

EBU TECHNICAL



EBU R 135

An Interim Recommendation with World Wide Impact!

EBU R135

Unashamed plug

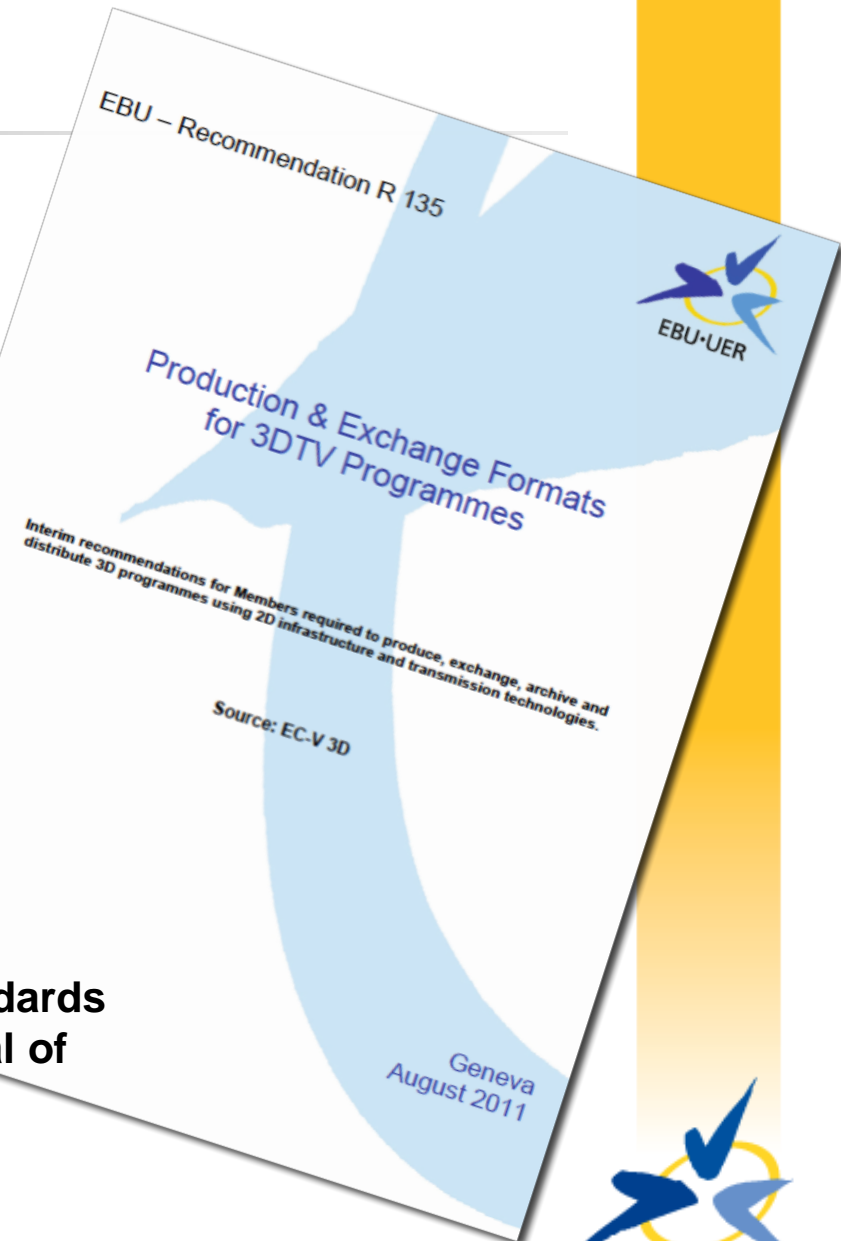
■ Interim Recommendation

Standards for 3D production and international exchange

- EBU was the first body to give practical guidance
- Based on existing standards and documents
- Using EBU HD Systems
- Giving guidance for existing SMPTE standards
- EBU's ability to publish an informed interim recommendation lorded by the standards bodies

■ Considering

There are currently no internationally agreed standards for production, programme exchange, and archival of 3DTV programmes



