



HDFI • 2021 ANNUAL CONFERENCE HDFI Working group: milestones, role and contributions

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HDFI • 2021 ANNUAL CONFERENCE An overview of 15 years of activity





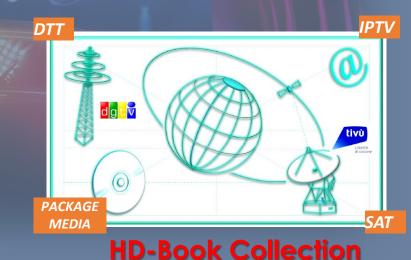
HDFI • 2021 ANNUAL CONFERENCE HDFI Working group – WHO WE ARE



Working Group – ROLE

- Explore **technological innovations** available on the market in a short-term horizon
- Examine technical problems, critical issues
- Offer recommendations to the industry
- Collaborate with:
 - International standardization bodies (DVB, ETSI, ISO/MPEG, OIPF, HbbTV, ...)
 - Institutions (AGCOM), representatives of the audiovisual sector and industrial chain (Confindustria Radio TV, Tivù, CEI, ...)

Main result of WG activity: production of the HD Books the 'technical library'



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JTG

Joint Technical Group:

- development and maintenance of the UHD-Book collection
- new topics for future activities

HbbTV:

- life-cycle & maintenance
 - apps maintenance
 - interaction between on-air services from different operators

MDEX

HbbTV

JTTG

Joint Technical Testing Group:

- dealing with Test Protocol
- currently in sleep mode

Media Distribution Experience Group

- analize technical issues related to the quality of service in the OTT value chain
- (reflector list merged with the 'Observatory' strategic group)

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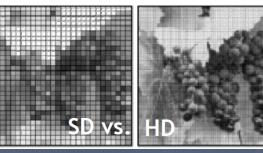
In the beginning it was the SD

2006 - 2008

Then we started to write on the slides:

'Why HDTV?'





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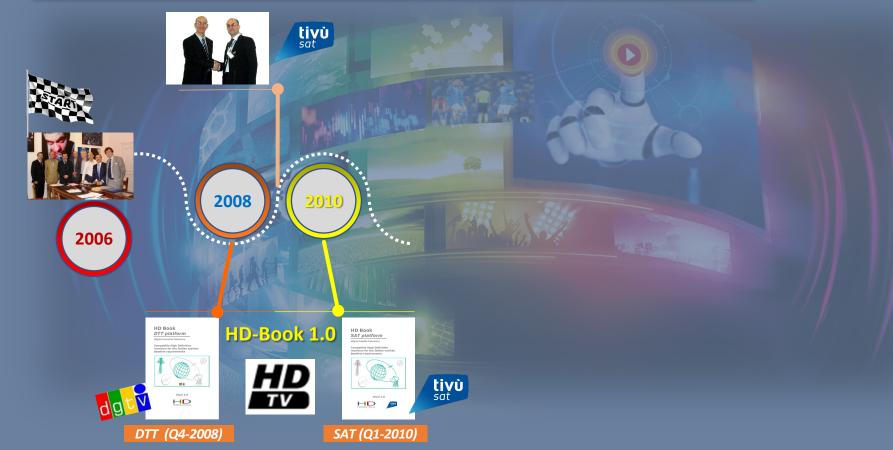
25 Nov. 2009: Liaison with Tivù

