

TVCON 2016

Dynamic Ad Insertion: Addressable Advertising at TV Scale

David Uhlmann, Video Solutions Consultant, EMEA



What we will cover

What is DAI and why does it matter?

The challenges of ad insertion at TV scale

How does DAI work?

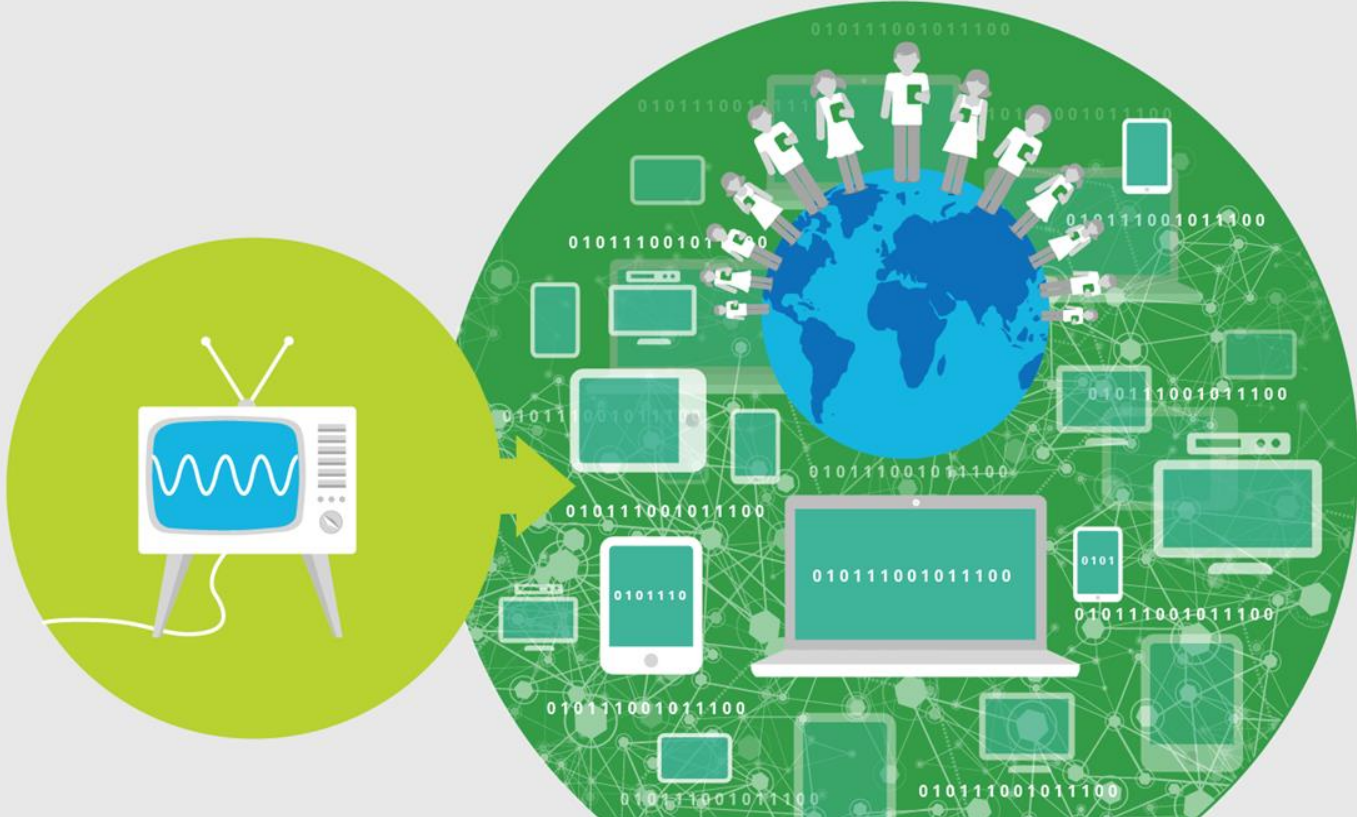
A bit of context ...

