

zipcar.con EXCESS CAPACITY



PLATFORM FOR PARTICIPATION

zipcar.com

PEER COLLABORATORS:

Not consumers but co-creators





"Is there a section at the bottom for comments?"



People & Platforms are Inventing the Collaborative Economy & Re-inventing Capitalism



BED sharing











\$18.75 MARKET VALUE\ (march 2017)

















INDUSTRIAL STRENGTH

(companies, institutions, governments)

Large investments Multi-year efforts Integration & Aggregation of many parts Deep Sector knowledge Diverse technical expertise(s) Standard Contracts & standardization Consistency Brand Promise (trusted company) Global

INDIVIDUAL STRENGTH

(people, local NGOs & local companies)

Small investments Short-term sporadic efforts Delivery of small services Local knowledge Specific unique expertise/offering Customization, specialization Creativity Personal social networks (trusted individual) Local

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PEERS INC

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DIVERSITY of offering

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PLATFORM for participation

Excess Capacity

Resource & Cost Efficient

PEERS

INC

Robin Chase/Peers Inc

Excess Capacity Already exists, paid for, more value there

How to harness Excess Capacity?



Visualization @heathermcgowan

2013 McKinsey report on OPEN DATA

2013 McKinsey report on OPEN DATA



90,000+ Data sets on data.gov

1.4 million

Page views for the UK ope in the summer of 2013

data site

102 Cities that pc 1 2' bated International Coan Data

2 Dated in 2013 an Data Hackathon Day

million+

Data sets made open by governments worldwide

\$3 trillion

Approximate potential annual value enabled by open data in seven "domains",

3 billion

Metric tons of carbon dioxide equivalent emission reductions from buildings that could be identified through the use of open data

35

Hours per year could be saved by commuters from schedule changes based on open data

100,000+

Medical, health, and fitness apps for smartphones

50%+

Consumer share of potential value of open data

* As of 2013

Leveraging Open Data

- Citymapper -The ultimate transit app

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Citymapper 💿	=
Hudson River Park Pier 66A W 29th St	W 2 .
Q Get Me Somewi	here >
倄 Get Me Home	
💼 Get Me To Work	
★ Saved Places	New York SF Bay Area Chicago
👷 Meet Me Somev	DC Boston
	Los Angeles Philadelphia

With Smart phones, **TRANSIT APPS** make it easy to know

- Which train, bus
- What time
- Where to get on & where to get off

City Benefits:

- More riders
- Cheaper & better access
- Less congestion



Figure 5: Active U.S. Driver-Partners Over Time, by City



Note: Figure reports the number of U.S. UberBLACK and uberX driver-partners making at least one trip in the specified month, indexed to the number of months since Uber began in the city or June 2012, whichever came later.

BIDIA

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USHIP S HOW IT WORKS S FIND SHIPMENTS S SHIP

SHIPPERS, MEET CARRIERS. CARRIERS, MEET SHIPPERS.

We make shipping big stuff cheap and easy by helping customers directly connect with providers who have extra truck space.



Excess Capacity

PEERS

INC

Platform for Participation

Organize, Simplify, Empower Scale Economies High Growth

BlaBlaCar

4m transported each month =10k high speed trains = 10k 747s



Excess Capacity

Resource & Cost Efficient

PEERS Diversity

Innovation Resilience Redundancy

INC

Platform for Participation

Scale Economies High Growth





Apple vs. Android: Number of Apps 2008 - 2013



Car Rental Markets

drivy

Drivy

Paris

Launched in 2010

83 employees



1m users

In 5 European countries





Getaround

San Francisco

Launched in 2011 120 employees

2.5k cars

350k users

U.S.

in funding



GoMore

Copenhagen Began rentals in 2014

50 employees

cars

1.3m users**

In 5 European countries



Turo

San Francisco

Launched in 2009

150 employees



N/A*

U.S. and Canada

1m in funding

GRAPHIC BY BLOOMBERG BUSINESSWEEK. DATA: COMPILED BY BLOOMBERG

in funding

COMPANY WON'T DISCLOSE SPECIFIC FIGURES "INCLUDES CARPOOLERS

Peers Inc Delivers 3 Miracles

Scientists say that by 2100, BAU \rightarrow +5-6C







المعر والنفأة

Credit: Randall Monroe

You can't solve exponential problems with linear solutions.

Try PEERS INC!

BANNY BANERJEE, STANFORD
The Miracles

Because we are leveraging excess capacity

We can defy the laws of physics

Cumulative Total Listings on Airbnb



Because we are building on **platforms for participation**

Peers #2 We can tap exponential learning

130 hours, one semester of college54 hours of Rosetta stone



130 hours, one semester of college54 hours of Rosetta stone



34 hours !





Monthly Actives



Because we work with a **diversity of peers**

Peers 13 The Right Person will Appear







PEERS INC is a collaboration

PEERS INC is a collaboration

#1 We can have exponential growth

PLATFORM organizes & unleashes excess capacity **PEER** co-investment with existing assets

#2 We can tap exponential learning

100s of 1000s of simultaneous **PEER** experiments **PLATFORM** analyzes, learns, shares best practice

#3 The RIGHT person will appear

PLATFORM (supercomputing + peer learning) Real-time adaptation by **PEER**s at the edges

Industrial Capitalism



i.

