



## STATE OF THE INDUSTRY

## Speaker

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## Course Description

This session will present industry financial and operational metrics. Attendees will hear analysis on the opportunities and considerations for digital signage providers, digital out-of-home network operators and end users.

## **Learning Objectives**

At the end of this course, participants will learn:

- Industry Forecasts
- Selected Trends
- Sector Recommendations







## Providing Advice to Clients for Over 27 Years

Completed over \$180 billion of M&A, restructuring and financing advisory assignments

Advisor to Boards of Directors

PJSC

Advisor on Public and Private Capital Raising

Restructuring / Recapitalization Advisory

have included\*:

PJSC is at the forefront of media and technology

Assignments in OOH / DOOH / Digital Signage / Retail Tech have included\*:



















































Airport /

Van Wagner

AIRPORT TARGET MED





## Digital Signage / DOOH Coverage



**EMPAX**MEDIA

market

CROSSMARK

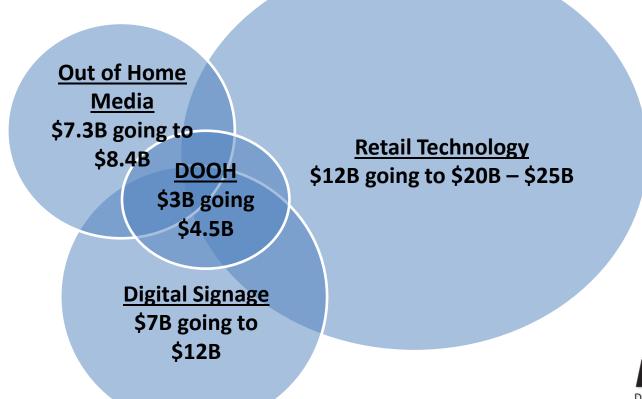








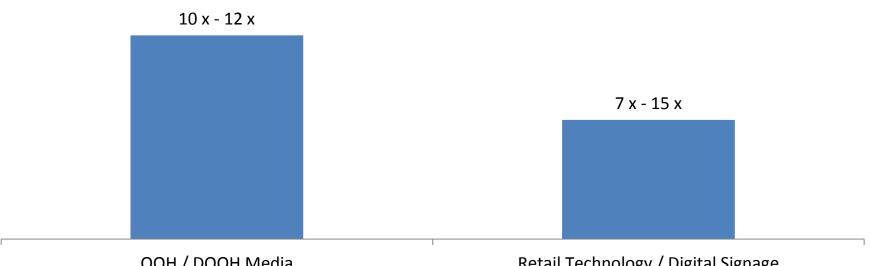
Defining the Industry U.S. Intelligent Visual Communications (2015 – 2019)







## Industry Valuation Breakdown (EV / 2016E EBITDA)



OOH / DOOH Media



**JCDecaux** 







#### Retail Technology / Digital Signage



CREE \$













NEC





Verifone<sup>®</sup>

**Panasonic** 

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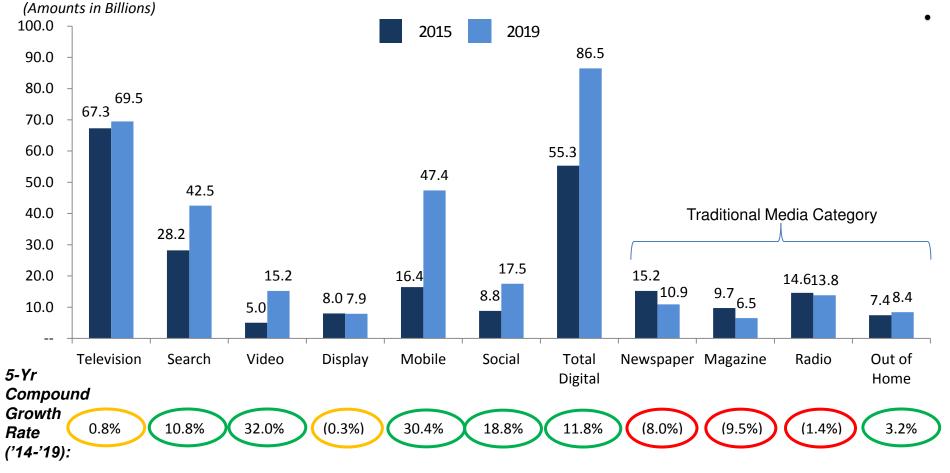


