MPEG Standardization Roadmap

October 2017 Version



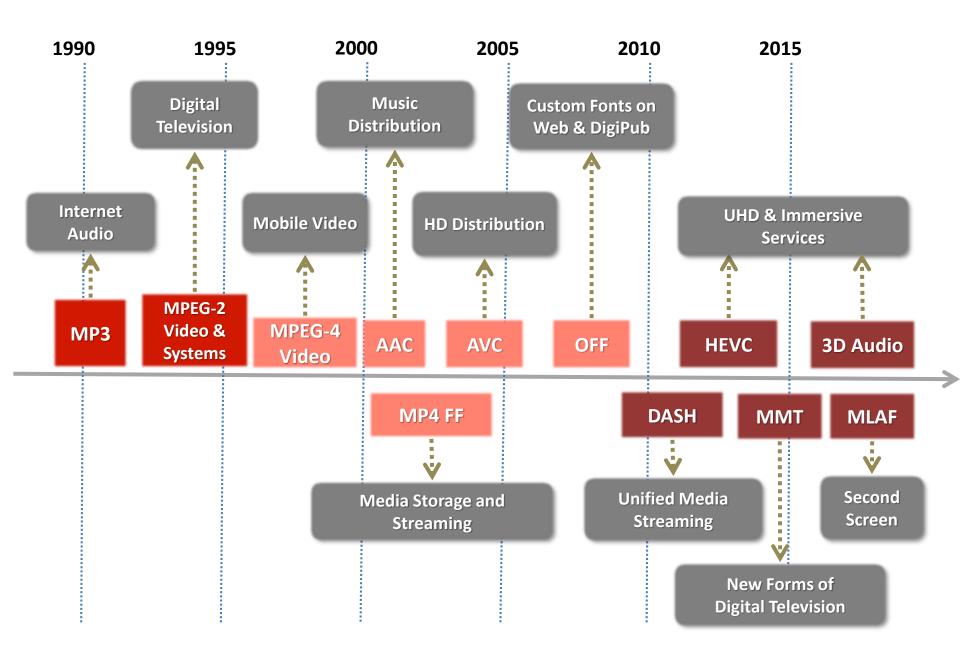
Why a Standardisation Roadmap?

- MPEG has created, and is still producing, media standards that enable huge markets to flourish
- MPEG works on requirements from industry
- Many industries represented in MPEG, but not all of MPEG's customers can or need to participate in the process
- MPEG wants to inform its customers about its longterm plans (~ 5 years out)
- ... and collect feedback and requirements from these customers
- ... including in this session

What is in the Roadmap

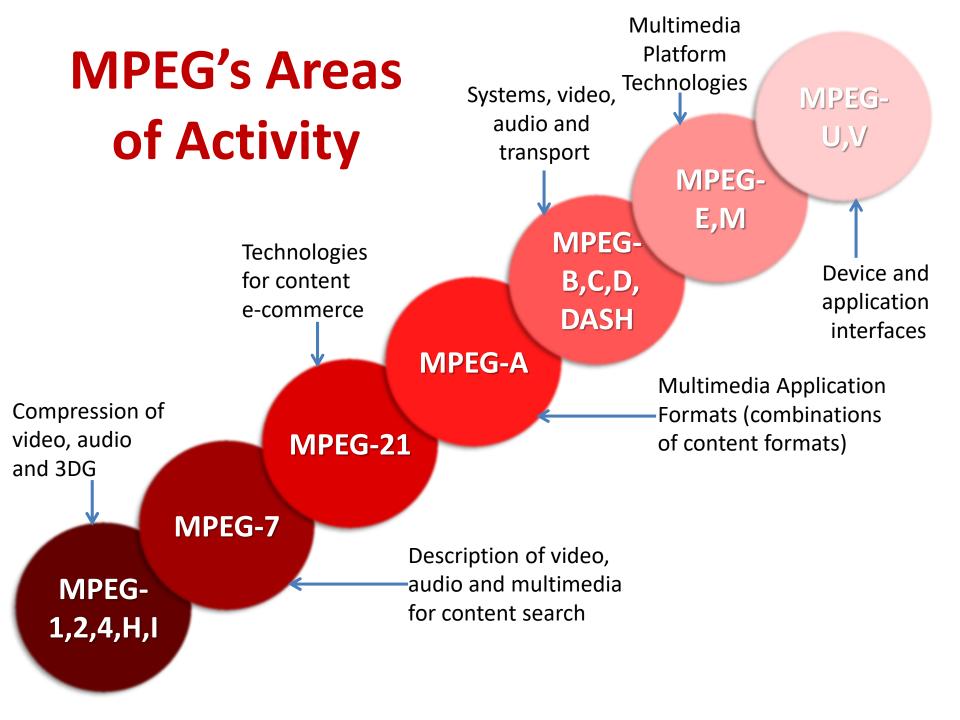
- Our roadmap is a short document.
- It briefly outlines MPEG's most important standards

