

# **SMPTE HPA Update**

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#### **STANDARDS TEAM AT SMPTE**





**BRUCE DEVLIN**Standards Vice President 2020-2021



THOMAS BAUSE MASON Director of Standards Development



KARISSA RUPNARAIN
Digital Content Specialist



MAURICIO ROLDAN
Manager of Engineering
Services

#### **SMPTE AROUND THE WORLD**



#### **SINCE 1916**

#### **USA SECTIONS:**

**NEW ENGLAND NEW YORK** ROCHESTER **PHILADELPHIA WASHINGTON DC ATLANTA FLORIDA DETROIT PITTSBURGH** OHIO CHICAGO **NASHVILLE CENTRAL TEXAS DALLAS ROCKY MOUNTAIN** HOLLYWOOD **PACIFIC NORTHWEST SUB-SECTIONS (SS):** CONNECTICUT **LONG ISLAND VANCOUVER (USA SS)** 



#### **STUDENT CHAPTERS:**

**BAYLOR UNIVERSITY BIRMINGHAM CITY UNIVERSITY** MANHATTAN COMMUNITY COLLEGE **BRONX COMMUNITY COLLEGE STATE UNIVERSITY** HONG KONG DESIGN INSTITUTE (HKDI) HONG KONG INSTITUTE OF VOCATIONAL EDUC. KINGSBOROUGH COMMUNITY COLLEGE LOS ANGELES CITY COLLEGE LOYOLA UNIVERSITY MARYLAND MEDIA ARTS COLLABORATIVE CHARTER MILLERSVILLE UNIVERSITY **MONTGOMERY COLLEGE** NEW YORK CITY COLLEGE OF TECHNOLOGY **PASADENA CITY COLLEGE RAVENSBOURNE ROCHESTER INSTITUTE OF TECHNOLOGY** SOUTHAMPTON SOLENT UNIVERSITY STONEHILL COLLEGE SYDNEY STUDENT CHAPTER SYDNEY INSTITUTE UNIVERSITY OF SOUTHERN CALIFORNIA **WESRAC USC UNIVERSITY OF SALFORD - UK** 

**UNIVERSITY OF SURREY - UK** 

WILLIAM PATERSON UNIVERSITY







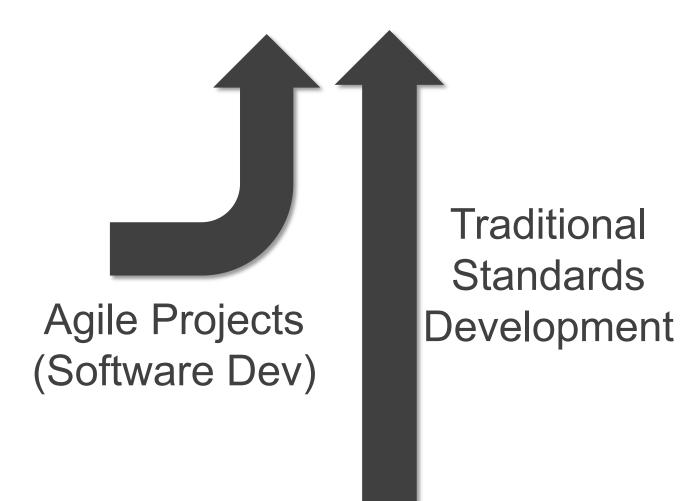
SMPTE published 35 Engineering Docs (new or revised), 5 RDD's were sold and published, 4 TC Meetings conducted (1x Japan, 1x Germany, 2x US), 1 ISO TC 36 Plenary hosted, 2 Microservice Summits were conducted

https://www.smpte.org/outcome-report



SMPTE standards will continue to exist we need to address a fundamental change in the media industry so SMPTE can stay relevant





#### **GLOBAL SHIFT IN THE MEDIA INDUSTRY**





#### SHARING ECONOMY WHAT IS IT?



"Sharing economy: focus on the sharing of underutilized assets, monetized or not, in ways that improve efficiency, sustainability and community."

