

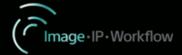


## Fabien.Pisano@eu.sony.com

South Europe head Sony Professional Europe

#### SONY





# HDR services and productions are taking off worldwide

Services

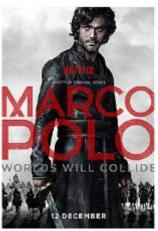




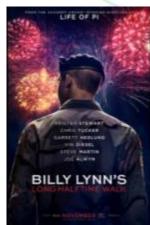


## OTT / TV Production / Cinema













# HDR is here

First HDR services are streaming now

More live broadcast trials completed

More TVs & projectors with HDR are here

More life-like pictures

# **HDR**



Post production workflows are proven

Cameras in widespread use

Grading and client monitors are here

Standards for production and exchange are here



# Standards are here

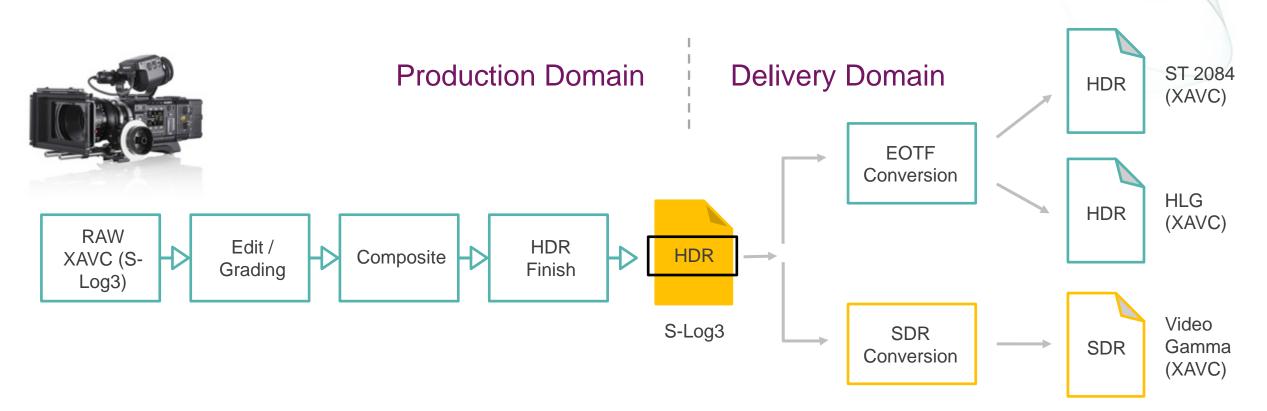
	Transfer Function / Metadata	Comment
SMPTE	ST 2084 (PQ) EOTF ST 2086 (Display Static Metadata) ST 2096 (Dynamic Metadata)	Completed Completed Ballot completed
ITU-R	ITU-R BT.2100	Published
ARIB	ARIB STD B67 (Hybrid Log-Gamma)	Published
DVB	In progress	UHD1 Phase 2 Standardization in 2016



# Tools for HDR Production



# HDR workflow for optimum results: S-Log3 for acquisition



- S-Log3 is designed to preserve the captured source light efficiently
- Optimised for production, recording and future re-use (re-grade)



## **New Anouncements**



HDC-4800 Camera System & Share Play Availability: Now



HXR-NX5R
Our ultimate compact
Full-HD camcorder
Availability: Mid/End Sept 2016



MCX-500
Pro-quality switcher,
accessible price
Availability: Jan 2017



BRC-X1000
Our first 4K PTZ robotic
network camera
Availability: Jan 2017

1" Exmor CMOS sensor



for detail-packed Full HD images
Availability: Jan 2017

**BRC-H800** 



- man





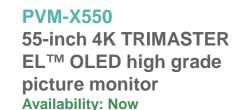


#### HDC-P43

Lightweight Point of View camera integrated with existing HD infrastructure Availability: Jan 2017









slot-in receiver for Sony camcorders Availability: E/Oct



DWT-P01N

Pro Audio digital wireless microphone plug-on transmitter Availability: E/Oct



UPDATE: PXW-FS5 V3.0



UPDATE: PMW-F55 & F5 V8.0

Availability: M/Sept2016



**AXS-R7** 

External 4K Portable Memory Recorder for F55 and F5 Availability: E/Sept 2016









# Technology Innovator – Ready Today Open For Tomorrow

**Ready Today** 

**Open for Tomorrow** 

**Current SMPTE Standards + RDD** 

**Coming Open Standards** 

SMPTE 2110 (TR-03) AMWA NMOS

**Supporting all Alliances** 

IP Live Alliance - ASPEN - AIMS - AMWA NMI - JT-NM

**Delivering Unified Interoperability** 

Networked Media Interface (NMI)



























































































