

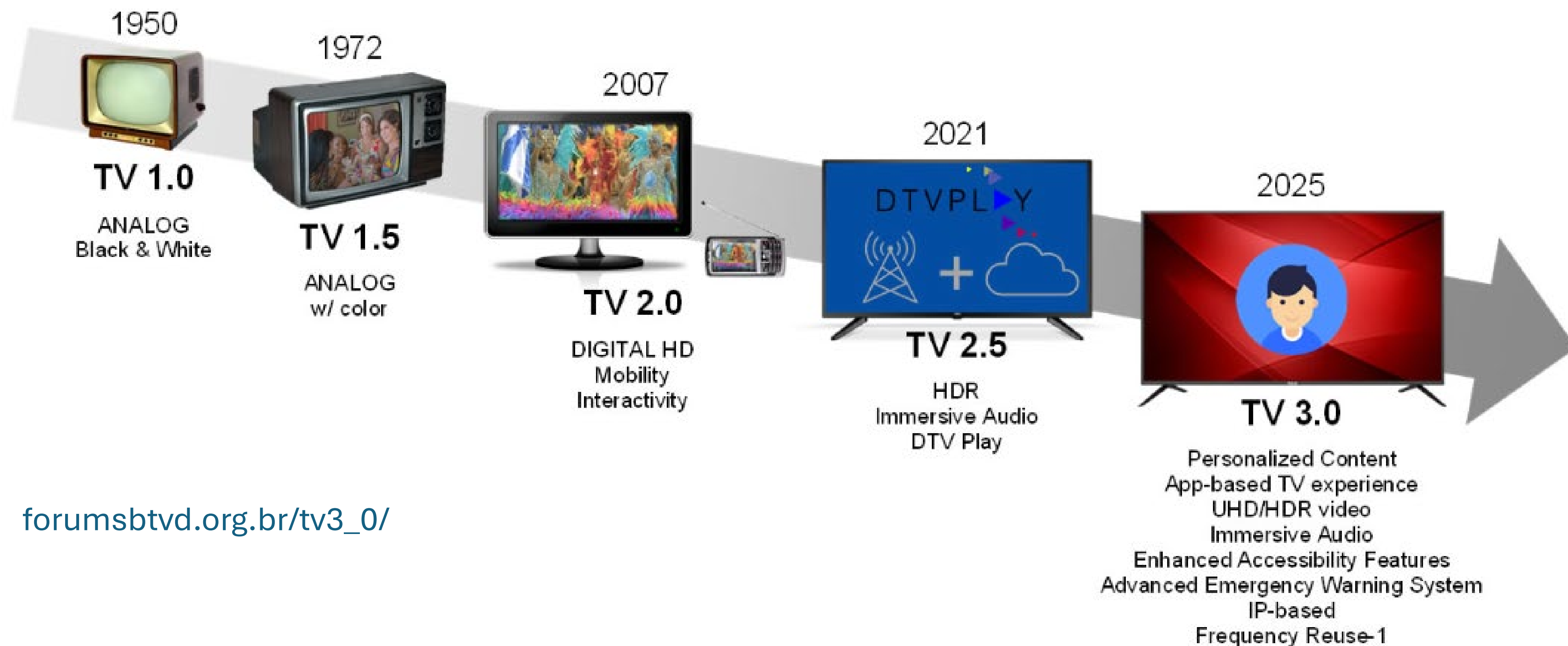


TV 3.0

Shaping the Future of Television

the Forthcoming TV 3.0 Broadcast Launch in Brazil

Terrestrial TV Evolution in Brazil



forumsbtvd.org.br/tv3_0/

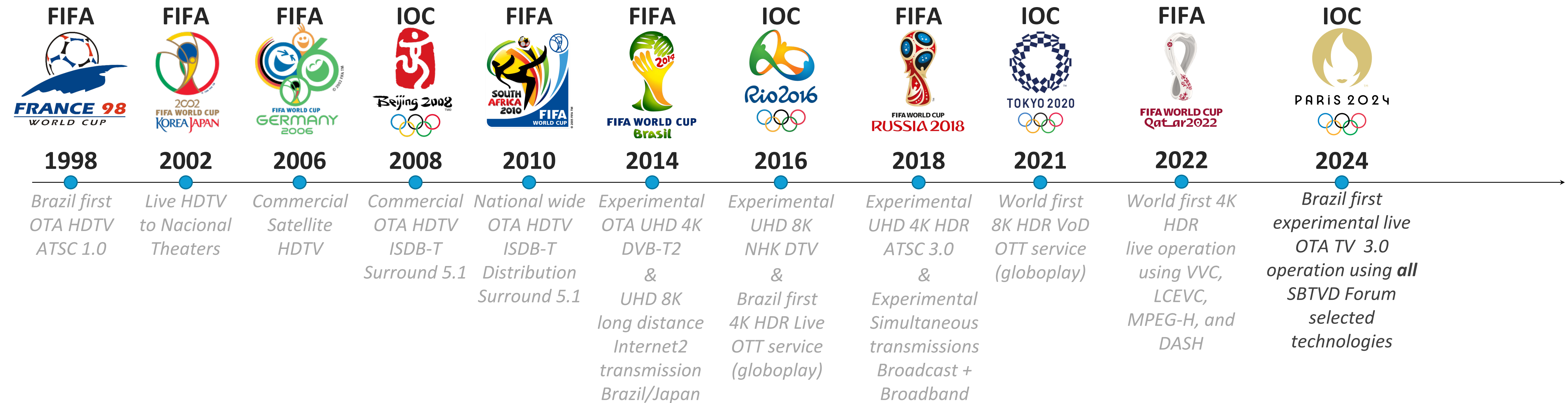
The most advanced broadcast television system in the world

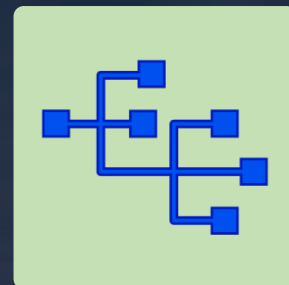
- ✓ Channels as Apps
- ✓ Personalisation and Targeted Advertising
- ✓ Starting from 4Kp60
- ✓ MPEG-H immersive audio
- ✓ VVC – LCEVC – HDR10 Video

... as Standard



an EPIC journey...





