



# TECHNOLOGY FUTURES INC.

*Your Bridge to the Future*

# Introductions and Welcome & TFI News and Overview

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**TFI Communications Technology  
& Asset Valuation Conference**

January 26-27, 2017

Marriott Courtyard Downtown  
Austin, Texas

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(512) 258-8898 • [www.tfi.com](http://www.tfi.com)

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# Housekeeping

- Welcome and Introductions
- Lunch and Reception
- Evaluation Sheets
- Professional Recording

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# Developments of Note since TFI 2015

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Trump Takes Action Aimed at Approving Keystone Pipeline



Google Privacy-Policy Change Faces New Scrutiny in EU



Nortel Networks Wins Approval to Distribute \$7.3 Billion to Creditors



## BUSINESS

# AT&T Reaches Deal to Buy Time Warner for \$85.4 Billion

Wireless carrier agrees to pay \$107.50 a share in half-cash, half-stock deal



### Recommended Videos

1. Here's what's behind the whiskey boom in the U.S.



2. Nat Geo WILD Host on Managing, Relocating Problem Species



3. Why Does It Seem More Celebrities Than Ever Are Dying?



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## Verizon buys LQD WiFi to expand its IoT strategy into “smart cities”

Posted Nov 14, 2016 by [Ingrid Lunden](#) (@ingridlunden)

Verizon today has made another acquisition to build out its IoT business: the carrier has [purchased LQD WiFi](#), a developer of outdoor interactive displays...

Other acquisitions in IoT have included [Sensity Systems](#) to add LED light controlling technology; telematics company [Fleetmatics](#) for \$2.8 billion in August; and [Telogis](#) for more connected car technology.

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# The Verizon-Yahoo deal is still on — for now

Michelle Castillo | @mishcastillo

Verizon announced plans to acquire Yahoo in July for \$4.8 billion. Since then, however, news of **two data breaches affecting up to 1.5 billion Yahoo users** have put the deal in murky waters. Yahoo has said news of the leaks hasn't affected user activity levels.

"Our pending Yahoo acquisition would further increase our opportunity to scale in the digital media space, with its 1 billion-plus monthly average unique viewers," Verizon Executive Vice President and CFO Matt Ellis said during an earnings call Tuesday. "We are still working with Yahoo to assess the impact of the breaches, and we have not reached any final conclusions yet."



## Comcast wireless service due next year

Mike Snider, USA TODAY Published 10:13 a.m. ET Sept. 20, 2016 | Updated 10:16 a.m. ET Sept. 20, 2016

Comcast plans to begin offering its own wireless service by the middle of 2017. ...

The service would deliver connectivity over the Verizon Wireless network and Comcast's own millions of Wi-Fi hotspots around the U.S..

### Shrek has a new home: Comcast, NBC acquire DreamWorks Animation

Comcast can lease bandwidth on Verizon's network as part of a Justice Department agreement four years ago in which Verizon bought \$3.6 billion in wireless spectrum from Comcast and other pay-TV companies.



## AT&T Unveils 5G Roadmap Including Trials In 2016

INNOVATION / Dallas, Texas, Feb 12, 2016

Share    

*Company's Virtualized Network Combined with 5G Provides Platform for Future Services – Video, Virtual Reality, Internet of Things*

*Planned 5G Trials Collaboration with Ericsson and Intel*



AT&T\* is unveiling its 5G roadmap to bring customers the next-generation of super-fast, flexible wireless connectivity.

Technologies such as millimeter waves, network function virtualization (NFV), and software-defined networking (SDN) will be among the key ingredients for future 5G experiences. AT&T Labs has been working on these technologies for years and has filed dozens of patents connected with them.

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## Google Fiber halts rollout; top exec leaves

Jessica Guynn, USA TODAY Published 7:36 p.m. ET Oct. 25, 2016 | Updated 2:42 p.m. ET Oct. 26, 2016

SAN FRANCISCO — Google Fiber is halting its rollout in 10 cities and laying off staff as its chief executive, Craig Barratt, steps down, dealing a major setback to the Internet giant's ambitions of blanketing the nation in super-speedy Internet. ....

Jan Dawson, chief analyst with Jackdaw Research. "Although Google is framing this as a pause while it considers next generation technologies, I would hope that it's actually a concession on the company's part that being in the access business is a distraction rather than a strategic imperative."

The reason? "You could argue that Google has actually achieved its objective of getting more fiber broadband built by opening the doors to AT&T and other companies who are now building out fiber much more rapidly thanks to the changes to the franchising process driven by Google," Dawson said. "Fiber is rolling out much more quickly now — it's just not Google's fiber."

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## Tesla driver dies in first fatal crash while using autopilot mode

The autopilot sensors on the Model S failed to distinguish a white tractor-trailer crossing the highway against a bright sky

The first known death caused by a self-driving car was disclosed by [Tesla Motors](#) on Thursday, a development that is sure to cause consumers to second-guess the trust they put in the booming autonomous vehicle industry.



