



# FINCONS



10th HbbTV Symposium and Awards

9 – 10 November 2022 | Prague

US Market Review



**SPECIAL GUEST**

**SINCLAIR**  
BROADCAST GROUP

**Experiences on ATSC3 Broadcast App Implementations**

Oliver Botti – SVP Sales & Innovation Executive Director at Fincons

**Sinclair update on ATSC3 strategy**

Mike Kralec – SVP CTO at Sinclair



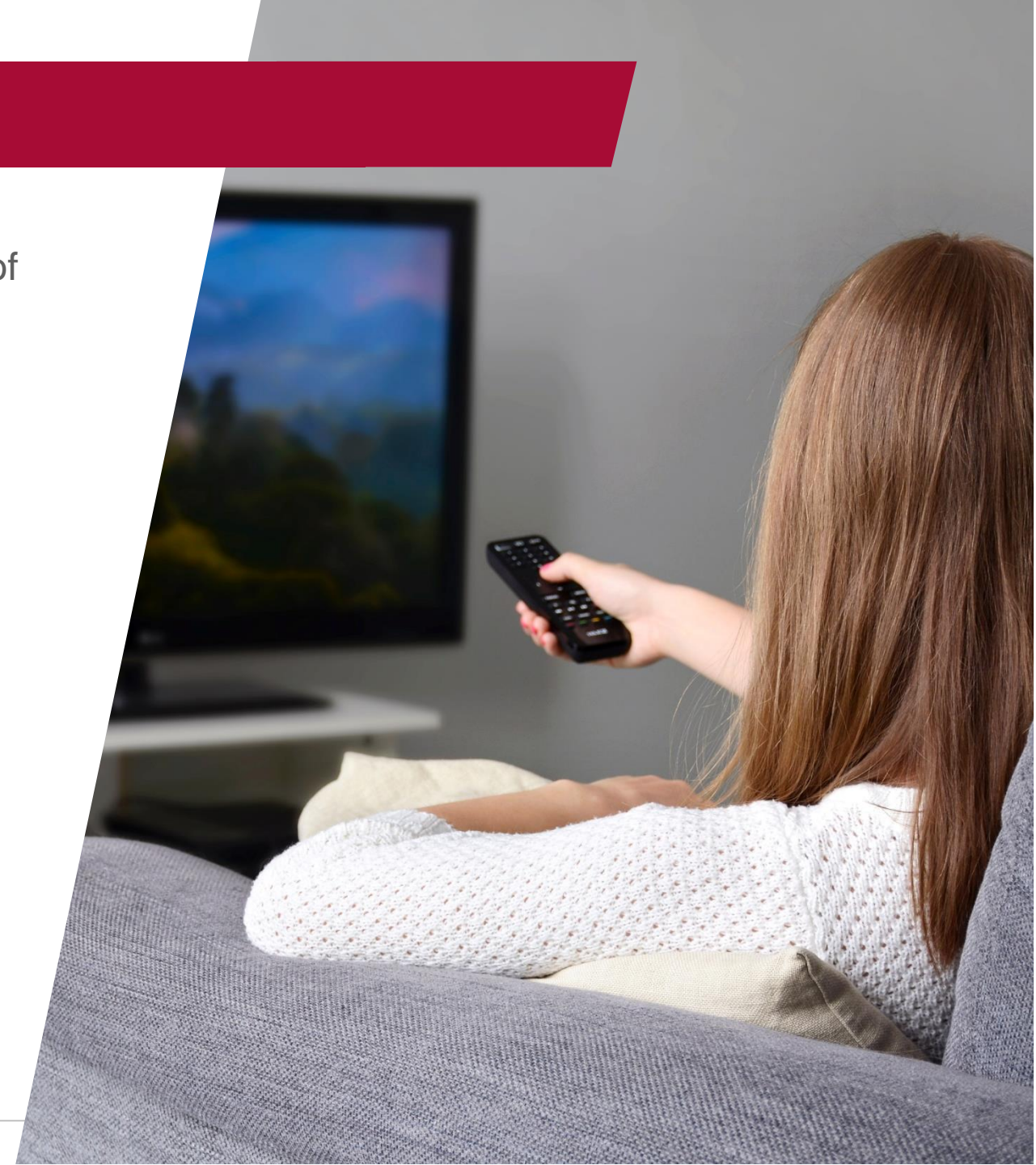
# NextGen TV: the TV Re-volution

We are assisting to a global move towards a new form of Television: **interactive, participative, personalized, addressable.**