MACRO DIAGRAM



DATACENTER 1



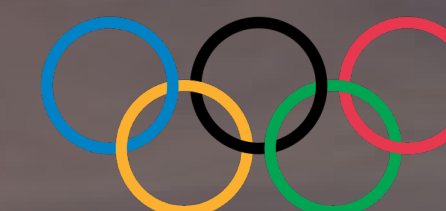
MASTER ROOM 3.0



LOUNGE TV 3.0

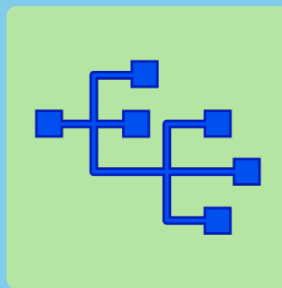


PARIS 2024

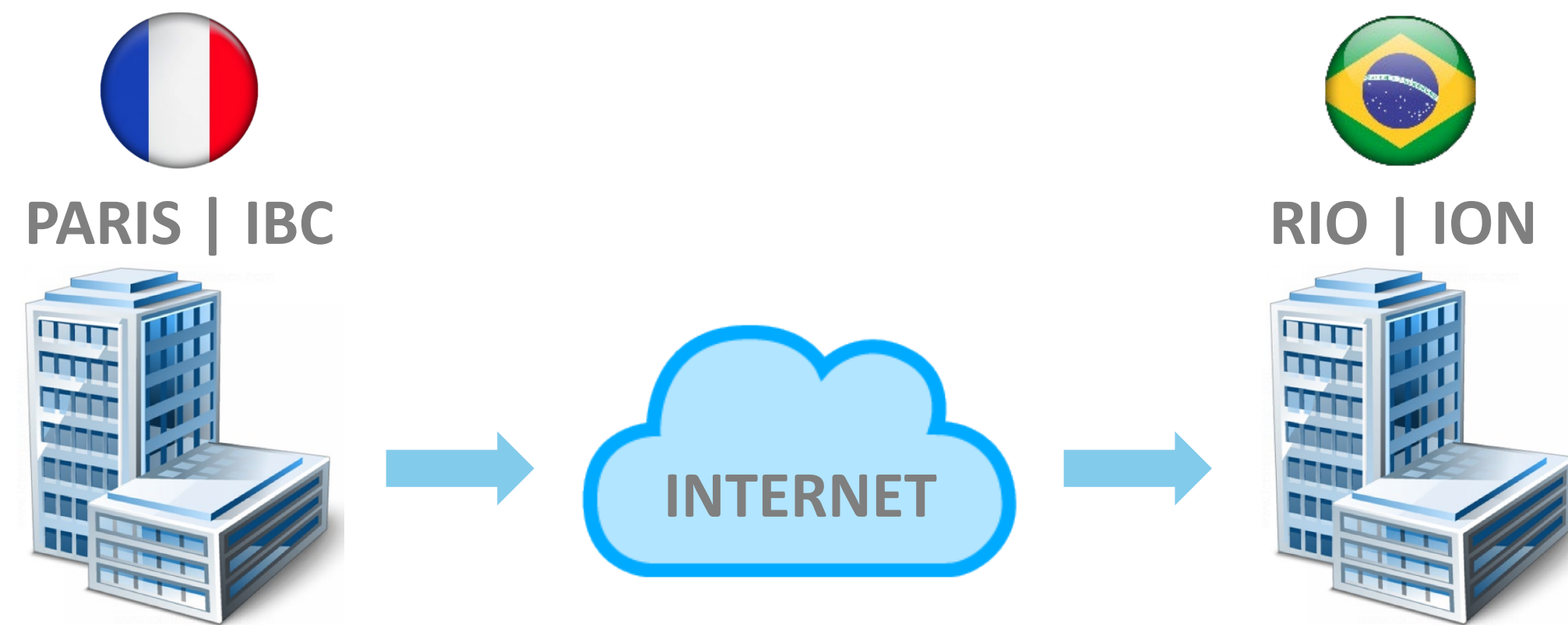


SUMMARY

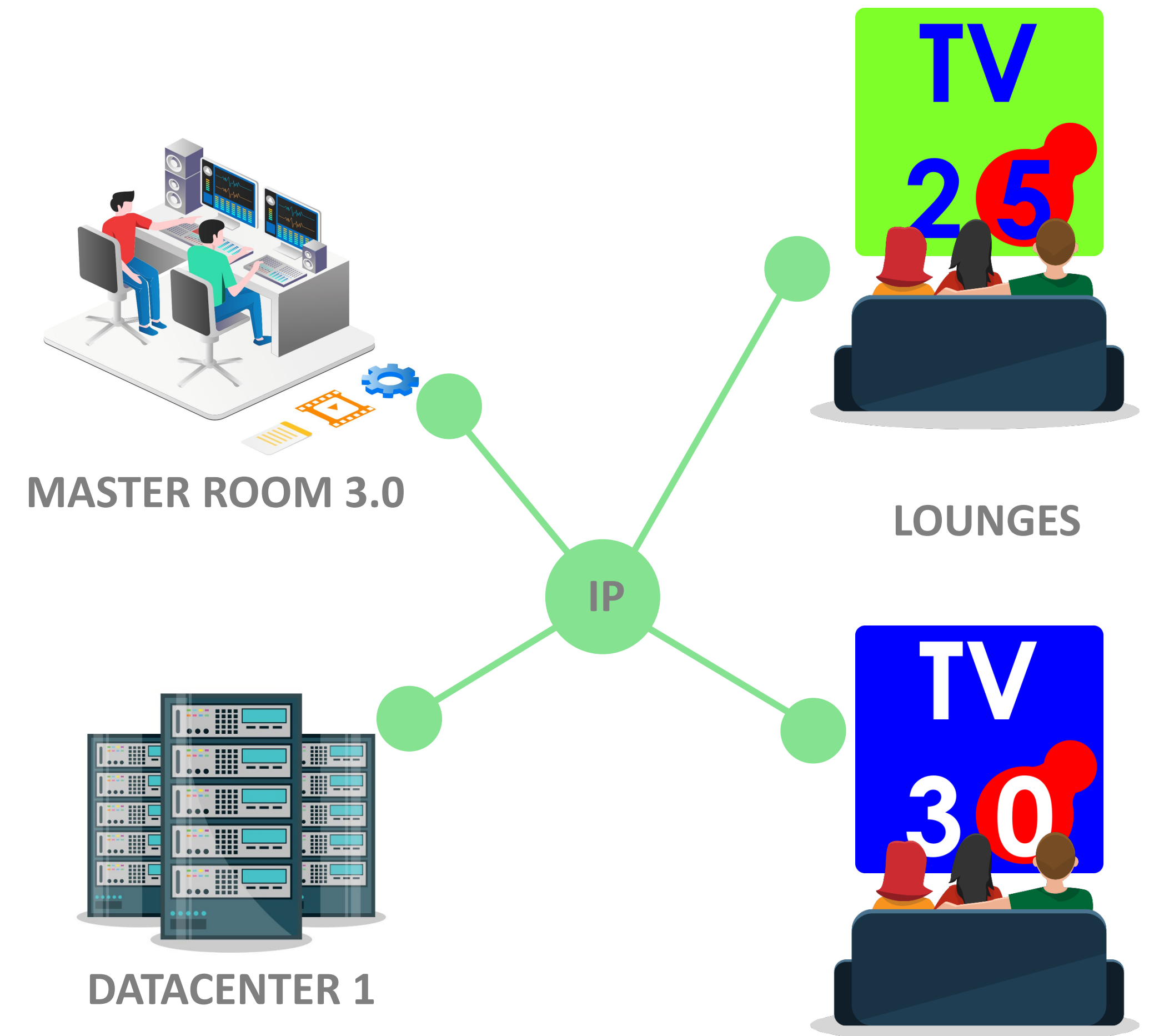




MACRO DIAGRAM



TV 3.0 EXPERIMENTAL OPERATION





DATACENTER 1

- RACK 32 >> brings together the entire processing system before coding.
- RACK 33 >> brings together the entire coding, packaging and distribution system.





MASTER ROOM 3.0