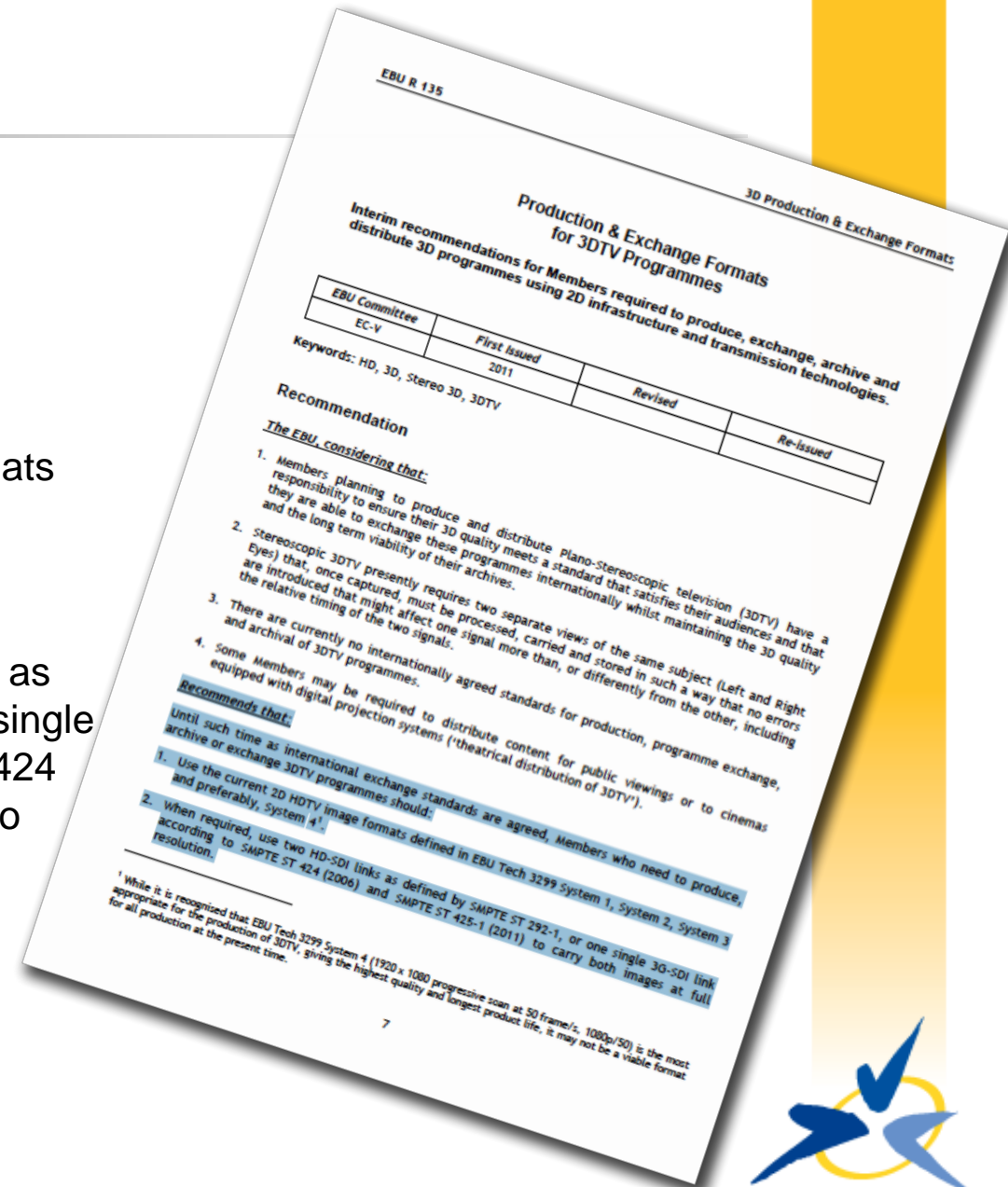
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■ Recommends

Two simple recommendations

- Use the current 2D HDTV image formats defined in EBU Tech 3299 System 1, System 2, System 3 and preferably, System 4
- When required, use two HD-SDI links as defined by SMPTE ST 292-1, or one single 3G-SDI link according to SMPTE ST 424 (2006) and SMPTE ST 425-1 (2011) to carry both images at full resolution