What is Dynamic Ad Insertion?

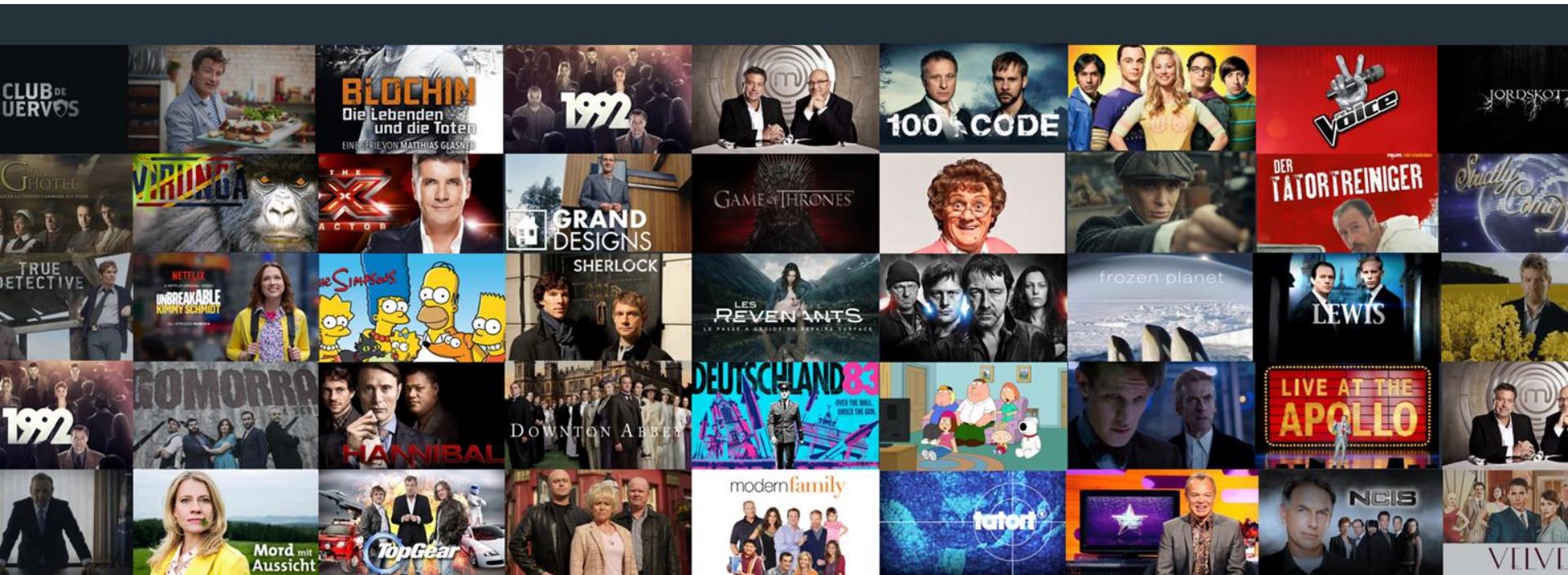
DAI is the process of **replacing a TV ad** with an addressable ad
(via IP/return path data)

Why does this matter?

The €40 billion EMEA TV industry is shifting to IP delivery



From scarcity to abundance



1 billion+ visits every month



**50% of video views
are on mobile devices**

Being on the best screen is complex



Screen size

- Mobile
- Tablet
- PC
- Connected TV

Connection speed

- Edge
- DSL
- 3G
- Cable
- 4G LTE
- Fiber
- WiFi

Security

- Authentication
- DRM
- Encryption
- App verification

Ad type

- Preroll
- Midroll
- Postroll
- Rich media
- Companion ads

Device type

- Samsung Galaxy S5
- Google Nexus 6
- HTC
- Motorola Droid Turbo
- Sony Xperia Z3
- iPhone 6
- Google Nexus 7
- Samsung Galaxy Tab
- iPad + more