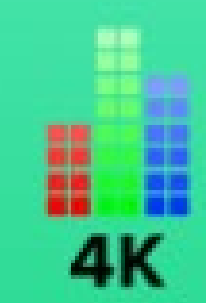


PARTNERS



TV 3.0 Olimpíadas 2024

Venha assistir as demonstrações com as tecnologias da TV 3.0, escolhidas pelo Fórum SBTVD para o novo padrão de TV Digital brasileiro, numa produção ao vivo com vídeo 4K HDR e áudio imersivo personalizável.



DASH

IMSC1

ROUTE



Powered by



TV 3.0 Olimpíadas 2024:

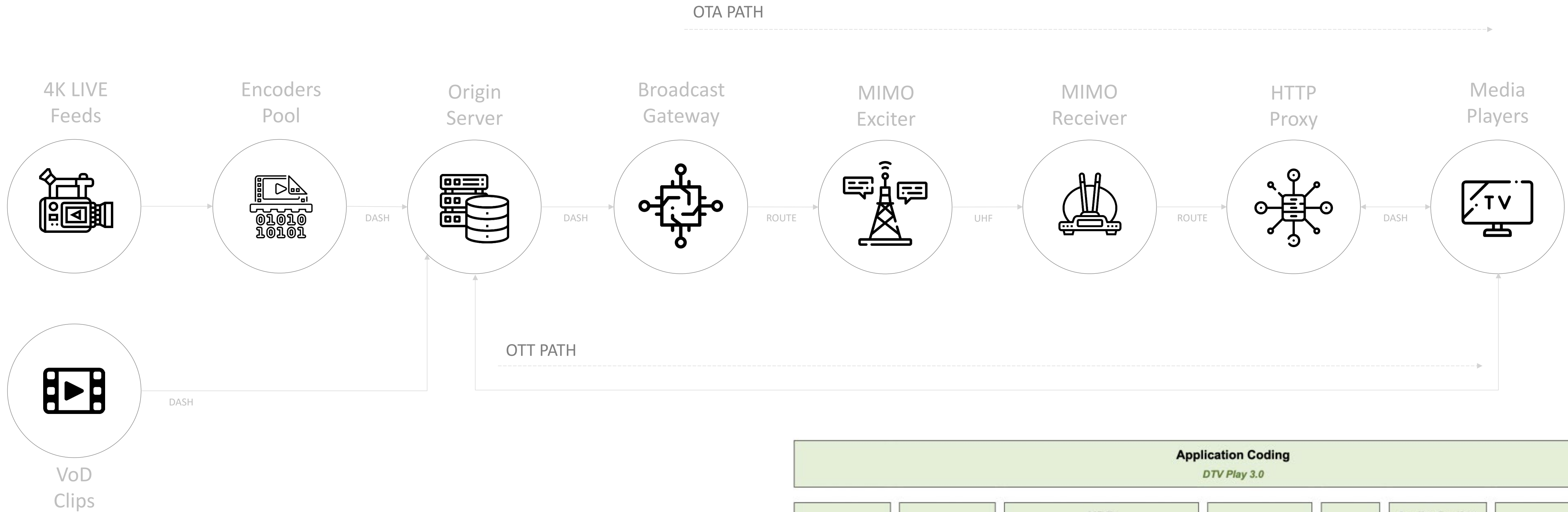


Ecossistema com diferentes TVs e set-top boxes
exibindo conteúdos ao vivo em **4K HDR** com **áudio imersivo e personalizado**.

