

Technology Happens

6/9/16

IGNITING HUMAN POTENTIAL

Ryan Emmons

Director of Business Integration at Luck Stone

- **11 Years at Luck Stone**
- **Electrical Engineering**
- **Marketing**
- **Innovation**
- **Information Technology**

I am in no way affiliated with any of the other companies mentioned in this presentation



REmmons83 / Remmons@luckstone.com

MISSION

**WE WILL IGNITE HUMAN POTENTIAL THROUGH VALUES BASED LEADERSHIP
AND POSITIVELY IMPACT THE LIVES OF OTHERS AROUND THE WORLD.**

IGNITING HUMAN POTENTIAL

VALUES

COMMITMENT

*Takes personal responsibility
for the success of self,
others, and the organization*

Model safety, health, and
environmental stewardship
Do what it takes
Pursue excellence
Celebrate success

INTEGRITY

*Earns the trust and respect
of others*

Be honest
Do what you say
Hold self and others
accountable
Give and receive feedback

LEADERSHIP

*Ignites human potential and
performance*

Value diversity and difference
Develop self and others
Inspire confidence and
optimism
Confront issues

CREATIVITY

*Delivers ideas and
innovation that add value*

Be curious
Learn new skills
Be open to change
Explore and experiment

IGNITING HUMAN POTENTIAL

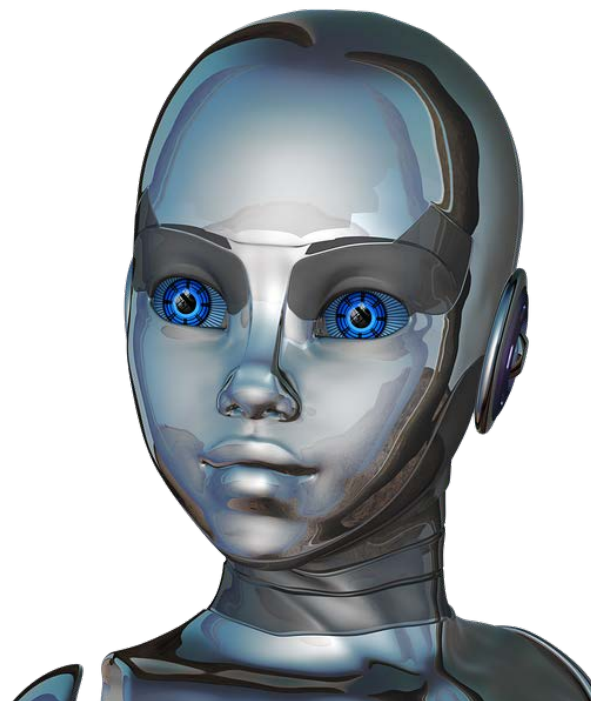
LUCK STONE VISION


As One Team,
We Build Value Inspired By Our Customers.

IGNITING HUMAN POTENTIAL

What's Coming in 2016

IGNITING HUMAN POTENTIAL









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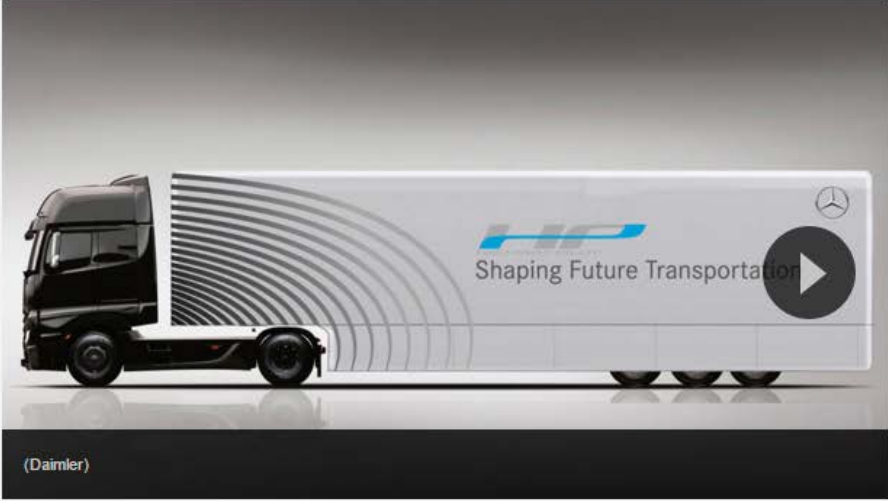
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AUTO TECH