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## Total U.S. Ad Spending to See Largest Increase Since 2004



- Mobile and online video = the leading advertising categories over next few years
  - OOH only traditional medium expected to show growth







## There Is Not An Expo for Just Anything

>\$10.0 billion

Global DOOH Media Spending in 2015<sup>(a)</sup> \$3.0 billion

U.S. DOOH Media Spending in 2015<sup>(a)</sup> >\$16.0 billion

Global Digital
Signage Spending
in 2015(b)

>\$7.0 billion

U.S. Digital
Signage Spending
in 2015



<sup>(</sup>a) Represents 2015E global and the U.S. digital out of home media forecast as per PQ Media Global Digital Out of Home Media Forecast (5<sup>th</sup> Edition).

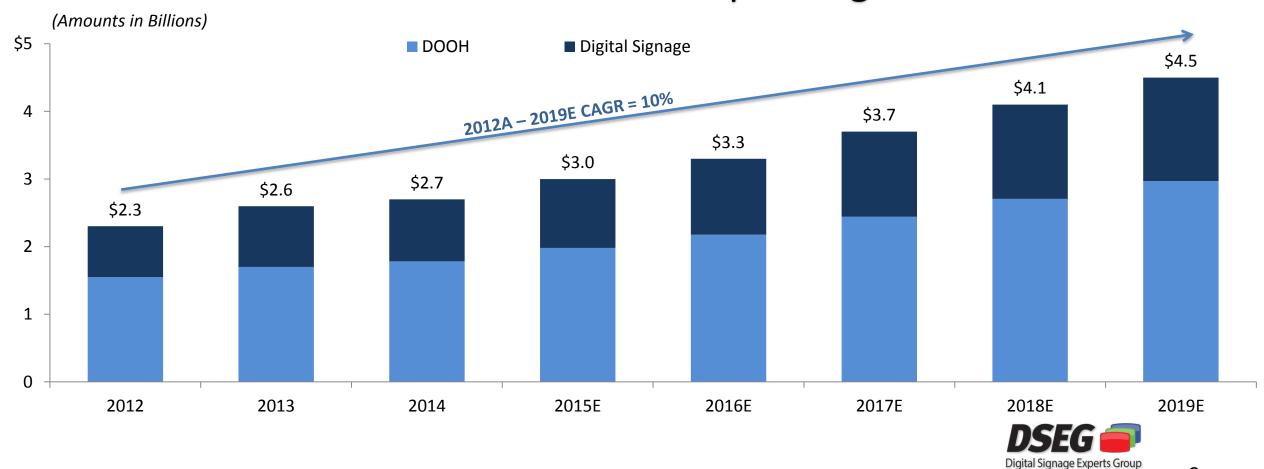
<sup>(</sup>b) Based on IHS research.

Based on IDC research.





