Digital Track Sales -6%

USA Music Consumption, 2013





Re-Imagining Money



Re-Imagining Money

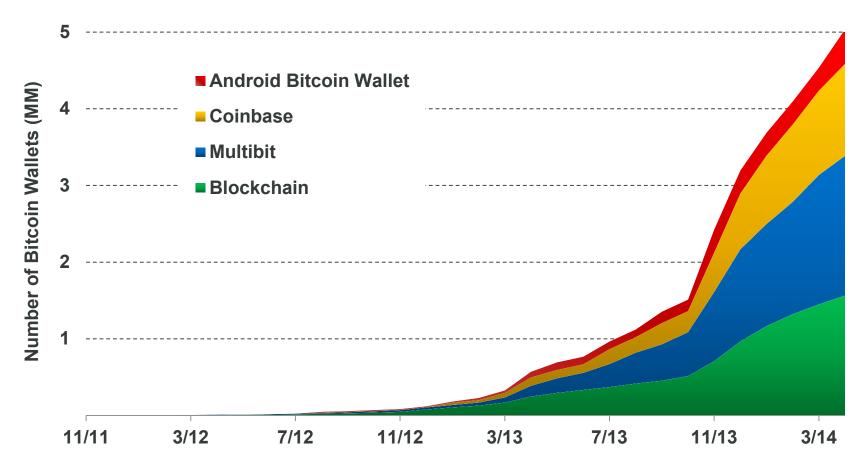






Fact that ~5MM Bitcoin Wallets (+8x Y/Y) Exist Proves Extraordinary Interest in Cryptocurrencies

Number of Bitcoin Wallets by Wallet Provider, 4/14





Re-Imagining an Industry Vertical



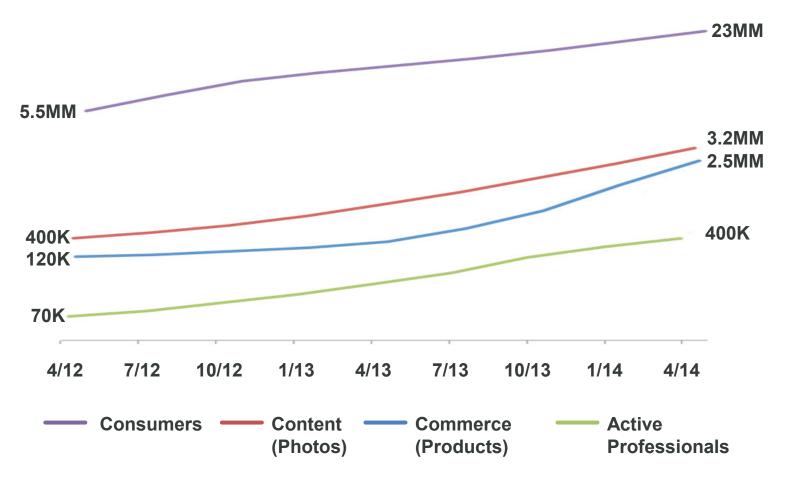
Internet Trifecta = Critical Mass of Content + Community + Commerce...

- 1) Content = Provided by Consumers + Pros
- 2) Community =
 Context & Connectivity Created by & for Users
- 3) Commerce = Products Tagged & Ingested for Seamless Purchase



...Internet Trifecta = Critical Mass of Content + Community + Commerce...

Houzz – Content (Photos) / Community (Professionals + Consumers) / Commerce (Products), 4/12 – 4/14





...Houzz = Ecosystem for Home Renovation & Design

Content



Inspiration - Photos

~3MM (+230% Y/Y) World's largest photo database



Editorial Guides / Articles

10K (+143%)
'Wikipedia' of home design



Community



Services – Professionals

400K (+198%) Portfolios & reviews





Discussions

800K (+225%) Pro & homeowner support / advice



Commerce



Products

2.5MM (+590%) Discover & purchase





Biggest Re-Imagination of All =

People Enabled With Mobile Devices + Sensors Uploading Troves of Findable & Sharable Data



More Data + More Transparency = More Patterns & More Complexity

Transparency

Instant sharing / communication of many things has potential to make world better / safer place but potential impact to personal privacy will remain on-going challenge...

Patterns

Mining rising volume of data has potential to yield patterns that help solve basic / previously unsolvable problems but create new challenges related to individual rights...



Big Data Trends

- 1) Uploadable / Findable / Sharable / Real-Time Data Rising Rapidly
- 2) Sensor Use Rising Rapidly
- 3) Processing Costs Falling Rapidly...While The Cloud Rises
- 4) Beautiful New User Interfaces Aided by Data-Generating Consumers Helping Make Data Usable / Useful...
- 5) Data Mining / Analytics Tools Improving & Helping Find Patterns
- 6) Early Emergence of Data / Pattern-Driven Problem Solving

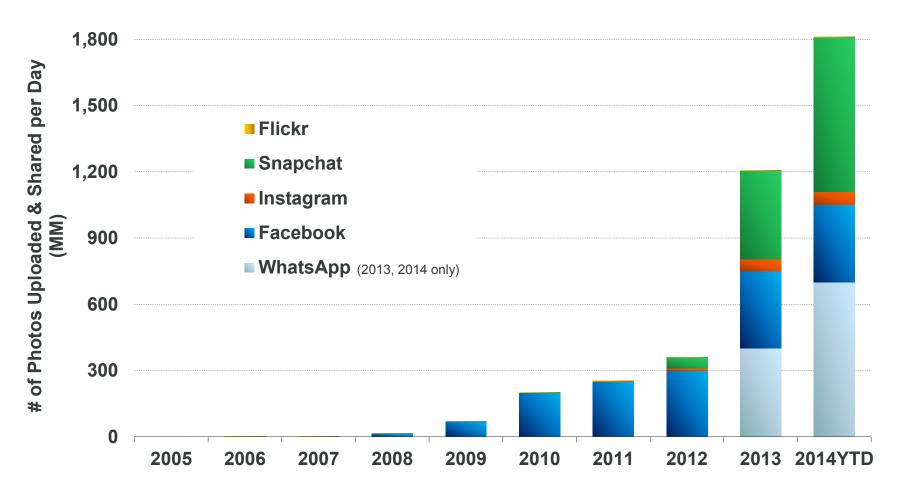


Uploadable / Sharable / Findable Real-Time Data Rising Rapidly



Photos Alone = 1.8B+ Uploaded & Shared Per Day... Growth Remains Robust as New Real-Time Platforms Emerge

Daily Number of Photos Uploaded & Shared on Select Platforms, 2005 – 2014YTD





Uploadable / Sharable / Findable – Mojo Update

Pinterest

- 750MM+ cumulative Boards (4/14)
- 30B+ cumulative Pins
- +50% Pin growth vs. 10/13



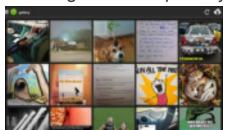
MyFitnessPal

- 65MM registered users (+50% Y/Y, 5/14)
- 100MM+ pounds lost by users since inception



IMGUR

- 130MM MAUs (3/14)
- 3B page views per month
- 1.5MM images uploaded &
 1.3B images viewed per day



Eventbrite

- \$1B gross ticket sales in 2013 (+60% Y/Y)
- 58MM tickets sold (+61% Y/Y)
- 1MM events in 187 countries



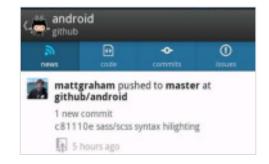
Fitbit

47B → 2.4T steps (2011 → 2013)... Distance = Earth to Saturn



Github

- 13MM repositories in 2013 (+100% Y/Y)
- 10K users added per weekday





Uploadable / Sharable / Not Findable* – Mojo Update

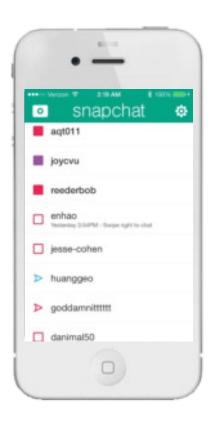
WhatsApp

- 50B messages sent per day (2/14)
- 700MM photos per day (4/14)
- 100MM videos per day



Snapchat

- 700MM+ snaps shared per day (4/14)
- 500MM stories viewed per day



Tinder

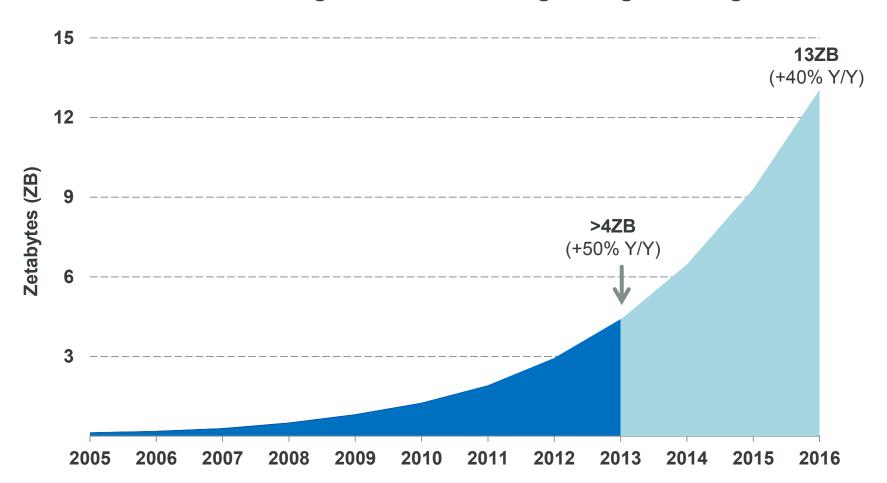
- 800MM swipes per day (+21x Y/Y, 5/14)
- 11MM matches per day (+21x Y/Y)





'Digital Universe' Information Growth = Robust... +50%, 2013

2/3rd's of Digital Universe Content = Consumed / Created by Consumers ...Video Watching, Social Media Usage, Image Sharing...





Sensor Use Rising Rapidly



Sensors = Big / Broad Business, Rapid Growth, Rising Proliferation *IN* Devices...

