

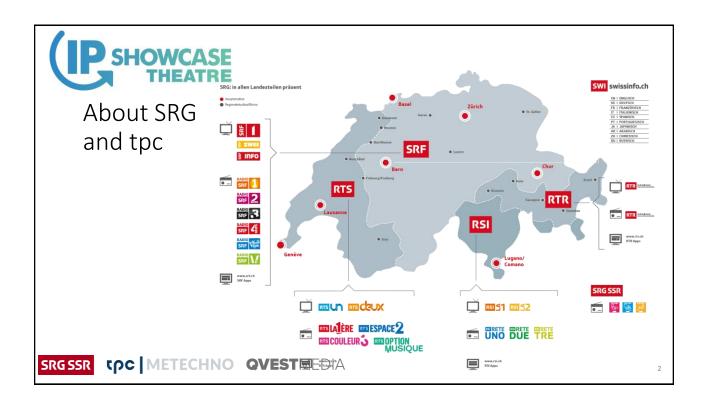


Planning a SMPTE ST 2110 infrastructure for tpc sports, news and technology center in Zurich, Switzerland

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Andreas Lattmann, CTO of tpc Switzerland AG

SRG SSR

TPC METECHNO QVESTMEDIA IP SHOWCASE THEATRE AT IBC - SEPT. 14-18, 2018





About Qvest Media



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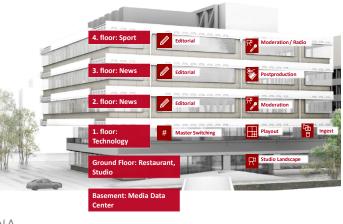


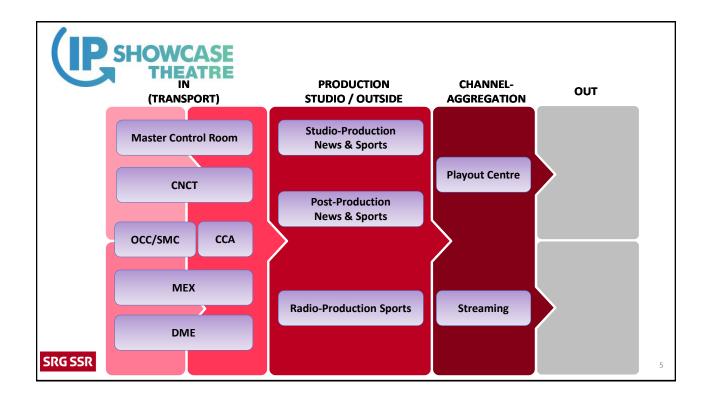
The New Sports, News and Technology Centre

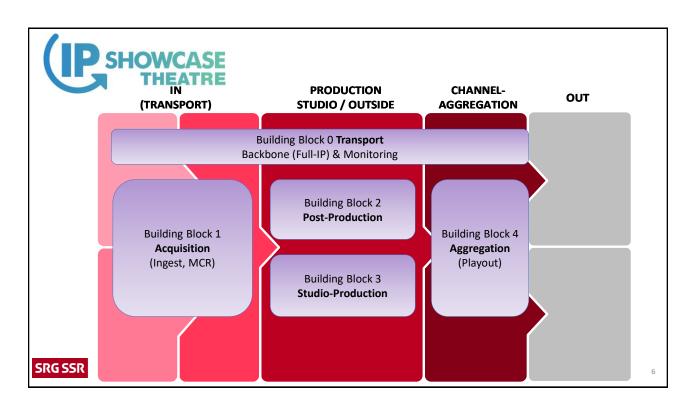
- News and Sport Studios
- Radio News Studio + Gallery
- News Post Production
- Online Production including small production rooms for live productions
- Playout for the three SRF Channels: SRF1, SRF2, SRF Info
- National MCR (Sports Venus, EBU, SRG SSR exchange)

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Technical Standards

- We claim only open Standards
- SMPTE 2110
- AES 67
- NMOS
- tpc is AIMS member
- tpc is SMPTE member

- Greenfield approach
- UHD / HDR ready
- Future proofed
- Uncompressed
- On Air September 2019