ATSC3 takes the baton from HbbTV European experience and literally runs with it

Fincons Group actively contributed to spread both HbbTV in Europe and ATSC 3.0 in the US

This presentation is an update on the ongoing NextGen TV move through the latest real examples. Helping to identify market trends, challenges, opportunities, and lessons learned.

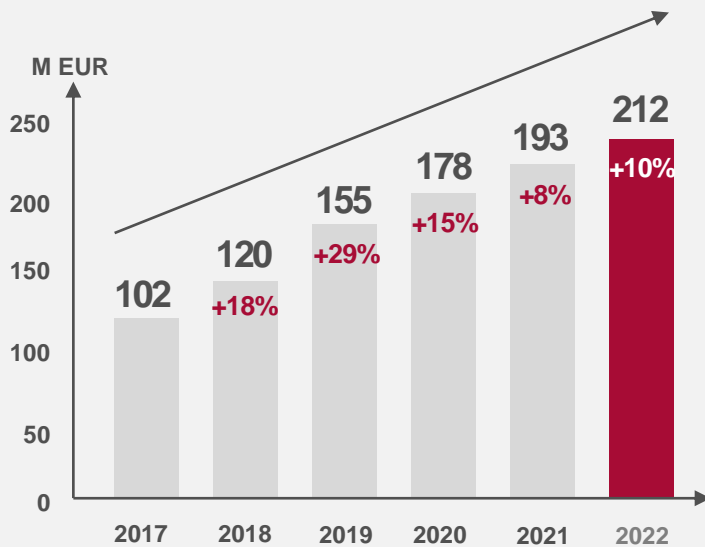


# Fincons Group Highlights

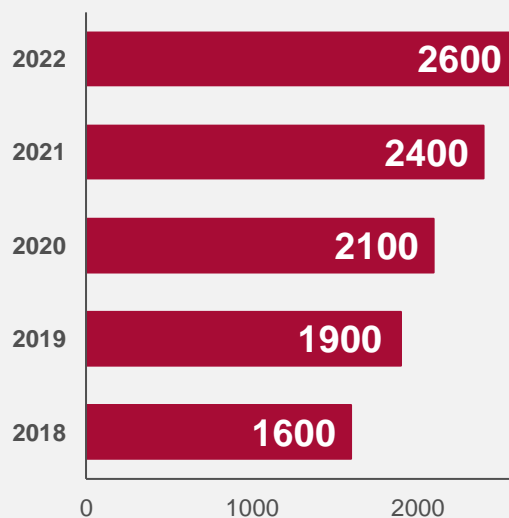
## A significant growth



From 39 years on the market, Fincons Group is a **reliable partner** to design, implement and maintain the Information Technology to enable business competitive advantage



## Headcount



## Locations



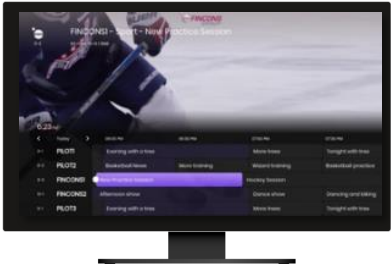
## What we do

Consulting  
and System  
Integration

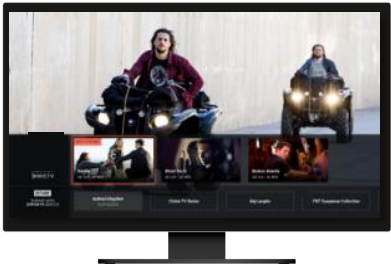
System  
Building and  
Operation

Product  
Development

# NextGen TV in the US: Fincons' boost



First complete Broadcaster App leveraging the new ATSC 3.0 A/344 standard with Channel Info, Channels List, EPG, VOD



## WarnerMedia

"Hybrid binge-watching" application promoting Live-To-VOD and VOD-to-Live functionality for Broadcaster's channels with fragmented audience



Cooking show application for CBS (*Saturday Morning* segment, *The Dish*): from sponsorship to TV e-commerce ([video](#))



Redesign and Open Sourcing of Sinclair ATSC Broadcast App UI/UX, including Call To Action, Emergency Alerting, Weather, Favourites, Categories, Channels...