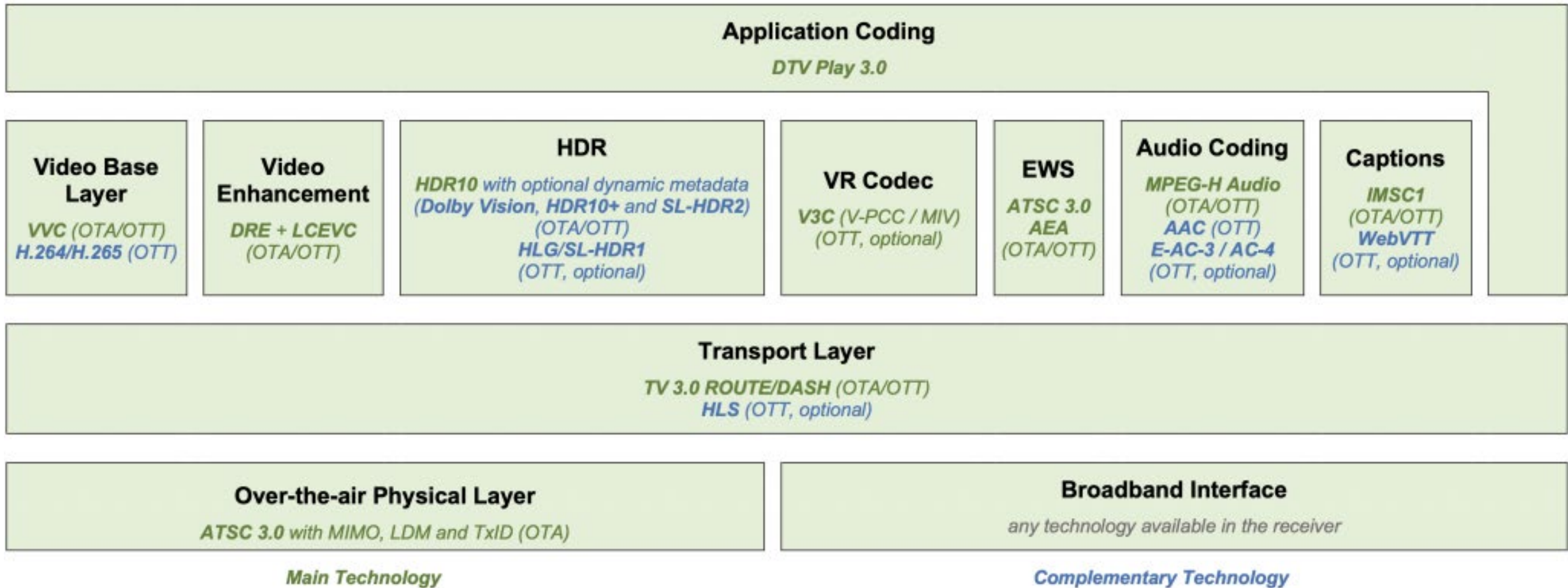




OVERVIEW



Brazil's first experimental live end-to-end
OTA TV 3.0 operation using **all** SBTVD
Forum selected technologies.