MPEG Standards



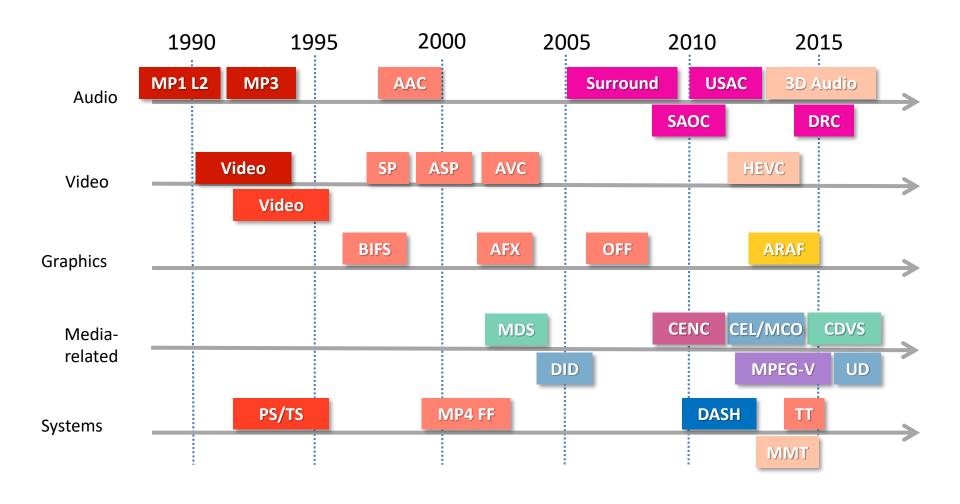
What is in the Roadmap

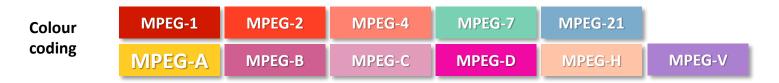
- Our roadmap is a short document.
- It briefly outlines MPEG's most important standards
- It then gives an overview of MPEG's activities



What is in the Roadmap

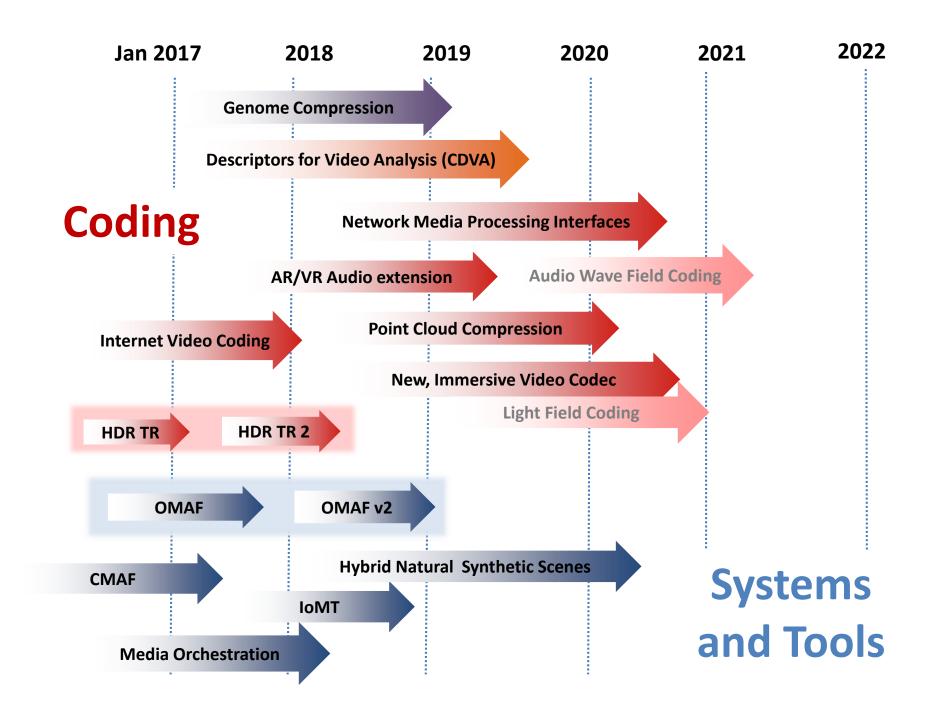
- Our roadmap is a short document.
- It briefly outlines MPEG's most important standards
- ... it then gives an overview of MPEG's activities
- ... and then an overview of all MPEG's standards

