



AIMS

Alliance for IP Media Solutions

Introducing



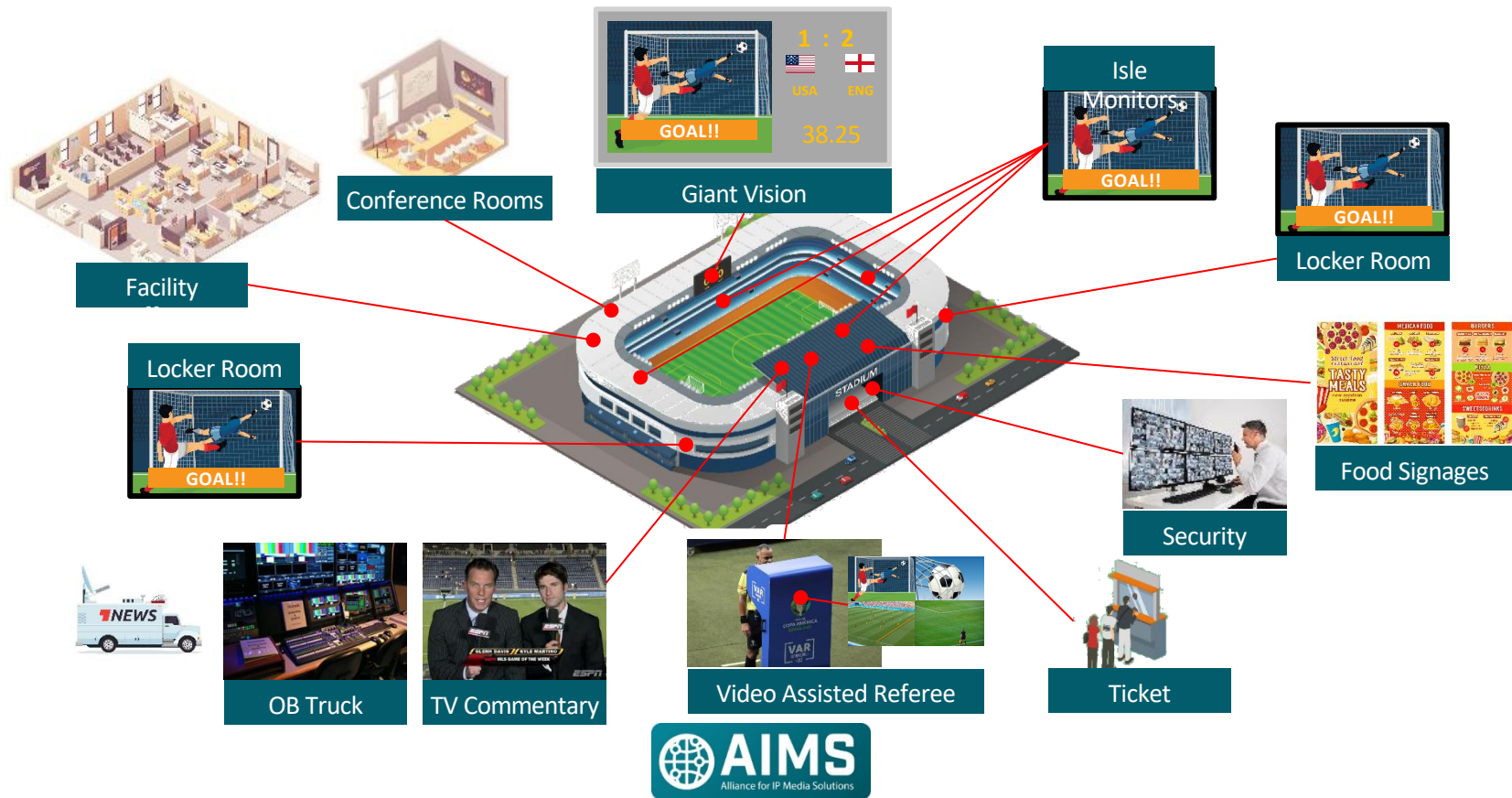
Andrew Starks, Director of Product Management, Macnica

Integrated Systems Europe (ISE)

RAI Amsterdam, Room G110

February, 11th 2020.

We're all just video now...



AV over IP Landscape

Some of the Marketing/Proprietary “Standards”...



NDI and NDI|HX / NewTek



SDVoE Alliance / Semtech
BlueRiver



HDBaseT / Valens
Not IP – point to point, popular

Open Standards and Specifications for Broadcast and Pro AV



ST 2110



networked media
NMOS
open specifications



IPMX (Internet Protocol for Media Experience) is a set of **open standards and specifications** to enable the carriage of **compressed** and **uncompressed** video, audio and data over IP networks.

It includes provisions for **control**, **copy protection**, **connection management** and **security**

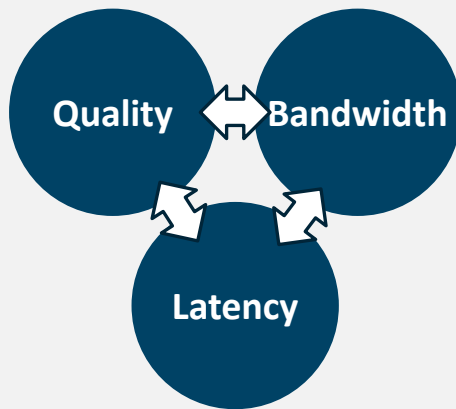


Proposed Open Standards and Specifications...