Production-ready Mercedes autonomous truck takes to the Autobahn

By **Viknesh Vijayenthiran** · Published October 06, 2015 · High Gear Media


 141 102




Shaping Future Transportation

(Daimler)


More from Fox News




2016 Chevrolet Volt Test Drive



Hellmann's tries a vegan 'mayo' after suing eggless spread rival



iPhone 5s

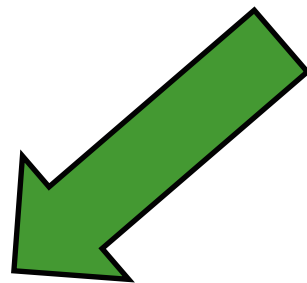


Car crash

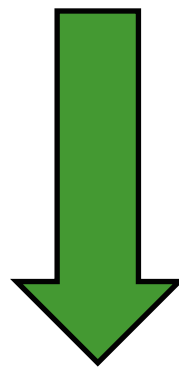
IGNITING HUMAN POTENTIAL

Disruption is Coming

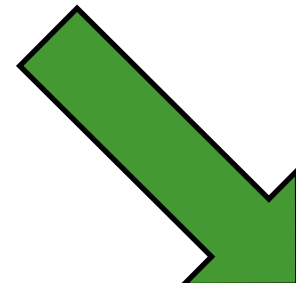
From Non Traditional Sources



Transportation



Digital



Millennials

IGNITING HUMAN POTENTIAL

Transportation Revolution

Autonomous Vehicles (*Driverless*)

New Forms of Transportation (*Drones, other...*)

Decreased Automobile Demand

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"I THINK THAT WITHIN TWO YEARS, YOU'LL BE ABLE TO SUMMON YOUR CAR FROM ACROSS THE COUNTRY." –ELON MUSK



IGNITING HUMAN POTENTIAL

Autonomous Vehicles (*Driverless*)

THE WALL STREET JOURNAL.

Home World U.S. Politics Economy **Business** Tech Markets Opinion Arts Life

BUSINESS | AUTOS & TRANSPORTATION | AUTOS

GM, Lyft to Test Self-Driving Electric Taxis

Move aimed at fighting off Silicon Valley giants amid a reshaping auto industry



Logan Green and John Zimmer, the co-founders of Lyft Inc., stand with General Motors Co. President Dan Ammann (center) in front of a Chevy Bolt EV with a Lyft mustache. GM and car-hailing service Lyft, known for its pink mustaches, will begin testing a fleet of self-driving electric taxis on public roads within a year. PHOTO: LYFT INC.

By **MIKE RAMSEY** and **GAUTHAM NAGESH**

May 5, 2016 10:54 a.m. ET

112 COMMENTS

In October, GM CEO Mary Barra said the industrial giant won't rely on the traditional owner-driver model to keep its business going, and will "absolutely" make cars for an age when human driving is defunct.

"We are disrupting ourselves."