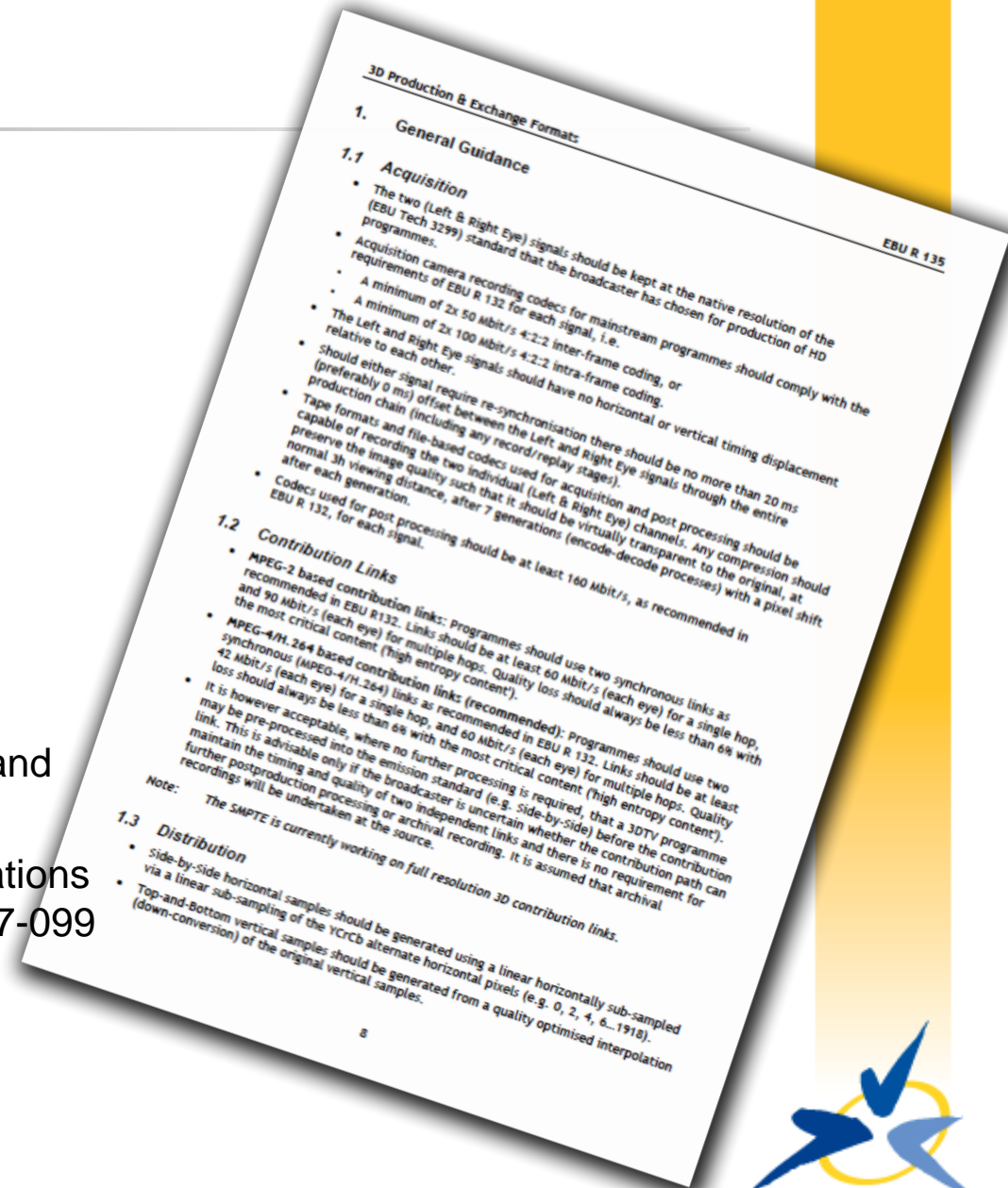
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Based on Existing Documents

■ General Guidance

Acquisition, Post and Contribution

- EBU R132 for camera codecs
- EBU R 132 for post codecs
- EBU R 132 for contribution codecs
- EBU Tech 3299 for production requirements based on HD System
- SDI interface from SMPTE ST 292-1 and SMPTE ST 425-1
- Also System 4 1080p/50 recommendations from EBU Tech 002 and EBU BPN 097-099