Apple

iPhone (2007) 3 Sensors





iPhone 5s (2013) 5 Sensors



· Accelerometer / proximity / ambient light

 3-axis gyro / fingerprint / accelerometer / proximity / ambient light

Acceleration for proximity a unificant light

Galaxy S (2010) 3 Sensors



Samsung



Galaxy S5 (2014) 10 Sensors



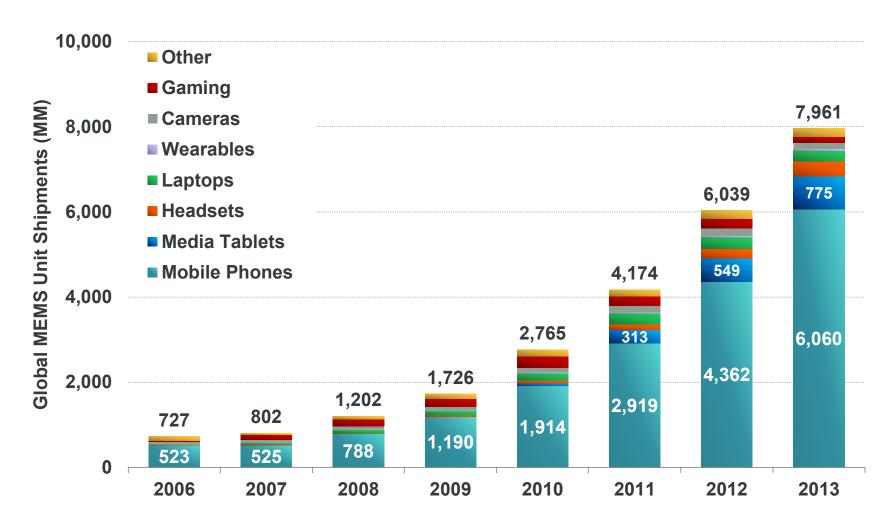
Accelerometer / proximity / compass

 Gyro / fingerprint / barometer / hall (recognizes whether cover is open/closed) / RGB ambient light / gesture / heart rate / accelerometer / proximity / compass



...Sensors = Big / Broad Business (+32% Y/Y to 8B) Rising Proliferation *OF* Devices

Global MEMS Unit Shipments by Consumer Electronics Device, 2006 – 2013





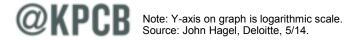
Processing Costs Falling Rapidly... While The Cloud + Accessibility Rise



Compute Costs Declining = 33% Annually, 1990-2013...

Decreasing cost / performance curve enables computational power @ core of digital infrastructure...

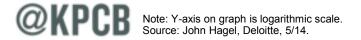
Global Compute Cost Trends \$1,000.00 \$527 \$100.00 \$ per 1 MM transistors \$10.00 \$1.00 \$0.10 \$0.05 \$0.01 2000 1990 1992 1994 1996 1998 2002 2004 2006 2008 2010 2012



...Storage Costs Declining = 38% Annually, 1992-2013...

Decreasing cost / performance of digital storage enables creation of more / richer digital information...

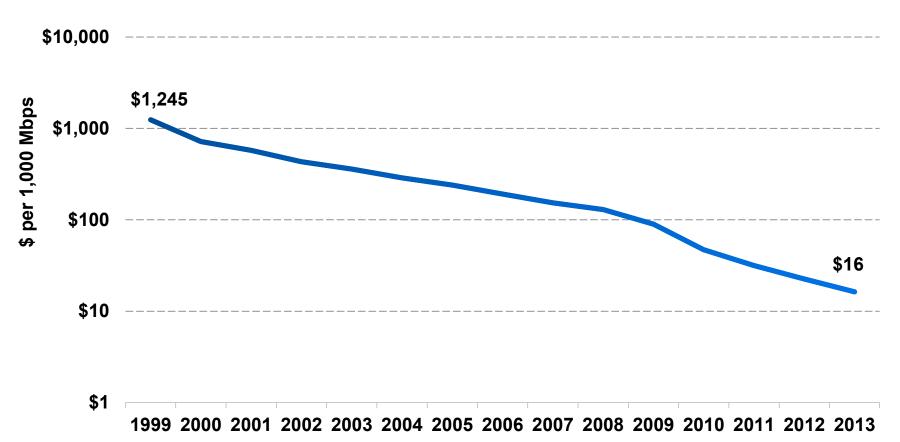
Global Storage Cost Trends \$1,000.00 \$569 \$100.00 \$ per Gigabyte \$10.00 \$1.00 \$0.10 \$0.02 \$0.01 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012



...Bandwidth Costs Declining = 27% Annually, 1999-2013...

Declining cost / performance of bandwidth enables faster collection & transfer of data to facilitate richer connections / interactions...

Global Bandwidth Cost Trends

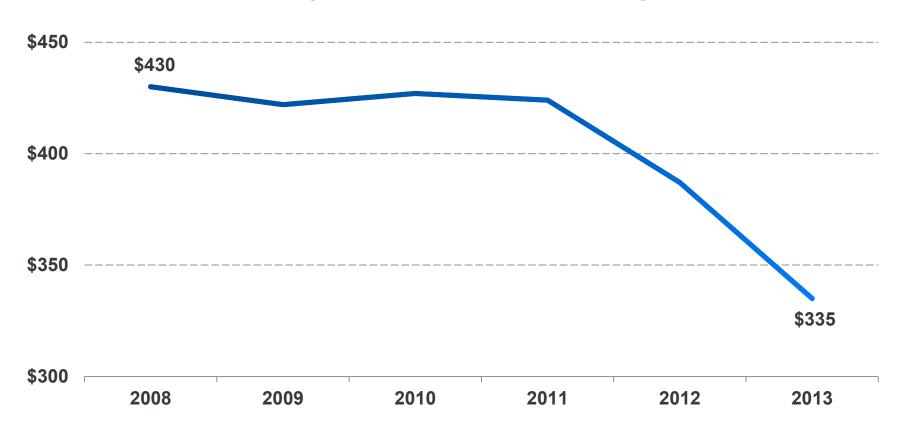




...Smartphone Costs Declining = 5% Annually, 2008-2013

Smartphone prices continue to decline, increasing availability to masses...

Average Global Smartphone Pricing Trends

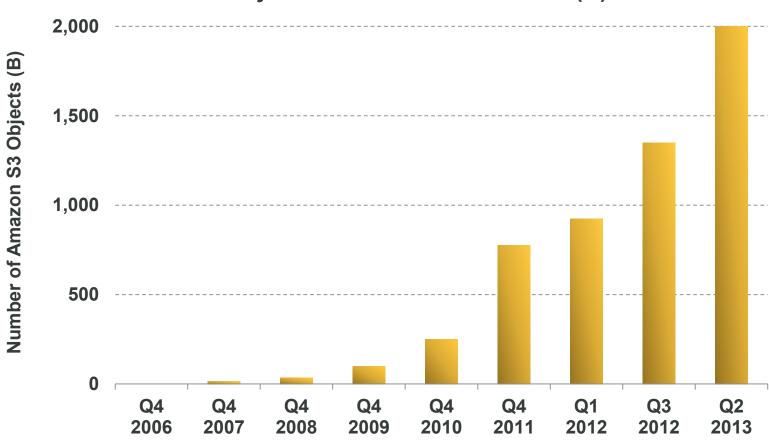




...While The Cloud Rises

Amazon Web Services (AWS) Leading Cloud Charge...

Objects Stored in Amazon S3* (B)





Beautiful New User Interfaces – Aided by Data-Generating Consumers – Helping Make Data Usable / Useful...



...Challenging Non-Cloud Business Models

Startups – Often Helped by Crowdsourcing – Often Don't Have Same Challenges with Error-Prone Legacy Data