Snell Advanced





















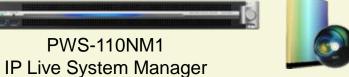


## **End-to-end IP Live Production**











## Acquisition



HDC-4800 BPU-4800



HDC-4300 HDC-P43

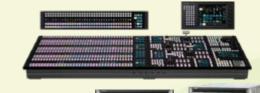


**BPU-4500** 

HDCU-4300 HKCU-IP43F

4K/HD System Camera

## **Production**





XVS-6000 XVS-7000 XVS-8000 4K/HD Production Switcher



PWS-4500 4K/HD Production Server

## **Processing**



NXL-FR318 Signal Processing Unit



NXLK-IP40F **SDI-IP Converter** 



NXLK-IP45F AV Multiplexer/ **DeMultiplexer Board** 

## **Monitoring**



NXL-IP4F **SDI-IP Converter Unit** 



PWA-MV1N IP Live Multi-viewer

# IP LIVE POC FTV



Ericsson : 23 Rue du Dôme Boulogne Billancourt France Télévisions : 18 rue du Professeur-Florian-Delbarre 75015 Paris



## **Technical Brief**

#### This POC is 2022-6 based:

- 2022-6 is the minimal common denominator for such a big number of participants
- Soon, SMPTE 2110 will replace SMPTE2022-6

What's new: two remote sites are connected (compared to POC V1, 2015)

#### **Limitations:**

- No common Software Defined Network
- No device Discovery methods,
- No Dynamic System allocation

#### Sony contribution (ON FTV site):

- System Camera Chain 4K IP /SDI with HDC-4300 + BPU4500 + HDCU 4300 + RCP 1500
- Vision Mixer MVS 6530
- SDI IP Converters
- Integration with Imagine Communications 4K downscaler and NMI to 2022-6 converter



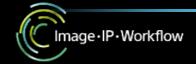
## IP training program

## **IPL E-Learning**:

- The Sony Knowledge Portal: <a href="http://t.info.pro.sony.eu/r/?id=h198d810,38d4db3,38d4db8">http://t.info.pro.sony.eu/r/?id=h198d810,38d4db3,38d4db8</a>
- Each piece of E-Learning should last no longer than 10min
- Focus:
  - Network Fundamentals
  - IP Live Products & Applications
- Main topics :
  - Basics of Networks, First Products and Applications

## **IPL F2F training**:

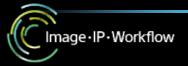
- 2 main modules: Network Fundamentals\* & IP Live Production Products & Solutions
- Focus:
  - Technical Knowledge of IP Networks design and management\*
     (2 days w/ External Network Company)
  - Technical Knowledge of IP live Production System Design & Operations (2 days)
- Main topics:
  - Network Design, IP for Live Production, System Design, System Configuration, ...

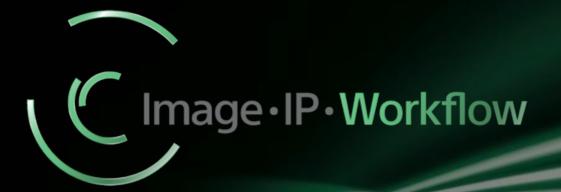


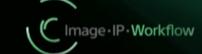
## IP training program

Course	Location	Cost per student
Juniper Network Fundamentals + Sony IP Live Fundamentals	Pinewood	€2,500
Sony IP Live Fundamentals (standalone course)	Pinewood	€1,250
Juniper Network Fundamentals + Sony IP Live Fundamentals	Non UK Location	€2,500 + Logistics
Sony IP Live Fundamentals (standalone course)	Non UK Location	€1,250 + Logistics

- Course will be minimum 6 people. To ensure a good quality of training we limit the course numbers to a maximum of 10 people.
- Based on the training delivered by other network companies. Industry standard charge is around 7,000 USD per trainer day!
- We are still investigating Junipers capabilities to deliver the training in local language as well as local ICE Training capabilities.
   Primary training language will then be English.
- We can run these training program courses for customers & associations as well for the same charge.