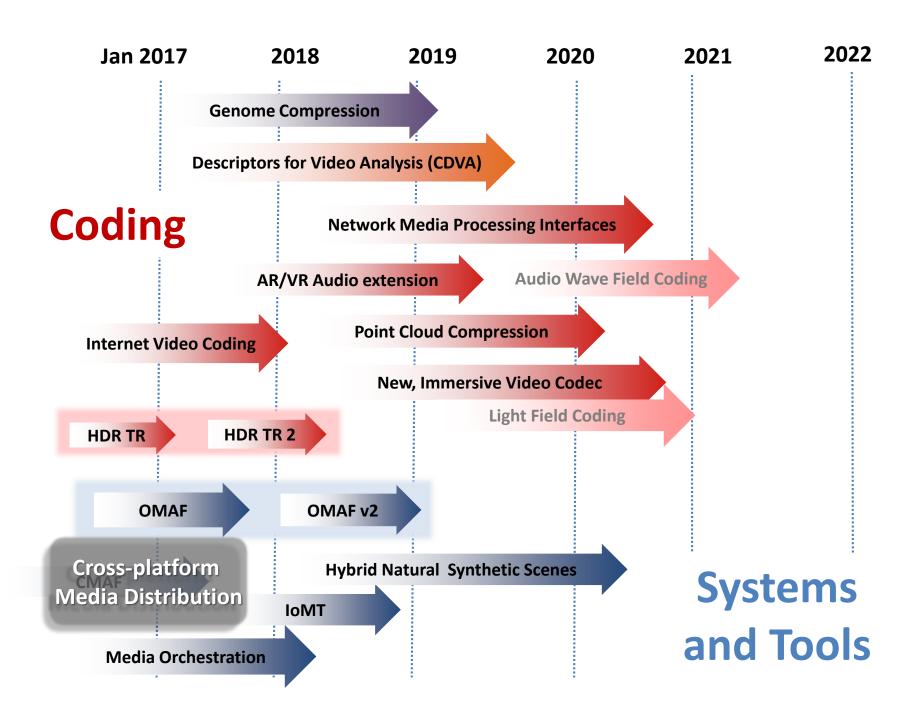


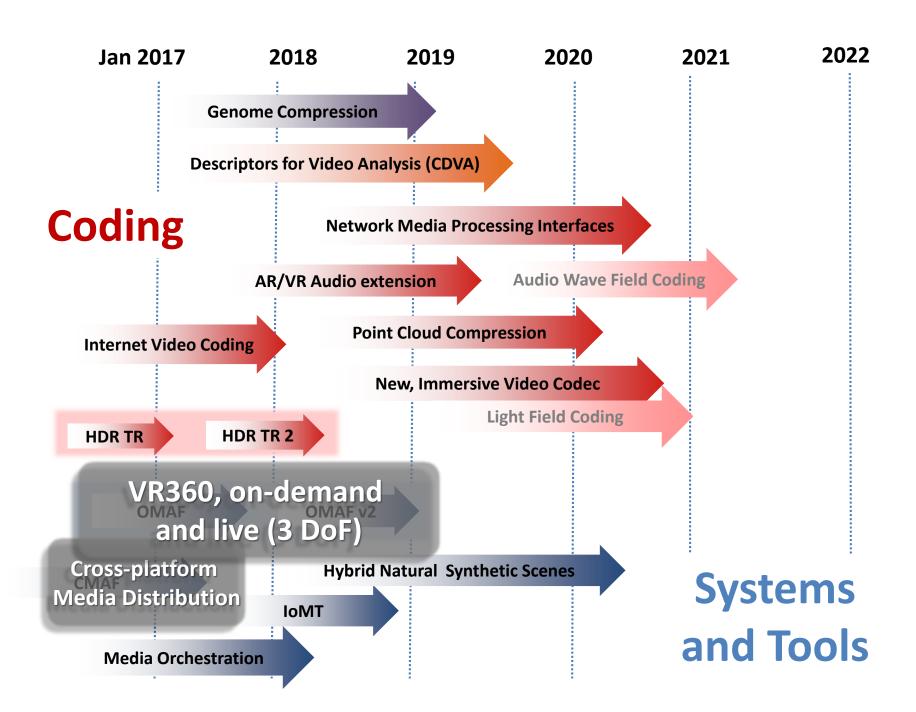


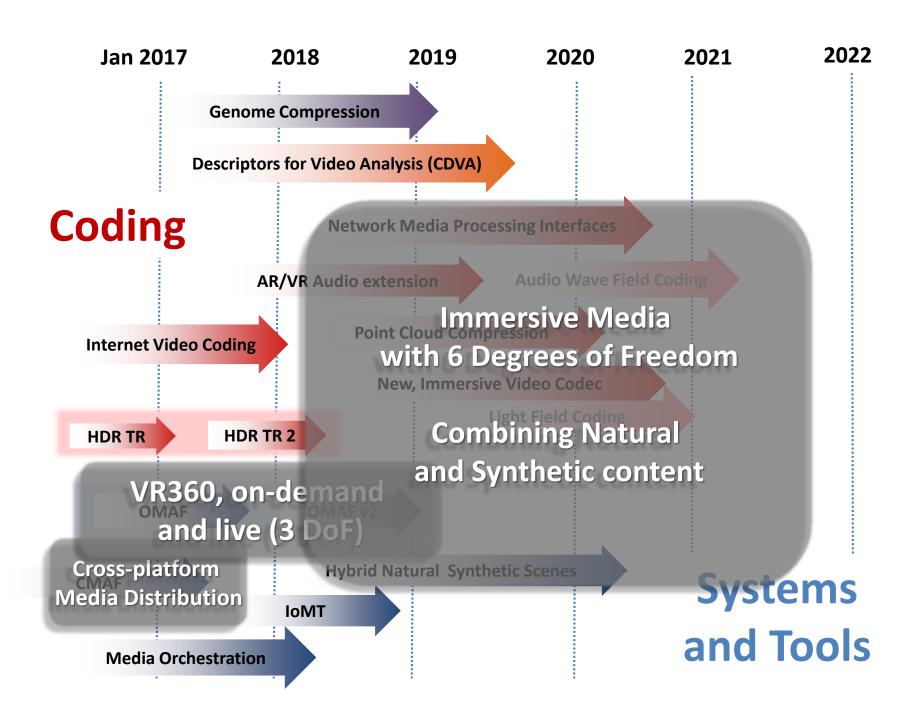
Significant Developments Shape MPEG's Roadmap

- The relentless increase of IP-distributed and Mobile media
- Higher quality
- More immersive media (UHD, VR, AR)
- The Internet of Media Things & Wearables
- Cloud-based media processing, storage and delivery









MPEG-I

New MPEG project: ISO/IEC 23090

Coded Representation of Immersive Media

8 parts currently envisaged:

- 1. Architectures
- 2. Omnidirectional Media AF
- 3. New & Immersive Video Coding
- 4. New & Immersive Audio Coding
- 5. Point Cloud Coding
- 6. Metadata for Immersive Services and Applications
- 7. Metrics for Immersive Services and Applications
- 8. Network-Based Media Processing

New & Immersive Video Codec – Timeline (MPEG-I pt. 3)

Step	Year	Month
Collection of test material	2017	Jan
Preliminary CfE	2017	Jan
Final CfE	2017	Apr
Assessment of CfE responses	2017	Jul
Preliminary CfP	2017	Jul
Final CfP	2017	Oct
Bitstream submission	2018	Feb
Subjective tests	2018	Apr
Delivery of standard	2020	Oct

Questions to MPEG's Customers

- Which needs do you see for media standardisation, between now and years out?
- What MPEG standardisation roadmap would best meet your needs?
- To accommodate your use cases, what should MPEG's priorities be for the delivery of specific standards? For example, do you urgently need something that may enable basic functionality now, or can you wait for a more optimal solution to be released later?