TV 3.0 App-based showtime



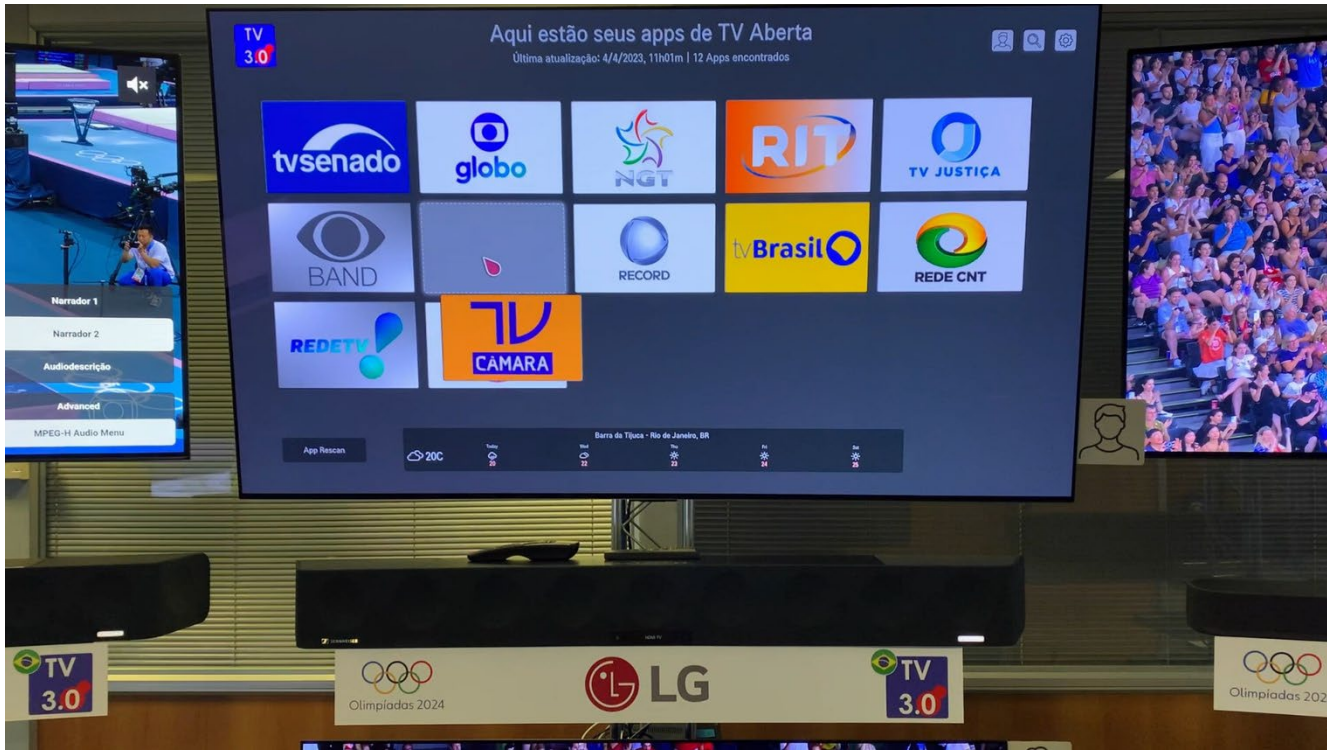
TV

3.0

APP TV 3.0



Smart TV home screen: TV 3.0 entry point



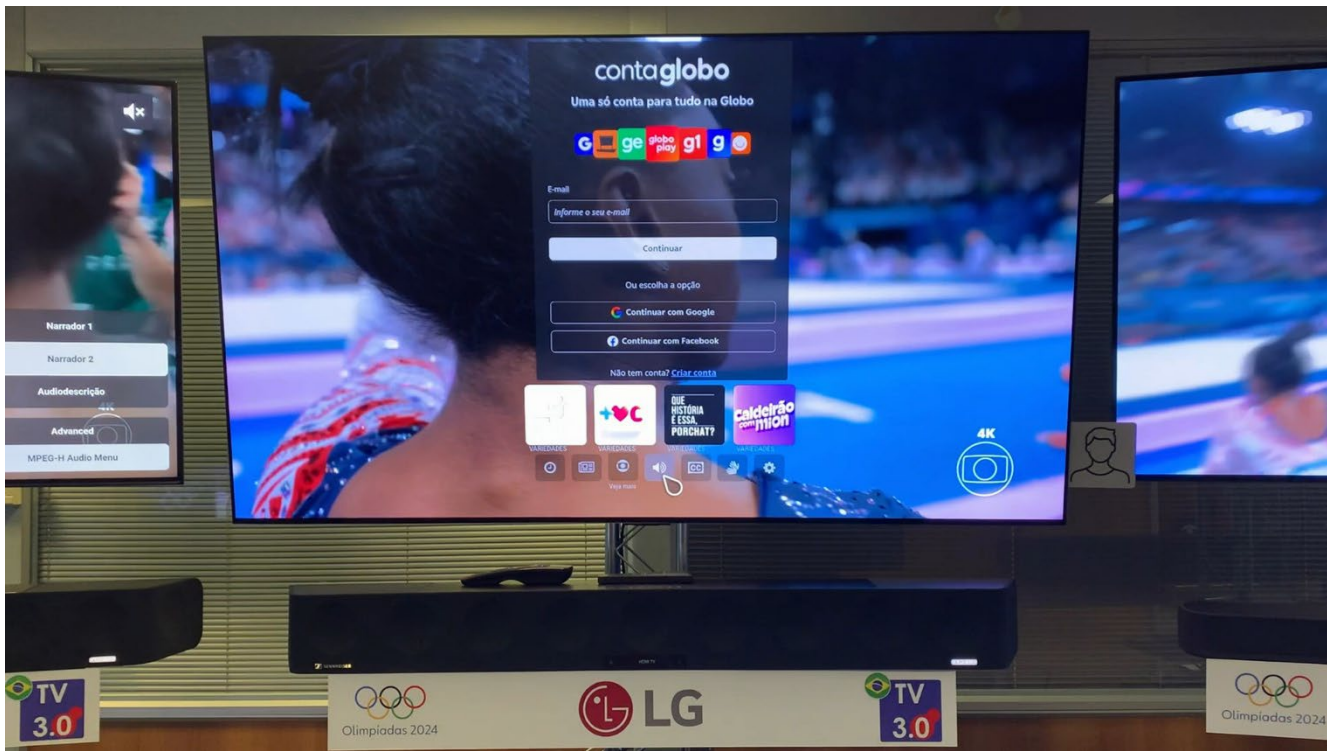
TV 3.0 App home screen



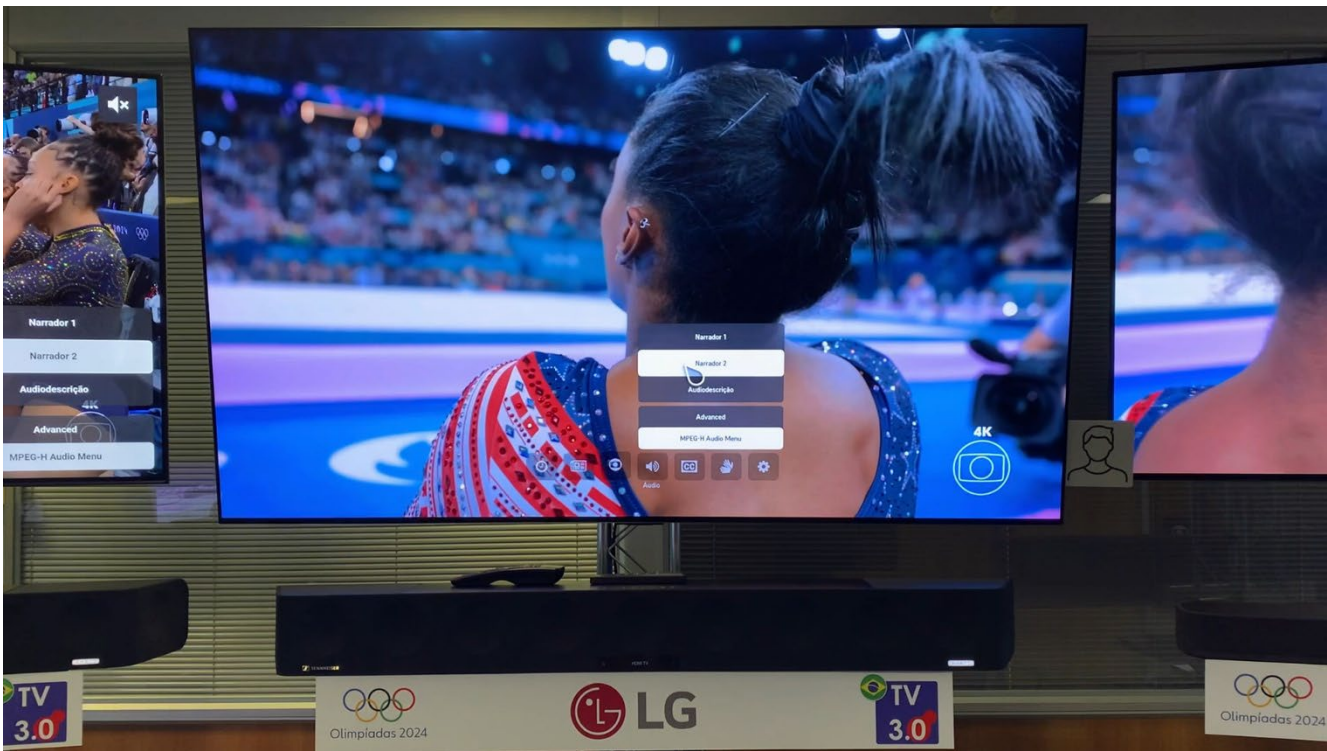
TV 3.0 Globo experimental App: EPG menu



TV 3.0 Globo experimental App: “Central de Notícias” menu



TV 3.0 Globo experimental App: “Veja mais” menu



TV 3.0 Globo experimental App: Audio menu



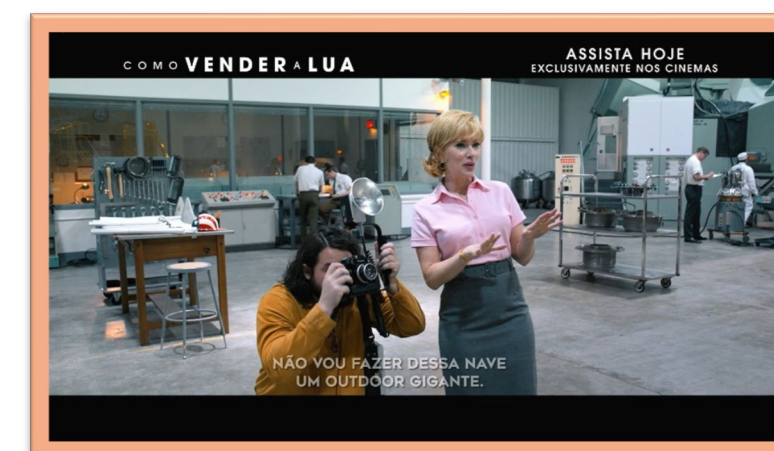


SEG GEO

- ❖ TV set doesn't need to be connected to the Internet
- ❖ Ads matches a cluster profile (area, region)
- ❖ TV set doesn't need to storage the Ads (live broadcasted)



VIEWER A



VIEWER B



...0100111100...
...0111001110...

A



B



...0100111100...
...0110100101...

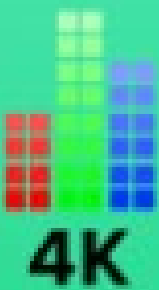


Together we can do so much.



TV 3.0 Olimpíadas 2024

Venha assistir as demonstrações com as tecnologias da TV 3.0, escolhidas pelo Fórum SBTVD para o novo padrão de TV Digital brasileiro, numa produção ao vivo com vídeo 4K HDR e áudio imersivo personalizável.



DASH

IMSC1

ROUTE



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TV 3.0 SHOWCASE LOUNGE