Tivù and HD Forum Italia signed the agreement for the editing of the HD-Book SAT



Cristiano Benzi HDFI Chairman Alberto Sigismondi Tivù Counselor





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2010

When BROADBAND was 'just' an ADDENDUM

DIGITAL TELEVISION PLATFORM

OPEN, INTEROPERABLE, INTERACTIVE... AND NOW HYBRID

2012

HD-book 2.0 DRM+Generic BAS MPEG-DASH, CENC *https* streaming

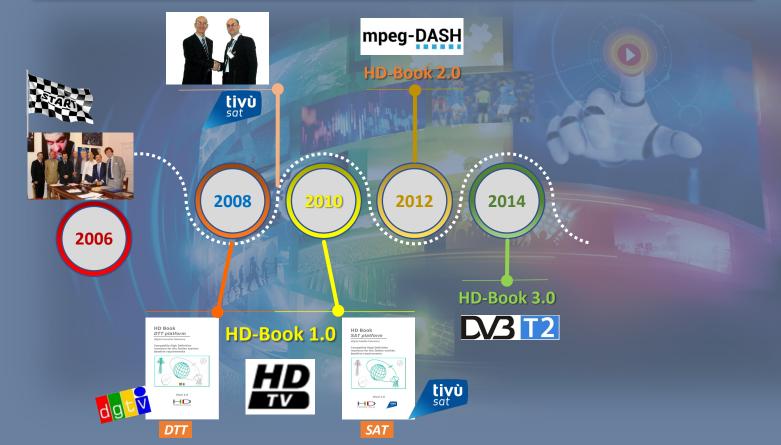


DGTVi Conference Milano Maggio 2010

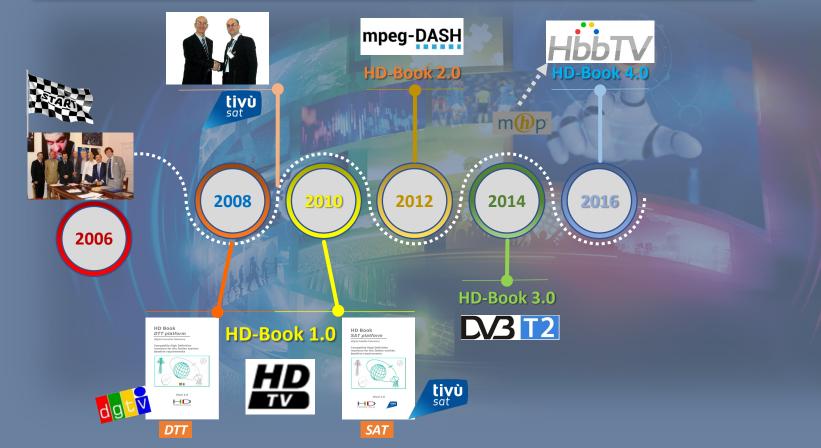


European TV Forum Lucca Giugno 2010

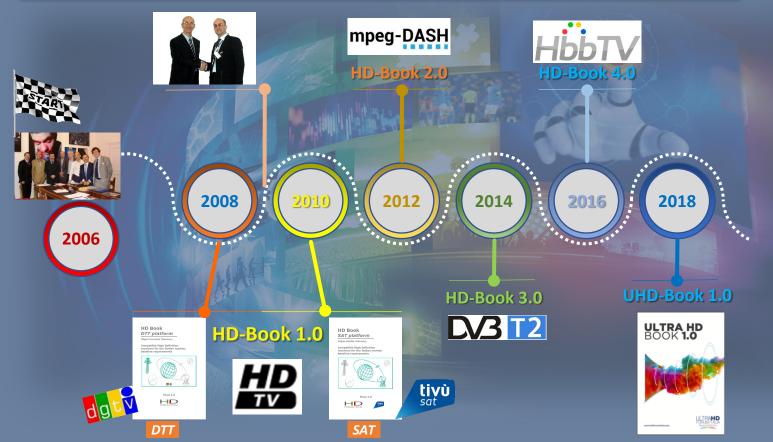






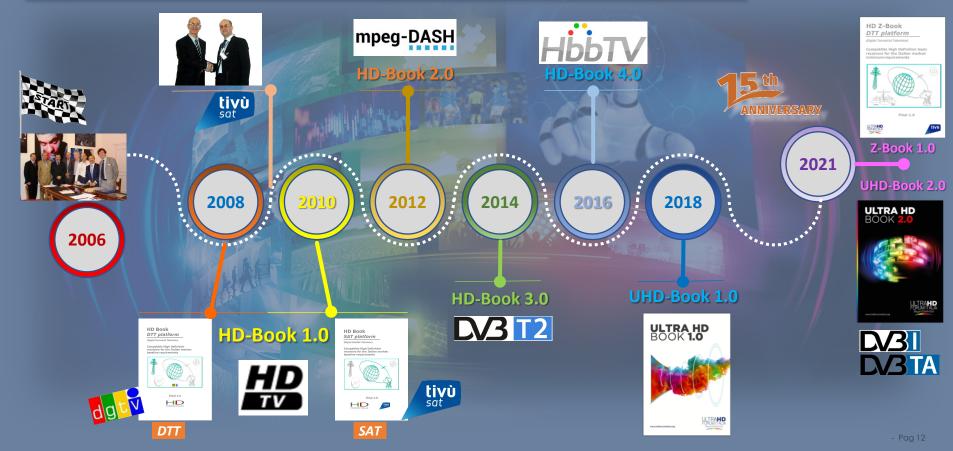






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2012



WHAT NEXT?

2010

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.....

2008

2006



NEW TOPICS Multiple distribution platforms New video codecs

2018

2016

2021

Multiple devices

2014

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Multiple distribution platforms



Traditional Broadcast DTT, SAT, ...



- DVB-INative IP
- Home Broadcast



DYNAMIC FORMAT SWITCHING

changing content format within the same service

New video codecs under consideration in DVB:

- AV1 (AOMedia)
- AVS3 (China)
- VVC
- LC-EVC



- 5G-Broadcast
- Cooperative Intelligent Networks

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Multiple devices

- Smart TVs
- PCs
- Tablets, Smartphones

Issues

- Service discovery
- Service «hand-over»
- Homogeneous loudness



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A FUNDAMENTAL CONTRIBUTION TO THE ASSOCIATION

Main achievement after a 15 years path

Having put a multitude of companies around the same table representing all the players in the supply chain

- Operators
- Content and service production industry
- Consumer electronics

Benefits of an Associations such as HDFI

- Better organization and coordination of the audiovisual sector
- Ability to speak with a single and authoritative voice to industry, consumers and also to institutions



Thanks for your attention