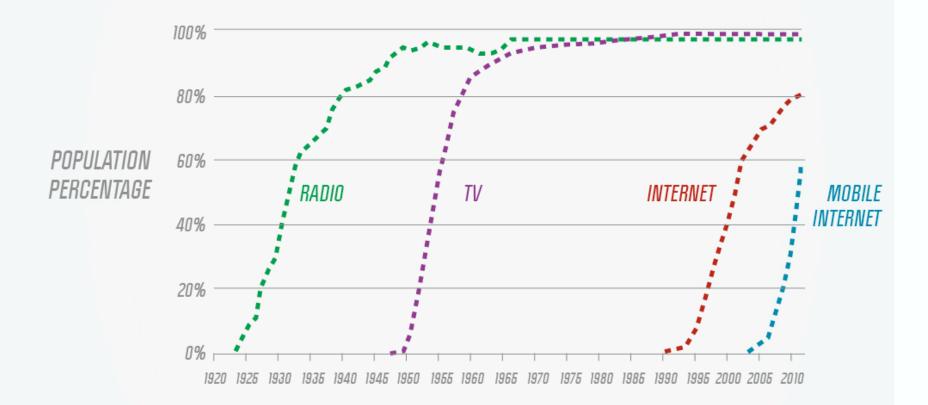
THE RELATIONSHIP BETWEEN FASTER MOBILE SITES AND BUSINESS KPIS

CASE STUDIES FROM THE MOBILE FRONTIER

JOSHUA BIXBY PRESIDENT & CO-FOUNDER STRANGELOOP

www.strangeloopnetworks.com www.webperformancetoday.com

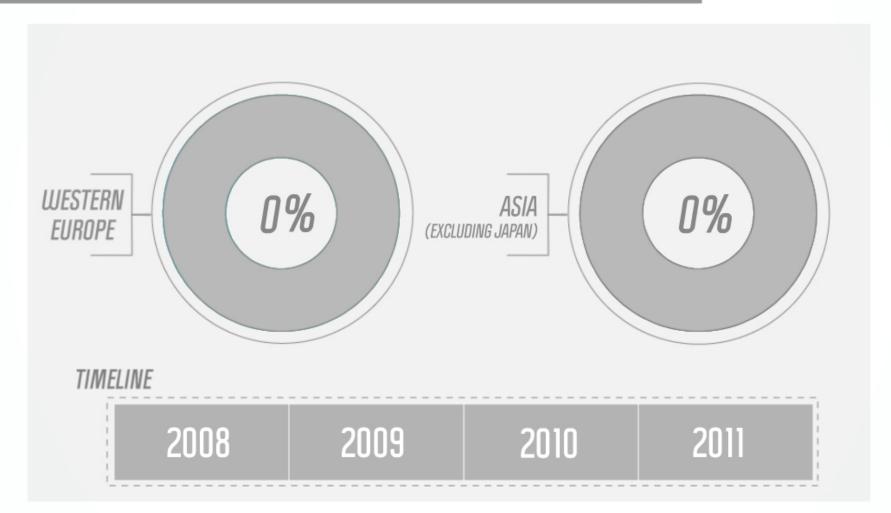
TECHNOLOGY ADOPTION MEASURED BY POPULATION PENETRATION



SOURCE: Broadcasting & Cable Yearbook 1998, World Bank, Morgan Stanley Research, Mary Meeker



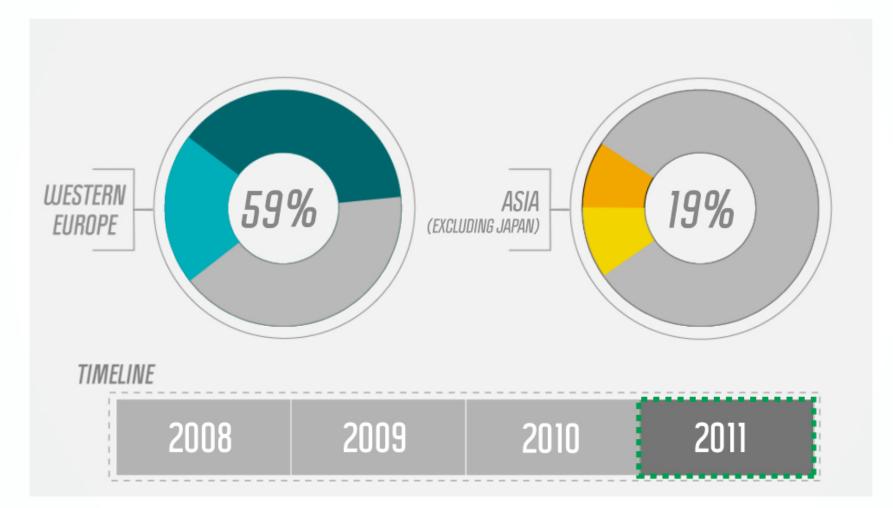
SMARTPHONE SHIPMENTS AS % OF TOTAL MOBILE SHIPMENTS