## U.S. DOOH Media Spending

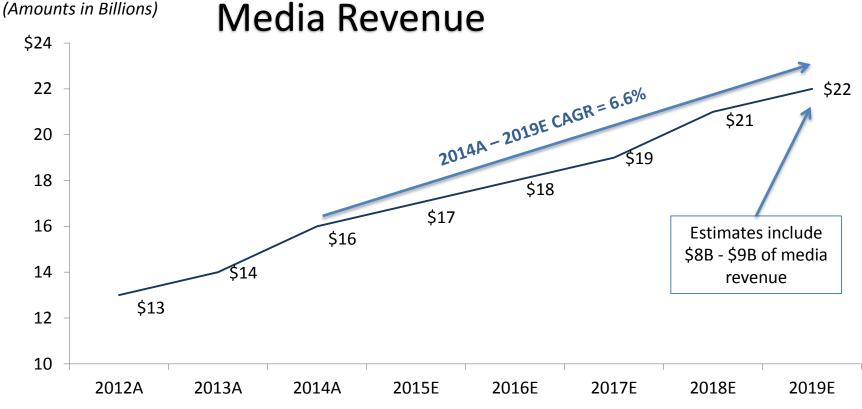






## World Market for Digital Signage Equipment, Software, Services &

- Worldwide digital signage revenue expected to grow to \$22B by 2019
- Revenue expected to grow ~6% in 2015
- Increase in availability of 4K media players, and decreased cost of entry will continue to drive growth in 2016

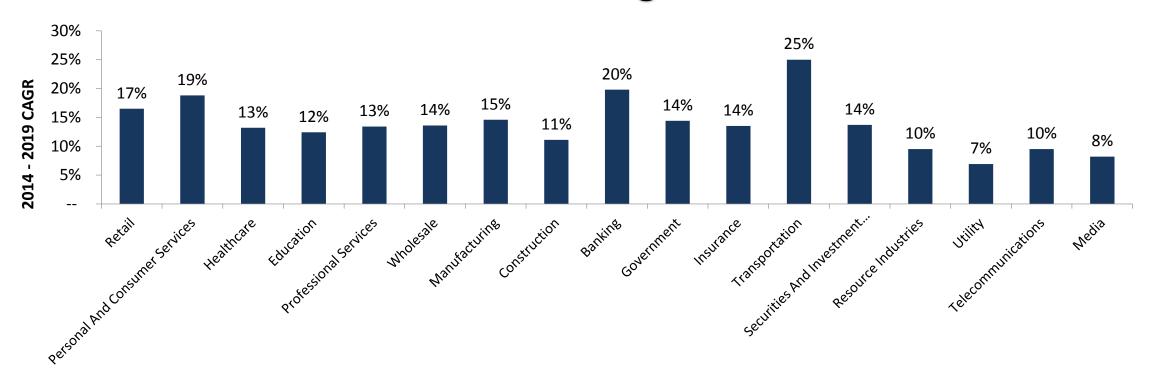








# Significant Digital Signage Revenue Growth Across Industry Verticals Through 2019







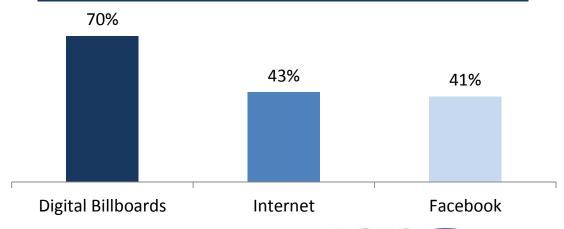


## **Digital Signage Facts**

 Digital media on screens in public venues reach more customers than videos on the Internet or Facebook

/ho Felt Digital Billboard od Out More Than
71%
46%

% of Americans Who Have Seen an Ad in the Past Month on...





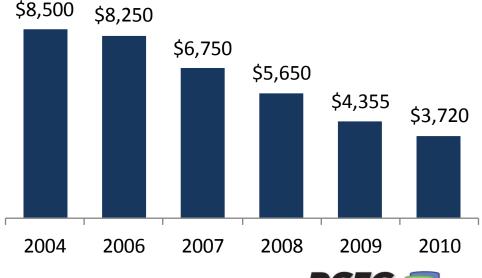




## Digital Signage Facts (Cont.)

- Digital signage adoption and use-cases increase as cost of implementation continues to fall
  - Since 2004, the cost of implementing and operating a digital signage network has decreased by more than half
- Retailers are using in-store and POS digital signage advertising to increase brand awareness, drive sales and engage customers