Sharing – the Collaborative Economy – is the future

Shared networked assets > closed assets More networked minds > fewer 'proprietary' minds Benefits of shared open assets > problems of open assets. I get > I give

> Structure for our dynamic times: Experiment, Iterate, Evolve, Adapt

We need these ideas to be bestsellers.

Share them widely

PEERS

How People and Platforms are Inventing the Collaborative Economy and Reinventing Capitalism

ROBIN CHASE

cofounder of ZIPCAR

Enormous Imminent Disruption





#California has now issued testing permits to 27 #AutonomousVehicles companies, up from 22 just last month. {#ai #selfdriving}

Autonomous Vehicle Tester Program

As of March 8, 2017, DMV has issued Autonomous Vehicle Testing Permits to the following entities:

- Volkswagen Group of America
- Mercedes Benz
- Google
- Delphi Automotive
- Tesla Motors
- Bosch
- Nissan
- GM Cruise LLC
- BMW
- Honda
- Ford
- Zoox, Inc.
- Drive.ai, Inc.
- · Faraday & Future Inc.
- Baidu USA LLC
- Wheego Electric Cars Inc.
- Valeo North America, Inc.
- NextEV USA, Inc.
- Telenav, Inc.
- NVIDIA Corporation
- AutoX Technologies Inc
- Subaru
- Udacity, Inc
- Navya Inc.
- Renovo Motors Inc.
- UATC LLC (Uber)
- PlusAi Inc

A LIKELY SCENARIO: 5-year transition from CARS to FAVES

Year 1: 100 small vehicle pilot in mid-size city (students/tourists)

Years 2-5: Expands to 1000 vehicle fleet. *Cheaper & more convenient than status quo*. First 2nd vehicles sold. Then primary. On some routes, vehicles will become shuttle & bus size.

Years 3-5: Other cities need to adopt to be competitive/modern, innovative.



AVs for Urban & trucking → Suburban & Rural? UBER CEO Travis Kalanick on deploying Autonomous UBERs in Pittsburgh (August 2016)

There's an urgency to our mission about being part of the future. This is not a side project. **This is existential for US.**

The infrastructure we build over the next 3 years will determine the fate of humanity.

-Christiana Figueres

When you take the driver out of the car:

THE ECONOMIC THRESHHOLD for moving a vehicle is low.

EXPLOSION OF VIABLE USES

Where this explosion of trips happens matters



AV benefits are differentiated by population density.

13 1 19 18

Personal & Electric

Exurban

AVs

Safety benefits felt here.

Fleets of AVs that are Electric & Shared

Urban.

Transformed land use (shared) & better air quality (electric) key benefits here.



space required to transport 60 people



car



space required to transport 60 people



FAVES will be the fastest path to electric mobility



HOW WE USE NEW SPACE MATTERS

Cheonggyecheon River in Seoul



Cheonggyecheon River in Seoul



Allocate to active modes?





RETAIL AUTOMATED TRIPS



POLITICS | ARTS & ENTERTAINMENT | STYLE & DESIGN |

SELF DRIVING CARS

Self-Driving Cars Will Fill the Streets With RATS, Zipcar Co-founder Says

By Brady Dale • 11/21/16 7:19am







RATS in the countryside are fine! RATS in the city !?

Remember DENSITY MATTERS For AV policy & benefits


NEW MOBILITY PROTOCOL FOR LIVABLE CITIES PHASED

- 1) Standard and pooled data for competitive & quality shared transport services
- 2) Zero emission fleets
- 3) Congestion sticks (pricing) & carrots (land use)
- 4) AVs only in shared fleets

see osmosys.org

A FUTURE PRIORITIZING PEOPLE NOT CARS



END

2.734 1.930 1.350 895,1 525,6 26,0 87,5 180,6 314,3 0,2 3,8 2008 2012 2005 2006 2007 2009 2010 2011 2013 2014 2015

ETSY SALES (MILLIONS)





AV policy must be differentiated by population density.



Exurban

AVS

Fleets of AVs that are Electric & Shared

Urban.

PEERS INC is a collaboration **Smart cities Smart homes Smart transportation Smart grids**

All rely on this collaboration



A RESILIENT AND INNOVATIVE ECONOMY.

Platforms that empower people. Laws that enable & protect workers.



Good for bus company Bad for passengers



Las Vegas' Strip Express is the kind of Bus Rapid Transit system that could eventually be self-driving. (Photo: ITDP)

Taxes for Motor vehicle manufacturing & use = \$206 Billion/year* (\$110b state & \$96b in federal)



Loss of taxes on associated labor & businesses now defunct

<u>* http://www.autoalliance.org/files/dmfile/2015-Auto-Industry-Jobs-Report.pdf</u> Center for Automotive Research, Ann Arbor MI

HOW DO WE PEERS ?



INC

How People and Platforms are Inventing the Collaborative Economy and Reinventing Capitalism

ROBIN CHASE

cofounder of ZIPCAR



Graphic @heathermcgowan