



Chaos or Turbulence in Digital Ecosystems. Hotel Kämp, Helsinki. August 29, 2014.

Rethinking labor (and capital) in the era of the cloud

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Rethinking Labor (and Capital) in the Era of the Cloud*

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Technological Change and Labor/Capital

The assembly line gives you the corporate capitalist (and industrial union). The Cloud gives you the platform capitalist (and contingent labor)?

Digital Technologies

- Moore's Law
 (PCs→smartphones→Internet of Things
- Cloud computing (data explosion).
 See Zysman 2012 etc.
- Old and new platforms (Amazon, eBay, Google)
 - -Facebook, Twitter, Linked-In
 - -Airbnb, Uber

What Is New? What Should We Anticipate for Labor?

- Cyber panopticon
- Ability to characterize nearly everything physical digitally and then informate
- Replace much white-collar work characterized and automated with data processing
- Connect 40, 50% of world population
- Platform = power

Labor?

- More globally biddable than ever
- Microwork fill up working day
- Formal, e.g., taxi cab informalized thru contractors, Uber
- Informal services such as gardening cyber formalized, Lawnmower.com
- Online and scalable

What Is Work and Where Is It?

- Less work, more work (Brynjolfsson, Baumol, and others
- Is surfing the internet work?
- Is putting things on Facebook, Pinterest, Youtube, LinkedIn?
 - Selling on eBay?
- Writing a novel and putting in closet vs. selfpublishing Amazon?

Elance – Top Hiring and Provider Nations

Top 10 Hiring Nations

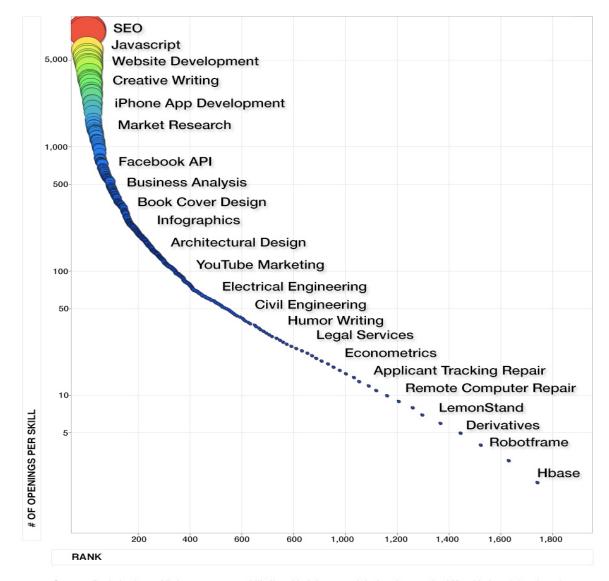
United States	1
Australia	2
United Kingdom	3
Canada	4
UAE	5
Singapore	6
Israel	7
Germany	8
Netherlands	9
New Zealand	10

Top 10 Provider Nations

United States	1
India	2
Ukraine	3
Pakistan	4
United Kingdom	5
Russia	6
Canada	7
Philippines	8
Romania	9
China	10

oDesk Skills Visualization

An Emerging Long Tail of Specialists





Capital?

• Still needed, when?

- Open source SW, commodity cloud computing, Github

- More available and aggregatable than ever JOBS Act
 - Angel
 - Crowdsourcing -- Angelslist, Kickstarter, Indiegogo
 - VC
- More mobile
 - Can be accessed nearly everywhere
- Winner take all
- Control of platforms?

First Wave

- Amazon Stores retailers' platform
- eBay Swap meet & garage sale
- Craigslist classified ads

Welcome to the New World

Facebook, Pinterest, Instagram

Uber, Airbnb, Lyft etc.

Monetize your non-work activities the social network, non-compensated value creation Your leisure activity becomes something of value

Monetize consumer durable assets – move them to the "capital" side of the social ledger

Threat to regulated industries

TaskRabbit, Babysitter.com, Lawnmower etc.

Amazon Mechanical Turk, O-Desk etc.

Google, Yahoo! etc.

Create platform for mobilizing informal, unorganized labor – cyber formalization?

Micro-work, fill pores of working day

Attract you with their data and services, Monetize the information on the web by organizing and selling users through ads

Mechanical Turk -- Microlabor

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← → C Attps://www.mturk.com/mturk/		
M Gmail 😝 Zero Hedge On a I 🔳 Google Finance: Sto 🗀 news 🗀 reviewing 🔟 naked	capitalism 🔁 Calendar 💀 Google Scholar	
We give businesses and dev	I Turk is a marketplace for work. velopers access to an on-demand, scalable workforce. usands of tasks and work whenever it's convenient.	
289,755 HITs available. <u>View them now.</u>		
Make Money	Get Results	

by working on HITs

HITs - Human Intelligence Tasks - are individual tasks that you work on. Find HITs now.