SOURCE: Data per Ehud Gelblum, Morgan Stanley Research, Mary Meeker



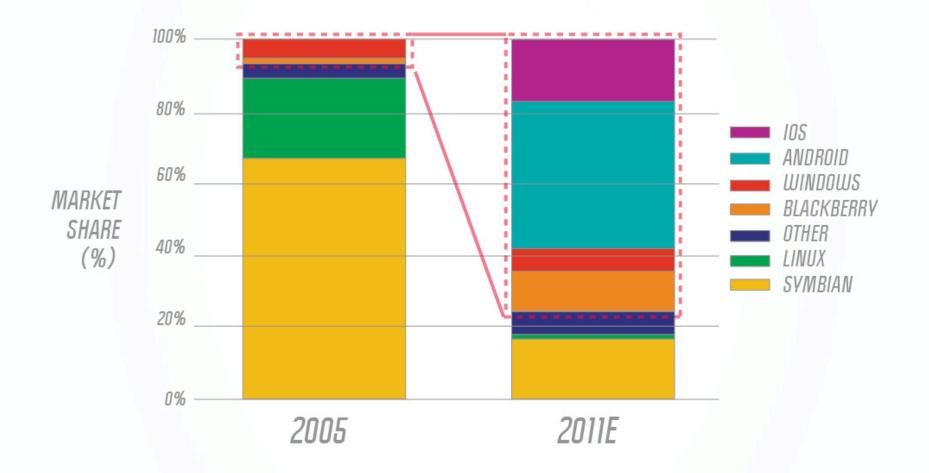
SMARTPHONE SHIPMENTS AS % OF TOTAL MOBILE SHIPMENTS



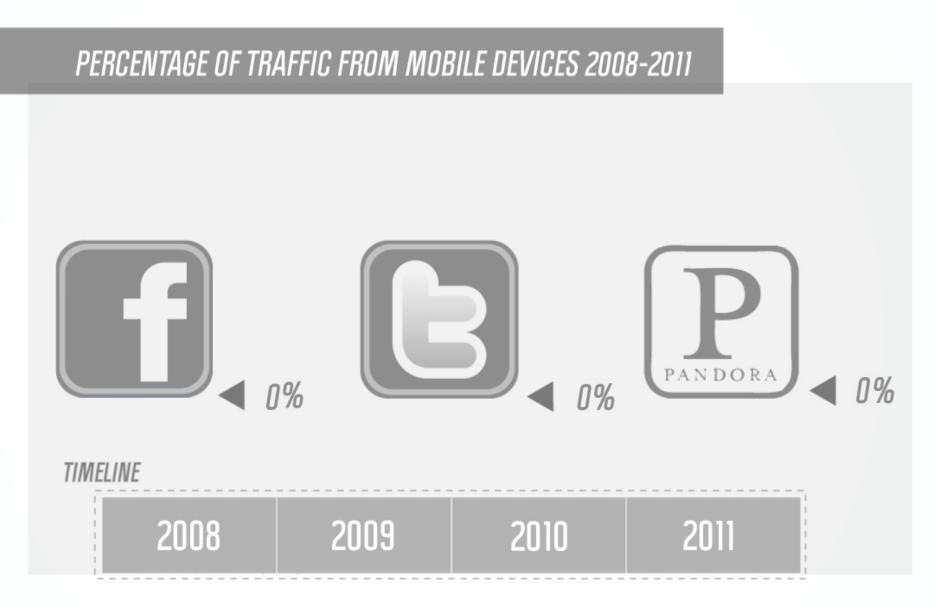
SOURCE: Data per Ehud Gelblum, Morgan Stanley Research, Mary Meeker



SMART PHONE OPERATING SYSTEM MARKET SHARE 2005 vs. 2011E

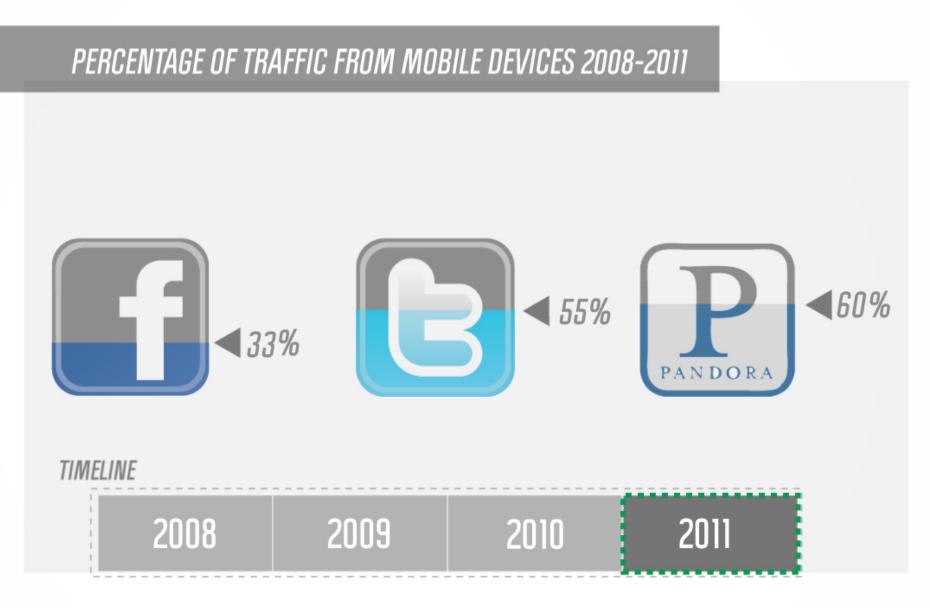


SOURCE: Morgan Stanley Research, Gartner, Mary Meeker



SOURCE: Pandora S1, Twitter, Facebook, Mary Meeker.





SOURCE: Pandora S1, Twitter, Facebook, Mary Meeker.