TOLKA PARTNERS WITH GLOBO IN SUMMER 2024 OLYMPICS DEMONSTRATION OF BRAZIL’S NEW TV 3.0 TRANSMISSION STANDARD

Posted by Editor | Aug 5, 2024 | Video Production News | 0 🗨️ | ★★★★★

Fraunhofer

AUDIO BLOG

PRODUCTS & TECHNOLOGIES

Hisense, Globo, and Fraunhofer IIS Bring MPEG-H Audio Enhanced Sound Experiences to Brazilian Homes

📅 August 6, 2024

BROADCAST BEAT

CONTINUOUS TECHNICAL CONTENT FROM BROADCAST TO POST

THE BEAT

AJA Unveils KONA IP25 I/O Card with Uncompressed Bi-Directional SMPTE 2110 Sup

🏠

ANIMATION

BROADCAST

POST PRODUCTION

FEATURED

ADVERTISE

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Tolka Partners with Globo in Summer 2024 Olympics Demonstration of Brazil’s New TV 3.0 Transmission Standard

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Testimonials

1 August 2024

TV 3.0 Olympics demos go live with LCEVC-enabled Amlogic SoCs



By Tommy Flanagan

Forecasts & Data

from Rethink TV

SET NEWS / 01/08/2024 / 👤 by SET Comunicação / ❤️ 0 /

Paris 2024 em 8K no Brasil

Em parceria com Intel, Globo fará demonstrações dos Jogos Olímpicos de Paris 2024 em 8K no Brasil. Experiência em super alta resolução tra: para transmissão do evento.