World Economic Forum (WEF), 2017

#### **SHARING ECONOMY WHY CARE?**



"One of the key benefits of this new business model for an organization is the effective utilization of unused resources."

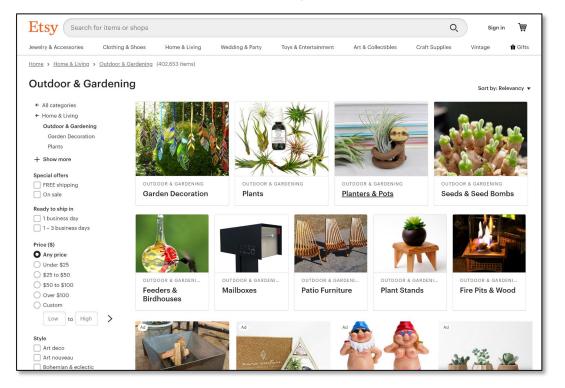
ISO TC 324 Chair, Dr Masaaki Mochimaru



#### SHARING ECONOMY EXAMPLE

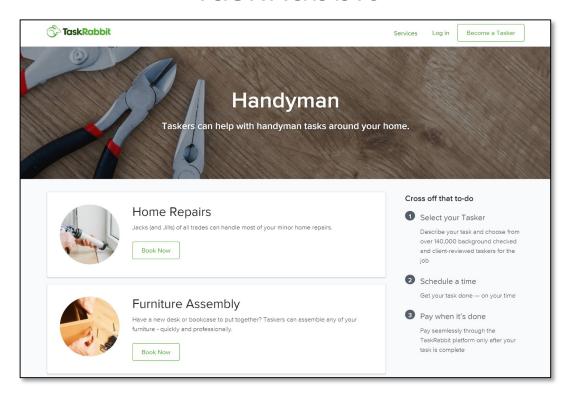


### Etsy



### TaskRabbit

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#### MEDIA INDUSTRY UNUSED CAPACITY



500,000 control rooms worldwide are unused 70% of the time

NECF, Joseph Maar

The worldwide public cloud services market is forecast to grow 17% in 2020 to total \$266.4 billion, up from \$227.8 billion in 2019 Gartner, Inc.