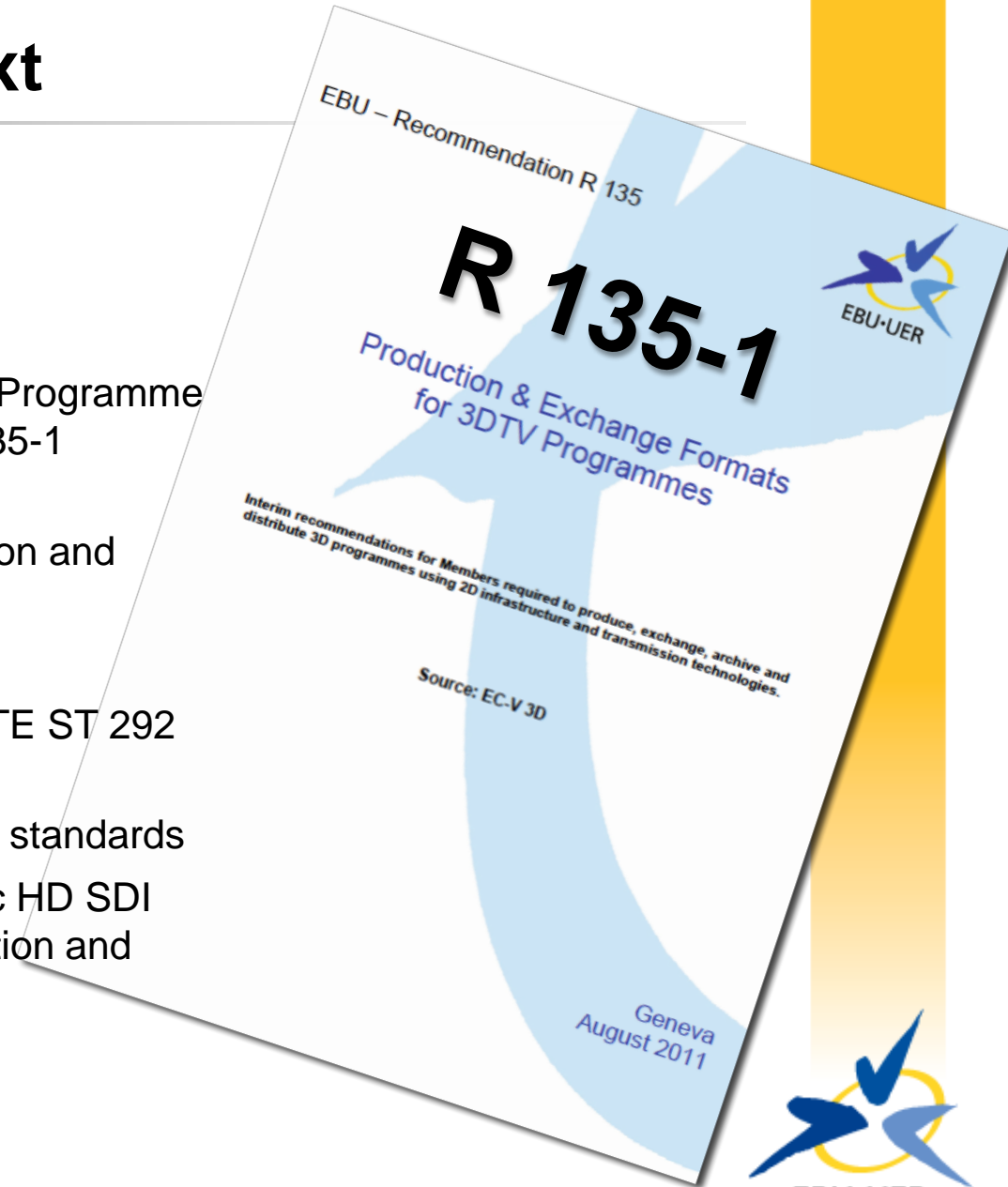
3D Now – What's coming next

Guidance

■ **EBU R 135 Revision 1**

Due to stalemate about and International Programme Exchange Recommendation the EBU R135-1 (Revision 1) will include;

- Full Recommendation on 3D Production and International Programme Exchange
- Use of twin ITU-R BT 709 links
- Include SMPTE the revisions of SMPTE ST 292 and SMPTE ST 425
- Conversion between 50Hz and /1.001 standards
- Requirement to implement 3D specific HD SDI flags and markers for signal identification and Left/Right signal alignment



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Thank You