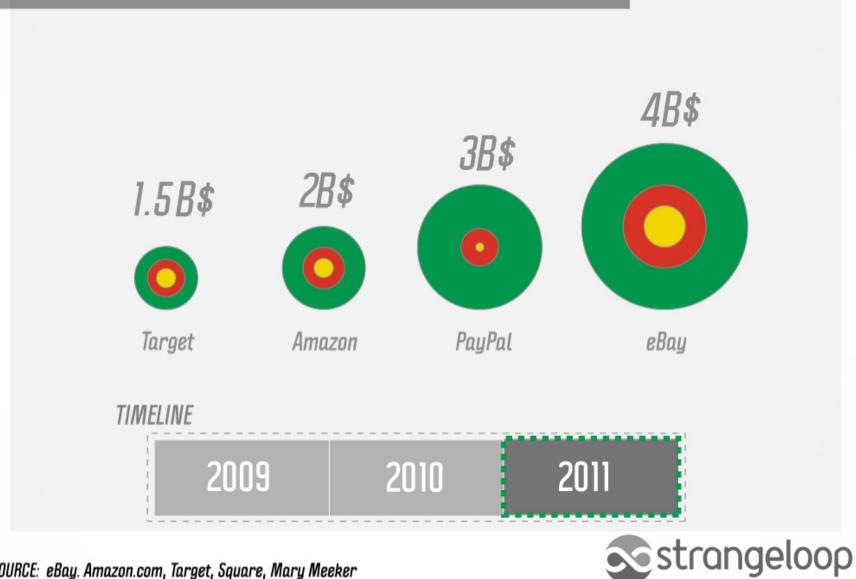




SOURCE: eBay. Amazon.com, Target, Square, Mary Meeker

www.strangeloopnetworks.com

MOBILE SALES or PAYMENT VOLUME



SOURCE: eBay. Amazon.com, Target, Square, Mary Meeker

www.strangeloopnetworks.com

REAL WORLD CASE STUDIES



Data collection and experimentation

Real end user monitoring

- Google Analytics
- Real end user monitoring
- Latency and bandwidth checks
- Experimentation platform
- Big data



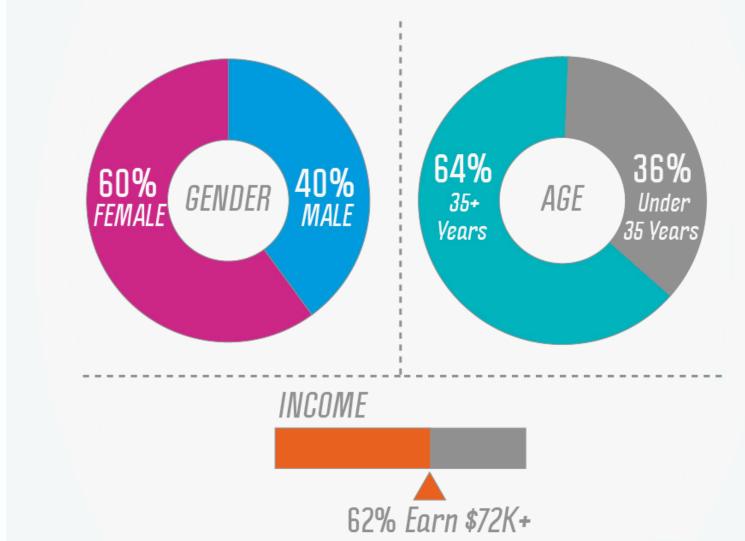
Retail customer

COMPANY BACKGROUND

- Top 200 Internet Retailer site
- US based
- Target geography: US and Europe
- \$3 billion in revenue
- 30,000 employees