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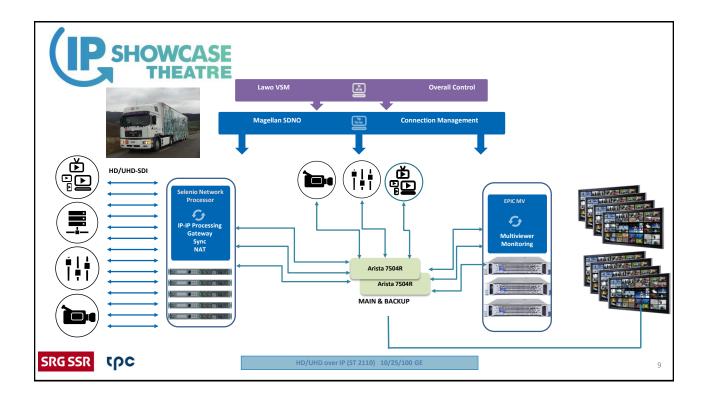
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7

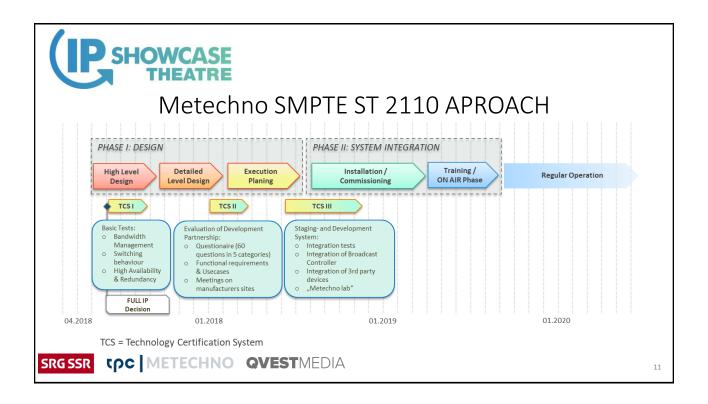


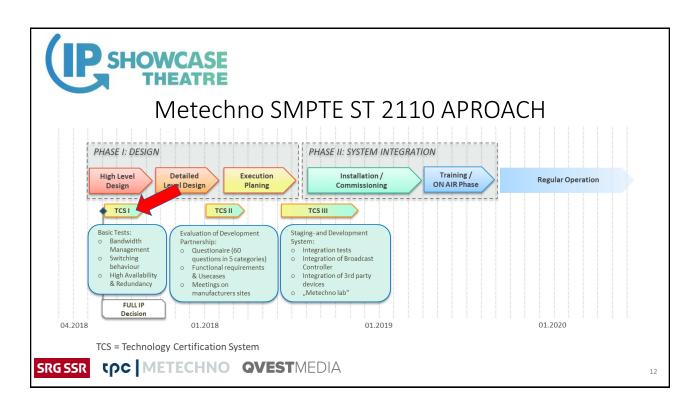
How to get Experience?













TCS 1 – Fall 2017

Primary test of the orchestrator platforms

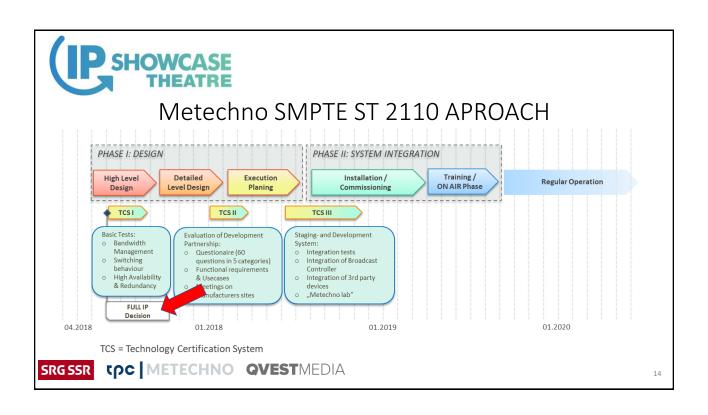
6 vendors 3 weeks 49 tests 8 categories

- Basic Setup (Setup & Configuration)
- Basic Tests (Basic features)
- Bandwidth Management
- · Switching Behavior
- Audio/Video
- · High Availability & Redundancy
- Security
- · Communication with vendor

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Full IP decision

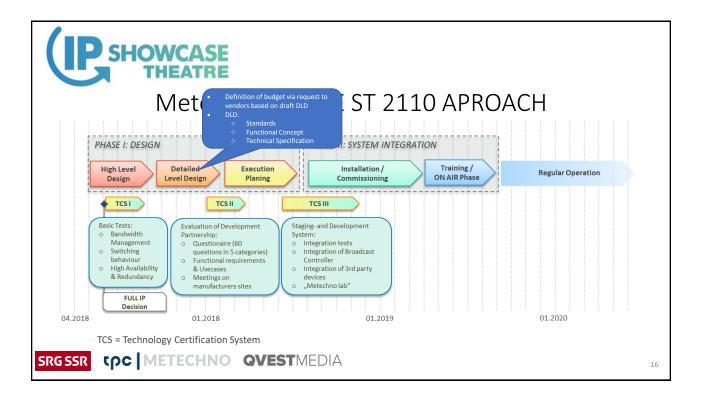
- Decision for
 - A future proof system
 - UHD-ready
 - Aware of the risk
 - Scope of "Full IP"