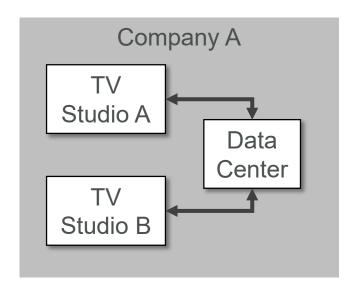
#### **MEDIA INDUSTRY TRANSFORMATION**

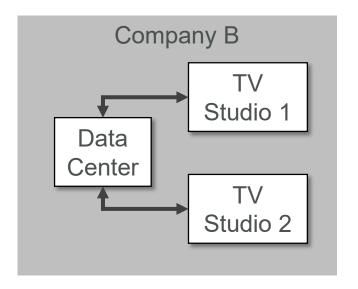




#### **MEDIA INDUSTRY TRANSFORMATION**

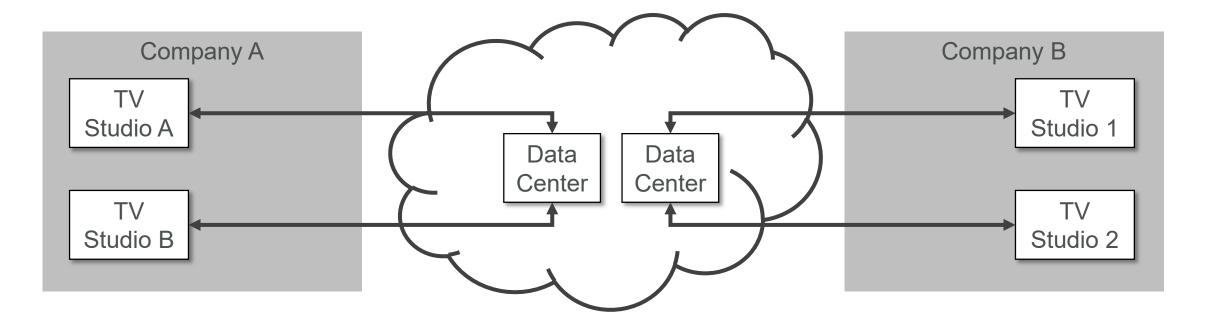






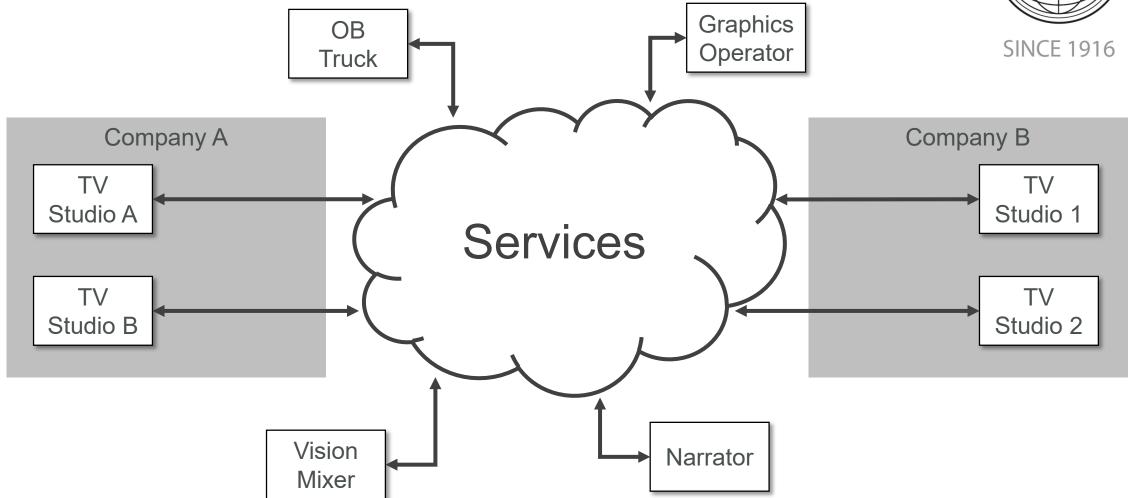
#### **MEDIA INDUSTRY TRANSFORMATION**





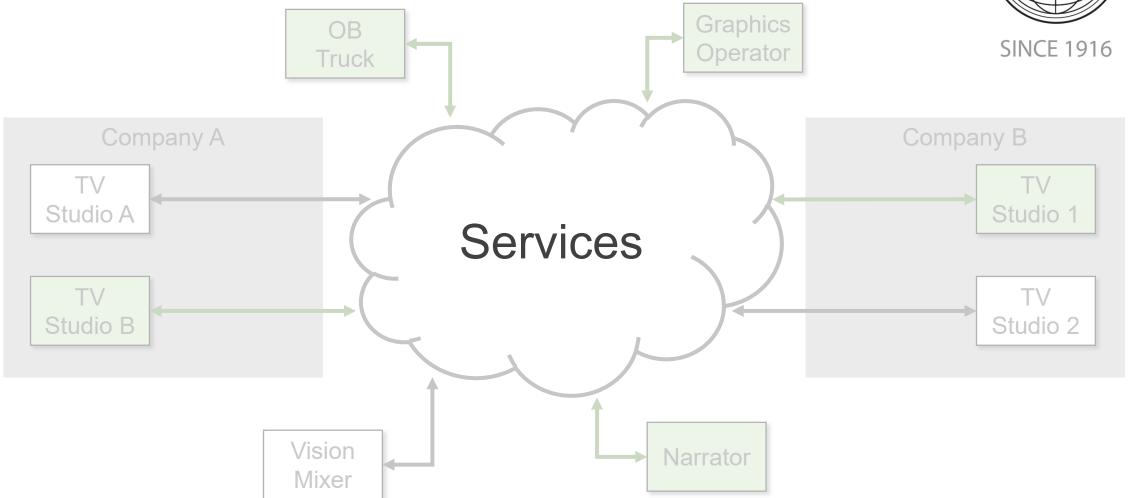
#### MEDIA INDUSTRY DISTRIBUTED PRODUCTION