New Companies

– With New Data from New Device Types –

Doing Old Things in New Ways &

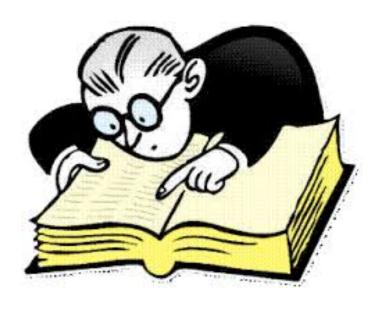
Growing Super Fast

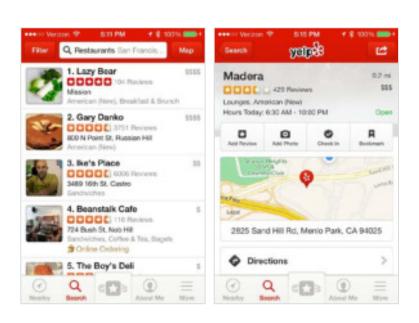


Re-Imagining User Interfaces – Finding a Local Business

Yellow Pages



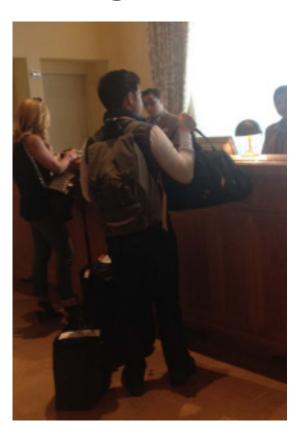




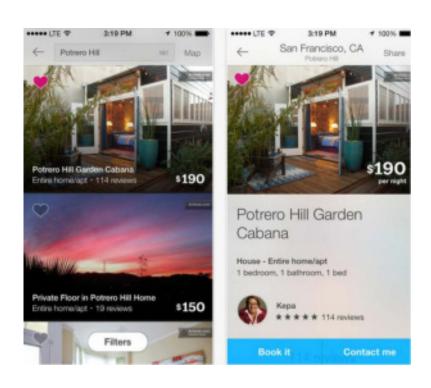


Re-Imagining User Interfaces – Finding a Place to Stay

Booking Hotel Room



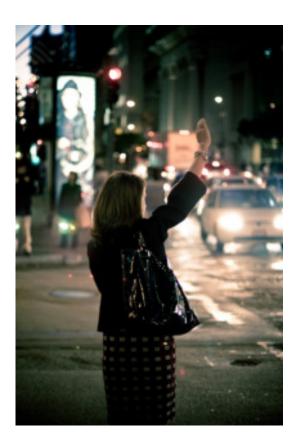
Airbnb





Re-Imagining User Interfaces – Organized Logistics / People Moving

Hailing Cab



Uber



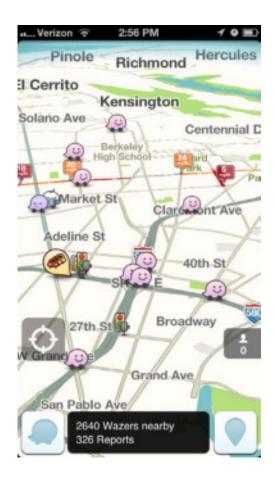


Re-Imagining User Interfaces – Managing Traffic With Crowdsourcing

Driving in Traffic



Waze





Re-Imagining User Interfaces – Finding Music

Satellite Radio



Spotify





Re-Imagining User Interfaces – Finding Video With Voice

TV Remote Control

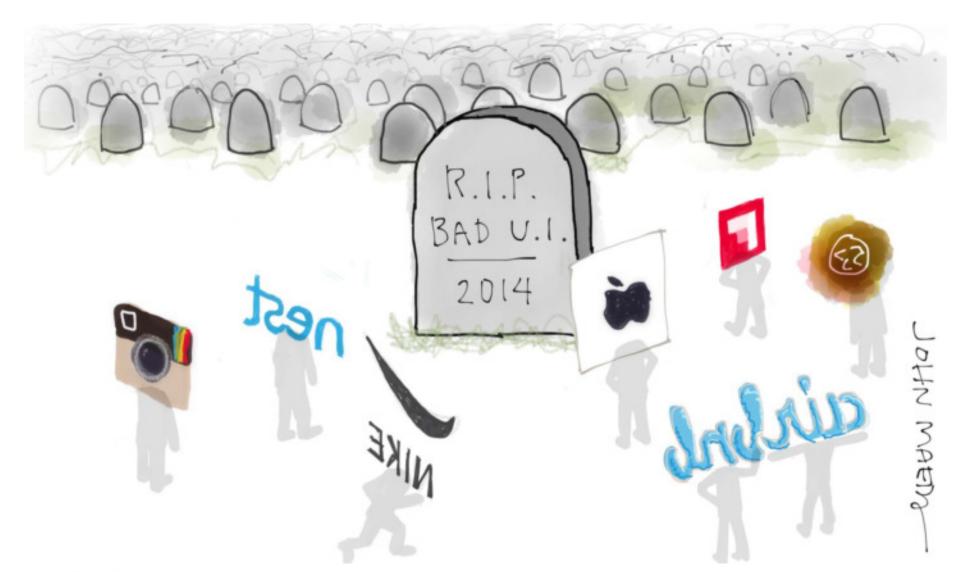


Amazon Fire TV





R.I.P. Bad User Interfaces





Data Mining / Analytics Tools Improving & Helping Find Patterns



34% (& Rising) of Data in 'Digital Universe' = Useful but Only 7% Tagged...1% Analyzed

Significant Portion (34%) of IDC Digital Universe Data = Useful –

Derived from embedded systems / data processing / social media / photos / sounds...

Small Portion (7%) Data = Tagged –

Fastest growing segment of valuable data comes from Internet of Things (IoT) – billions of sensors / intelligence systems capturing / sending data, increasingly in real-time...

Immaterial Portion (1%) Data = Analyzed –

Newer tech companies are making it easier to understand / make use of increasing amount of data...



Data Mining / Analytics Tools that Mine / Organize Data = Playing Catch Up to Demand & Growing Fast

Jawbone

Health Wearable

- 100MM nights of sleep logged = 27K years
- 50B activity data points crunched per week
- 1MM personalized insights per week



AppDynamics

App Performance Monitoring

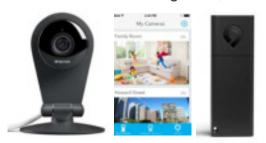
- 500B Web / mobile transactions instrumented / tracked
- 1.4MM hours saved waiting on apps
- 1,200 enterprise customers



Dropcam

Home Monitoring

- ~100B video frames processed per hour
- +300% Y/Y revenue growth, 2013



SnapLogic

Cloud Integration / Data Transmission

- 500MM+ machine / device scans integrated per day
- 160+ data / cloud connectors on SnapStore
- +128% Y/Y subscription revenue, 2013



Netflix

Media Personalization / Discovery

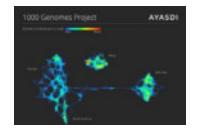
- Terabytes of user data analyzed to generate personalized media recommendations
- 44MM subscribers (+25% Y/Y, 2013)



Ayasdi

Automated Insight Discovery

- Auto extracts business insights from datasets with 1MM+ features
- 120K hours saved of manual data analysis in 2013
- +451% Y/Y bookings growth, 2013





Early Emergence of Data / Pattern-Driven Problem Solving



Big Data = Being Used to Solve Big Problems

Google Voice Search

Voice Recognition

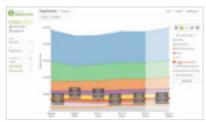
- Uses neural nets to reduce speech recognition errors by 25%
- Used by 1/6 of Google's U.S. mobile users



OpenGov

Government Financials

- Compiles data of 37K US governments
- Real-time queries across millions of rows of transactions
- Adding new paying government customer every 4 days (& accelerating)



Nest

Energy

- 2B+ Kilowatt hours (kWh) of energy saved since 2011*
- Reduces heating / cooling costs up to 20%...an estimated annual savings of \$173 per thermostat



Automatic

Connected Car

- Collects / analyzes hundreds of millions of data points daily
- Provides personalized feedback to drivers, saving up to 30% in fuel costs
- Discovered driving over 70 MPH saves
 <5% time, but wastes \$550 gas / year



Zephyr Health

Healthcare & Life Sciences

- Hundreds of millions healthcare data points ingested / organized (+192% Q/Q, Q3:13)
- 3,500+ independent life sciences sources used daily (+159% Q/Q & accelerating), spanning all major disease areas
- +111% Y/Y contracted revenue growth, 2013



Wealthfront

Investment Management

- +4.6% return vs. average mutual fund**
- · 200K risk questionnaires completed
- 650K free trades, saving clients \$5MM+
- 10K+ clients
- \$800MM+ AUM, +700% since 1/13

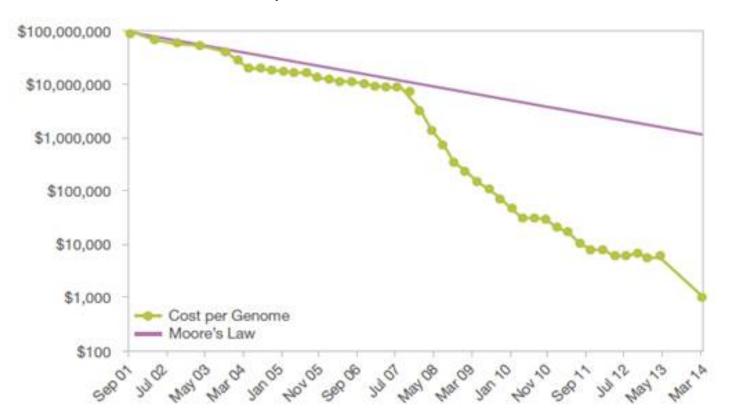




Cost / Time to Sequence Genome Down to \$1,000 / 24 Hours – Treasure Trove of Patterns Will Rise Rapidly

Accurate diagnosis is foundation for choosing right treatments for patients & clinical lab tests provide critical information health care providers use in ~70% of decisions*

Genetic & genomic testing can be at heart of a new paradigm of [precision] medicine that is evidence-based & rooted in quantitative science**





Biggest Re-Imagination of All =

People Enabled With
Mobile Devices + Sensors
Uploading Troves of
Findable & Sharable Data =

Still Early & Evolving Rapidly



SCREEN + VIDEO GROWTH = STILL EARLY INNINGS



Future of TV – Reed Hastings (Netflix CEO / Founder)

- 1) Screens Proliferating
- 2) [Traditional] Remote Controls Disappearing
- 3) Apps Replacing Channels
- 4) Internet TV Replacing Linear TV



Screens Proliferating



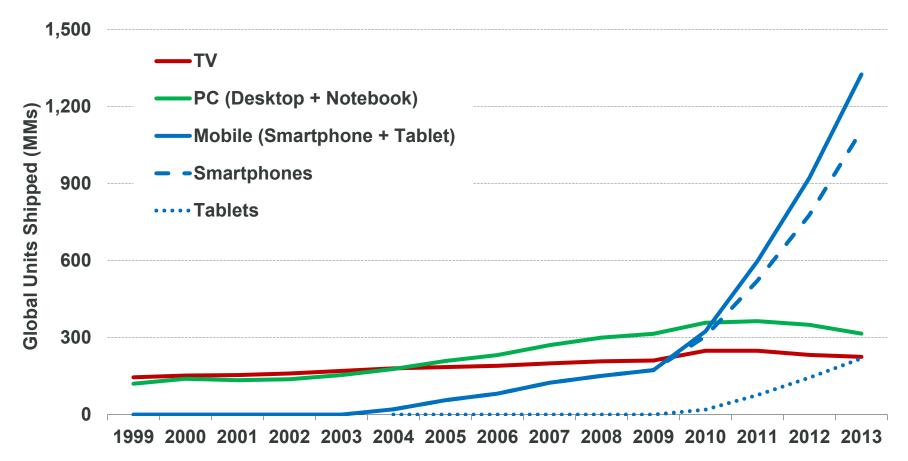
Screens Today = You Screen...I Screen...We All Screen





Mobile (Smartphone + Tablet) Shipments = 4-5x Unit Volume of TV & PC...Just 10 Years Since Inception

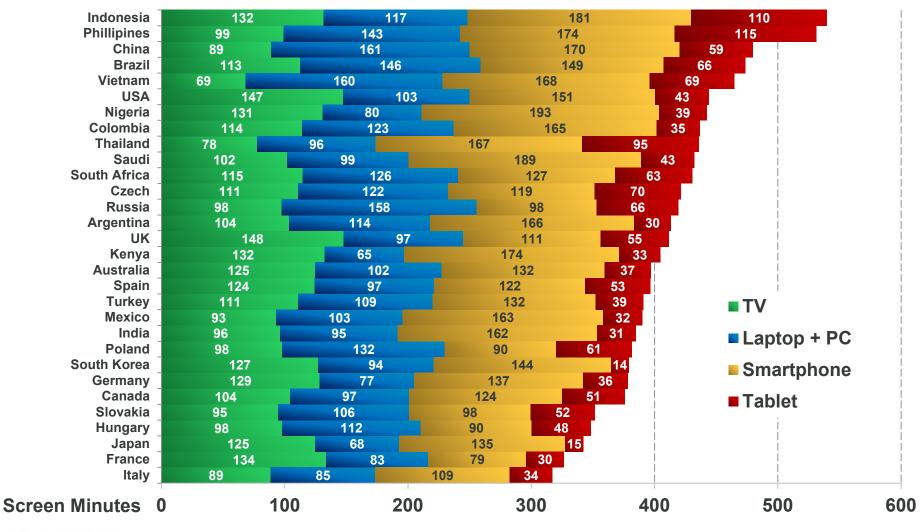
Global TV vs. PC (Desktop + Notebook) vs. Mobile (Smartphone + Tablet) Shipments, 1999 – 2013