ATSC custom broadcast app based on Sinclair's open source project, including: Call-To-Action, Weather, Settings, ADV Banners integration, geo-localization, GA



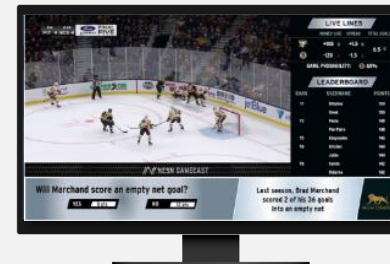
NextGen TV Apps on OTA channels for Univision and Unimàs, integrating the A3FA Framework Alliance library ([video](#))



News Literacy Project App, to help citizens recognize and dismiss false news and avoid misinformation ([video](#))



Remote Schooling for Educational Equity, with the Howard University Middle School, leveraging ATSC3 datacasting ([video](#))



Sports Gamification: contest, gamification, betting, social dimension, value for ADV ([video](#))



# Televisa Univision ATSC3 Broadcast App

## Hyperlocal news as NextGenTV roadmap start

This is one of the first **ATSC 3.0 Broadcast App** in live production, providing viewers with additional personalization, as well as local and hyper-local content that really speaks to their interests, continuing to build loyalty and retention among viewers, maximizing user engagement and advertising opportunities.

Developed by Fincons for **Televisa Univision**.

Based on the RUN3 TV Framework.



# Live sport betting/gamification App

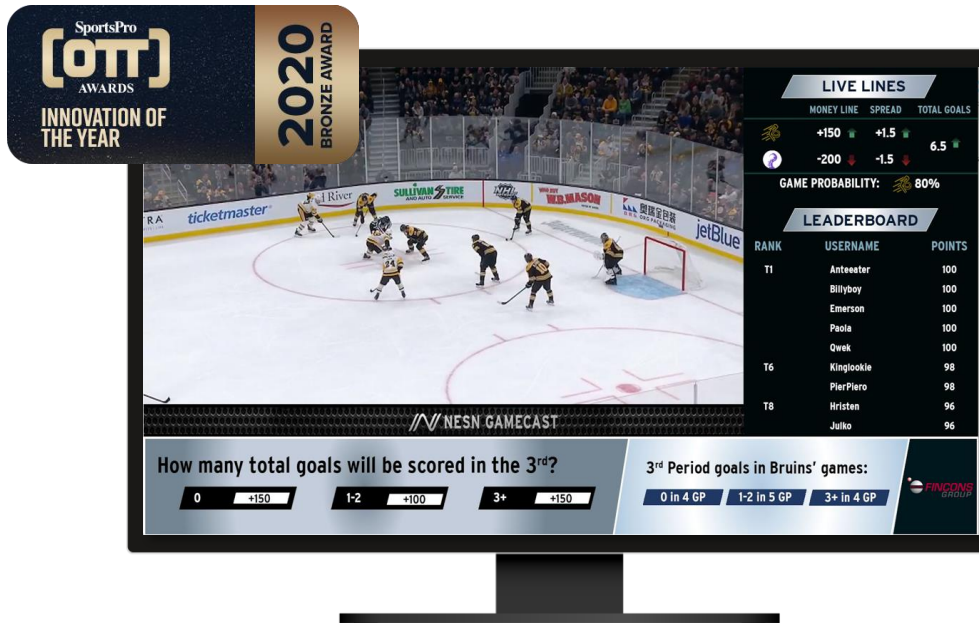
In collaboration with Verance



## Sport Gamification



- **Pre/mid/post Game Questions**, raised through back office and triggered in sync with video
- **Users leaderboard** and gamifications ranking in addition to real-time statistics



## Betting and External Information display

- **Big screen app** in synch with a live event, **Sport Stats** and a **Betting** service provider; able to receive and to render on screen bet live notifications.
- **L-BAR frame** provides users' data, enriched graphics, sport stats, betting info and match results.
- **Watermarking** is used for the identification of the match phase (pre-mid-post game) and can be extended to any notification during a real live match including betting quotes and game results.
- **Mobile app** is integrated with the TV app, used for bets input, and kept in synch.