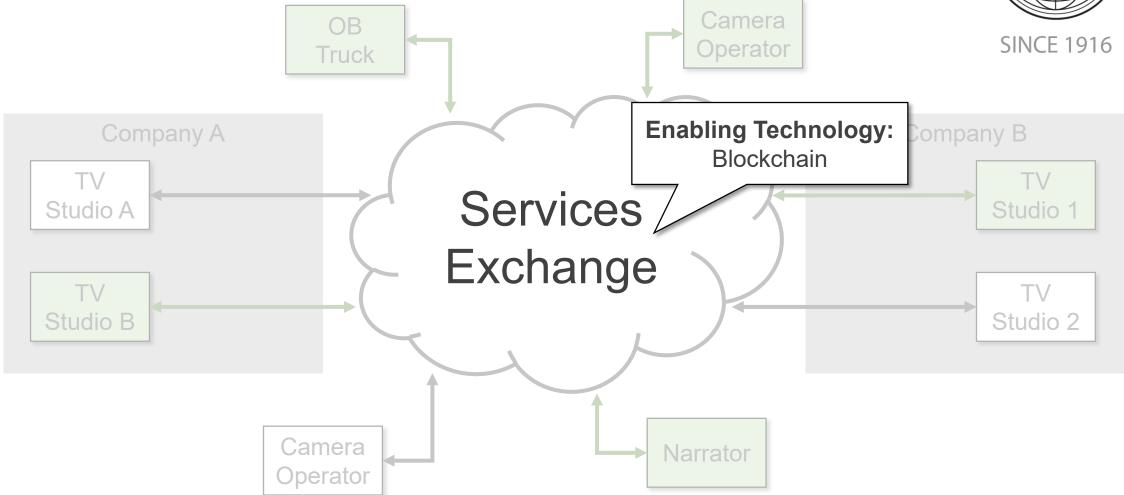
### **SHARING ECONOMY DISTRIBUTED PRODUCTION**





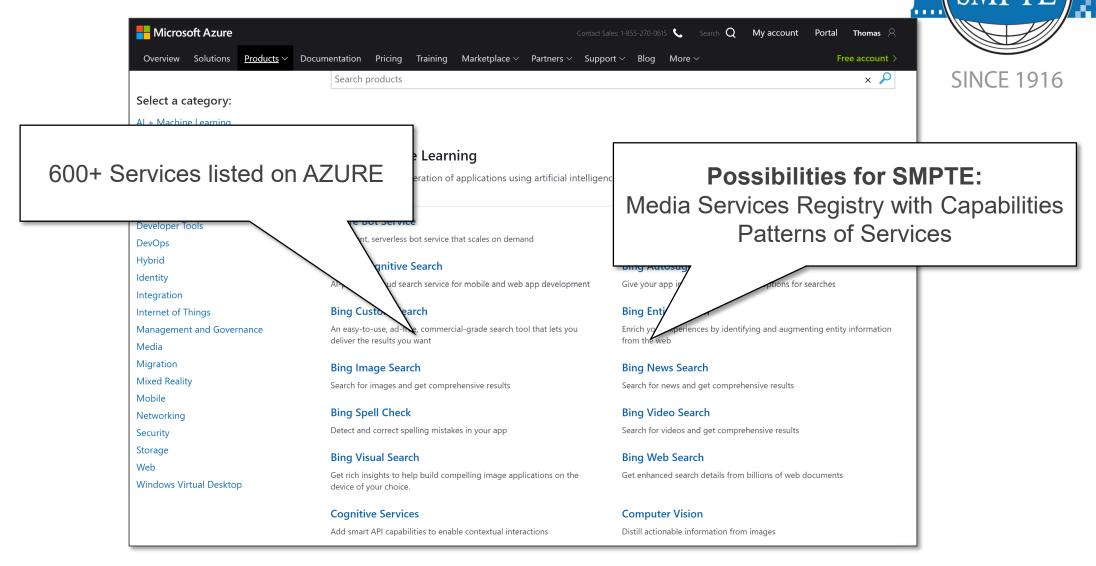
#### **SHARING ECONOMY DISTRIBUTED PRODUCTION**