Smartphones = Most Viewed / Used Medium in Many Countries, 2014

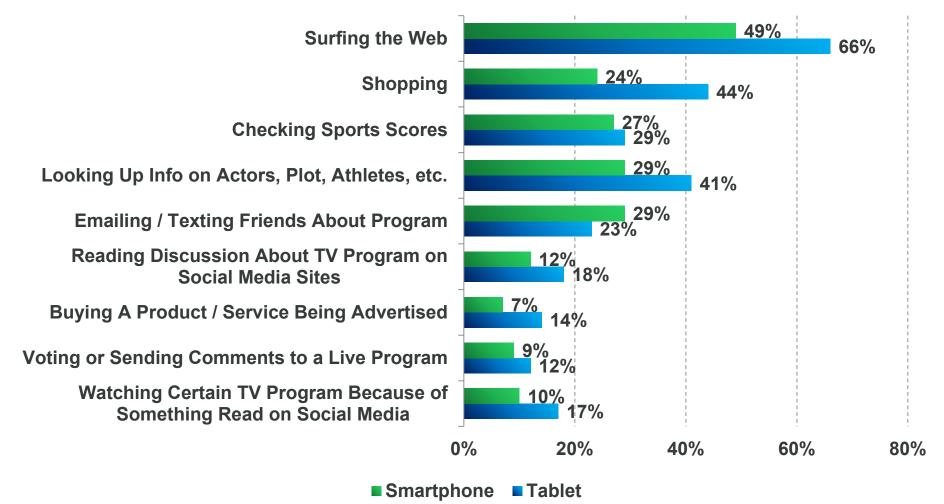
Daily Distribution of Screen Minutes Across Countries (Mins)





Mobile Owners (84%) Use Devices While Watching TV... ~2x Higher Over 2 Years

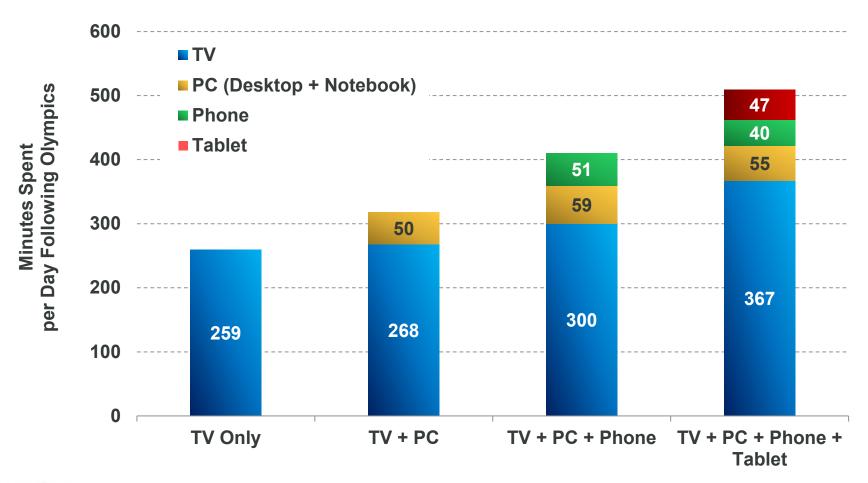
What Connected Device Owners are Doing While Watching TV, USA





Media Engagement Rises With Screen Usage = 2x Higher for 4 Screen Users vs. Solo TV During Olympics

Average Minutes per Day Following the Olympics, by Device, 2012 Olympics Fans





More Screens = Consumers Get *More* Content in *Less* Time?

5 Hours of TV Screen Media

4 Hours of Content + 1 Hour of Commercials

5 Hours of Multiple Screen Media

VS.

Smartphone (35%) + TV (27%) + PC (26%) + Tablet (12%)

>5 Hours of Content?



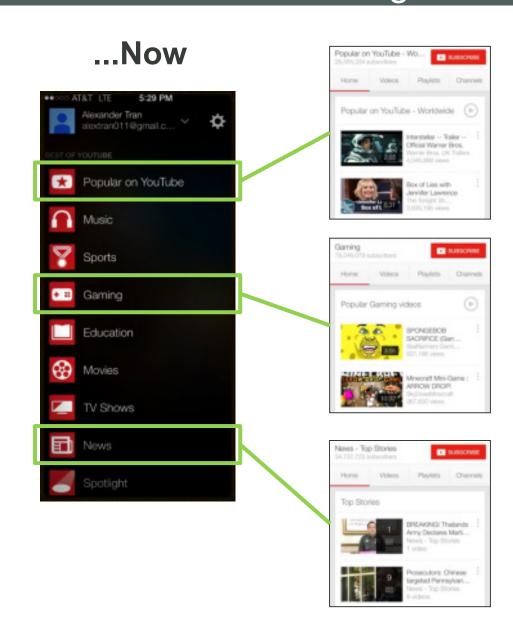
[Traditional] Remote Controls Disappearing



Re-Imagining Remote Controls = The 'Now' = A New IP-Enabled Search Engine

Then...





As Smartphones Eclipsed Feature Phones...

Smart TV Adapters + Smart TVs =
Game Changers for
Internet-Enablement of
Screens (Big & Small)



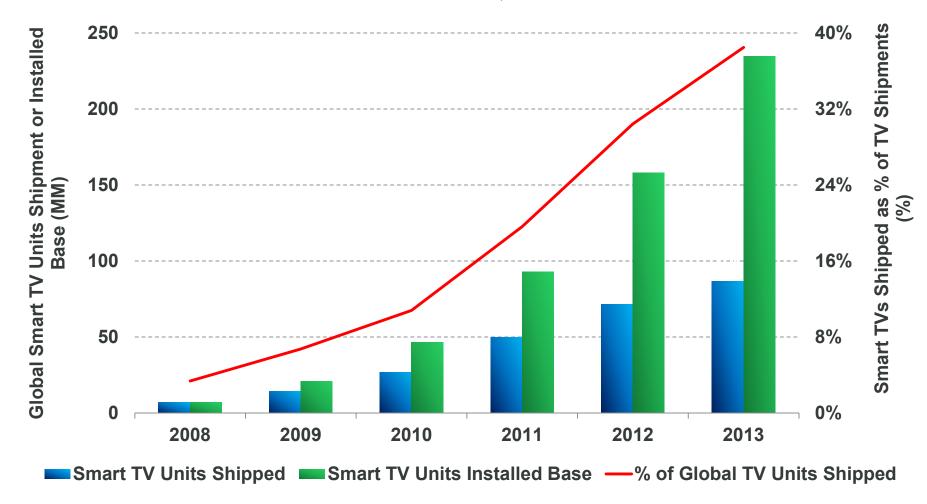
Smart TV Adapters = Tens of Millions of Users Google Chromecast + Amazon Fire TV Raise Bar

	Company / Product	Launch Date
New	Amazon Fire TV	4/14
	Google Chromecast	7/13
	Roku	5/08
	Apple TV	1/07
Old	Nintendo Wii Nintendo Wii U	12/06
	Sony PlayStation 3 Sony PlayStation 4	11/06
	Microsoft Xbox 360 Microsoft Xbox One	11/05



Smart TV Shipments = Rising % of TVs Shipped... 39% = 2013...Still <10% Installed Base

Smart TV Units Shipped, Installed Base, & Shipment Mix 2008 – 2013, Global





Apps Replacing Channels



Linear TV Channels Increasingly = On-Demand Apps

ESPN

 34MM (52%) ESPN digital users access ESPN just on smartphones / tablets = 48% of time spent on ESPN digital properties, 4/14







BBC

- 234MM requests for TV programs on iPlayer in 2/14, +21% Y/Y
- 46% of requests from mobile / tablet vs. 35% Y/Y





HBO

1,000+ hours of video content





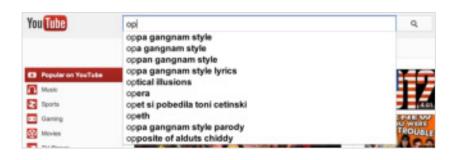


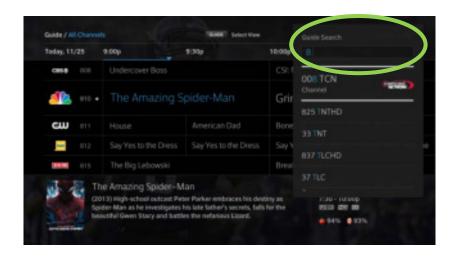
Internet = *Evolved* from Directory to Search / Apps... TV = *Evolving* from Directory to Apps / Search

TV Guide



YouTube - Search Bar Comcast - X1 Guide







There's a Bevy of New Channels on Premier Distribution Network YouTube...

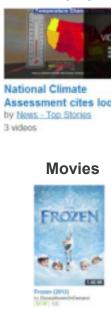
Of Which 40% (& Rising) # of Users Are Mobile

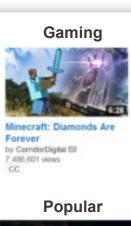


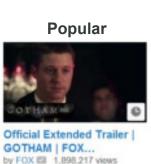
YouTube Channels = Huge Reach + Growth

Channel	Subscribers (MM)	Y/Y Growth (%)	
Music	85	166%	
Gaming	79	165%	
Sports	78	164%	
News	35	213%	
Popular	28	133%	
Spotlight	22	342%	
Movies	18	195%	
TV Shows	12	106%	
Education	10		

Music Demi Lovato - Let It Go (from "Frozen") [Official] by DemiLovatoVEVO IIII 151,068,172 views News 3 VIDEOS National Climate Assessment cites loomin... by News - Top Stories 3 videos









Modern Family

3 k subscribers

Sports



Top 10 Reign on Plays of the Playoffs: First Round by NBA Ell 114,323 views

Spotlight



Elon Musk: The Rocket Scientist Model for 'Iron... by TIME III 6,854 views

Education



3D Scanning at the Smithsonian by Smithsonian III 66,457 views CC



Consumers Love Video – Long-Form & More / More Short-Form



Every New Medium -> New Stars...YouTube Top Videos = 6 - 26MM Subs...Top 10 Video Average Duration = ~7 Minutes

Video Game Commentator PewDiePie 26MM+ subscribers. +230% Y/Y



Comedy Duo Smosh 17MM+ subscribers. +81% Y/Y



Spanish Comedian HolaSoyGerman 17MM+ subscribers. +157% Y/Y



Comedian nigahiga 12MM+ subscribers. +50% Y/Y



Make-Up Artist Michelle Phan 6MM+ subscribers. +70% Y/Y



Style and Beauty Blogger Bethany Mota 6MM+ subscribers. +180% Y/Y



111

Consumers Loving Best Ads = The Art of Short-Form

#1 = Nike Football @ 49MM+ Views



#2 = Dove: Patches @ 20MM+ Views



#3 = Evian Spider Man @ 16MM+ Views



#4 = Castrol Footkhana @ 14MM+ Views



#5 = "Unsung Hero" (Thai Life) @ 12MM+ Views





Ads the Digital Way... Google TrueView = Game-Changer

YouTube's TrueView Ads = 'Cost-per View' Video Marketing

AdWords Dynamically Places Video Ad Content on Google / YouTube Users Can Skip

- Ads = Great Content Transformation
 potential from commercials users want to skip
 to short-form content users choose to watch
- Advertisers Win Better results as only pay for users who are engaged & watch video...improves direct click-through options with consumers
- Data As YouTube collects data on how users engage with ads, it continues to improve the user experience and advertiser ROI



Evian Baby & Me = Most Watched YouTube Ad Of 2013 = 87MM+ views





Fans Trump Audiences – Alex Carloss (YouTube)

An audience tunes in when they're told to, a fanbase chooses when and what to watch...