# Sinclair ATSC3 Broadcast App



## Open Sourcing to favor ATSC3 adoption

Fincons contributed to the **redesign** of the Sinclair broadcast app, introducing **a new interactive User Experience** to prepare the “second-wave” of adoption at larger scale. The Sinclair ATSC3 App has been open sourced for the benefit of US broadcasters and Fincons has partnered with Sinclair for its distribution.

**Main Features:** Call-To-Action, Emergency Alerting, Weather, Favourites, Categories, Channels.

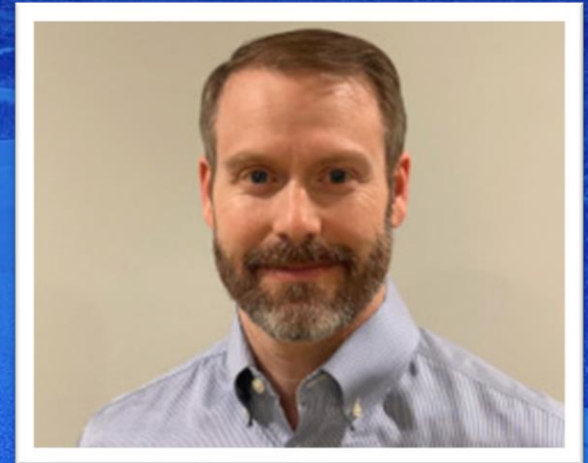


# ATSC 3.0 US Update

November 10th, 2022

Mike Kralec, SVP/Chief Technology Officer

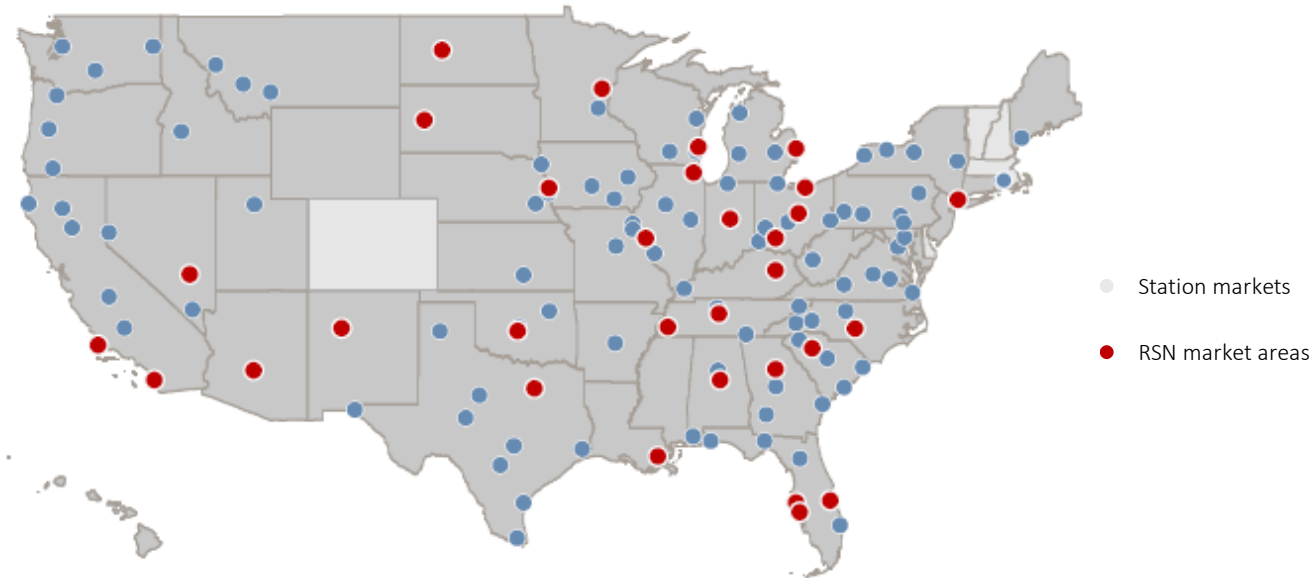
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# Sinclair Broadcast Group | Now a Television Broadcaster and IP Network Operator