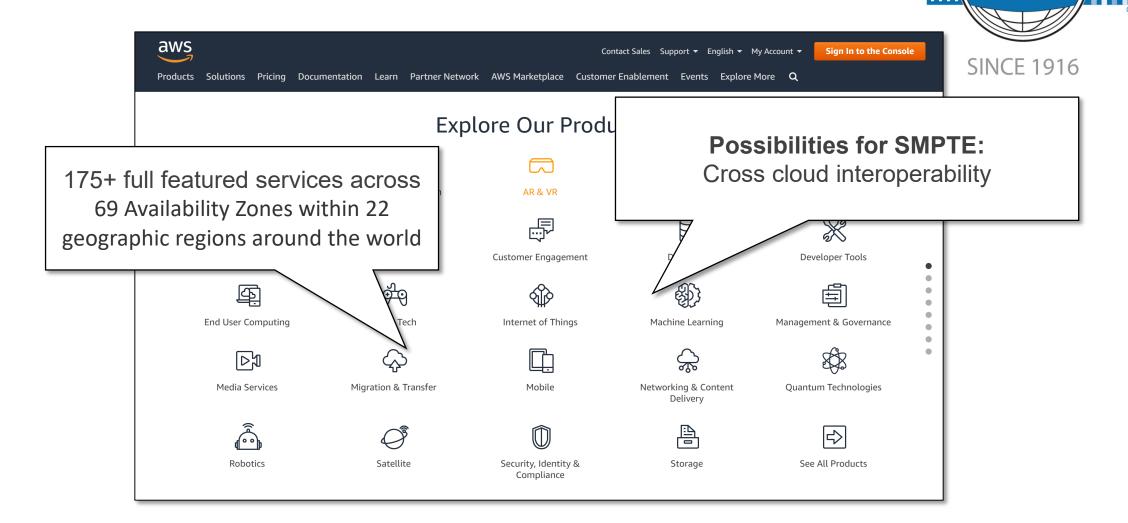
#### **CLOUD ARCHITECTURE WHY SHOULD SMPTE CARE?**



THE NEXT CENTURY

https://azure.microsoft.com/en-us/services/#hybrid

#### **CLOUD ARCHITECTURE WHY SHOULD SMPTE CARE?**



#### **SHARING ECONOMY WHY CARE?**



"Enterprises will select the best service for the job."

INTEROPERABILITY = SMPTE

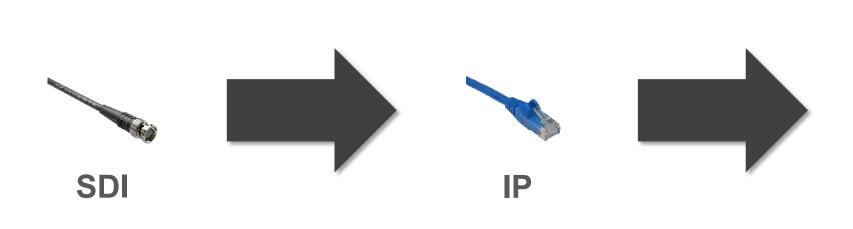
"84% of enterprises run on a multi-cloud strategy."