...An audience changes the channel when their show is over...

... A fanbase shares, comments, curates, creates...



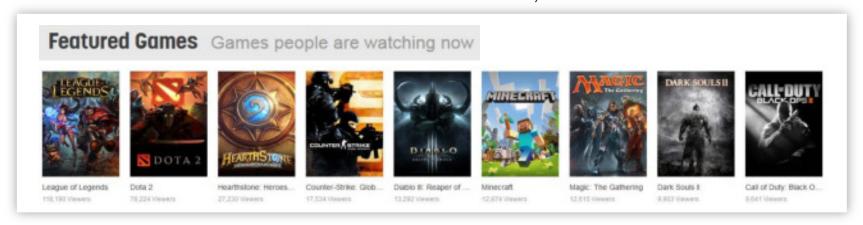
Consumers Voting for Social Video / TV



New Genre(s) of Video = 'Spectator Gaming'* – Players → Players / Active Spectators

Twitch

45MM MAUs (12/13) vs. 8MM Three Years Ago (7/11) 12B Minutes Watched / Month, +2x Y/Y 900K Broadcasters / Month, +3x Y/Y



Twitch = Top Live Video Streaming Site by Volume, USA, 4/14

	_	_
Rank	Site	Volume (%)
1	Twitch	44%
2	WWE	18%
3	Ustream	11%
4	MLB.com	7%
5	ESPN	6%

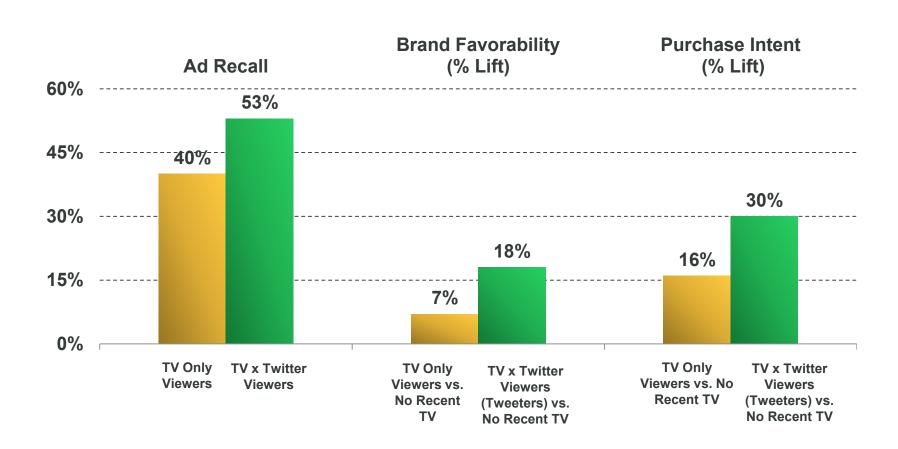


Social TV = Can Provide Advertiser Lift



TV + Twitter = Boosts Ad Impact

Impact of TV Ads on Viewers – TV with Twitter vs. TV without Twitter





Consumers Voting for Personalization



Netflix = Personalization...

A Father of Two



A Female Millennial



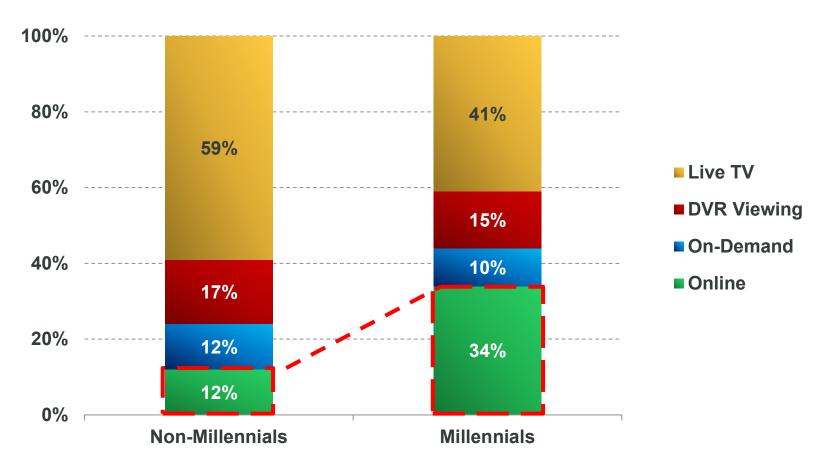


Younger Consumers Voting for On-Demand Video



Millennials = 34% of TV Time Online, $\sim 3x > Non-Millennials$

Distribution of Total TV Time Millennials vs. Non-Millennials, USA





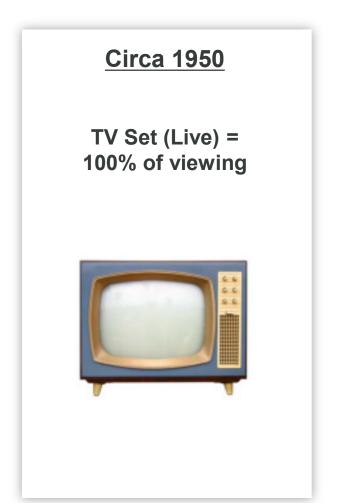
Internet TV Replacing Linear TV -

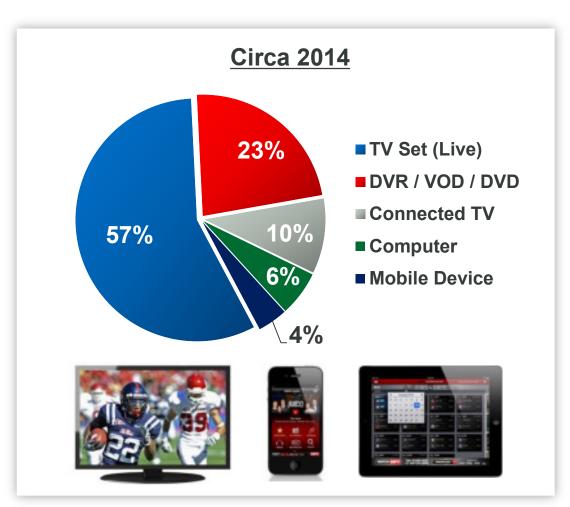
Early Stages of TV Golden Age With Epic Content Creation / Consumption / Curation / Distribution



Consumers Increasingly Expect to Watch TV Content... On Own Terms

Device Share of TV Content, USA, 1/14

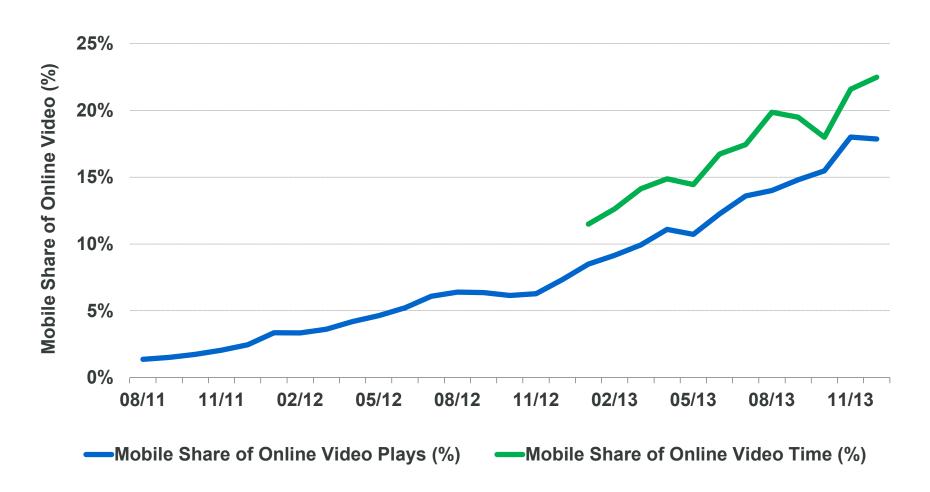






Mobile = More & More Video Consumption... 22% (+2x Y/Y) of Online Video Time Spent

Mobile Share of Online Video Plays and Time, 8/11 – 12/13, Global





Future of TV – Reed Hastings (Netflix CEO / Founder)

- 1) Screens Proliferating
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- 4) Internet TV Replacing Linear TV