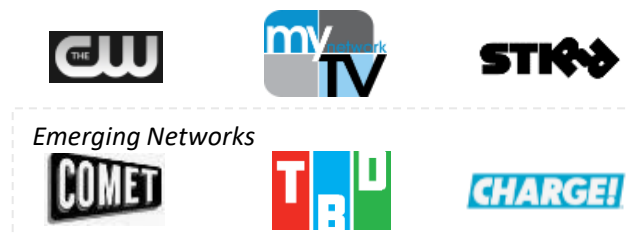
*Sinclair Broadcast Group is the second-largest television station operator in the United States and a pioneer in the global development and deployment of ATSC 3.0 technology*



## News



## Non-News Channels



## Sports



**ENVISIONING**  
THE POSSIBILITIES

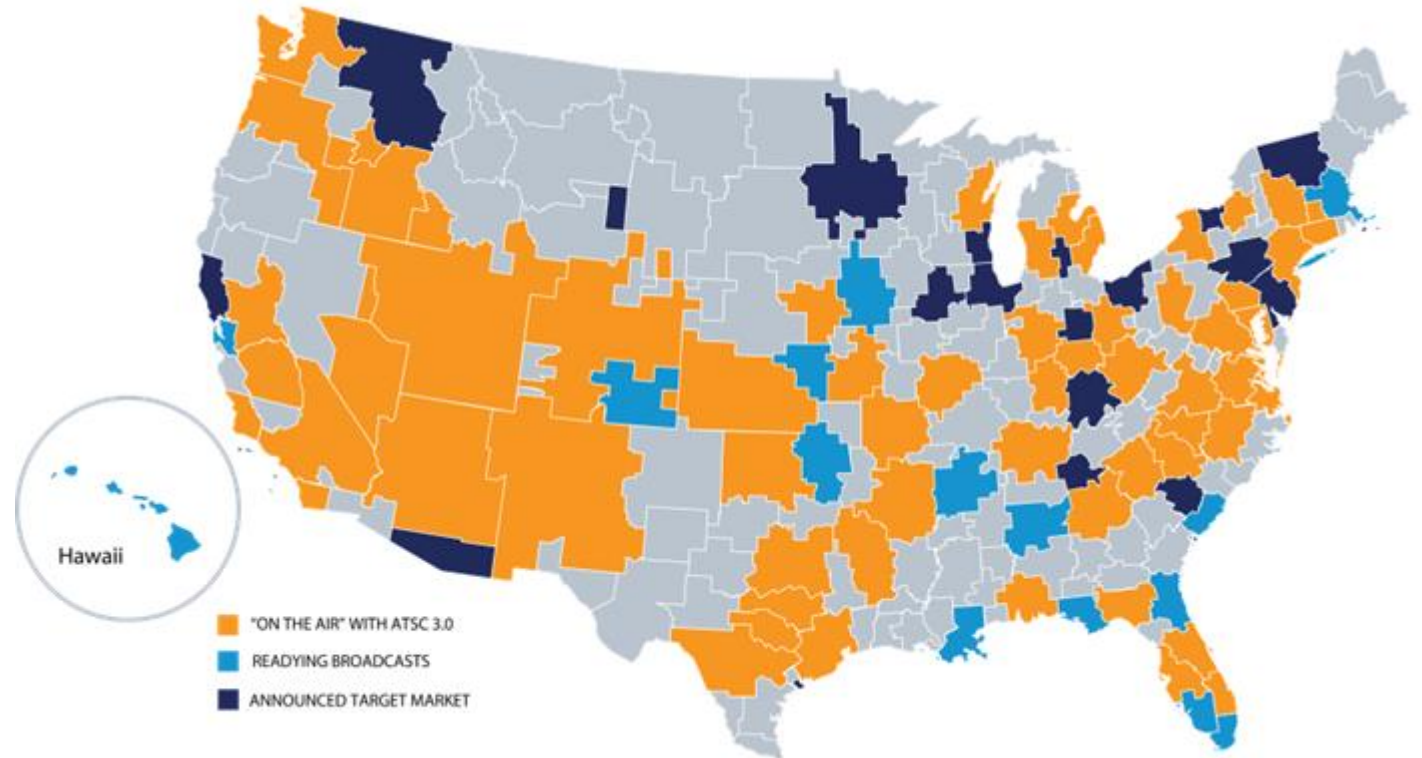
# Deployment & Adoption of ATSC 3.0

## *Coverage is quickly developing...*

- ATSC 3.0 broadcasts now cover **over 50% of US HH** and are projected to reach **80% by the end of 2022**