As a Mechanical Turk Worker vou:

- Can work from home
- · Choose your own work hours
- Get paid for doing good work



or learn more about being a Worker

from Mechanical Turk Workers

Ask workers to complete HITs - Human Intelligence Tasks - and get results using Mechanical Turk. Register Now

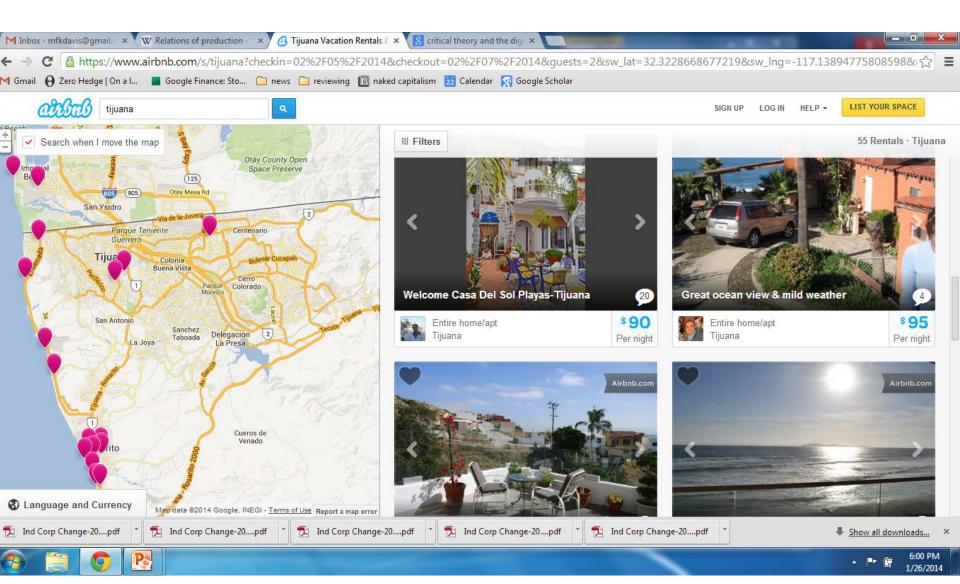
As a Mechanical Turk Requester you:

- Have access to a global, on-demand, 24 x 7 workforce
- Get thousands of HITs completed in minutes
- Pay only when you're satisfied with the results