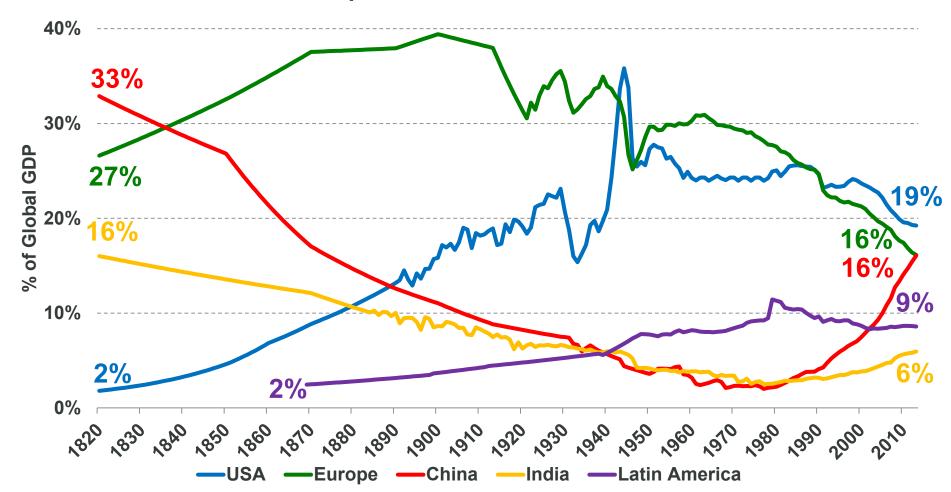


CHINA'S EPIC SHARE GAINS



Global GDP = China Rise Continues

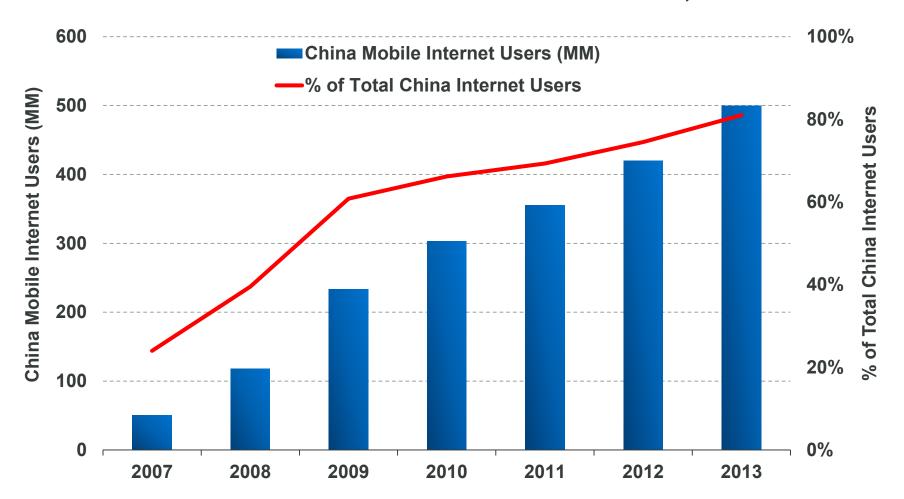
Percent of Global GDP, 1820 – 2013, USA vs. Europe vs. China vs. India vs. Latin America





500MM (80%) of China Internet Users = Mobile... More Critical Mass than Any Place in World

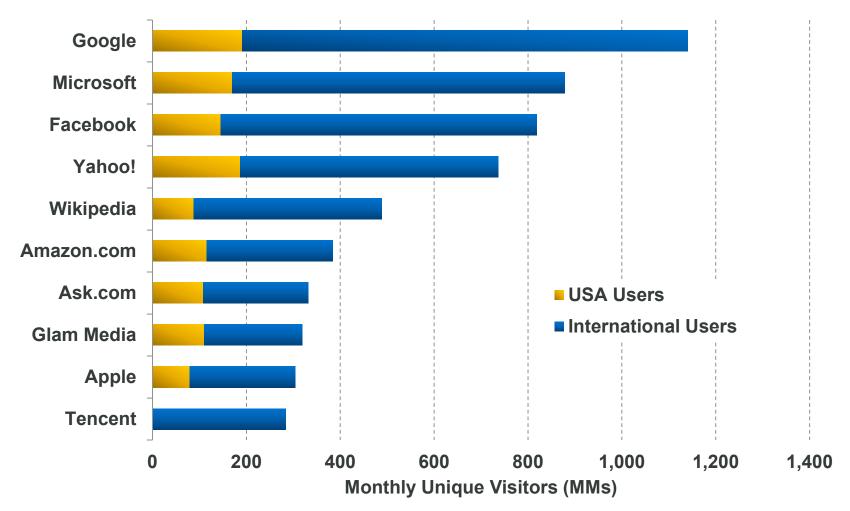
China Mobile Internet Users as % of Total Internet Users, 2007 – 2013





1/13 – 9 of Top 10 Global Internet Properties 'Made in USA'... 79% of Their Users Outside America

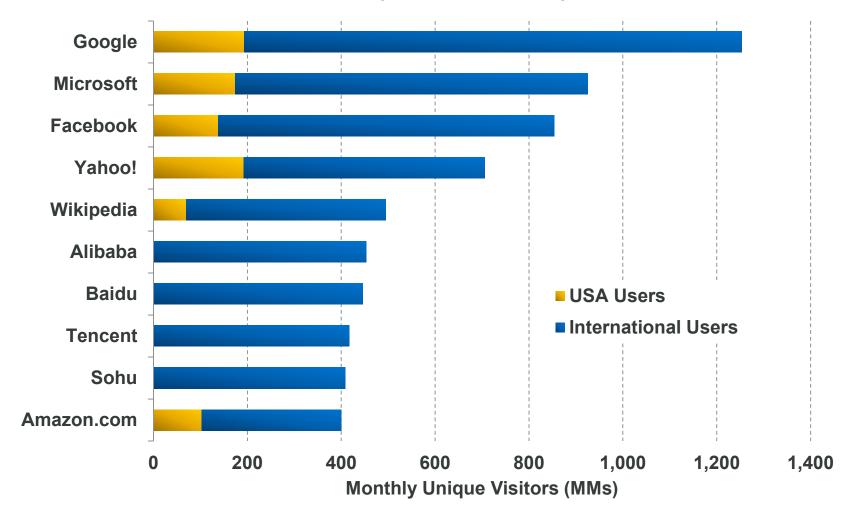
Top 10 Internet Properties by Global Monthly Unique Visitors, 1/13





3/14 – 6 of Top 10 Global Internet Properties 'Made in USA'... >86% of Their Users Outside America...China Rising Fast

Top 10 Internet Properties by Global Monthly Unique Visitors, 3/14





China = Mobile Commerce Innovation Leader

Source: Liang Wu, Hillhouse Capital*



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Tencent WeChat = 400MM Mobile Active Chat Users... Increasingly Using Payments + Commerce

WeChat 'My Bank Card' Page

Manage money / invest in money market funds via WeChat Payment

Find restaurants /
daily group buy deals
- powered by Dianping pay via WeChat Payment



Order taxi - powered by Didi - pay via WeChat Payment

New Year Lucky Money –
fun / social game to incentivize
users to link bank cards to
WeChat Payment...
5MM users used on
Chinese New Year Eve, 2014

Tencent WeChat Services = Virtual Assistant

WeChat Service Accounts = Interactive Accounts with Communication / CRM / Ordering Capability

Personal Banker

China Merchant Bank allows customers to check & repay balances and ask live questions via WeChat



Shopping Assistant

Mogujie / Meilishuo (fashion discovery & shopping sites) give customers tailored suggestions via WeChat



Private Chef

Hahajing (a chain deli restaurant) allows customers to order & deliver food via WeChat



Grocery Getter

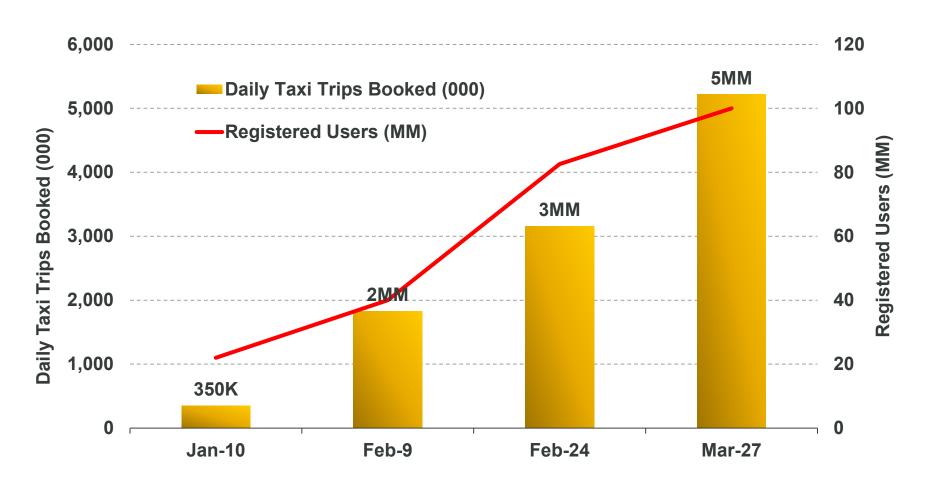
Xiaonongnv (a grocery delivery startup) prepares fresh groceries & delivers to your address via WeChat





Didi Taxi – 100MM+ Users = 5MM+ Daily Rides, +15x in 77 Days... Driven by WeChat Payment Integration & Subsidy*

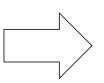
Didi Taxi, Daily Taxi Trips Booked, 1/10/2014 - 3/27/2014





Alipay Yu'E Bao – Mobile Money Market Fund Launch... Drove \$89B AUM* in 10 Months

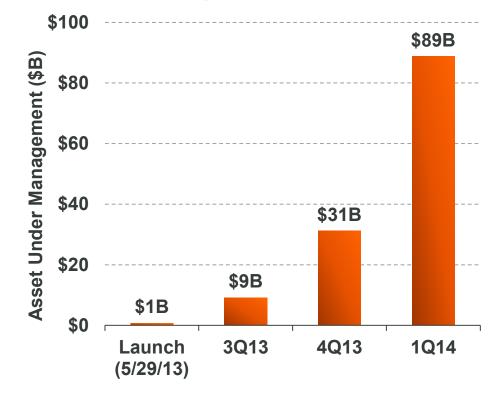
- Simple, fun-to-use mobile product
- Built on top of Alipay the most popular online payment platform in China with 160MM+ accounts.
- Technology enables same-day settlement.



- \$0 → \$89B asset under management in 10 months
- Top 3 global money market fund by assets under management (AUM)

Alipay Yu'E Bao Assets Under Management, 5/13 to C1:14







PUBLIC COMPANY TRENDS



Global Internet Public Market Leaders = Apple / Google / Facebook / Amazon / Tencent...

Rank	Company	Region	2014 Market Value (\$B)	2013 Revenue (\$MM)
1	Apple	USA	\$529	\$173,992
2	Google	USA	377	59,825
3	Facebook	USA	157	7,872
4	Amazon	USA	144	74,452
5	Tencent	China	132	9,983
6	еВау	USA	66	16,047
7	Priceline	USA	63	6,793
8	Baidu	China	59	5,276
9	Yahoo!	USA	35	4,680
10	Salesforce.com	USA	33	4,071
11	JD.com	China	29	11,454
12	Yahoo! Japan	Japan	25	3,641
13	Netflix	USA	24	4,375
14	Naver	Korea	23	2,190
15	LinkedIn	USA	19	1,529
16	Twitter	USA	18	665
17	Rakuten	Japan	16	4,932
18	Liberty Interactive	USA	14	11,252
19	TripAdvisor	USA	13	945
20	Qihoo 360	China	11	671
Total			\$1,787	\$404,644



...Global Internet Leaders = Intense M&A + Investment Activity

Company / Market Cap (\$B)	Volume, 2012- 2014YTD (\$B)	Select Transactions, 2012-2014YTD					
Google \$377B	\$6B (M&A)	DeepMind	\$400MM (1/14)	Nest	\$3B (1/14)	Waze	\$1B (6/13)
	\$3B* (Investments)	Cloudera	\$160MM* (3/14)	DocuSign	\$100MM* (3/14)	Uber	\$258MM (8/13)
Facebook \$157B	\$24B (M&A)	Oculus	\$2B (3/14)	WhatsApp	\$19B+ (2/14)	Instagram	\$1B (4/12)
Tencent \$132B	\$7B* (Investments)	JD.com	\$3B (3/14)	CJ Games	\$500MM (3/14)	Activision Blizzard	\$429MM (7/13)
Alibaba TBD	\$5B (M&A)	ChinaVision	\$800MM (3/14)	AutoNavi	\$1B+ (2/14)		
	\$5B* (Investments)	Youku Tudou	\$1B (4/14)	Weibo	\$1B (4/13)		



ONE MORE THING(S)...



