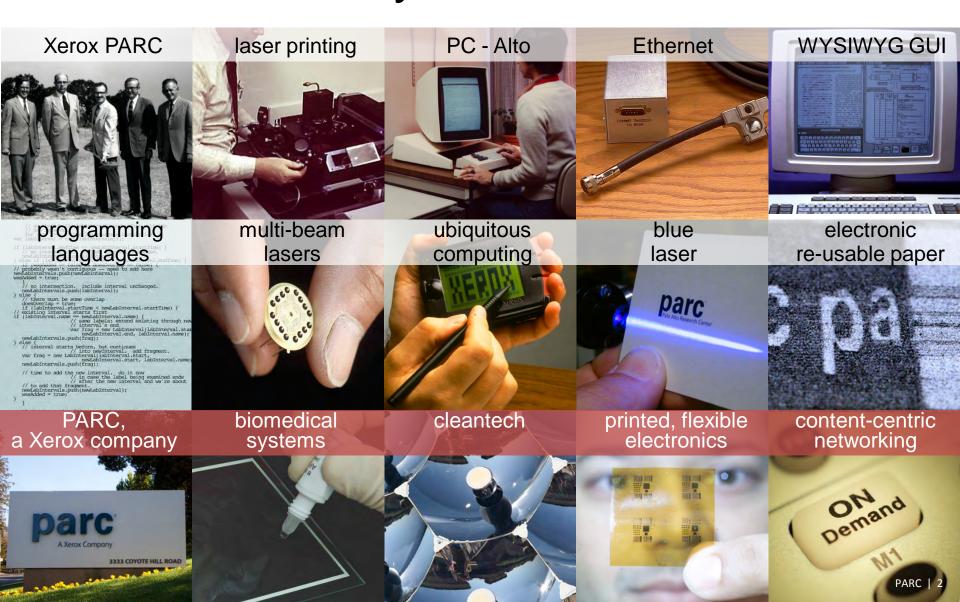


# PARC: Pioneering change for over 40 years...



#### "The Business of Breakthroughs®"

We create innovations with significant world impact by:



Invest in key future technology domains

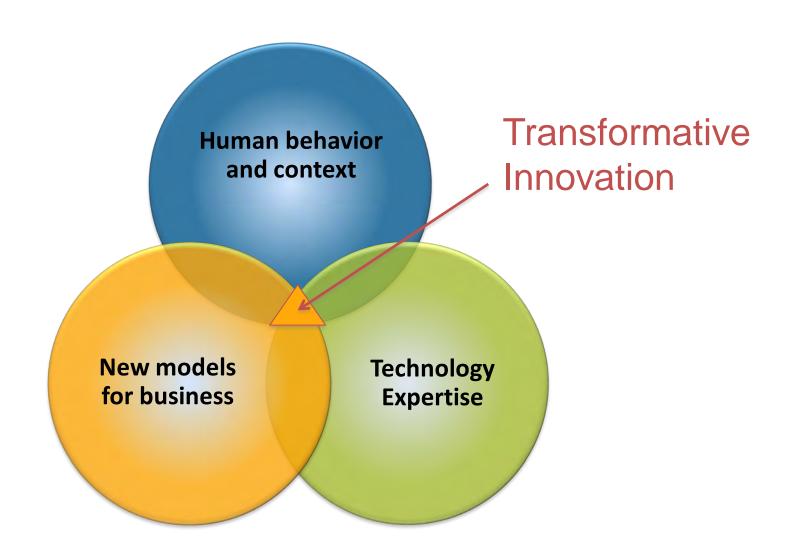


Collaborate with our customers via Open Innovation



3. Deploy repeatable innovation process to drive business results

#### For transformative innovation...







# Identify implicit need



# Listen closely to customers - just don't always do what they say

What people say what people do and what people say they do are entirely different things.