📶

GLOBO

100

Tecnologia

ASSINE

Economia / Tecnologia

Globo apresenta TV 3.0 com experiência interativa e gratuita

Demonstração revela inovações da nova tecnologia, que promete transmissões em 8K, personalização do consumo e expectativa de operação já em 2026

tele time

Deutsche Telekom Global Business

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Início > Newsletter > Globo demonstra TV 3.0 e mira novos modelos de negócio

Rádiodifusão

Globo demonstra TV 3.0 e mira novos modelos de negócio

Por Samuel Possebon - 06/08/24, 21:50 Atualizado em 06/08/24, 22:22

content+technology

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CONTENT DELIVERY

V-Nova and Amlogic Partner to Support MPEG-5



By Phil Sandberg

02/08/2024

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TV do futuro


A aceleração do desenvolvimento tecnológico está transformando nossos hábitos de consumo de conteúdo. Com **novos formatos** de vídeo e áudio imersivo, **telas de alta resolução**, a convergência entre **rádiodifusão e internet**, o aumento da **velocidade e disponibilidade da internet**, é o momento de pensar no futuro.

É o momento de pensar no futuro, é o momento da TV3.0

bw businesswire

A BERKSHIRE HATHAWAY COMPANY

Fraunhofer IIS, Hisense, and Globo Bring MPEG-H Audio Enhanced Sound Experiences to Brazilian Homes



Fraunhofer IIS

Business Wire

August 7, 2024 • 5 min read

🔗

💬

LCEVC + VVC in the US ATSC standard

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A/345, "VVC VIDEO"

APPROVED: 10 FEBRUARY 2025

This Standard describes the video coding constraints on ITU-T Rec. H.266 | International Standard ISO/IEC 23090-3 ("VVC") when it is used for video compression in the ATSC 3.0 Digital Television System. Any other video coding technologies in the ATSC 3.0 system are documented in their own ATSC Standard(s). ATSC A/300 provides references to the various video coding technology document(s) in the ATSC 3.0 system. Signaling of the video compression technology in use is defined in ATSC A/331.



Download current version:

[A/345:2025-02, "VVC Video"](#), 10 Feb. 2025.

5.4.1 LCEVC Media Profiles

This section defines various LCEVC CMAF Media Profile based on ISO/IEC 23000-19 [2], Annex O, which are summarized in Table 5.1.