Content type

- Live event
- Linear
- On-demand clips
- On-demand full episodes

Streaming format

- Smooth
- HLS
- mpeg-DASH
- HDS

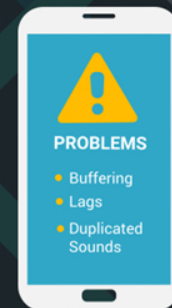
Operating system

- iOS
- Android
- HTML5
- Windows
- XBOX
- ROKU

1 to 1 Addressability

Ad Decisioning

Security



Astronaut Felix Baumgartner is shown in a white space suit with Red Bull logos, floating outside the Red Bull Stratos capsule. The capsule is silver and features various logos including Red Bull, UDIMET, and RIEDEL. The background shows the Earth's horizon and atmosphere from space.

Red Bull Stratos

8 million concurrent live streams

Largest live stream in history!

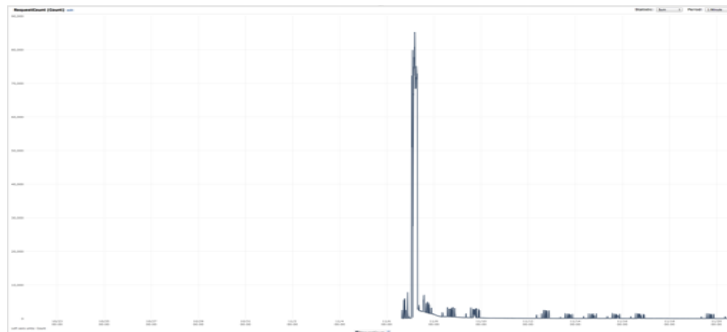
Concurrency strain

on-demand

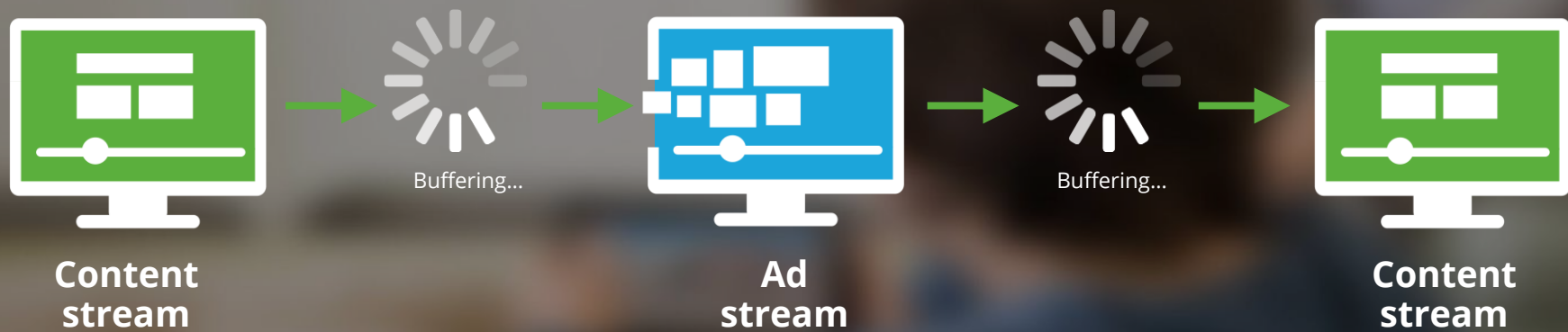


vs.

live



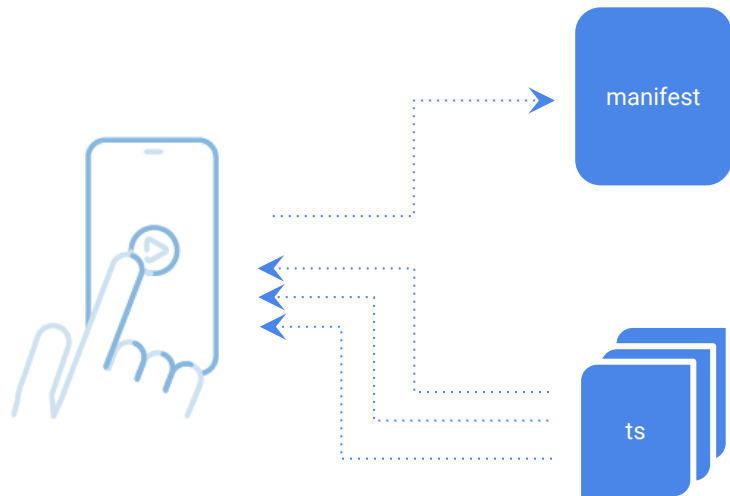
The traditional approach to ad delivery no longer works