From One Extreme To the Other...



Live Streaming = Oculus Rift-Enabled Drones?





Re-Imagining Global Access to Internet? 😊





Thanks...

KPCB Partners

Especially Alex Tran / Cindy Cheng / Alex Kurland who helped take spurts of ideas and turn them into something we hope is presentable / understandable...

Participants in Evolution of Internet Connectivity

From creators to consumers who keep us on our toes 24x7...

Walt & Kara

For continuing to do what you do so well...



RAN OUTTA TIME THOUGHTS / APPENDIX



IMMIGRATION UPDATE

REPORT: http://www.kpcb.com/file/kpcb-immigration-in-america-the-shortage-of-high-skilled-workers



Global Economies / People = Increasingly Connected / Co-Dependent







5%

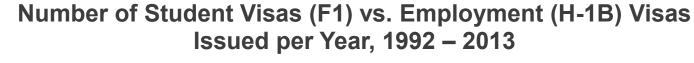
60% of Top 25 Tech Companies Founded by 1st and 2nd Generation Americans = 1.2MM Employees, 2013

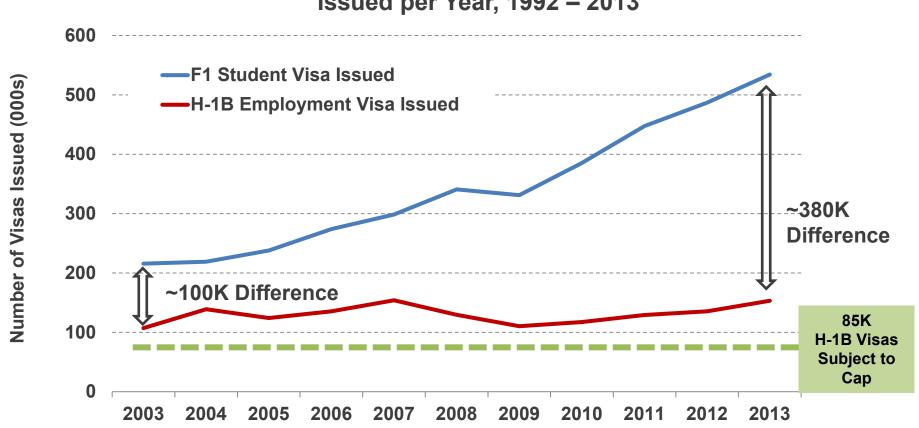
Founders / Co-Founders of Top 25 USA Public Tech Companies, Ranked by Market Capitalization

Rank	Company	Mkt Cap (\$MM)	LTM Rev (\$MM)	Employees	1st or 2nd Gen Immigrant Founder / Co-Founder	Generation
1	Apple	\$529,000	\$176,035	80,300	Steve Jobs	2nd-Gen, Syria
2	Google	376,536	62,294	47,756	Sergey Brin	1st-Gen, Russia
3	Microsoft	331,408	83,347	99,000		
4	IBM	188,205	98,827	431,212	Herman Hollerith	2nd-Gen, Germany
5	Oracle	187,942	37,902	120,000	Larry Ellison / Bob Miner	2nd-Gen, Russia / 2nd-Gen, Iran
6	Facebook	157,448	8,916	6,337	Eduardo Saverin	1st-Gen, Brazil
7	Amazon.com	143,683	78,123	117,300	Jeff Bezos	2nd-Gen, Cuba
8	Qualcomm	134,827	25,712	31,000	Andrew Viterbi	1st-Gen, Italy
9	Intel	130,867	52,892	107,600	*	
10	Cisco	125,608	47,202	75,049		
11	eBay	65,927	16,561	33,500	Pierre Omidyar	1st-Gen, France
12	Hewlett-Packard	63,903	111,820	317,500	William Hewlett	
13	Priceline	62,767	7,133	9,500	Jay Walker	
14	EMC	54,458	23,314	63,900	Roger Marino	2nd-Gen, Italy
15	Texas Instruments	49,920	12,303	32,209	Cecil Green / J. Erik Jonsson	1st-Gen, UK / 2nd-Gen, Sweden
16	VMware	41,549	5,376	14,300	Edouard Bugnion	1st-Gen, Switzerland
17	Automatic Data Processing	38,014	11,958	60,000	Henry Taub	2nd-Gen, Poland
18	Yahoo!	35,258	4,673	12,200	Jerry Yang	1st-Gen, Taiwan
19	salesforce.com	32,783	4,405	13,300		
20	Adobe Systems	32,004	4,047	11,847		
21	Cognizant Technology	29,583	9,245	171,400	Francisco D'souza / Kumar Mahadeva	1st-Gen, India** / 1st-Gen, Sri Lanka
22	Micron	29,253	13,310	30,900		
23	Netflix	24,120	4,621	2,327		
24	Intuit	22,595	4,426	8,000		
25	Sandisk	21,325	6,341	5,459	Eli Harari	1st-Gen, Israel
Total F	ounded by 1st or 2nd Gen Immigrants	\$2,053,676	\$577,580	1,226,873		



USA Sending More Qualified Foreign Students Home Post Graduation – 3.5x Rise in Student & Employment Visa Issuance Gap Over Decade







USA, INC. UPDATE

REPORT: http://www.kpcb.com/usainc/USA_Inc.pdf

VIDEO: http://www.kpcb.com/insights/2011-usa-inc-video



USA Inc. Income Statement, F2013 – Revenue (Taxes) +13%...Expenses -2%...-24% Net Margin

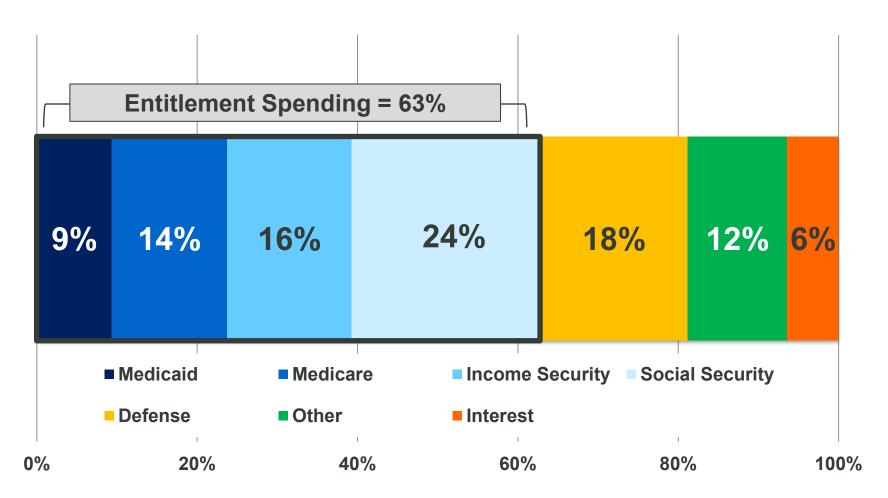
USA Inc. Profit & Loss Statement, F1998 / F2003 / F2008 / F2013

	F1998	F2003	F2008	F2013	Comments
Revenue (\$B) Y/Y Growth	\$1,722 9%	\$1,783 -4%	\$2,524 -2%	\$2,775 13%	On average, revenue grew 3% Y/Y over the past 15 years
Individual Income Taxes* % of Revenue	\$829 48%	\$794 <i>45%</i>	\$1,146 <i>45%</i>	\$1,316 <i>47%</i>	Largest driver of revenue
Social Insurance Taxes % of Revenue	\$572 33%	\$713 <i>40%</i>	\$900 <i>36%</i>	\$948 <i>34%</i>	Payroll tax on Social Security & Medicare
Corporate Income Taxes* % of Revenue	\$189 <i>11%</i>	\$132 <i>7%</i>	\$304 <i>12%</i>	\$274 10%	Fluctuates significantly with economic conditions
Other <i>% of Revenue</i>	\$133 8%	\$144 <i>8%</i>	\$174 <i>7%</i>	\$237 9%	Includes estate & gift taxes / duties & fees; relatively stable
Expense (\$B) Y/Y Growth	\$1,652 3%	\$2,160 7%	\$2,983 9%	\$3,455 -2%	On average, expense grew 5% Y/Y over the past 15 years
Entitlement / Mandatory % of Expense	\$870 53%	\$1,168 <i>54%</i>	\$1,582 <i>53%</i>	\$2,049 59%	Significant increase owing to aging population and rising healthcare costs
Non-Defense Discretionary % of Expense	\$273 17%	\$434 20%	\$518 <i>17%</i>	\$551 <i>16%</i>	Includes education / law enforcement / transportation / general government
"One-Time" Items % of Expense	 	 	\$14 <i>0%</i>	 	Includes discretionary spending on TARP, GSEs, and economic stimulus
Defense % of Expense	\$268 16%	\$405 19%	\$616 <i>21%</i>	\$633 18%	Significant increase owing to on-going War on Terror
Net Interest on Public Debt % of Expense	\$241 15%	\$153 <i>7%</i>	\$253 <i>8%</i>	\$221 <i>6%</i>	Decreased owing to historic low interest rates
Surplus / Deficit (\$B) Net Margin (%)	\$69 4%	-\$377 -21%	-\$459 -18%	-\$680 -24%	USA Inc. median net margin between 1998 & 2013 = -16%



Where Your Tax Dollars Go — Entitlements as % of Government Spending = 63% vs. 59% Y/Y