IGNITING HUMAN POTENTIAL

Autonomous Vehicles (*Driverless*)

THE VERGE

TRENDING NOW
Google is giving away 2GB of free Drive storage today

f t v r

27
NEW ARTICLES

LOG IN | SIGN UP LONGFORM REVIEWS VIDEO TECH SCIENCE ENTERTAINMENT CARS DESIGN US & WORLD FORUMS

Q

PREVIOUS STORY
Twitter wants to patent a drone controlled by tweets

NEXT STORY
SpaceX successfully landed its Falcon 9 rocket after launching it to space

TRANSPORTATION CARS

Google and Ford reportedly creating a new company to build self-driving cars


It's a win for everyone involved

By **Jordan Golson** on December 21, 2015 08:36 pm [Email](#) [@jlgolson](#)




THE LATEST

HEADLINES




Face Swap Live: a 99-cent app that will give your friends and family nightmares



NASA's crazy 18-propeller wing test looks like a scene out of Mad Max



HBO Now has 'about 800,000 paying subscribers' 10 months after launch



New 1-Terabit internet satellites will deliver high-speed internet to remote areas

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SEPTEMBER 25, 2015

25 Corporations Not Named Google Working On Driverless Cars



Google isn't the only one making moves in the autonomous vehicle arena. There are a host of auto makers, auto brands and tech companies also attacking the driverless car market.

Where's this data from? Check us out for free

Business E-mail

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Autonomous Vehicles (*Driverless*)

SF startup Otto wants to put self-driving big rigs on highways

By Michael Liedtke

Associated Press

POSTED: 05/17/2016 07:05:29 AM PDT | UPDATED: 22 DAYS AGO



This Thursday, May 12, 2016, photo shows an Otto driverless truck at a garage in San Francisco. (Eric Risberg/Associated Press)

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Autonomous Vehicles (*Driverless*)

Self-driving truck convoy completes its first major journey across Europe

EU-backed challenge sets the stage for more automation on Europe's roads

By **James Vincent** on April 7, 2016 08:54 am  @jjvincent



(Daimler)

*THE
TECHNOLOGY
IS HERE;
REGULATIONS
ARE NEXT*

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Autonomous Vehicles (*Driverless*)

PCWorld

Work. Life. Productivity.

NEWS REVIEWS HOW-TO VIDEO BUSINESS LAPTOPS TABLETS PHONES HARDWARE

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US regulator: Google's self-driving car AI could qualify as a driver

The NHTSA is evaluating a proposal from Google



A Google self-driving car navigates streets near the company's headquarters in Mountain View, California, on June 29, 2015. Credit: Martyn Williams

7 COMMENTS

[John Ribeiro](#)

IDG News Service Feb 10, 2016 6:12 AM

Feds Hold First Meeting to Discuss National Autonomous Vehicles Regulations

THE DRIVE

Paul A. Eisenstein

The Drive

April 8, 2016



Autonomous Driving Regulations

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Luck Stone's Remote Loader



IGNITING HUMAN POTENTIAL

Luck Stone's Autonomous Haul Truck



Play Video

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Impact of Autonomous Personal Vs. Professional

Traffic?

Speeding?

Accidents?

Commutes?

DUI's?

Insurance Premiums?



Logistical Barriers / Competitive Landscape?

Cost to Ship Material?

Operational Hours?

Shipping Times?

Loading and Unloading?

Plant Design?

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Autonomous Vehicles (*Driverless*)

AUTOMOTIVE

UK company launches insurance policy for autonomous cars

Scott Collie | June 8, 2016



Insurance is changing to keep up with self driving cars (Credit: Loz Blain/Gizmag) [View gallery \(6 images\)](#)

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Autonomous Vehicles (*Driverless*)



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NEWS

Drone sales soar as fans shrug off rules

Jan. 20, 2016 | Updated Jan. 27, 2016 8:40 p.m.