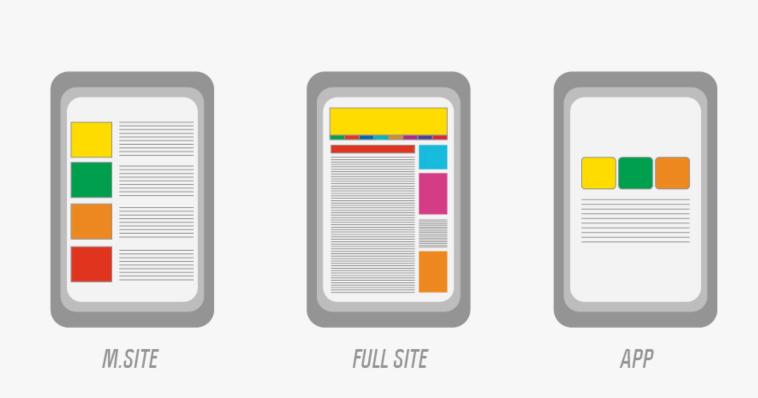


SHOPPER PROFILE



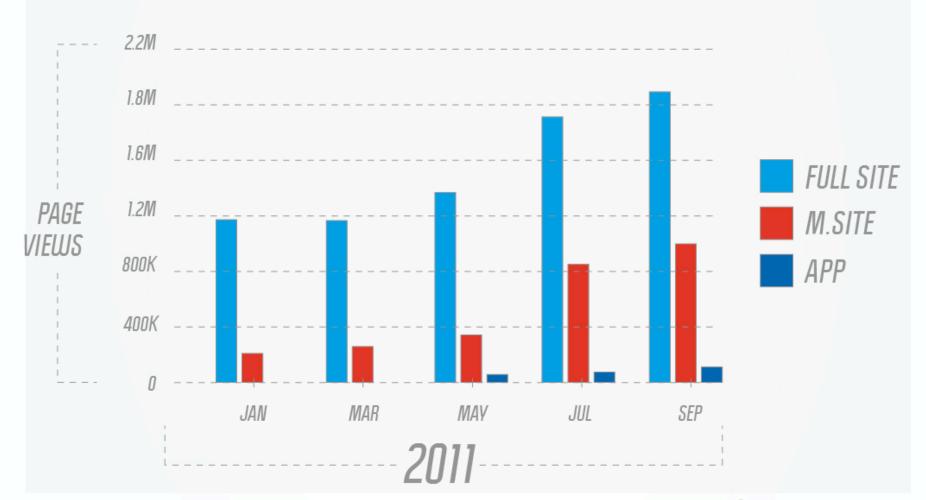


MOBILE PRESENCE





MOBILE TRAFFIC SOURCE







FOR EVERY \$100 SPENT ONLINE

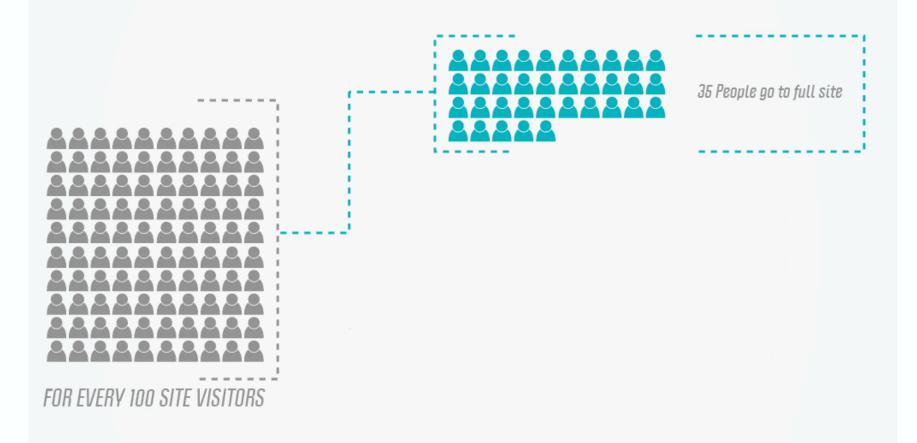






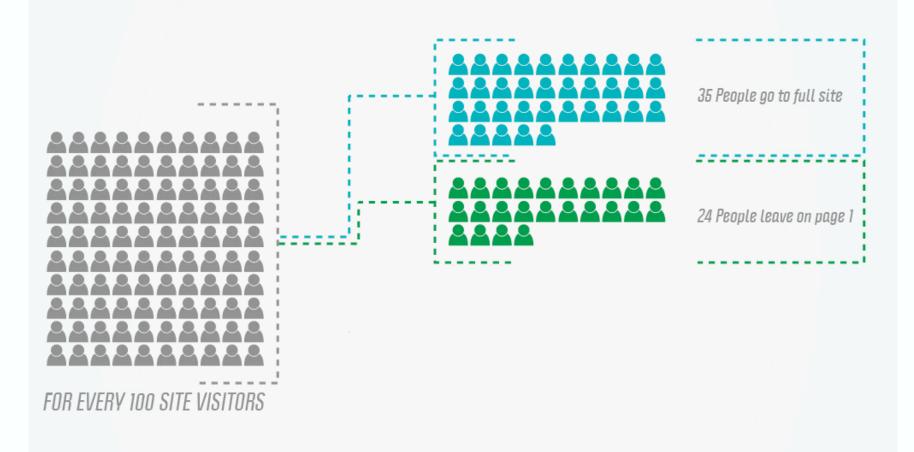






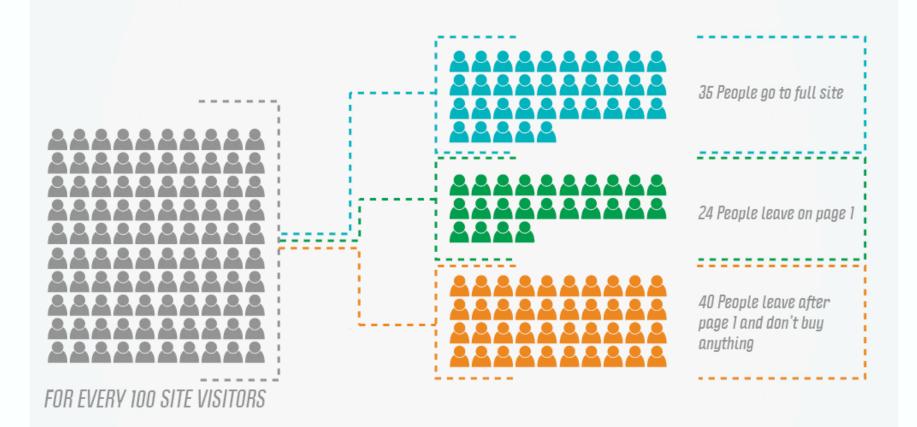


M.SITE TRAFFIC



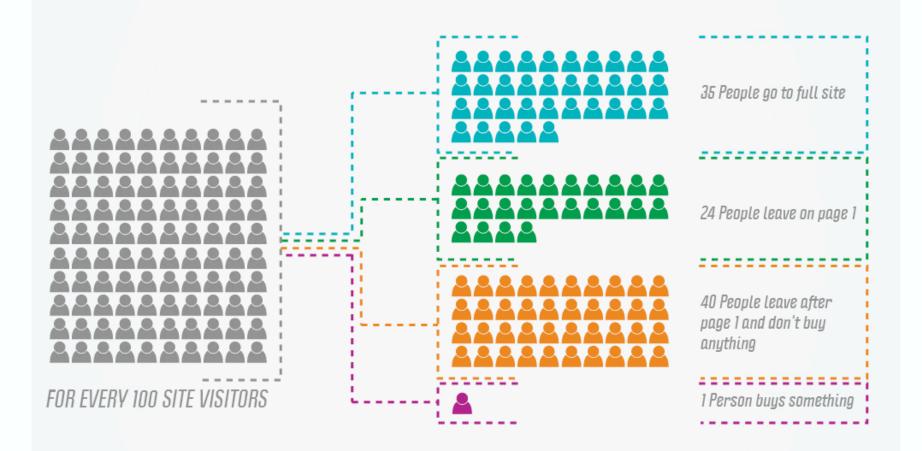


M.SITE TRAFFIC

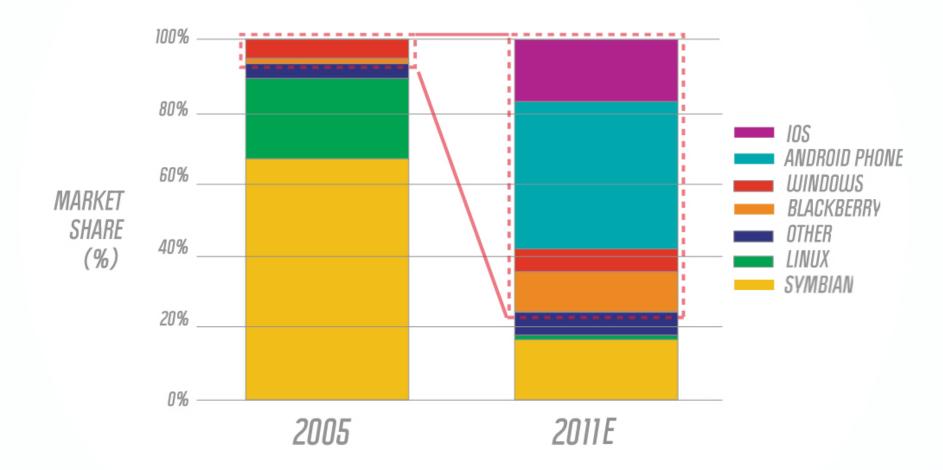




M.SITE TRAFFIC



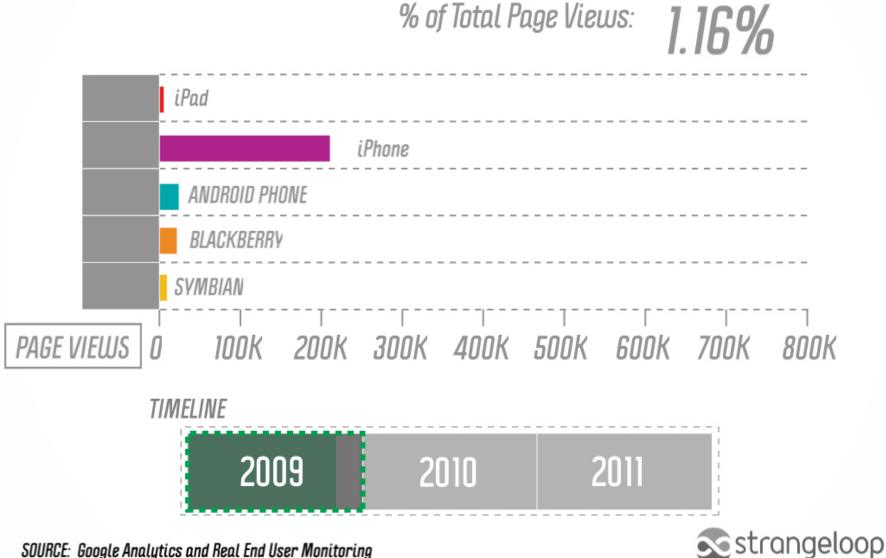
SMART PHONE OPERATING SYSTEM MARKET SHARE 2005 vs. 2011E





SOURCE: Morgan Stanley Research, Gartner, Mary Meeker

PAGE VIEWS BY MOBILE DEVICE



PAGE VIEWS BY MOBILE DEVICE

0/ of Total Daga Viewa

==0/

		% UJ IULUL F		.51%
				iPad
			iPhone	
			ANDROID PHONE	
BLA	CKBERRY			
SYM	BIAN			
PAGE VIEWS 0		300K 400K		
TIMEL	INE			
	2009	2010	2011	
SOURCE: Google Analytics ar	Strangeloop			

% PAGE VIEWS: CUSTOMER 1 - OCT 2011

	JS Based Analytics	Log Based Analytics	
iPad	46.46%	44.47%	
Android Phone	28.72%	28.28%	
iPhone	24.26%	24.36%	
Blackberry	0.52%	2.47%	
Symbian	0.04%	0.43%	



HTML DELAY EXPERIMENT

GOAL

Determine impact of server delays
METHODOLOGY

- Delay before sending HTML page
- Different experiments with different delays
- Small % of traffic
- Monitor negative impact