% of USA Federal Government Spending, 2013



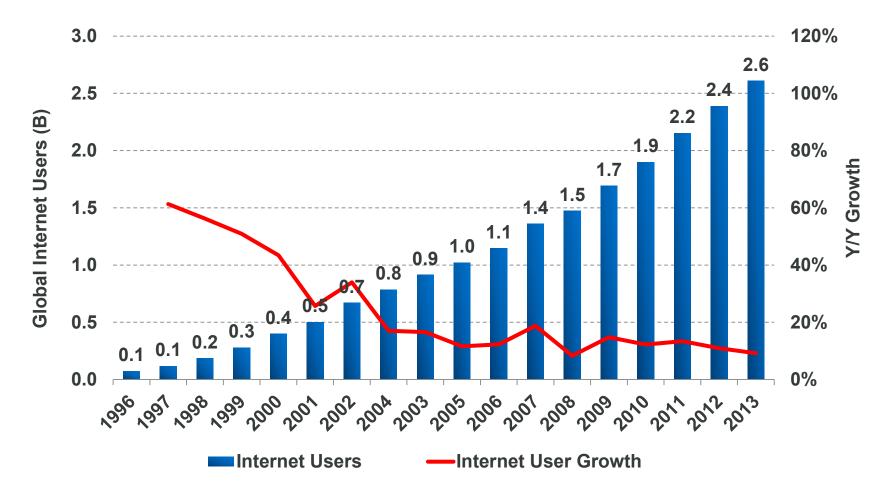


...KEY INTERNET TRENDS



Internet User Growth = +9% in 2013 vs. +11% in 2012 = Solid, But Slowing

Global Internet Users, 1996 – 2013 (B)





Established 'Big' Internet Markets (China / USA / Japan / Brazil / Russia) = +7% Growth in 2013 vs. 8% Y/Y = Slowing, Past / Near 50% Penetration

Countries with Internet Penetration >45%, 2013

		2013 Internet	2013 Internet	2012 Internet	Population	Total
Rank	Country	Users (MMs)	User Growth	User Growth	Penetration	Population (MMs)
1	China	618	10%	10%	46%	1,350
2	USA	263	2	2	83	316
3	Japan	101	0	1	79	127
4	Brazil	100	12	12	50	201
5	Russia	76	9	14	53	143
6	Germany	68	1	1	84	81
7	United Kingdom	55	1	3	87	63
8	France	55	5	4	83	66
9	Iran	45	16	19	56	80
10	South Korea	41	1	0	84	49
11	Turkey	36	6	9	45	81
12	Italy	36	2	6	58	61
13	Spain	34	7	3	72	47
14	Canada	30	5	4	87	35
15	Poland	25	0	4	65	38
	Top 15	1,583	6%	7%	58%	2,739
	World	2,609	9%	11%	37%	7,098



'Big' Internet Markets (India / Indonesia / Nigeria / Mexico / Philippines) = +20% Growth in 2013 = Strong, Material Penetration Upside

Countries with Internet Penetration ≤45%

		2013 Internet	2013 Internet	2012 Internet	Population	Total
Rank	Country	Users (MMs)	User Growth	User Growth	Penetration	Population (MMs)
1	India	154	27%	36%	13%	1,221
2	Indonesia	71	13	15	28	251
3	Nigeria	57	19	21	33	173
4	Mexico	46	11	14	38	119
5	Philippines	38	27	18	36	106
6	Egypt	38	13	29	44	85
7	Vietnam	37	14	16	39	92
8	South Africa	20	20	41	41	49
9	Pakistan	19	12	14	10	193
10	Thailand	18	12	6	27	67
11	Ukraine	15	17	22	34	45
12	Kenya	14	17	105	32	44
13	Venezuela	13	11	9	44	28
14	Peru	11	7	5	38	30
15	Uzbekistan	10	22	52	37	29
	Top 15	560	18%	24%	22%	2,532
	World	2,609	9%	11%	37%	7,098



Established 'Big' Smartphone Markets (USA / Japan / UK / Germany / Korea) = +17% Growth in 2013 = Slowing, Well Past 50% Penetration

Markets with >45% Penetration

		2013 Smartphone	2013 Smartphone	Population	Total	2014E Smartphone
Rank	Country	Subs (MMs)	Sub Growth	Penetration	Population (MMs)	Sub Growth
1	USA	188	21%	59%	316	12%
2	Japan	99	5	78	127	5
3	UK	43	18	68	63	12
4	Germany	40	34	49	81	31
5	Korea	38	18	79	49	5
6	France	33	29	50	66	21
7	Saudi Arabia	30	20	110	27	15
8	Poland	22	29	57	38	24
9	Australia	19	20	85	22	12
10	Canada	18	21	53	35	15
11	Malaysia	16	23	54	30	21
12	Netherlands	12	18	69	17	13
13	Taiwan	11	23	49	23	27
14	Sweden	9	10	94	10	4
15	UAE	9	20	160	5	14
	Top 15	588	19%	65%	910	13%
	World	1,786	28%	25%	7,098	24%



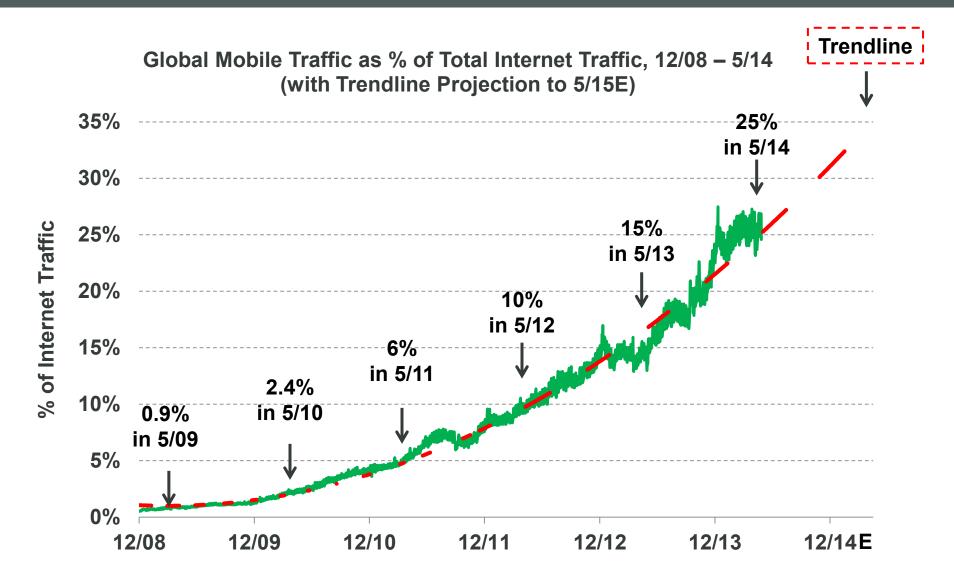
Developing 'Big' Smartphone Markets (China / India / Brazil / Indonesia / Russia) = +32% Growth in 2013 = Strong, Material Penetration Upside Remains

Markets with ≤45% Penetration

		2013 Smartphone	2013 Smartphone	Population	Total	2014E Smartphone
Rank	Country	Subs (MMs)	Sub Growth	Penetration	Population (MMs)) Sub Growth
1	China	422	26%	31%	1,350	19%
2	India	117	55	10	1,221	45
3	Brazil	72	38	36	201	30
4	Indonesia	48	42	19	251	36
5	Russia	46	30	33	143	27
6	Mexico	22	49	19	119	39
7	Egypt	21	41	25	85	36
8	Italy	21	33	34	61	41
9	Spain	21	20	44	47	17
10	Philippines	20	43	19	106	36
11	Nigeria	20	43	12	173	39
12	South Africa	20	32	41	49	27
13	Thailand	18	27	27	67	24
14	Turkey	18	32	22	81	28
15	Argentina	17	40	41	43	34
	Top 15	905	33%	23%	3,996	28%
	World	1,786	28%	25%	7,098	24%



Mobile Traffic as % of Global Internet Traffic = Growing >1.5x per Year & Likely to Maintain Trajectory or Accelerate





...PUBLIC COMPANY TRENDS



Financial Philosophy – Michael Marks (Stanford GSB)

- 1) Three Ways to Get Capital into Company Sell stock, borrow money, earn it. Earn it is best!
- 2) Balance Sheets Matter Without a balance sheet, it's hard to understand where a company stands.
- 3) Great Companies Grow Revenue, Make Profits and Invest for Future Companies that do just 2 of 3 are signing up for being just 'OK,' not 'great.'
- 4) Companies Learn to Make Money or Not Companies that make money generally continue to do so, companies that don't make money generally continue that also. It becomes core to 'culture.'



Tech Companies = Top 1 or 2 Sector by Market Cap in S&P500 for Nearly 2 Decades

20 Years Ago:

Dec 1994 - S&P500 = \$3.2T

Peak of NASDAQ:

Mar 2000 – S&P500 = \$11.7T

Today:

May 2014 - S&P500 = \$17.4T

Sector	Weight	Largest Companies
CONS. STAPLES	14%	COCA-COLA ALTRIA
CONS. DISC.	13%	MOTORS LIQUIDATION FORD
INDUSTRIALS	13%	GENERAL ELECTRIC 3M
FINANCIALS	11%	AIG FANNIE MAE
TECHNOLOGY	11%	IBM MICROSOFT
HEALTHCARE	10%	MERCK JOHNSON & JOHNSON
ENERGY	9%	EXXON MOBIL
TELECOM	8%	SOUTHWESTERN BELL GTE
MATERIALS	7%	DUPONT DOW CHEMICAL
UTILITIES	4%	SOUTHERN COMPANY DUKE ENERGY

Sector	Weight	Largest Companies
TECHNOLOGY	35%	MICROSOFT CISCO
FINANCIALS	13%	CITIGROUP AIG
CONS. DISC.	10%	TIME WARNER HOME DEPOT
HEALTHCARE	10%	MERCK PFIZER
INDUSTRIALS	8%	GENERAL ELECTRIC TYCO
TELECOM	7%	SOUTHWESTERN BELL AT&T
CONS. STAPLES	7%	WAL-MART COCA-COLA
ENERGY	5%	EXXON MOBIL CHEVRON
MATERIALS	2%	DUPONT ALCOA
UTILITIES	2%	DUKE ENERGY AES

Sector	Weight	Largest Companies
Sector	weight	Largest Companies
TECHNOLOGY	19%	APPLE GOOGLE
FINANCIALS	16%	WELLS FARGO JPMORGAN CHASE
HEALTHCARE	13%	JOHNSON & JOHNSON PFIZER
CONS. DISC.	12%	AMAZON.COM WALT DISNEY
INDUSTRIALS	11%	GENERAL ELECTRIC UNITED TECHNOLOGIES
CONS. STAPLES	11%	WAL-MART PROCTOR & GAMBLE
ENERGY	10%	EXXON MOBIL CHEVRON
MATERIALS	3%	DUPONT MONSANTO
UTILITIES	3%	DUKE ENERGY NEXTERA ENERGY
TELECOM	2%	VERIZON AT&T



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