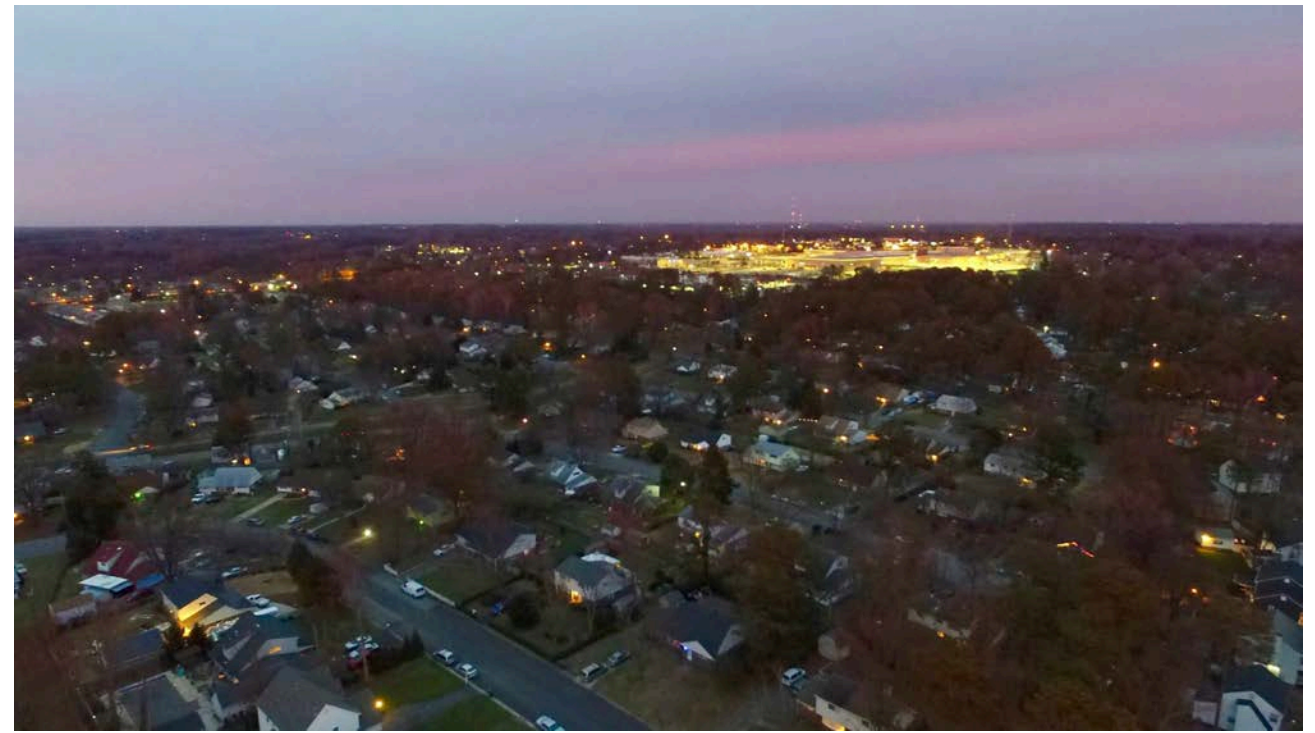


UAV enthusiasts and entrepreneurs David and wife Sarah Oneal Of Garden Grove fly drones; a Yuneec Typhoon Q500 4K and a DJI Phantom 3 Professional .

JOSHUA SUDOCK, STAFF PHOTOGRAPHER

- 2013 – 128k units
- 2014 – 450k units
- 2015 – 1.1 Mil units

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IGNITING HUMAN POTENTIAL

Luck Stone's Use of Drones



Play Video

Play Video



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CES 2016

First passenger drone makes its debut at CES

Chinese entrepreneurs bring their one-person craft, which is controlled by tablet and capable of flying 60mph, to the annual technology convention



Passenger drone powered by batteries unveiled at CES

IGNITING HUMAN POTENTIAL

Passenger-carrying drone gets symbolic approval for test flights in Nevada

But that's not the same as a thumbs-up from the government

By **James Vincent** on June 8, 2016 09:12 am [@jjvincent](#)



THE
LATEST

HEADLINES



HTC Vive against
screen shows wh
worlds really loo



Mosquitoes stick
needles into you
they suck your b



Five things I lear
Jeff Bezos at Coc



Here's why Goog
Motion Stills is n
favorite iPhone a



Gamify your kid
learning math

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Electric Plane / Drone (Avail in 2018)



'We are going for a plane that can take off and land vertically and does not need the complex and expensive infrastructure of an airport.'