- Sinclair will have transitioned **41 markets** to NextGen by the end of 2022
- Availability of lower cost ATSC 3.0 receivers (dongles, gateways, set-top-boxes) is increasing

## *...and efficiency of the standard is increasing*

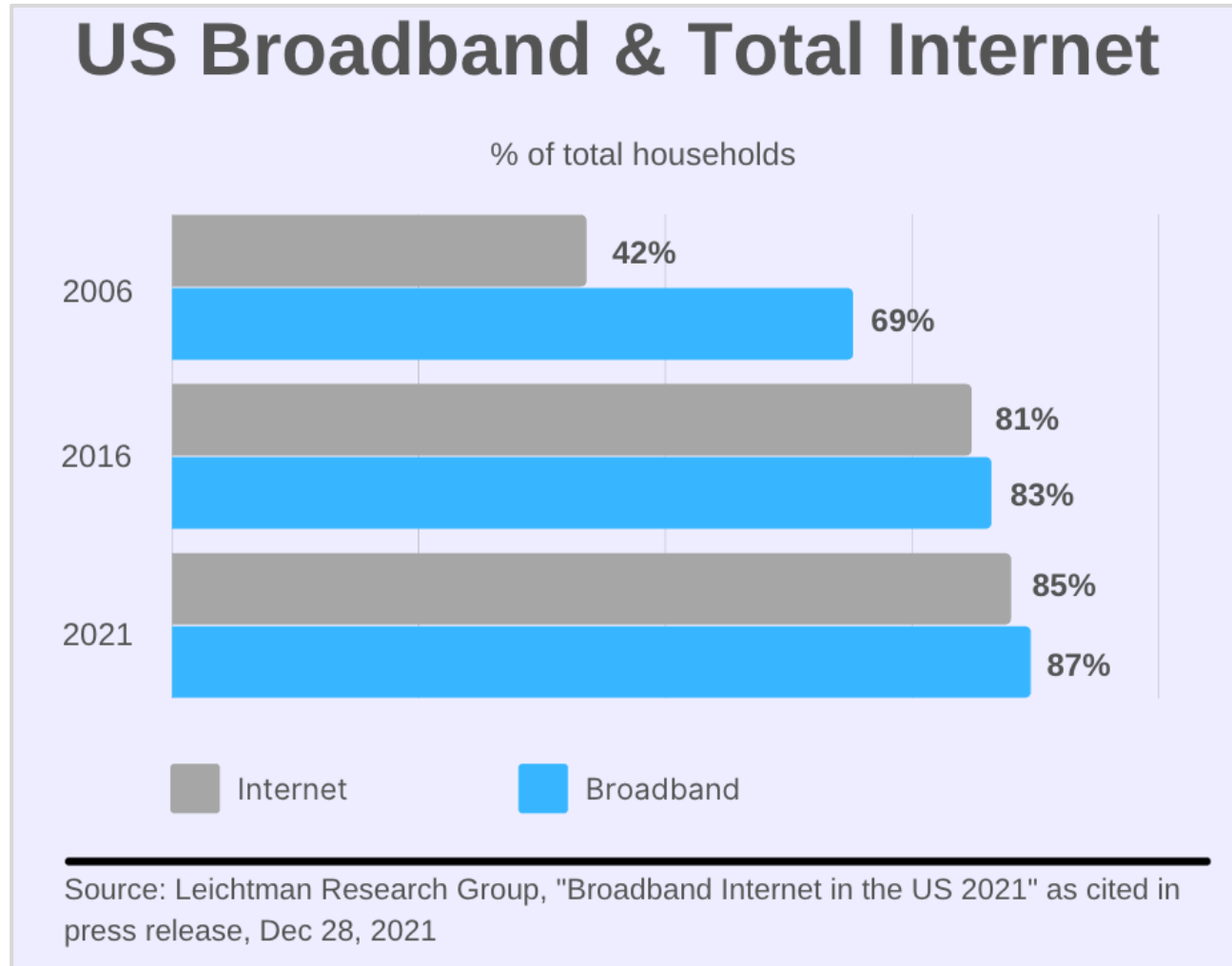
- ATSC 3.0 standard creates **significantly higher throughput** using the same spectrum resources
- Anticipated technology advancements in the next 3 years will **double ATSC 3.0 efficiency**