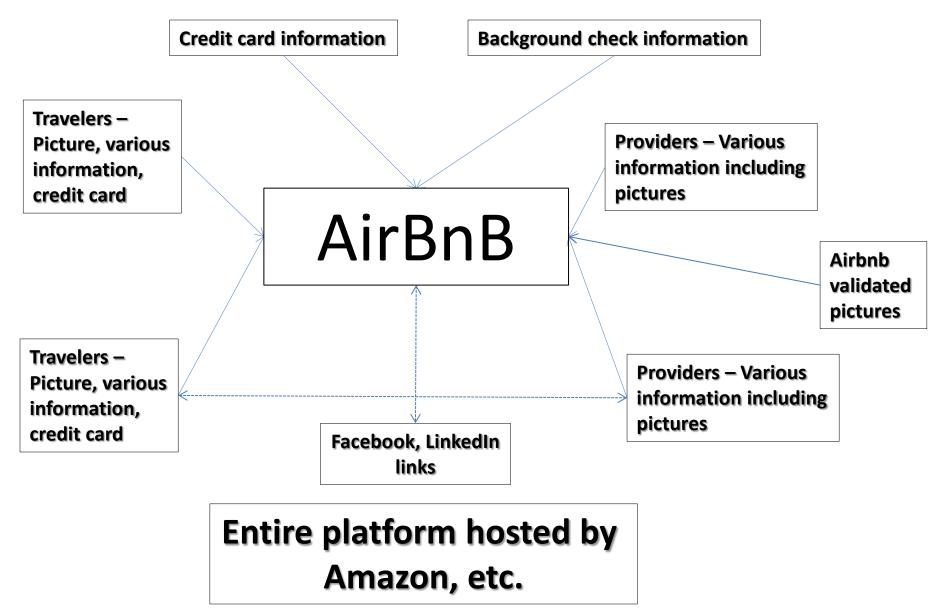




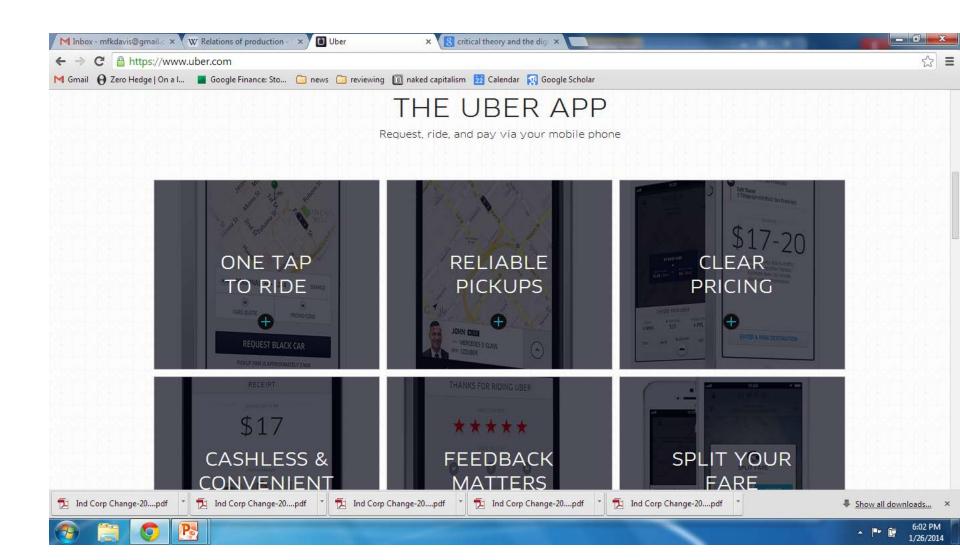
AirBnB – Monetize Excess Space



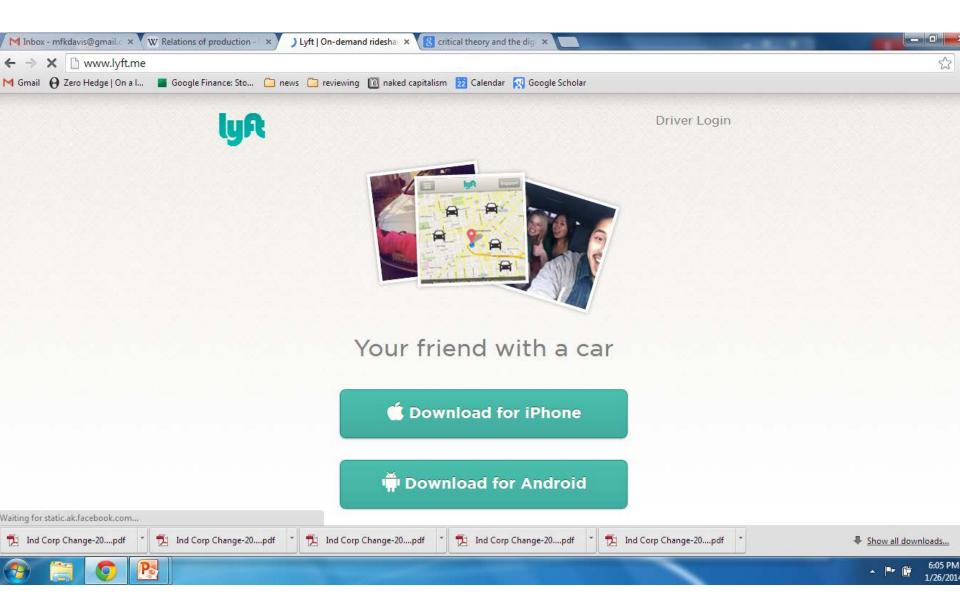
Airbnb Model



Monetize – Your Car and You As Driver



Monetize Your Car



Winners Take All Economies?

- Does entrepreneurial economy reinforce income inequality?
 - Do new firms create same number of highly-paid employment as earlier "new" firms?
 - Google vs. Intel, apps
 - Create ecosystems/platforms of relatively lowly paid or contingent workers?
 - Branded products, Apple, etc.

Winners Take All Economies?

- Monetization of :
 - Digital exhaust (Huberty)
 - Social interaction
 - Consumer durables
 - "Free time" through
 - -Microlabor
 - -Unregulated service performance
 - Open source production (Github)

What Does This Mean?

- The where, what and how of some portions of the global workforce is being transformed
- Should we be thinking about new classes or class fractions?
 - Creative class (Florida)
 - Cognitive-creative class (Alan Scott)
 - Symbolic analysts (Reich)
- How much of this is driven by financialization and not "real" changes
- Globalization and other forces?

Labor Atomized Throughout Society

- Online human activity, both work and not work, creates value that is monetized online
- Much "long tail" work is not sufficiently valued to produce substantial income, but forms the corpus from which some work becomes valuable
 - Flappy birds and other successes
- Online world recognition monetized offline
- What is correct way to reward, winners or the milieu?

Value Created Outside of Wage (and Contract) Environment So Is Social Wage Good Economic Strategy?

- Encourage entrepreneurship
- Allow time for creation
- Reward the milieu rather than only the "lucky" individual
- Encourage disruptive competition
- Encourage consumption

Thank you