Capital Costs for Digital Signage Networks
The cost of a 100-node network<sup>(a)</sup> was twice as high in 2004 as in 2010, and has fallen considerably since.
(Amounts in Millions)







## **Industry Trends**

#### **4K Displays**

- Consumer adoption of 4K displays is expected to drive demand for 4K signage
- Higher-end digital signage users such as luxury brand marketing and high-end retail have been the first users of 4K displays
- A challenge facing the introduction of 4K signage is the need for content at 4K resolutions (especially video content)



#### **Experiential Shopping Environments**

- Digital signage can help facilitate an omnichannel shopping experience
- Interactive digital signage can enhance the shopping experience in many ways:
  - Customizable advertising
  - Consumers can further research products before buying
  - Mobile payments / e-commerce



### **Interactive Displays**

- Retail (experiential shopping environment) and Wayfinding (malls / airports / other public spaces) are primary drivers
- Advances in multitouch technology enable multiple users to use the same display
- Smartphone services such as mobile payments or social networking facilitate interaction





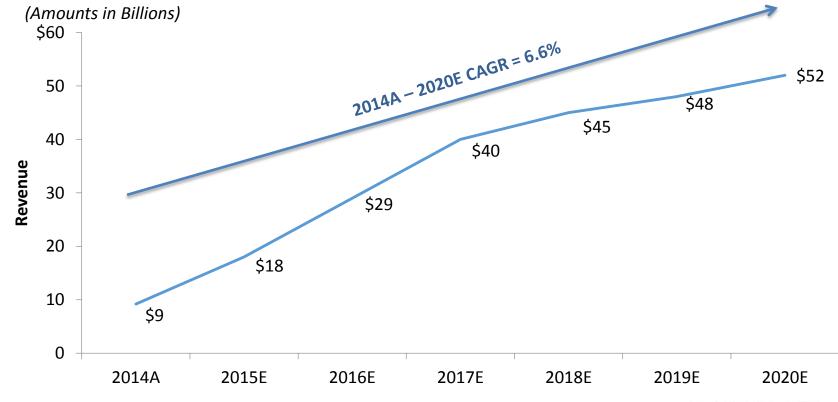




Endless innovation. On display.

## Global 4K Display Market

- In 2015, 4K moved from a luxury feature to a component in all major display applications
- Now used in desktop monitors, notebook PCs, OLED TVs, digital signage, smartphones and tablet PCs

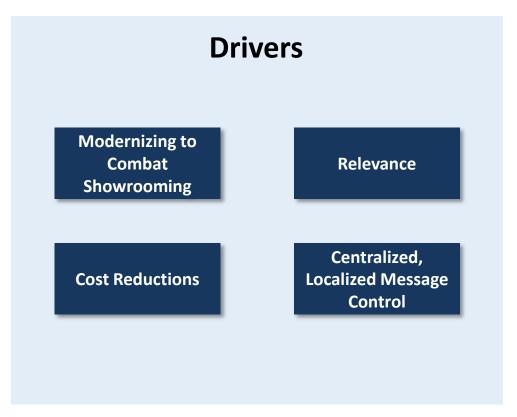


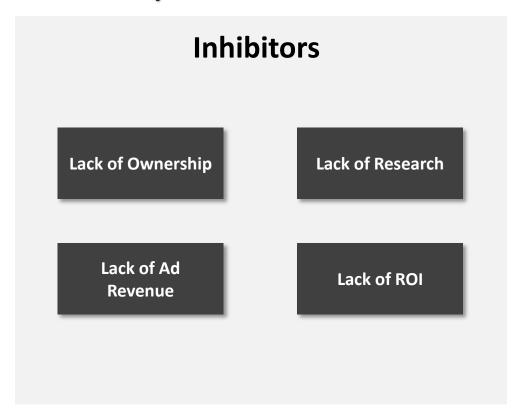






## Drivers and Inhibitors of Industry Growth









The Smart Cities Opportunity For Digital Signage / DOOH is Huge...