Source: Rightscale



### **SMPTE THE INTERFACE EXPERT**





#### HTTP Header

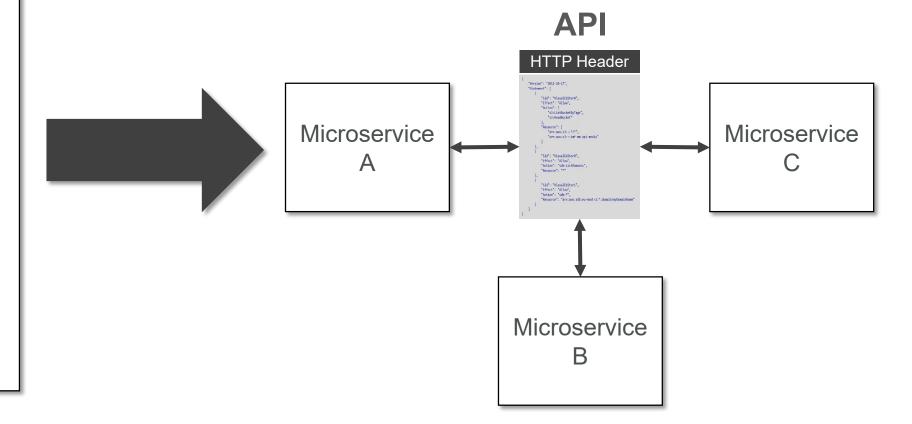
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"Statement": [
       "Sid": "VisualEditor0",
       "Effect": "Allow",
        "Action": [
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           "s3:HeadBucket"
        "Resource": [
           "arn:aws:s3:::*/*",
           "arn:aws:s3:::imf-mm-api-media"
        "Sid": "VisualEditor0",
       "Effect": "Allow",
       "Action": "sdb:ListDomains",
        "Resource": "*"
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       "Effect": "Allow",
       "Action": "sdb:*",
       "Resource": "arn:aws:sdb:eu-east-2:*:domain/myDomainName"
```

**API** 

### **SMPTE THE INTERFACE EXPERT**



Monolithic Software



#### **SMPTE SOFTWARE FOCUS**



**Established SMPTE GitHub** 

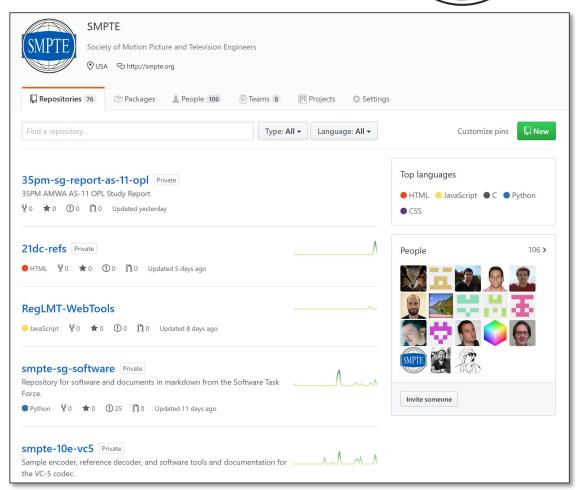
Established rules for SW in SMPTE

Figure out how to engage with Opensource projects (ASWF)

What is SMPTE's legal framework

How to do CI/CD

How do we handle QA



#### **SMPTE INTEREST AREAS**



Media Services Exchange

Media Microservices and API's

Agile Software Projects

Blockchain and Service Registry

Continue traditional SMPTE projects

### **SMPTE INDUSTRY COLLABORATION**





#### LEADERSHIP IN MEDIA SHARED ECONOMY



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Neutral Media Exchange for Production and Distribution (150 M&E suppliers, distributors and platforms)





Global ISO Liaison for Sharing Economy TC and Blockchain TC



Media Cloud & Microservices

#### MEDIA MICROSERVICES INTEROPERABILITY







Directions

Open
Services
Alliance
for Media

2 Summits Conducted

- Los Angeles
- New York

#### Founded as Discussion Forum

- Regular Online Meetings
- Last Face-to-Face at (ABC)

Currently discussing what to do and how to approach it Bring results to SMPTE for Standardization in some form

THE NEXT CENTURY

http://openservicesalliance.com/