'To reduce noise and pollution, we are using electric engines so it can also be used close to urban areas.'

IGNITING HUMAN POTENTIAL



IGNITING HUMAN POTENTIAL

For today's youth, cars no longer represent freedom

Fewer young people are learning to drive. The biggest reason for the move away from driving is the Internet

Kate Lunau

June 5, 2012



Photograph by Kourosh Keshiri

Most Millennials Won't Own A Car In 5 Years, Says Lyft Co-Founder John Zimmer

07/08/2015 02:53 am ET | Updated Jul 08, 2015

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Dominique Mosbergen
Senior Writer, The Huffington Post



JOHN SCIULLI VIA GETTY IMAGES

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IGNITING HUMAN POTENTIAL

Transportation Revolution

How It Happens

Autonomous Vehicles (*Driverless*)

New Forms of Transportation

Decreased Automobile Demand

Why We Should Care

Less New Roads

Less Wear on Roads

Logistical Barriers Diminished

Plant Designs

Shipping & Operating Hours

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Digital Revolution

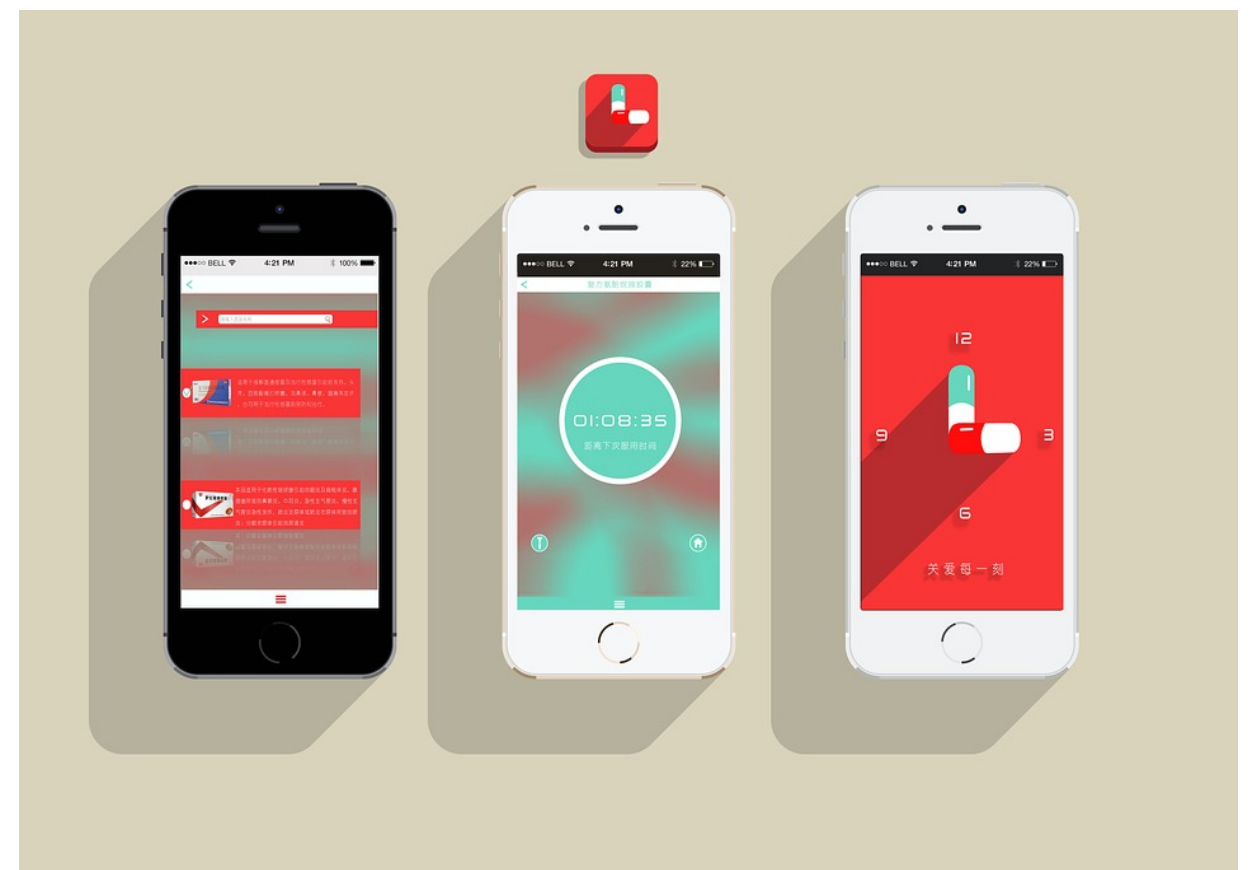
Consolidation by Technology

The Interface Is The Relationship

IGNITING HUMAN POTENTIAL

"Trucking is probably the largest outdated industry in the country," - Dan Lewis

"As an angel investor, it's the largest market opportunity I've ever seen, at least since looking at Facebook in 2005," - Hadi Partovi



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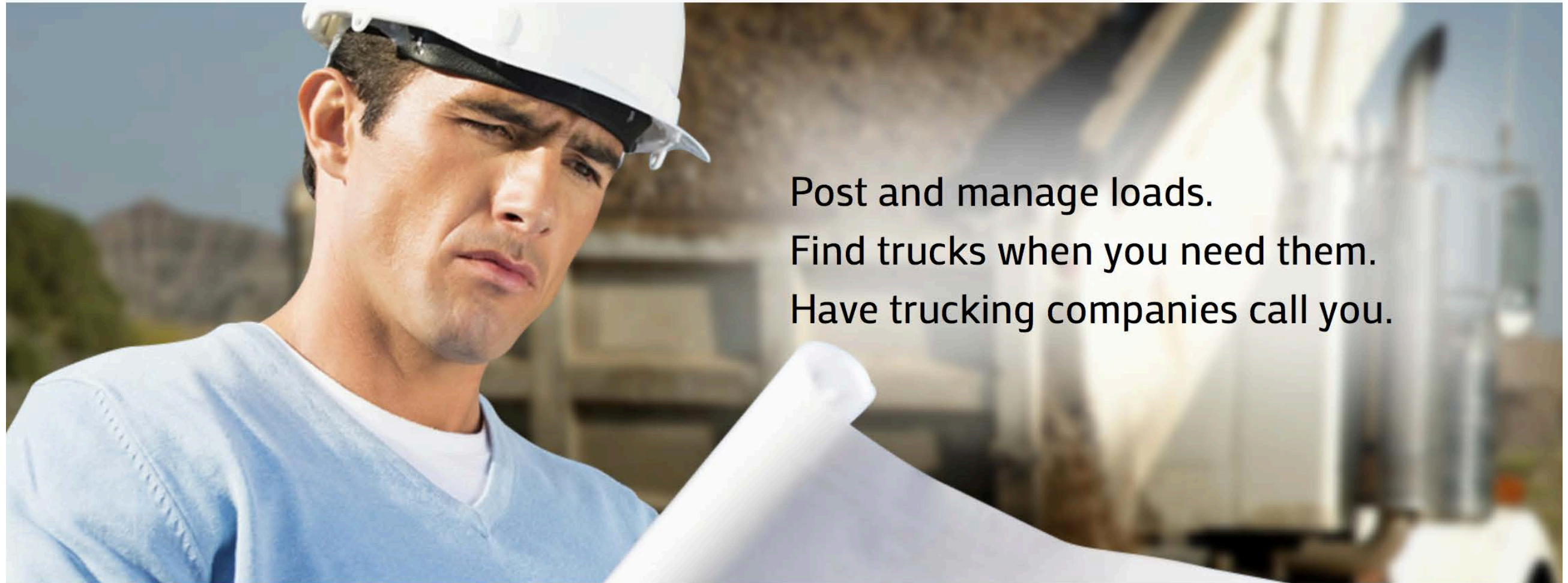
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Bringing Dump Trucks and Contractors Together

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Post and manage loads.
Find trucks when you need them.
Have trucking companies call you.