What is needed for AV over IP for Pro AV?

Flexible tradeoffs



Integrate with HDMI

HDCP, CEC, EDID, HPD, USB, ...



Proposed AIMS ProAV Roadmap – February 2020

Audio over IP	Standardized Transport of Audio, Video, & ANC Elements	ProAV Standards & Specifications	
AES67 Audio Over IP	SMPTE ST 2110-10 Timing & Definitions SMPTE ST 2110-20 Uncompressed Video SMPTE ST 2110-21 Packet Pacing SMPTE ST 2110-30 AES67 Audio SMPTE ST 2110-31 AES3 Audio Transport SMPTE ST 2110-40 Ancillary Data	SMPTE ST 2110-22 CBR Compression in ST 2110 ISO/IEC 21122 JPEG XS Codec NMOS IS-04 & IS-05 Discovery, registration & connection management EDID / DisplayID / HPD Support*	HDCP* Copy protection General Purpose I/O* IR Remotes, GPIO, USB, RS232 over IP NMOS IS-08* Audio channel mapping IPv6* Network addressing Security* Authentication, Encryption

AES67

SMPTE ST 2110



Required

Optional

* not ratified yet by AIMS, and therefore proposed roadmap additions



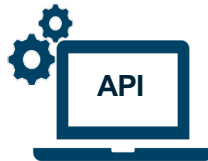
Success is...



**Highest
performance for
the specific
application**



**Simple,
transparent,
and scalable
interoperability**

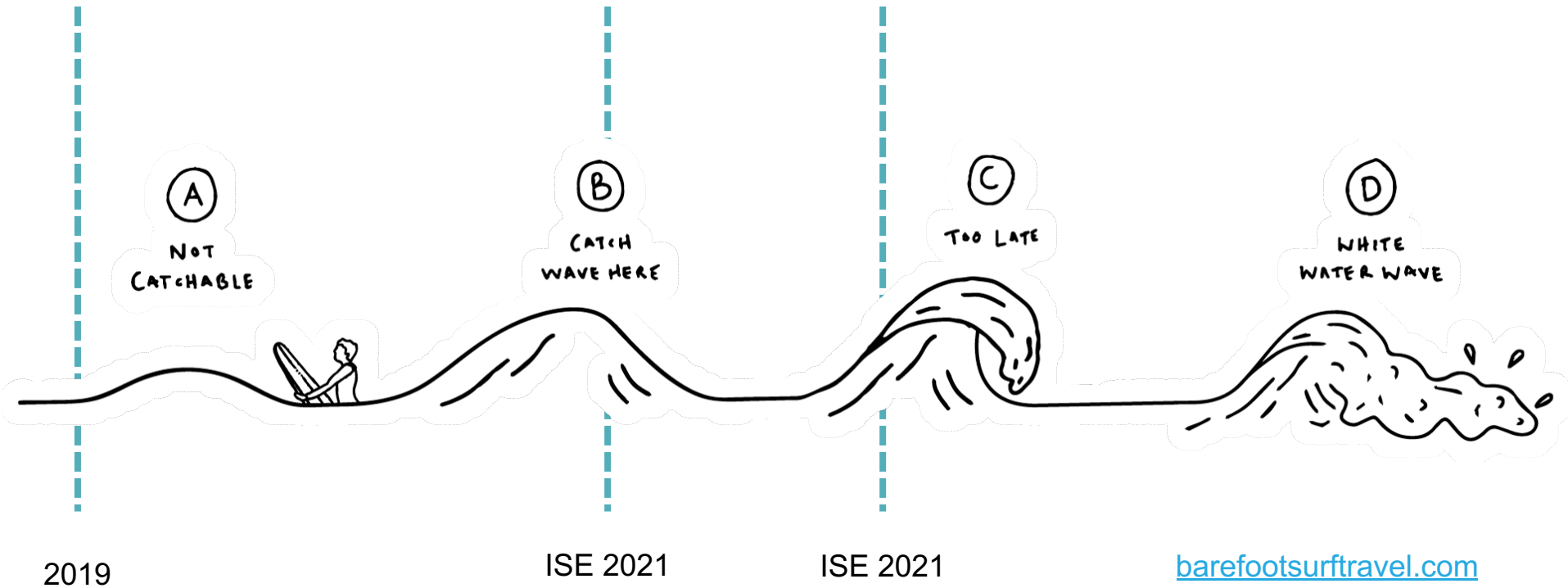


**One clean and
simple API for
AV over IP
communications
and control**



**It is...
better than
what it
replaces**

How to Catch a Wave... (and a prediction)



21st Century Gutenberg Moment

Today, we tell stories with video and now, we are defining open standards for audio and video over IP. That is, we are defining how 21st century's version of ink is applied to paper.

When we do, the impact will be transformative, not only for the Pro AV industry, but for human beings everywhere.



Replica of The Gutenberg Press
https://en.wikipedia.org/wiki/Printing_press



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QUESTIONS?