# Media Backbone Hive, a key highlight at the show

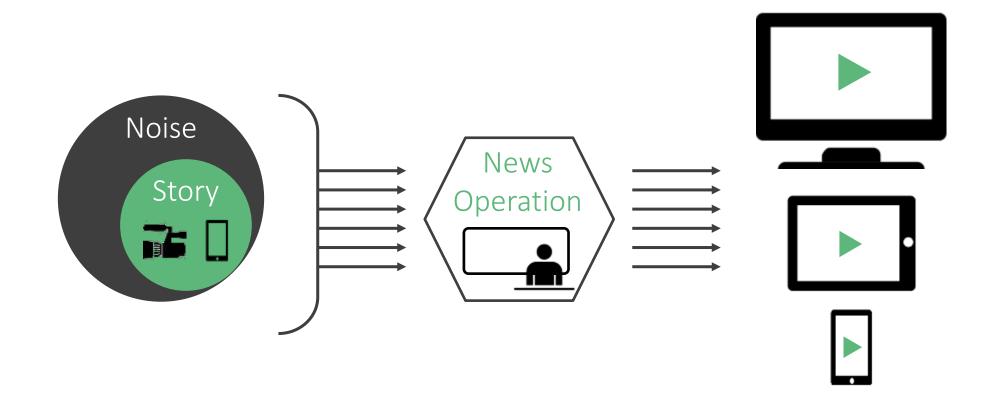








# Broadcast news production is seeing a revolution in the story of source to consumption





By switching to an internet technology focus, we have created a new platform equal to that used by big industry players.

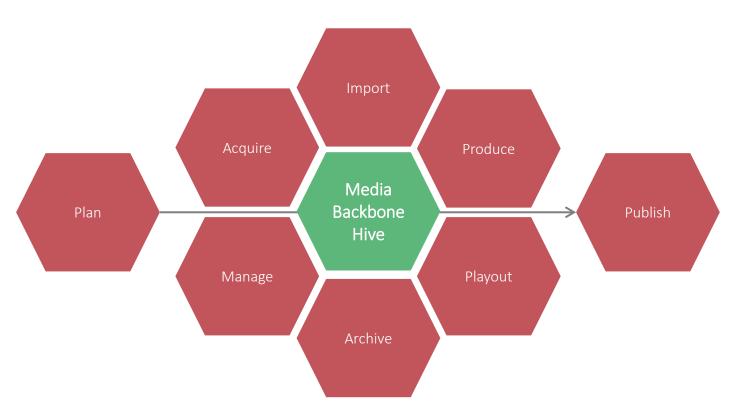


A fundamental change in the broadcast platform architectures.



## Media Backbone Hive

A cost effective and highly scalable Unified Media Content Platform supporting multiple production and publishing toolsets

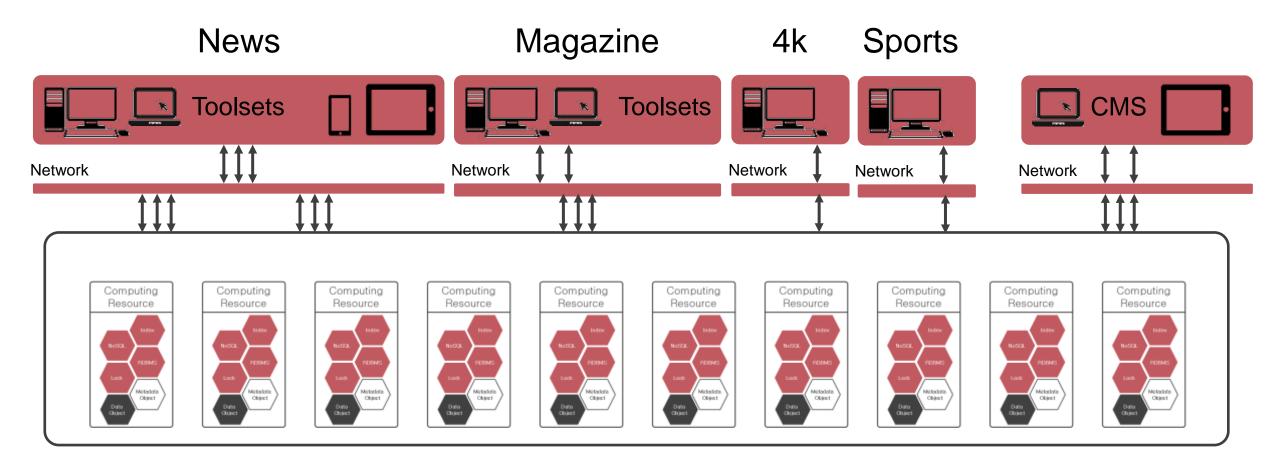


- Streamlined camera-to-archive production workflow
- Integrated solution
- Dynamic pay-as-you-go system for scaling and functionality (up as well as down)
- Adaptable, Open and Smart Platform
- Internet/mobile first workflows that flex with digital 'trends'
- A recognized universal toolset designed for journalists
- Driving a lower TCO