SOURCE: ENTER SOURCE HERE

HTML DELAY EXPERIMENT RESULTS

	BOUNCE RATE	CONVERSION RATE	CART SIZE	PAGE VIEWS
200 ms	-	-	-	-1.2%
500 ms	-4.7%	-1.9%	_	-5.7%
1000 ms	-8.3%	-3.5%	-2.1%	-9.4%

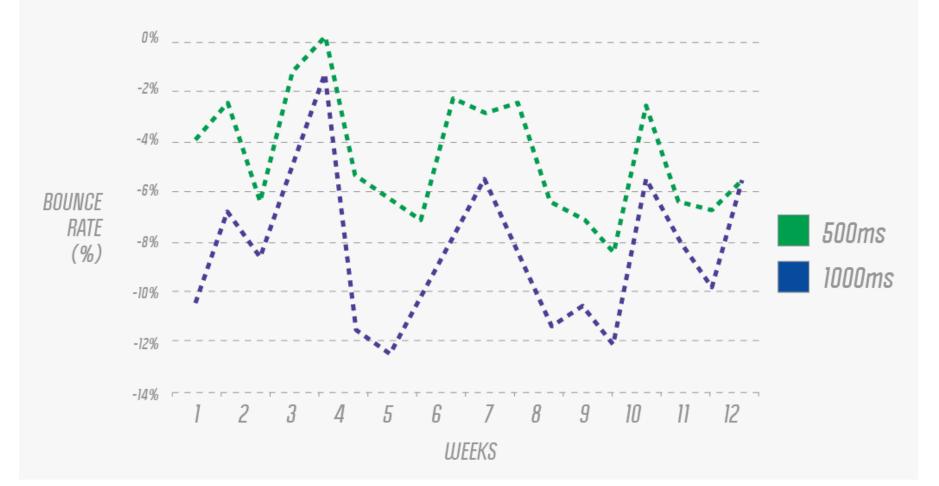
- NO SIGNIFICANT CHANGE

FINDINGS:

