HDFI • 2022 INNOVATION DAY

Verso un ecosistema audiovisivo 5.0 Infrastrutture, servizi e tecnologie

ROMA 25 NOVEMBRE 2022

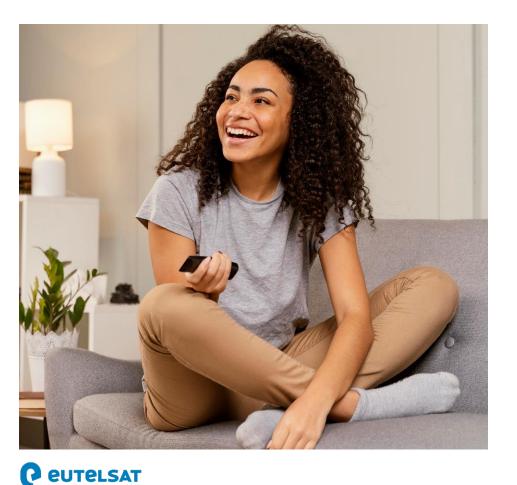


Il Satellite e l'Ibridazione della TV

Cristiano **BENZI**

SVP Global – Professional Video





SATELLITE BENEFITS

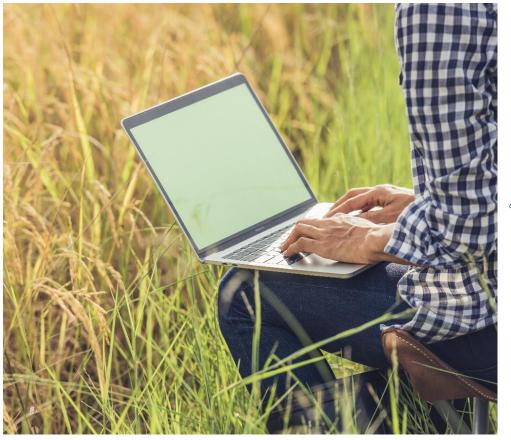


COST EFFICIENCY

 \rightarrow Fixed Costs

→Affordable and Standard Receivers

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EUTELSAT

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SATELLITE BENEFITS



COST EFFICIENCY

- \rightarrow Fixed Costs (one Tx)
- →Affordable and Standard Receivers



UNIVERSAL REACH

 \rightarrow Wide Footprint

 \rightarrow Constant Performances



eutelsat

SATELLITE BENEFITS



COST EFFICIENCY

 \rightarrow Fixed Costs (one Tx)

→Affordable and Standard Receivers



UNIVERSAL REACH \rightarrow Wide Footprint

→Constant Performances



SERVICE QUALITY → High Throughput

 \rightarrow High Availability

THE SATELLITE IS PERFECT FOR HIGH QUALITY CONTENT







EUTELSAT















THE RISE OF OTT SERVICES





Netflix, over 220 million paying subscribers, with a market cap at \$160 billion, starting to bid on sport leagues rights and launching ad-supported tier in 12 countries and first live event in Q1 2023 DAZN, Apple+, Disney, Amazon Prime and other OTT players with exclusive content rights distributing live sports

More than 3 billion OTT users in 2021 Next to SVOD, AVOD and Fast Channels are becoming the "big thing" in the media landscape



THE CHALLENGE FOR VIDEO DISTRIBUTION

How to address

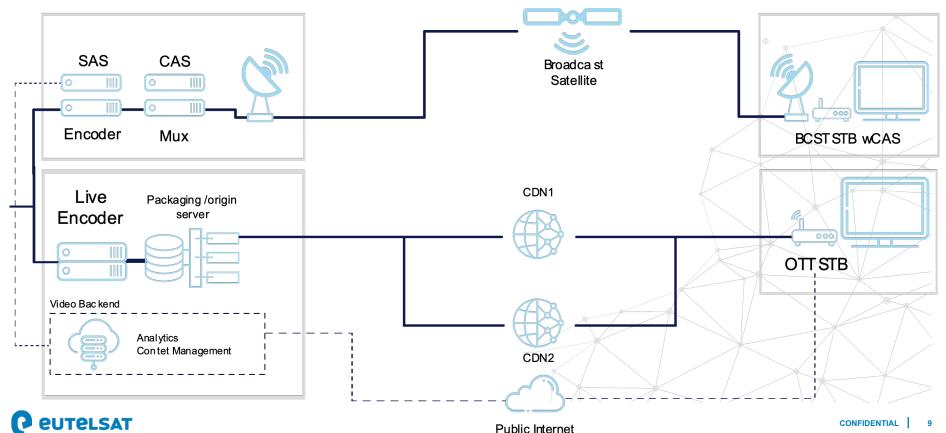
- → Multiple media formats
- \rightarrow New devices and means of access
- → Changing audience behaviors
- →Network infrastructure costs reduction
- →Consistent user experience