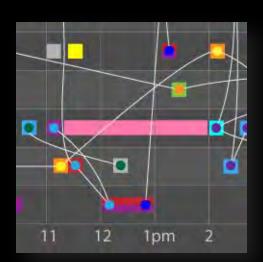
-- Margaret Mead

### Ethnography and beyond

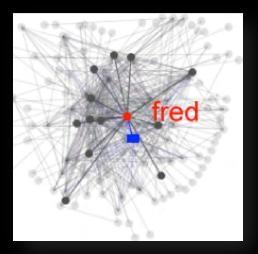
Rapid methodology



User modeling



Social & web analytics



- - Video observation/ analysis methods
  - Participation, in-situ interviews
  - Co-analysis and co-design

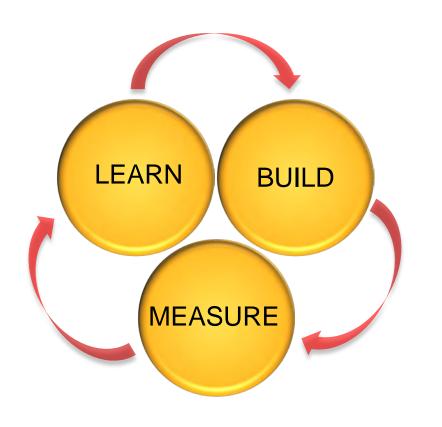
### Innovation is a learning process



- is hitting a dead end a failure?

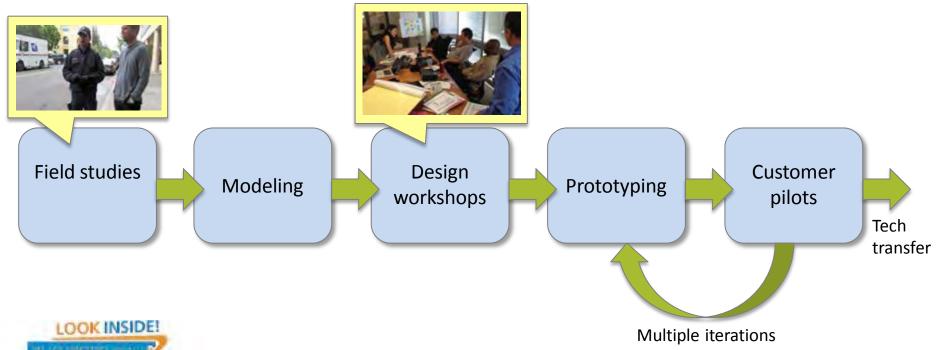
#### Learning Cultures Accept Failure

Minimize total time through the loop





#### Agility: A repeatable innovation process



# THE LEAN STARTUP

#### Multiple benefits of this approach:

- Solve the right problem
- Understand how value is created
- Avoid costly revisions after launch



### Bridging the Distance and Culture Gap: PARC Japan Innovation Services

- Mitsubishi EGG: Local Presence
- **Ethnography and Innovation Workshops**
- Collaborative Relationships
- http://www.parc.com/ip/
- Local Business Lead: Makio Sasa























### Learnings From Business in Japan

#### Relationships are key to success

Relationship development must be done over time – and business transactions will follow only after trust has been established.

But – relationships also last; they are worth the time invested.

Every transaction will have unique aspects:

- Culture
- Japanese business ecosystem
- Differences in risk appetite

### PARC - Creating the Future



MakeNet:
The Future of Manufacturing



The Democratization of Energy



Useable
Information
Privacy & The
Digital Self



Smart
Infrastructure
The Network of
Everything

#### THE WALL STREET JOURNAL.

U.S. EDITION ▼

Saturday, August 20, 2011

ESSAY

August 20, 2011

#### Why Software Is Eating The World



#### By MARC ANDREESSEN

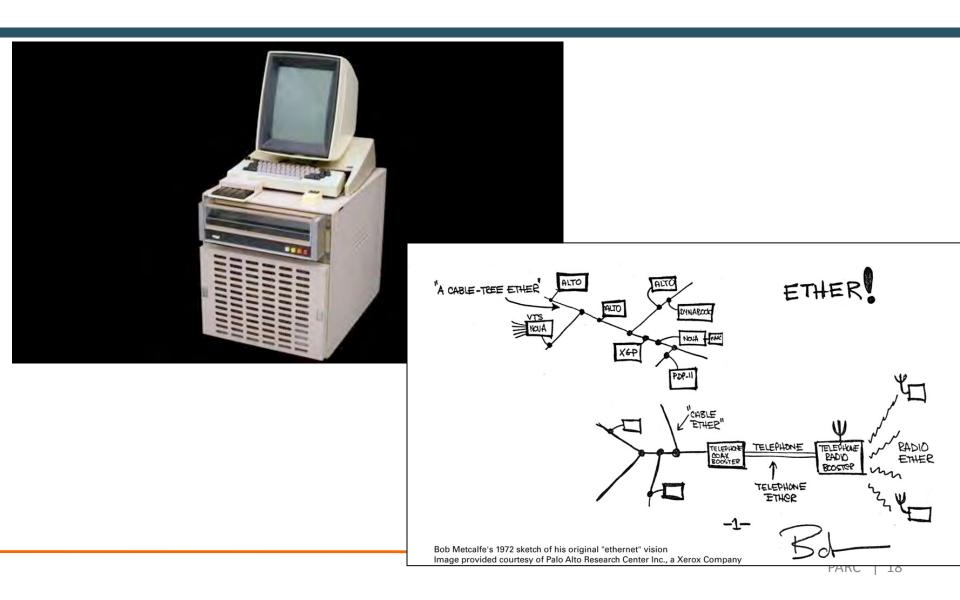
This week, Hewlett-Packard (where I am on the board) announced that it is exploring jettisoning its struggling PC business in favor of investing more heavily in software, where it sees better potential for growth. Meanwhile, Google plans to buy up the cellphone handset maker Motorola Mobility. Both moves surprised the tech world. But both moves are also in line with a trend I've observed, one that makes me optimistic about the future growth of the American and world economies, despite the recent turmoil in the stock market



In short, software is eating the world.

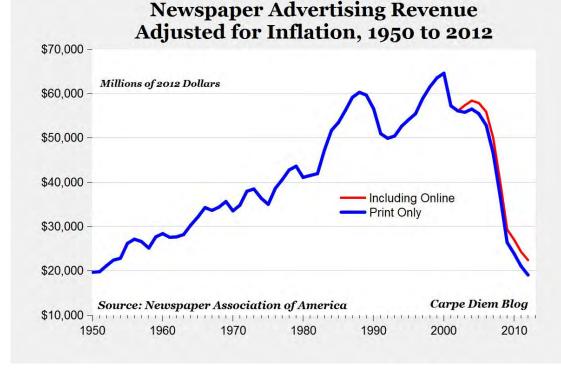
More than 10 years after the peak of the 1990s dot-com bubble, a dozen or so new Internet companies like Facebook and Twitter are sparking controversy in Silicon Valley, due to their rapidly growing