*nextgentv*

# New Consumer Expectations



- Nearly 90%, of Americans have broadband at home
- Over 82% have at least one Internet-connected TV device
- Nearly 40% of adults in U.S. TV households watch TV daily via a connected device
- NextGen TV connectivity really governed by ATSC 3.0 set penetration
- Consistent 2x/6months growth in set penetration



# Digital and Broadcast Converge

The technologies to enable the IP content delivery are different, but the operations and capabilities align!



\*Verance audio watermark loads the BA even if the consumer is watching via cable (MVPD)

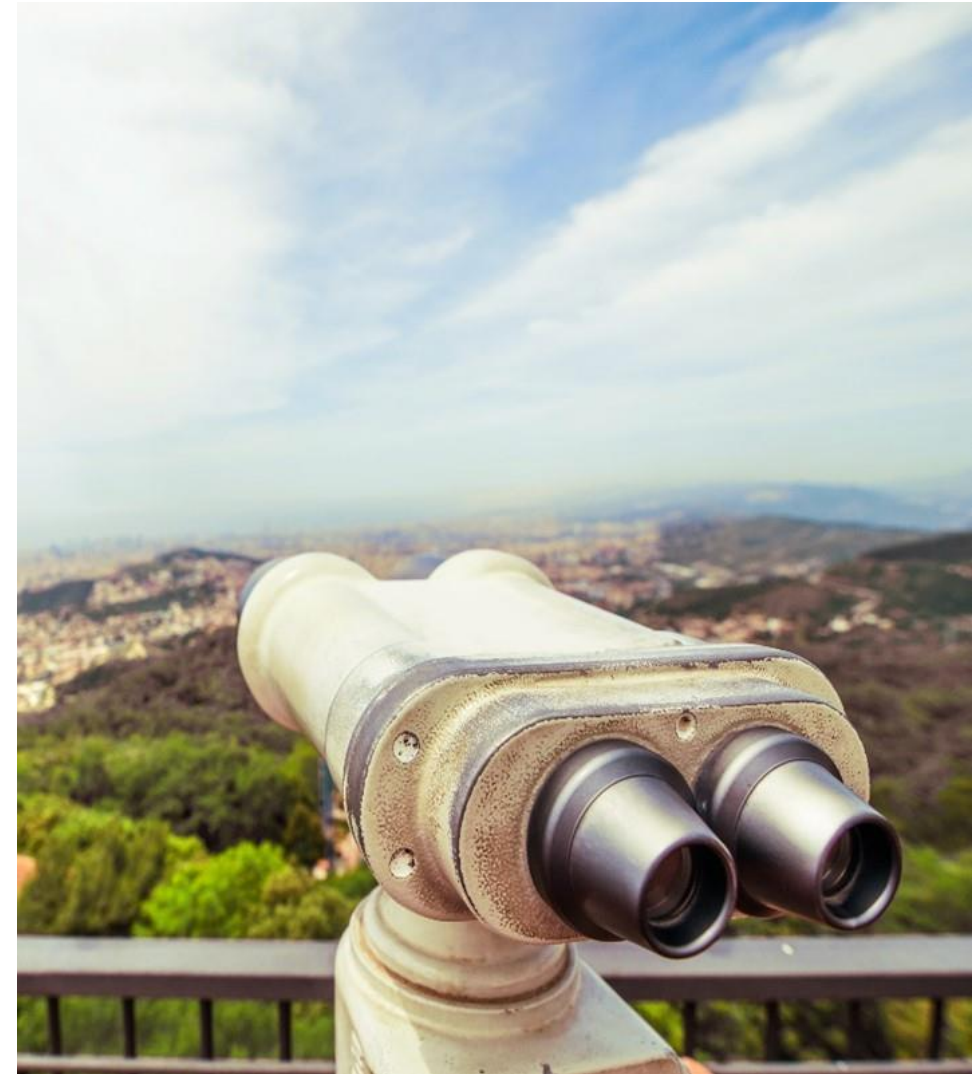
- HTML5-based
- DASH streaming video
- Limitless extension potential
  - Authentication – QR or mobile app
  - Broadcast news flashes
  - Detailed program data
  - Related, recommended, content
  - OTT content streams
  - Premium features
- Other data sources including advanced emergency alerts