-Strong negative impacts -Roughly linear changes with increasing delay

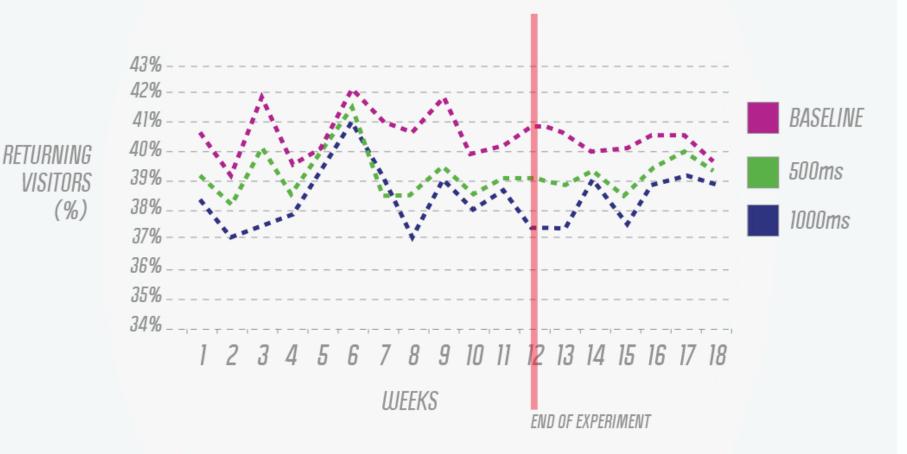


IMPACT OF HTML DELAY ON BOUNCE RATE



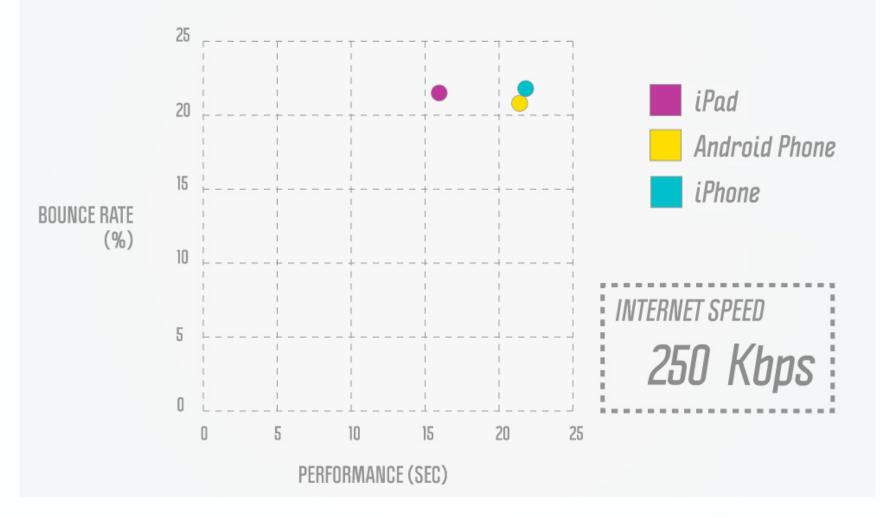


IMPACT OF DELAYS ON RETURNING VISITORS





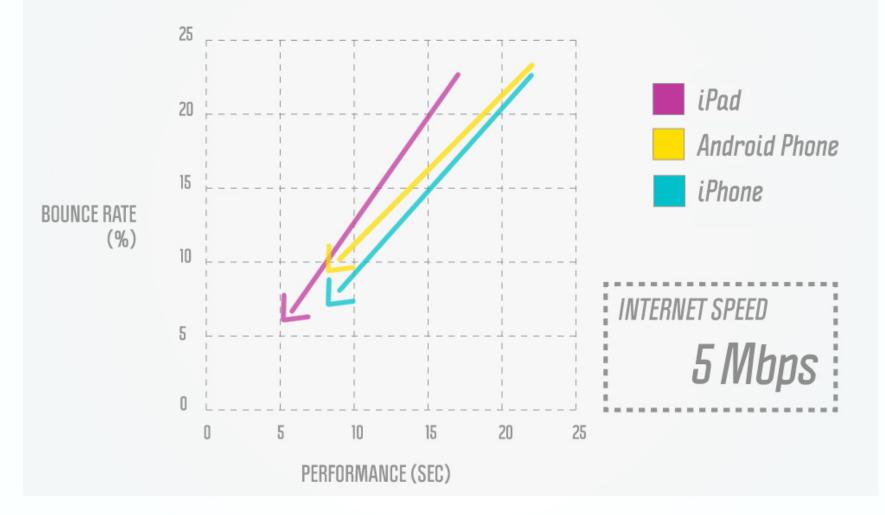
NETWORK QUALITY, PERFORMANCE AND BOUNCE RATE







NETWORK QUALITY, PERFORMANCE AND BOUNCE RATE







Enterprise Application

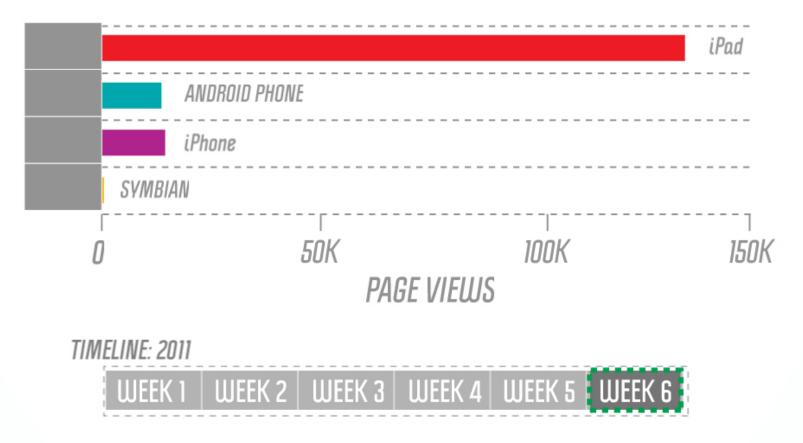
COMPANY BACKGROUND

- Extranet application: login required
- Task based
- US based
- Target geography: US, Europe, and Asia
- Application launched in 2011