# Computing

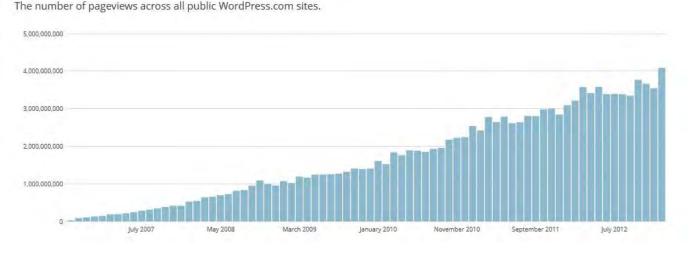


#### Media

# Newspaper ads down **3X** in one decade

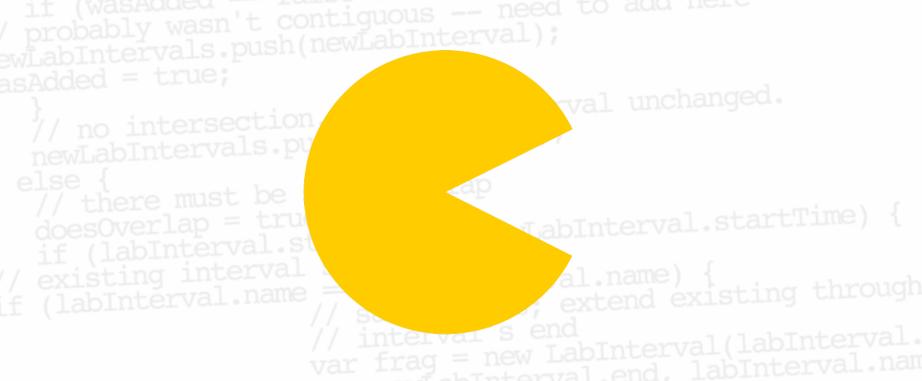






#### Digital Views Rise

# The impact of software eating everything



# Democratization

# and Disintermediation

#### Education















### Healthcare



patientslikeme\*



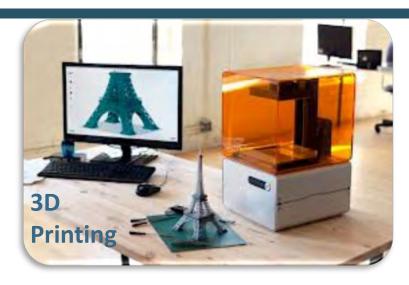






# What's will software eat next? The Future of Making Things

# Early indicators in making...

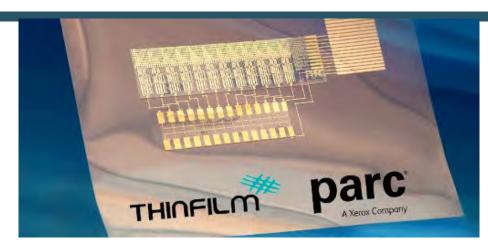






# Some PARC technologies







### The Value Chain for Making Things

Ship **Imagine** Design Fund Source Make

## Early indicators in funding...

4.9 million people have pledged \$700 million, funding 48,000 creative projects

KICKSTARTER

68,929 backers

\$10,266,845

pledged of \$100,000 goal

April 11, 2012 - May 18, 1012 Funding dates



Pebble E-Paper Watch for iPhone and Android

#### A research paper on *Crowdfunding* found that

"In a sample of 48,500 projects, more than

### 75% didn't ship on time."

- Ethan Mollick Asst. Professor of Management University Of Pennsylvania Wharton School

#### Democratizing Design & Value Chains



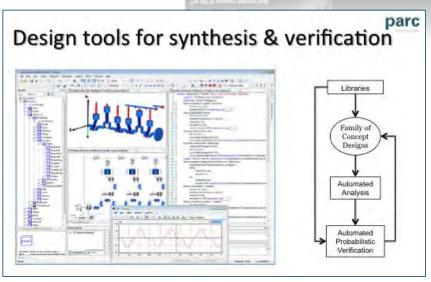


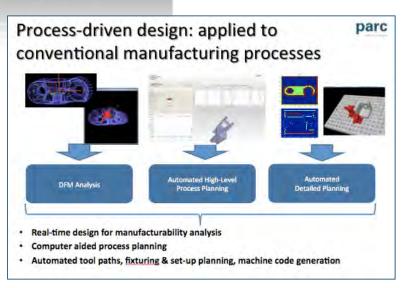




#### Some PARC technologies

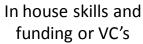






# The **Old** way







Vertically integrated production Timescale: 1 year





Many of the same product

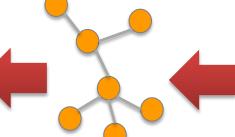
#### The **new** way















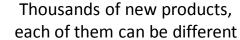


On demand teams of distributed experts, customers, creators

Intelligent design tools

Network of manufacturers

Timescale: 1 week











#### Thank you!

PARC Innovation Lab A Blueprint for Innovation Leadership March 13-14 @ PARC