# Wireless IP: Data Delivery as a Service (DDaaS)

Use of broadcast IP spectrum internet and 5G technology to reach our consumers on multiple platforms

To maximize the value of our ATSC 3.0 spectrum, Sinclair will build and operate a scalable, cloud based NextGen wireless data distribution platform in the U.S. capable of delivering IP data to fixed and mobile devices.





- Seoul Pilot Program 2022
- Mobile Datacasting & Targeted Ad Insertion with KBS & Hyundai



#### Film-type UHF ANT

- Attached at the window of a passenger seat
- 4xANT attached
- Wires connected to ATSC 3.0 STB through A-pillar

#### ATSC3.0 STB

- ATSC RF receiving (4xANT)
- CAST.ERA M/W inside
- WiFi capable

#### S8 Tablet attached to Headrests (CAST.ERA App.)

- ATSC 3.0/OTA player through WiFi (HEVC, MPEG-H)
- 5G/OTT for Target Ads Insertion w/ GPS info

# Nexstar ATSC3 Broadcast App

## Delivering custom ATSC Broadcasting App from Open-Sourced project

Fincons implemented for Nexstar a BA based on the Sinclair's open source project, customizing it as follows:

- **navigation nodes;**
- Rendering using **Nexstar's preferred APIs** and using the **ZIP code** for **geolocating** the device;
- Customization of the setting section and usage of **IP-based geolocation service;**
- Integration with **Nexstar's Google AD Manager;**
- Integration with **Google Analytics for ADV tracking;**
- Creation of a **WordPress CMS easy-to-use instance** for local markets skinning

**Main Features:** Call-To-Action, Weather, Settings, ADV Banners integration, geo-localization, GA







# NextGen TV Strategic Roadmap

Audience is ready for a new experience.  
Markets are willing to experiment new business models.

Broadcasters and operators should carefully define their strategic roadmap:

- Integrating NextGen TV services within a cross-channel proposition
- Combining TV with online channels and the proper mix of new services

In accordance with their overall brand positioning.

# Thank you!



**Oliver Botti**

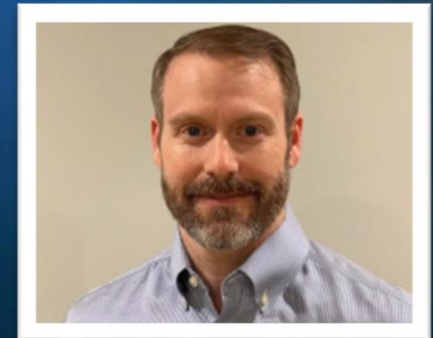
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Mike Kralec, SVP/Chief Technology Officer

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