Joshua Brown

### **U.S. Regulator Gives Tesla's Autopilot the Clear** **January 9, 2017**

The National Highway Traffic and Safety Administration has finished its investigation into last year's self-driving Tesla crash and concluded that the company's Autopilot autonomy system works properly. Investigators were inspecting evidence from the [crash which happened last May](#), where a Tesla Model S drove into a tractor-trailer crossing the road ahead. NHTSA's [report](#) concludes that it "did not identify any defects in design or performance" of Autopilot

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# Uber Self-Driving Truck Packed With Budweiser Makes First Delivery in Colorado

The ride-hailing giant teamed up with AB InBev to transport beer in an autonomous vehicle, which they say is the world's first such commercial delivery.

by **Eric Newcomer** and **Alex Webb**

October 25, 2016, 5:00 AM CDT

A tractor trailer full of beer drove itself down Colorado's I-25 last week with nobody behind the wheel. Uber Technologies Inc. and Anheuser-Busch InBev NV teamed up on the delivery, which they said is the first time a self-driving truck had been used to make a commercial shipment.

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**TFI 2017**

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# This Morning

- 8:30 am **Introductions and Welcome / TFI Overview**
- 8:50 am **The New Transformative Technologies**  
– Lawrence K. Vanston, Ph.D., Conference Director,  
President, TFI
- 9:10 am **Communication Technology Update**  
– August Grant, Ph.D., Professor, School of Journalism &  
Mass Communications, University of South Carolina
- 9:45 am **Break**
- 10:00 am **Virtual and Augmented Reality (Games, Shows, and  
Apps) A Short Film by TFI**
- 10:30 am **New Broadband/Video Markets, Impacts, and  
Bandwidth Point/Counterpoint**  
– Augie Grant & Larry Vanston
- 11:00 am **Break**

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# This Morning

- 11:15 am    **TRANSFORMATIVE TECHNOLOGIES  
THOUGHTLEADER: An Interview with Byron Reese,  
Publisher of Gigaom**  
– Byron Reese, Author, Futurist, Entrepreneur,  
Technologist; CEO/Publisher, Gigaom; CEO, Knowingly  
  
– Carrie Vanston, Leader, Corporate Cultures that Rock  
(Interviewer)
- 12:15 pm    **Discussion and Q&A**
- 12:30 pm    **Lunch Break – BBQ at the Gatehouse**

# This Afternoon

- 1:30 pm    **WIRELESS KEYNOTE: From Here to 5G**  
– Iain Gillott, President & Founder, iGR  
(iGillottResearch, Inc.)
- 2:30 pm    **Discussion and Q&A**
- 2:45 pm    **Break**
- 3:00 pm    **Wireless Industry Panel**  
– Gary Wiggins, Executive Director - Property Tax, AT&T  
– Jim Dombrowski, Manager Property Tax, Verizon  
– David Schneider, Manager, Ernst & Young Contractor  
for Sprint  
– Stephen Yergeau, Director, Property Taxes, T-Mobile
- 4:00 pm    **Break**

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## Later This Afternoon

4:15 pm **The Afterlife: Recycling and Reuse of Old IT & Communications Equipment**

– Michael Harbert, Manager of Business Development, ECS

4:30 pm **TRANSFORMATIVE TECHNOLOGIES KEYNOTE:  
Computer Vision - Welcome Our Newest Consumer of  
Video and Bandwidth!**

– Kristen Grauman, Ph.D., Associate Professor, Dept.  
of Computer Science, University of Texas at Austin

5:30 pm **Day End**

5:45–7:00 pm **Conference Reception** – Rooftop Terrace

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# Tomorrow Morning

- 8:30 am **TFI Broadband/Wireless/Video Forecast Update**  
– Lawrence K. Vanston, Ph.D.  
– Ray Hodges, Senior Consultant, TFI
- 8:50 am **The Post Millennials and their Impact on Communications**  
– Anne Boysen, President & Founder, After the Millennials
- 9:20 am **IoT Security or Lack Thereof — Constraint or Showstopper?**  
– Dub Dublin, CEO, Dublinvention LLC
- 9:40 am **Break**
- 9:55 am **SDN/NFV: Tutorial, Insights, and Impacts**  
– Dub Dublin, CEO, Dublinvention LLC
- 10:35 am **Discussion and Q&A**
- 10:45 am **Break**

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# Later Tomorrow Morning

11:00 am **Broadband Industry Panel & Communications**

## **Industry Current Affairs Discussion**

- Jeff Binkley, Advisory Director, Deloitte
- Christian Altenburger, Manager, Property Tax, Comcast
- Joel Rubensohn, Senior Tax Manager, Cox Enterprises
- Robert Strong, Tax Director, AT&T
- Jim Dombrowski, Manager, Property Tax, Verizon
- Steven Ingram, Manager, Property Tax, CenturyLink

12:15 pm **Concluding Remarks**

12:25 pm **Break**

12:30 pm **Box Lunch Presentation and Discussion**

## **Connections That Count**

- Carrie Vanston, Lead, Corporate Cultures that Rock

1:20 pm **Conference Ends**

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## This Week! 12th Annual TFI Communications Technology & Asset Valuation Conference,

🕒 January 23, 2017 📁 Uncategorized 👤 hmvmarek ✎ Edit

We are really looking forward to another great TFI Conference this week in Austin. We hope you are in on it. If you haven't already registered, there's still time!

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A stylized graphic of a bridge with two arches, rendered in a light blue color. The bridge is positioned behind the main text and extends across the width of the slide.

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