Server-side Dynamic Ad Insertion



HTTP Live Streaming (HLS)



```
#EXTM3U
#EXT-X-MEDIA-SEQUENCE:0
#EXT-X-VERSION:3
#EXT-X-TARGETDURATION:10

#EXTINF:10
rick_roll.avi_001.ts

#EXTINF:10
rick_roll.avi_002.ts

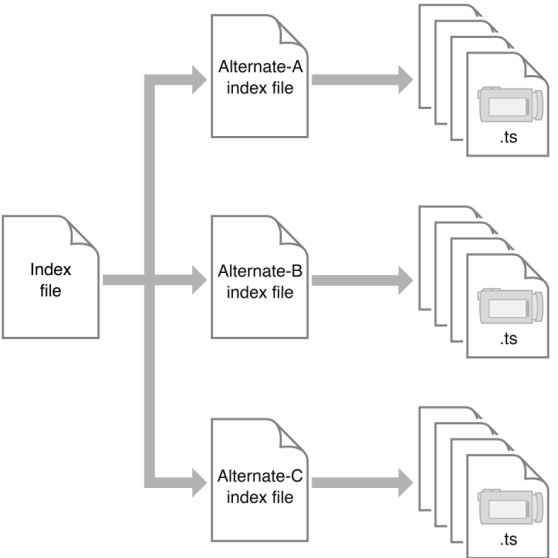
#EXTINF:10
rick_roll.avi_003.ts

#EXTINF:7.8
rick_roll.avi_004.ts

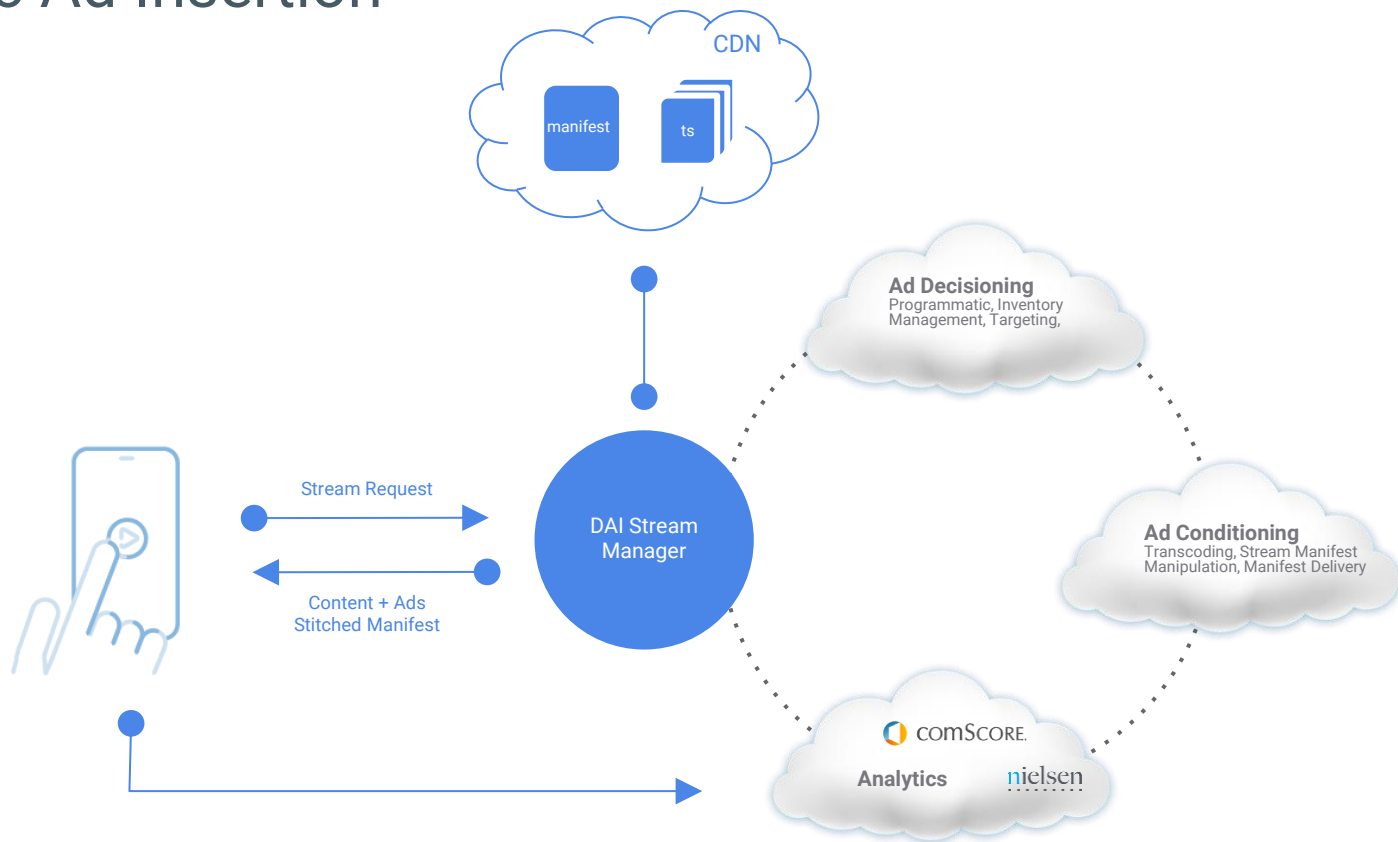
#EXT-X-CUE-OUT:DURATION="90.000"

#EXTINF:2.2
rick\_roll.avi\_005.ts
```