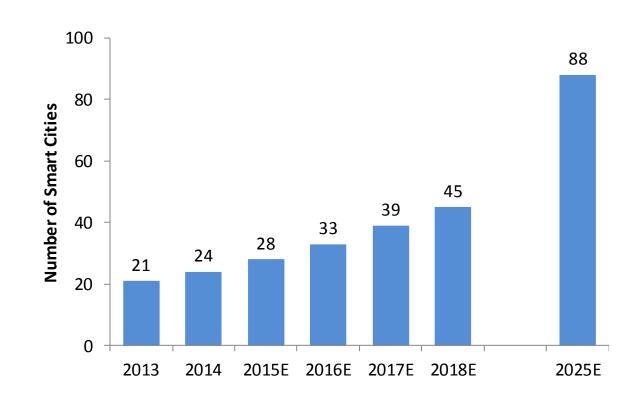




Endless innovation. On display.

## **Smart Cities Opportunity**

- Smart cities represent a \$1.5 trillion market opportunity in energy, transportation, infrastructure and governance
- Currently 28 "smart cities" spread throughout Europe, North America and Asia Pacific
- Additional 102 planned and in-progress smart cities, with 88 expected to be successfully completed by 2025









## Participants in the Smart City Market

#### **Product Vendors**

Provide smart meters and distribution devices (e.g., automated switches, voltage regulators) that operate as main nodes of connectivity



#### **Integrators**

 Provide integrated turnkey solutions that package together various smart city capabilities and technologies



#### **Network Service Providers**

 Offer collaborative networks and enterprise working solutions that connect people, assets and systems by leveraging M2M capabilities



#### **Managed Service Providers**

 Offer around-the-clock monitoring, management and compliance services and on-site consulting for smart city solution providers





Source: Frost and Sullivan, IHS Technology research and MIT Technology Review.





Mobile Technologies Should Drive Digital Signage Growth

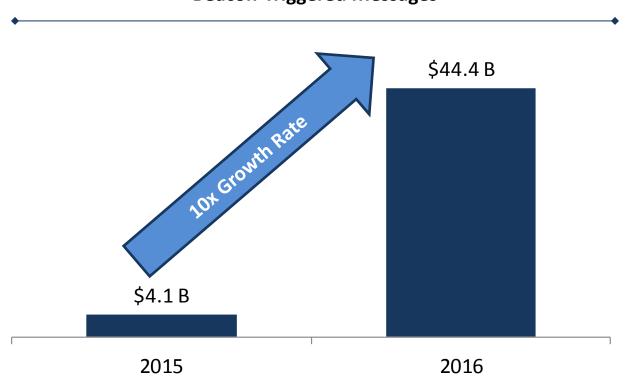






## Market for Proximity Engagement is Exploding



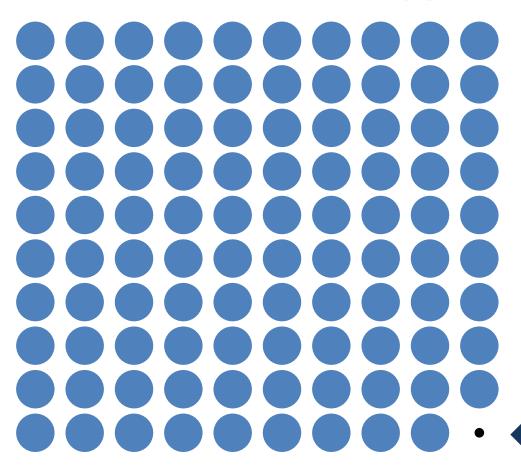








## **Massive Opportunity for Proximity**



Estimated 60M to 300M Beacons Deployed Worldwide By 2018

The Market is Here







## Recommendations

1. Consolidation

2. Education to Prove ROI







## This concludes the Digital Signage Expert Group **Continuing Education Course**

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