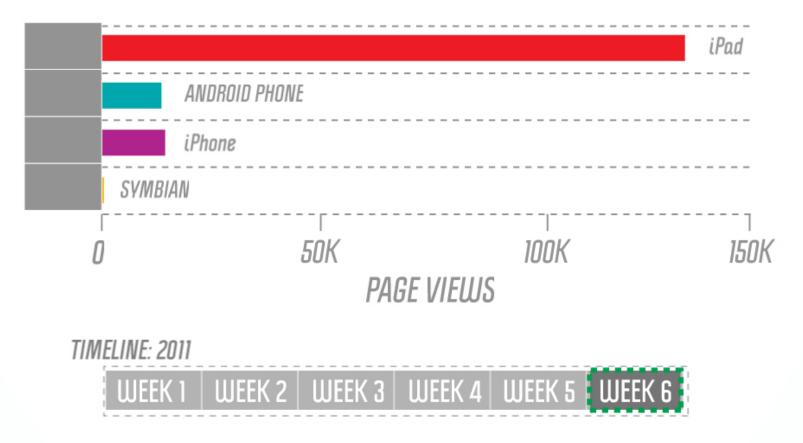
SOURCE: ENTER SOURCE HERE

PAGE VIEWS BY MOBILE DEVICE

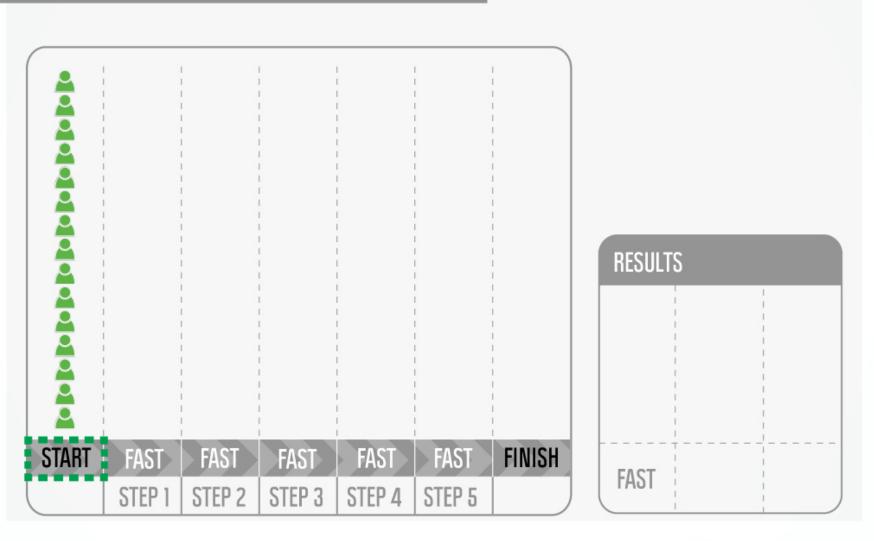




PAGE VIEWS BY MOBILE DEVICE



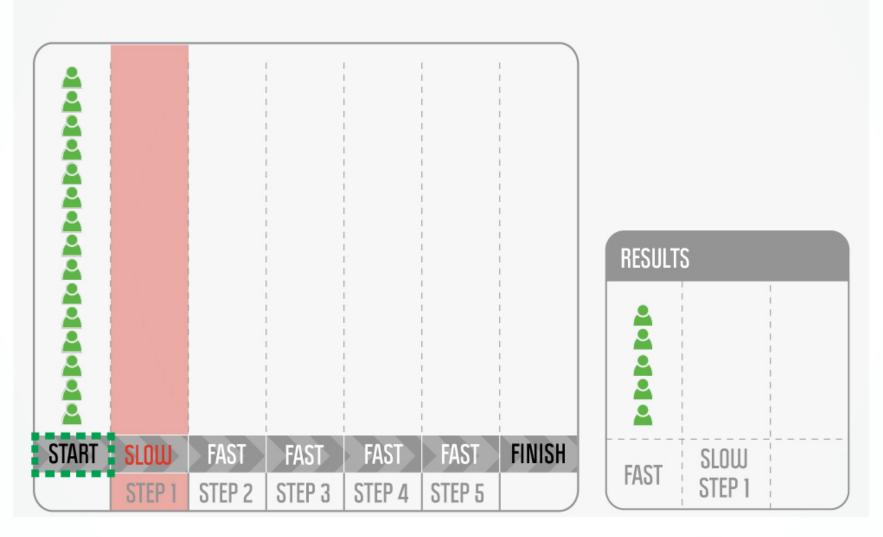




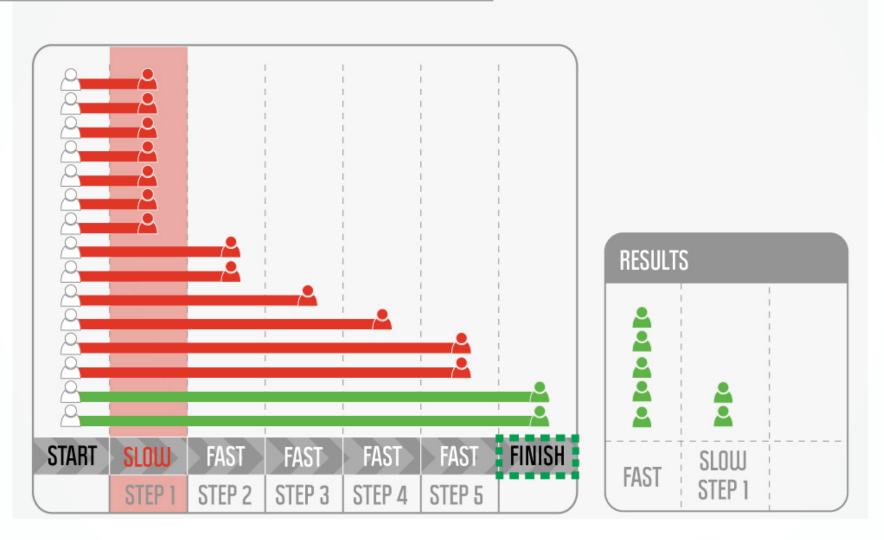




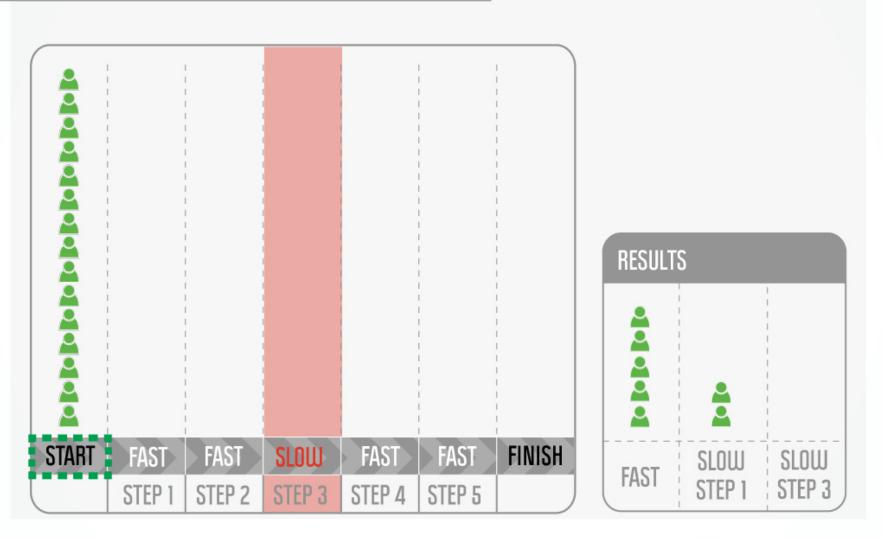


















OBSERVATIONS

- Smartphones have hit the tipping point
- Apps only apply to specific sites
- Users don't want m.sites
- Mobile speed = Revenue



MEASURE YOUR Mobile performance



strangeloop

Joshua Bixby President, co-founder www.strangeloopnetworks.com

Blog - www.webperformancetoday.com