Find Trucks Instantly

Manage Trucking Needs

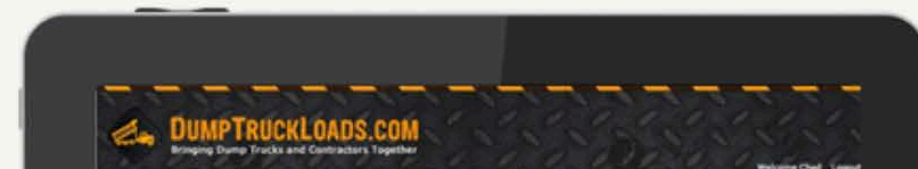
Expand Your Options. Strengthen Relationships.

Start Saving Time

NO COST, SIGNUP TODAY!

Find Trucks Instantly

With DumpTruckLoads, find trucks quickly and easily to keep



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Sign Up As A Contractor

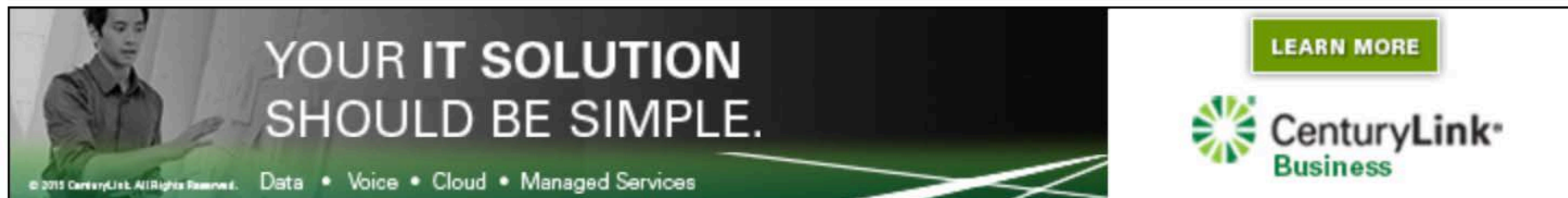
Secure your loads with Ruckit

Get trucks on your site and keep them there

A better way to invoice projects

[Sign Up As A Contractor](#)

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ForbesBrandVoice® [What is this?](#)

FEB 23, 2016 @ 04:22 PM 139,208 VIEWS

How "Uber For Trucking" Apps Are Driving Change In The Freight Industry



CenturyLinkVoice

Your Link To What's Next [FULL BIO](#) ✓



Russ Banham, CenturyLink

Nearly 70 percent of all freight moved in the United States travels by truck, a haul that totals [an eye-popping 10 billion tons each year](#), according to the American Trucking Associations, a trade group.





Shop

Simply go to McGeorgeToyota.com and peruse our entire new and certified used inventory from the comfort of your living room, office, patio or even your mother's basement.

Schedule

Once you've zeroed in on the Toyota you're interested in and made the all-important color selection of truffle mica over beluga brown, click "schedule a test drive." After providing a little information and sending us a photo of your driver's license, one of our McGeorge @ Home specialists will set up a time to bring the vehicle to the location that's most convenient for you.

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MARK SOVEREIGN (CERT / P...



ED RILEY

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Try

Answer the door and accept the keys. Then, get behind the wheel and take an exhilarating thrill ride around town in what could soon be your new

Trade

Have a vehicle you'd like to trade in? Great! Our specialist can appraise it on site. If not, no worries. You can still proceed to step 5.

Buy

Love at first drive? We get that a lot. It is, after all, a new or gently used Toyota. That's why your specialist is armed with state-of-the-art mobile technology (ok, so it's just a regular iPad) that allows

The Interface Is The Relationship

CRUNCH NETWORK

The Battle Is For The Customer Interface

Posted Mar 3, 2015 by Tom Goodwin (@tomfgoodwin)

9,866

SHARES



Editor's note: Tom Goodwin is senior vice president of strategy and innovation at [Havas Media](#).