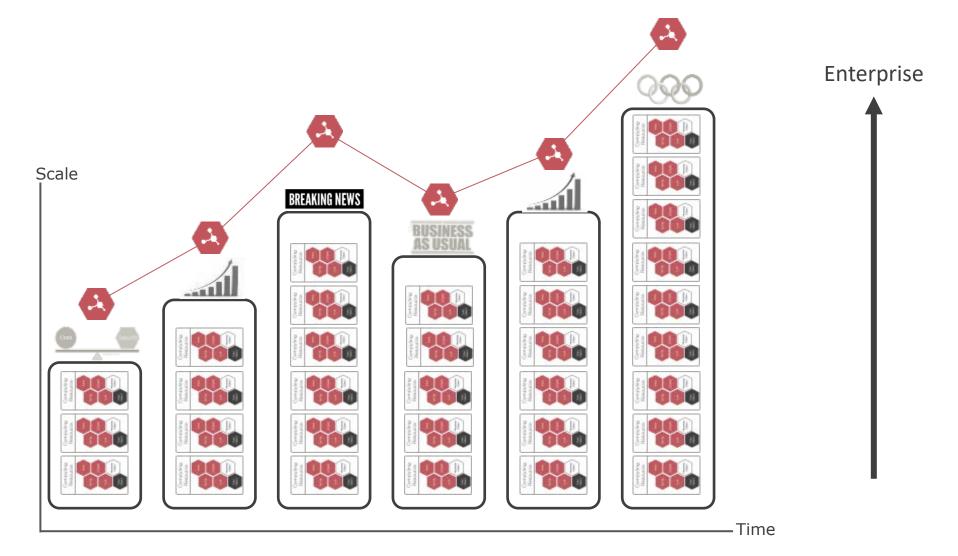


# Unified Content Platform

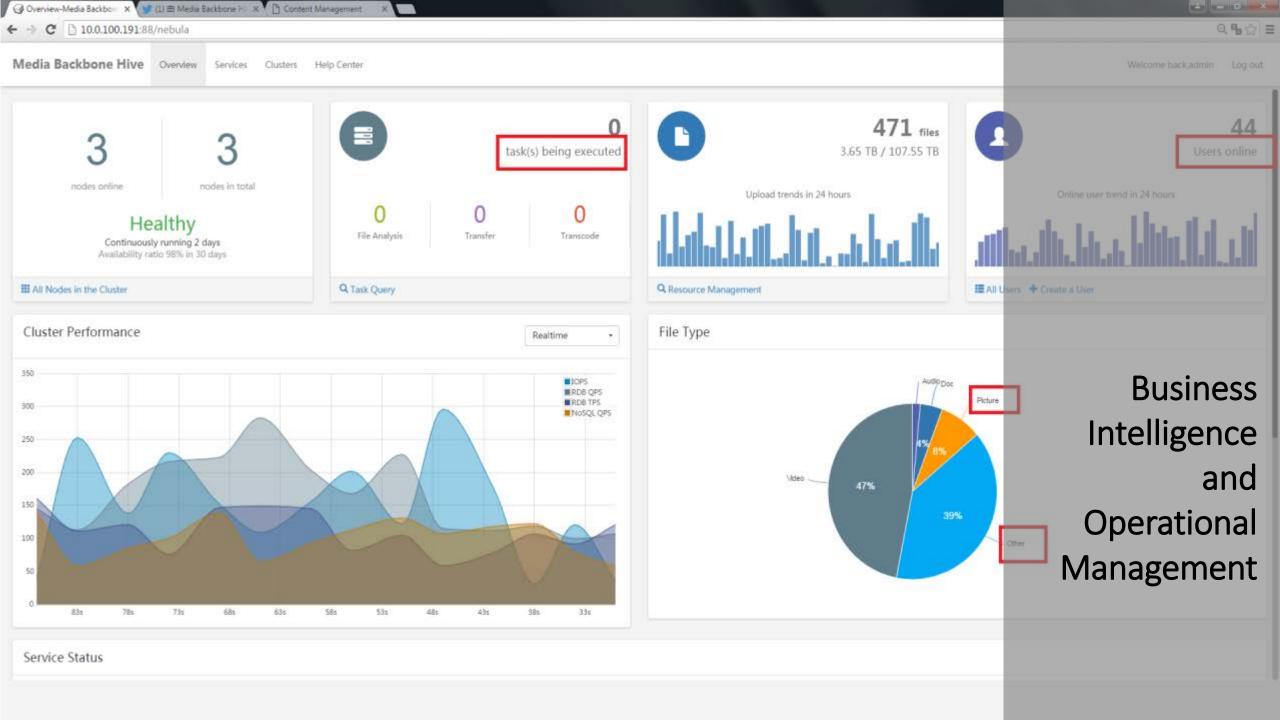




# Affordable and Scalable







## **ODA Generation 2**

Delivering safe, long-term storage, whilst providing instant access to all your files, opening up a new range of storage workflows.











be there... for 100 years.



In a format you use and understand.



**Optical Disc Archive** 



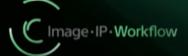
One time purchase. No migration Required.



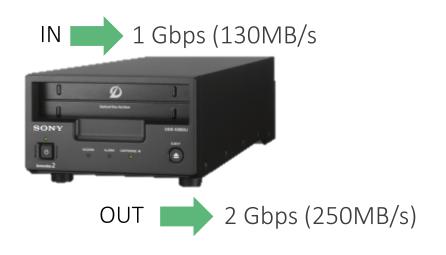
Scalable integration for all to access



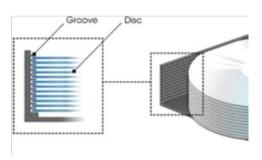
Access like a HDD.



# **ODA Generation2**





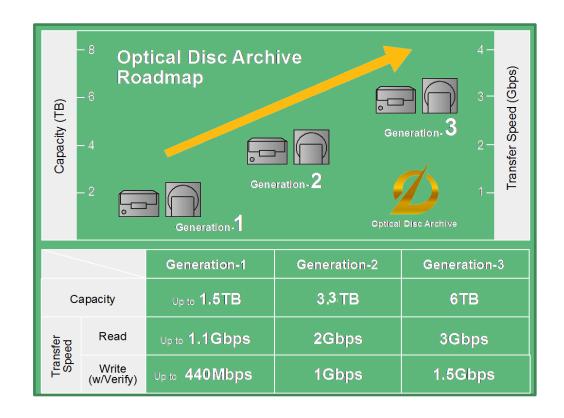


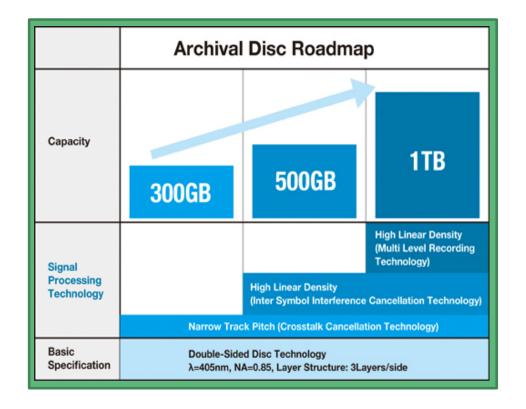
- 1 Cartridge
- 11 x Archival Disc
- UDF Open format
- 8 lasers that Verify and Parity for added security
- Write speed in 1 Gbps data In and read speed out 2 Gbps data
- Seen by Windows, Mac OS and Linux as a simple disk volume





# **ODA Roadmap**





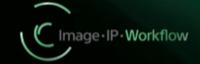


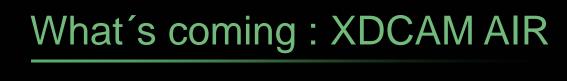


# What's coming: Media Backbone Navigator X

Powerful, yet affordable content management and workflow solution that's a perfect fit for today's smaller sized production environments.











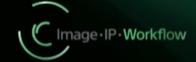
Metadata

Incoming field stream

**XDCAM** Air

Cloud-based ENG Service

Outgoing on air stream



# Find out more at www.pro.sony.eu/ibc