MEDIA COMPANIES APPROACH TO CONTENT DISTRIBUTION

Two separate infrastructures for broadcast (sat/cable) and over-the-top streaming



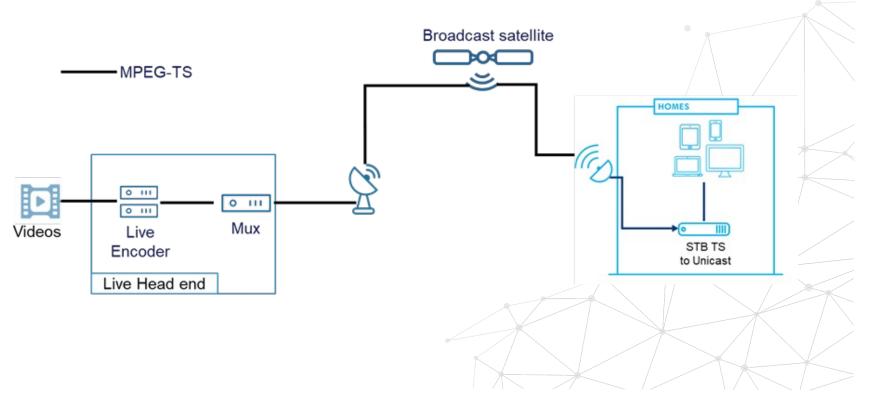


Home Broadcast





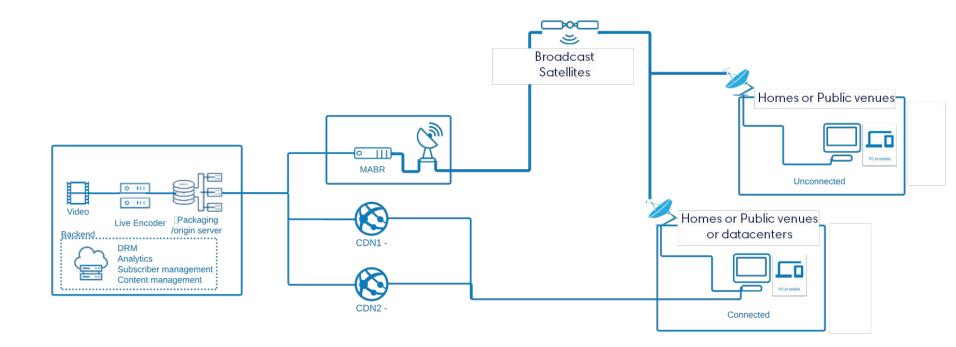






DVB-NATIVE IP: SIMPLIFIED APPROACH TO CONTENT DISTRIBUTION

One single solution for broadcast and for over-the-top services







Technology Providers & Broadcasters



NATIVE IP SIMPLIFIED APPROACH TO CONTENT DISTRIBUTION

One single solution for B2B environment







Mobility

Enhance in-flight entertainment experience or bring live IP Native content to the cruise market

ISPs/Telcos/C DN

Leverage multicast capabilities and satellite coverage to feed live content into terrestrial distribution networks

Hotspot services

Provide live or VOD content to public Wi-Fi hotspots

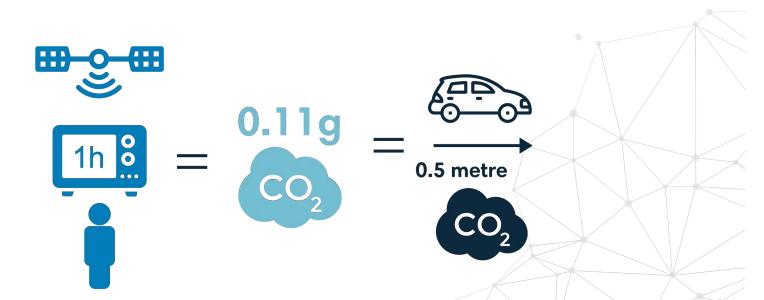
5G Video contribution

With the emergence of 5G as the next-gen. terrestrial broadcast network, satellite would be used to feed 5G base stations with live video services



SATELLITE DISTRIBUTION REMAINS THE "GREENEST" OPTION

An hour of video streaming via 4G is 1,200 times more carbon intensive than an hour of satellite TV



The carbon footprint of one hour of satellite TV broadcasting corresponds to the emission of 0.11g of CO2,

the equivalent of driving 0.5 m by car



COMBINING THE BEST OF BOTH WORLDS

Combining broadcast and OTT features

Consistent user-experience

 End-users can access the same service through multiple devices, at home and on-the-move

Service scalability at predictable costs

 IP multicast capabilities overcom OTT/unicast delivery challenges for premium live events (sports, news), while keeping CDN costs under control

Sustainability

 The power consumption to distribute content to all consumers is drastically lower in broadcast than terrestrial IP distribution

