

# Hybrid Broadcast-Broadband



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#### Authors

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### THE ALTERNATE CAMERA PARADIGM

- A broadcast channel with limited bandwidth.
- A broadband session for additional content.
   On-Demand or Live Event Content
- Frame-Accurate content synchronization.

In Association with:



(EU Celtic+)



(French DGE)

ISF KIC (EIT ICT Labs)

#### **SUPPORTED FORMATS**

## Packaging Standards

- MPEG-2 Transport Stream (TS) for broadcast Through multicast RTP/UDP
- MPEG-DASH for broadband
  ISO Base Media File Format (BMFF)

#### **TEMI**

### **Timeline Descriptors**

- Normal Play Time (NPT)
- Network Time Protocol (NTP)
- **■** Media Timeline
- **SMPTE Timecodes**

### **Location Descriptors**

- **■** Embed URLs
- Service announcement (preroll)
- Service Splicing (e.g. Ad Insertion)

Low Footprint: Less than 4kbps

### **DEMO SCENARIO**