Adaptive Bitrate Streaming



Dynamic Ad Insertion



Before

```
#EXTINF:10  
rick_roll.avi_003.ts  
  
#EXTINF:7.8  
rick_roll.avi_004.ts  
  
#EXT-X-CUE-OUT:DURATION="90.000"  
  
#EXTINF:2.2  
rick\_roll.avi\_005.ts  
  
#EXTINF:10  
rick\_roll.avi\_006.ts  
  
#EXTINF:10  
rick\_roll.avi\_007.ts
```

After

```
#EXTINF:10  
rick_roll.avi_003.ts  
  
#EXTINF:7.8  
rick_roll.avi_004.ts  
  
#EXT-X-CUEPOINT:TYPE=AD,EVENT=START,DURATION=90  
  
#EXT-X-DISCONTINUITY  
  
#EXTINF:5  
ad_segment_001.ts  
  
#EXTINF:5  
ad_segment_002.ts
```

1:1 Advertising at TV scale

Traditional linear / live geo-targeting

1:1 addressability with DAI



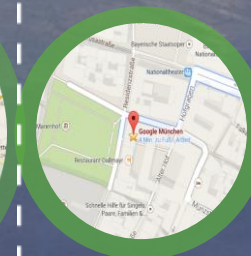
National



Region



Local zone



Hyper-local zone



Addressable

Data (via DAI) is critical to realising the programmatic opportunity

HYPERLOCAL

DEVICE

CONTENT

DEMOGRAPHIC

USER INTEREST

LIFESTYLE

+81% increase in eCPM

1st party data in programmatic deals EMEA

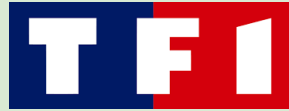
Our experience



FOX
NETWORKS



A&E



TF1



FOX
NEWS
Channel



CBS
NEWS



FX



NAT GEO



fyi.



CBSO



THE HISTORY CHANNEL.

All content. All screens. One platform