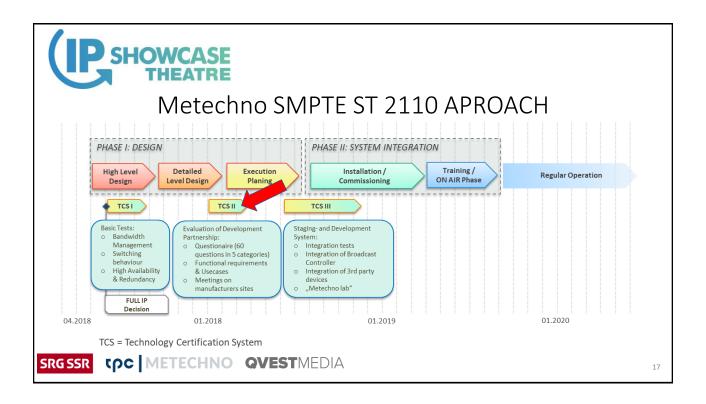
- Defined as "Full IP":
 - SMPTE ST 2110 and AES67
 - Spine Leaf-Architecture
 - "2110-COTS"
 - Non-blocking Fabrics but blocking Bandwidth
- Thus not in Scope of "Full IP":
 - UHD 12G SDI
 - UHD 4x3G-SDI
 - SMPTE ST 2022 In-house
 - Proprietary formats
 - Compression as a requirement
 - Central architecture

15

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TCS 2 – currently ongoing, almost finished

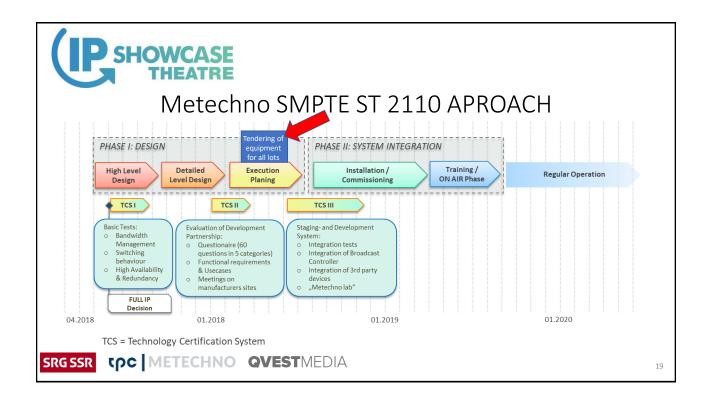
- Results of work so far: The solution we are looking for is not available with the required maturity
- Goal: find the right vendor to realize the orchestration functionalities for the project
- Looking for a potential supplier to work together on a solution matching our requirements
- 120 pages document as input to the vendors



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18





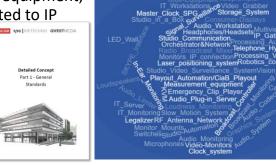
Tendering of equipment for the others lots

 Remember...we are planning a complete new technology building: studios, galleries, MCR, radio, ...

 We have issued about 60 tenders for equipment, most of them are somehow also related to IP

 We defined a "Standards" document with our requirements for IP

Where necessary, SDI gateways will be used

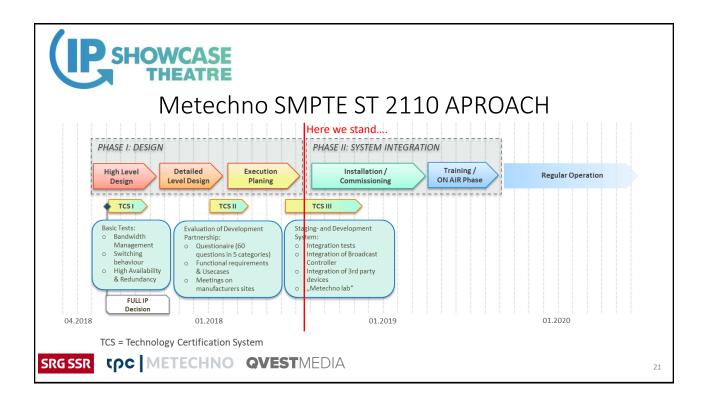


Camera_Lenses

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20







Thank You

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