*“The Interface
Is Where
The
Profit Is”*

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DIGITS

E-Commerce Startup Jet Raises \$350 Million, at \$1.35 Billion Valuation



By **ROLFE WINKLER**

Nov 24, 2015 5:44 pm ET

0 COMMENTS












Jet.com CEO Marc Lore talking to staff ahead of the company's website launch. *THE WALL STREET JOURNAL*

It's Jet.com, an online retailer said to possibly rival Amazon, that uses real-time pricing algorithms to give consumers better deals.

It hit a \$1 billion valuation in just four months in 2015.

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The Interface Is The Relationship

- Worlds largest taxi company owns no taxis. (Uber) 
- Largest accommodation provider owns no real estate. (Airbnb) 
- Largest phone companies own no telecommunications infrastructure. (Skype, WeChat) 
- Worlds most valuable retailer has no inventory. (Alibaba) 
- Most popular media owner creates no content. (Facebook) 
- Fastest growing banks have no actual money. (SocietyOne) 
- Worlds largest movie house owns no cinemas. (Netflix) 
- Largest software vendors don't write the apps. (Apple & Google)  

These Are The Fastest Growing Companies In History

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Digital Disruption

**Could The World's Largest
Aggregates Company
own no quarries?**

**Could The World's Largest
(insert your industry here)
own no
*(fill in the blank)?***

Um...No...Well...Maybe?

The Interface Is The Relationship



Wednesday February 10, 2016

[Breaking News](#) > [Featured Breaking](#) > [The City](#) > [San Francisco News](#) > [Transit](#)

Yellow Cab to file for bankruptcy



A Yellow Cab taxi travels down Market Street on Tuesday. Yellow Cab Co-Op announced its plans to file for bankruptcy as competition for riders in The City increases. (Mike Koozmin/S.F. Examiner)

By Joe Fitzgerald Rodriguez on January 6, 2016 1:00 am

Trending Articles

[SFPD officers shoot, kill man in Bayview](#)

[New plan for M-Ocean View subway line unveiled](#)

[SF judge resigns soon after ruling SFPD can't fire cops who sent racist texts](#)

[City may pay back businesses sacked by Super Bowl](#)

[Amid controversial Super Bowl performances, Mario Woods protestors reiterate demands](#)

IGNITING HUMAN POTENTIAL

Digital Revolution

How It Happens

Digital Consolidation

The Interface Is The Relationship

Why We Should Care

New / Different Competitors

Lose Control of Pricing

Lose Control of Customer

IGNITING HUMAN POTENTIAL

Millennial Revolution

They Think Different

They Behave Different

They Value Different

They're The Doers

IGNITING HUMAN POTENTIAL

Does anyone know what year the Millennials will become the largest generation in the workforce?

2015

For More Info on Millienials:
<http://www.kpcb.com/internet-trends>

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Millennial Revolution

**Are We Going To Be Able To Attract
Millennials To Come Work For Us?**

**Are We Going To Be Able To Attract
Millennials To Come Buy From Us?**

IGNITING HUMAN POTENTIAL

Millennial Revolution



NETFLIX



...These Companies Are Shaping Their Expectations...

...How Are We Shaping Them?

IGNITING HUMAN POTENTIAL

Millennial Revolution

How It Happens

They Think Different

They Behave Different

They Value Different

They're The Doers

Why We Should Care

We Aren't Ready For Them

Will They Work For Us?

Will They Buy From Us?

Will They Prefer Us?

IGNITING HUMAN POTENTIAL

**We Don't Know How These Three
Factors Will Play Out**

**We Do Know That The World Is
Changing... DRAMATICALLY.**

**What Are You Doing Today To Get
Ready For Tomorrow?**

**UNCERTAINTY
AHEAD!**

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Thank You

Any Questions?



REmmons83 / Remmons@luckstone.com

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