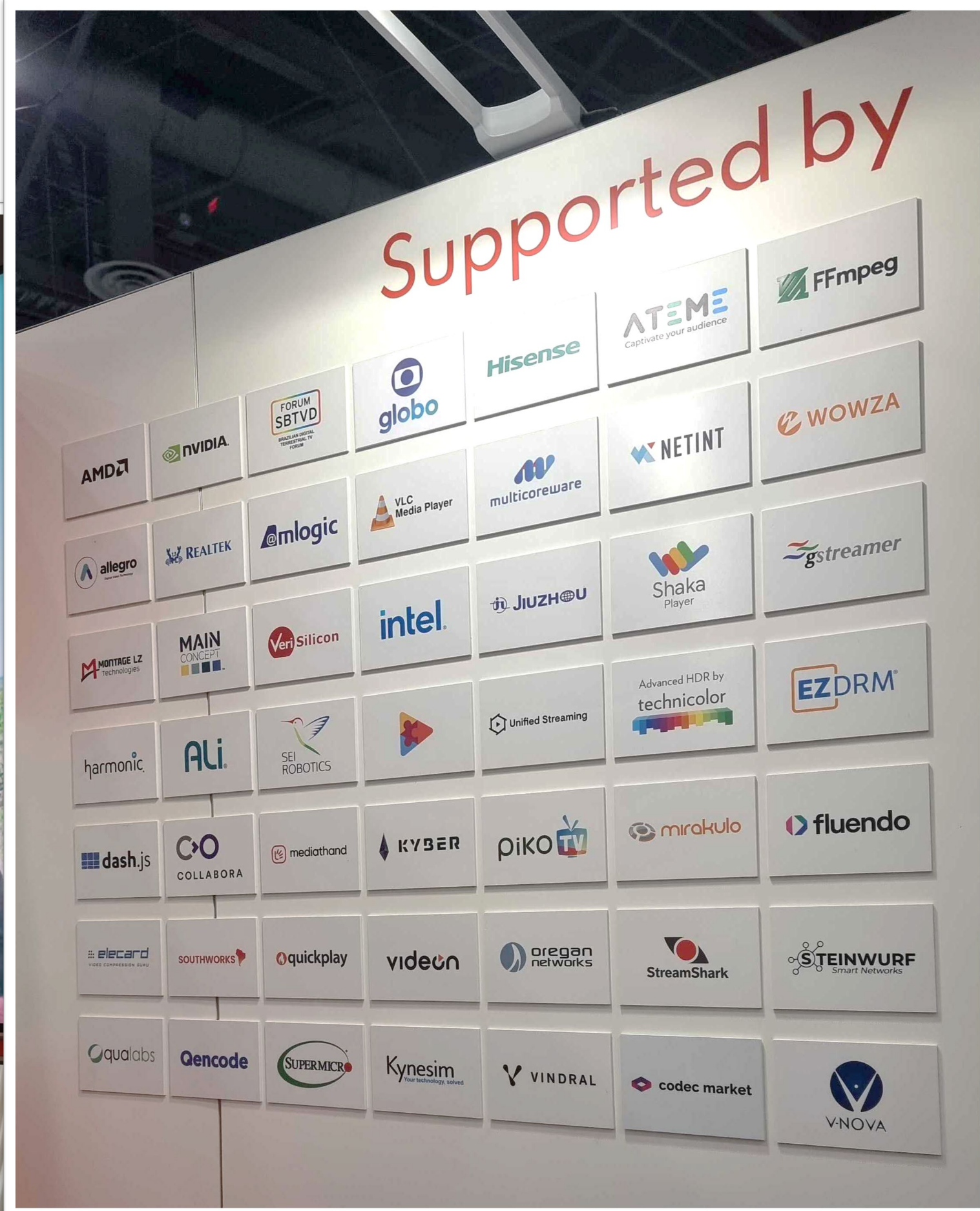
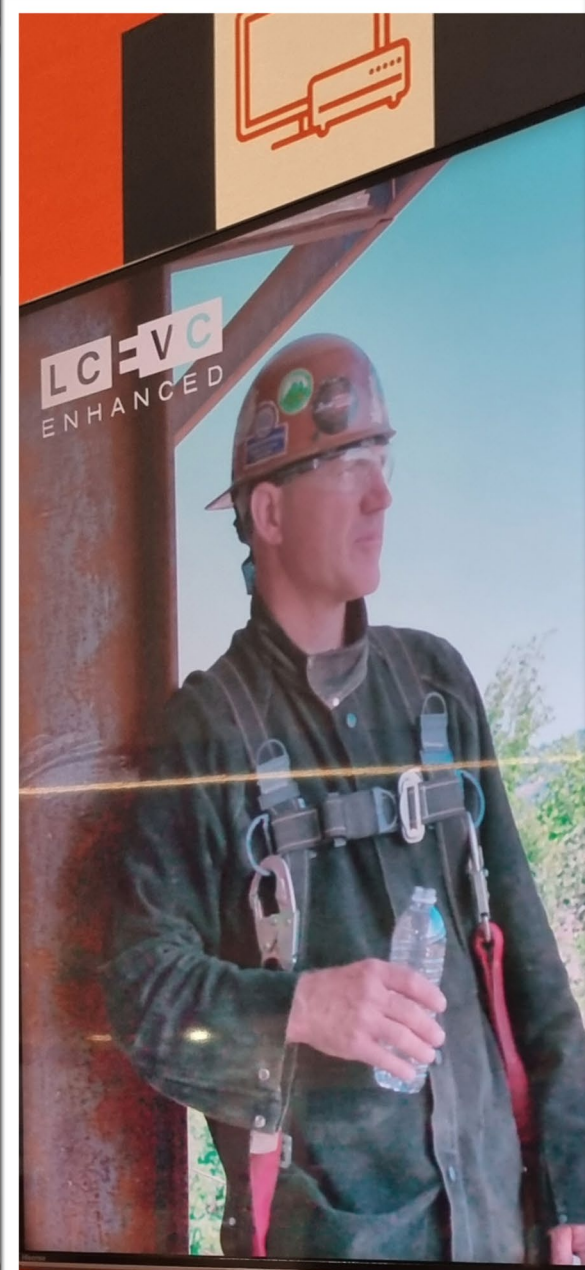
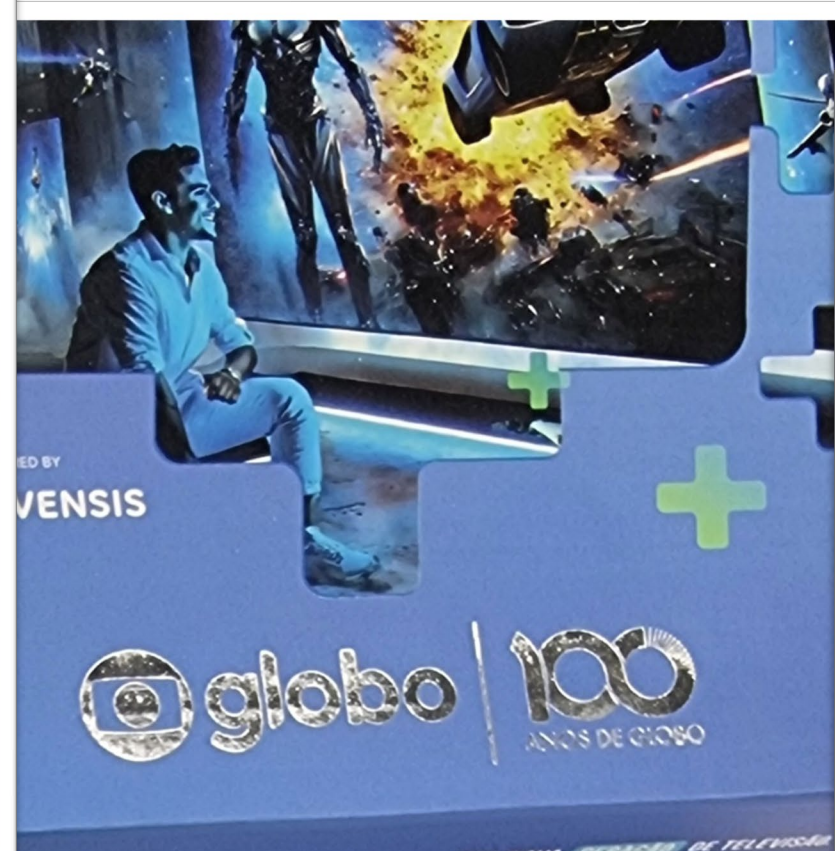
Table 5.4 LCEVC CMAF Media Profiles
Media Profile Name Profile Brand Section

LVC Main 'clv1' 5.4.2

5.4.2 VVC + LCEVC Specific Constraints

In addition, these constraints shall apply:

- The VVC base stream shall conform to VVC Main profile and Main tier.
- The LCEVC enhancement stream shall conform to the LCEVC Main CMAF Media Profile as defined in [11]



W.1253

Brazil TV 3.0 roadmap



April 2025

Experimental operation
Rio de Janeiro
Two HPHT stations



August 2025

Experimental operation
São Paulo
Two HPHT stations



December 2025

Experimental operation
Brasília
One HPHT station



June 2026

Comercial operation
Rio de Janeiro and São Paulo



Thank you