



Solutions Guide: **Media for Nonprofit Organizations**



About AWS Elemental



- World's leading cloud infrastructure
- Secure, elastic, scalable, cost effective
- Supports over 190 countries, 1M+ customers



- Deep video processing expertise
- Improve, monetize, deliver content
- Proven solutions with 850+ customers

Together AWS and AWS Elemental bring customers:

- ✓ Cost-effective and efficient scaling of video infrastructure
- ✓ Deeply integrated media-centric webservices on AWS
- ✓ Integrated solutions for "next-generation" deployment models



The background of the slide is a photograph of several pairs of hands, likely belonging to children, gently holding small green seedlings with soil. The image is dimmed to serve as a backdrop for the text.

00 Content

- 01 / Industry Dynamics
- 02 / Deploying Video
- 03 / AWS Solutions
- 04 / Partner Solutions
- 05 / Conclusion
- 06 / Case Studies

A background image showing several pairs of hands, some dark-skinned and some light-skinned, gently holding small green seedlings with soil. The image is dimly lit, with a dark blue and black color palette. The hands are positioned in a way that suggests a collective effort in planting or nurturing the seedlings.

01 Industry Dynamics

CHANGING DYNAMICS IN VIDEO FOR NONPROFITS

Decline in Charitable Giving

-72%

Decline in charitable giving to NPOs during COVID-19.

¹ At **32%**, online giving is the third most popular fundraising strategy.²

Service Disruption

78%

Nonprofits who experience a disruption of mission delivery and community impact. **23%** of NPOs do not think they will survive.³

Perceptions of New Technology

89%

Nonprofits who would like to adopt new technology. **64%** are budget constrained, **59%** are either intimidated or are overwhelmed by technology.²

¹ TheNonProfitTimes, "Survey: Donors Showing Some Signs Of Life During COVID", June 2020, Source: <https://www.thenonproffitimes.com/donors/survey-donors-showing-some-signs-of-life-during-covid/>

² NonProfitPRO, "4 Takeaways Nonprofit Leaders Need to Know", Source: <https://www.nonprofitpro.com/article/4-takeaways-nonprofit-leaders-need-to-know/>

³ Globalnews, "Non-profit organizations struggling to make ends meet during COVID-19", Source: <https://globalnews.ca/video/6785550/non-profit-organizations-struggling-to-make-ends-meet-during-covid-19/>

SOLUTION REQUIREMENTS



Scalability



Rely on non-physical distribution channels to scale worldwide



Portability



Need for mobility in equipment



Resilience



Deliver high quality video reliably across devices and geographies



Affordability



Low cost physical and virtual expenditures

TYPICAL USE CASES



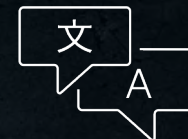
Broadcast
channel



Collaboration &
communication



Lecture
capture



Transcription &
translation



Live
events



Townhall &
briefings



Charitable
giving



User-generated
content

02 Deploying Video

Video At A Glance

In a simple video streaming workflow, a high-quality live camera feed or a pre-recorded video file is uploaded into the AWS cloud via a contribution encoder. That video is processed into renditions, packaged into the right formats, then stored in a CDN such as Amazon CloudFront for playout on all compatible devices and video players.

Depending on your needs, you may want to use digital rights management (DRM) or watermarking for content protection, or you may wish to extend the offering with user management systems or a content personalization capabilities. Regardless of the requirement, AWS or an AWS partner has a solution or service that fits the need.



Support for a variety of deployment models

Depending on your needs, you can build your media workflows on top of AWS using AWS media solutions and services, leverage our partner ecosystem, or create a bespoke offering.



BUILDING BLOCKS

Design your own media offerings with dedicated solutions for video transport, processing, packaging, delivery & distribution.



TECHNOLOGY PARTNERS

Choose commercially proven solutions for video delivery with help from an AWS technology partner.



SOLUTION STARTER KITS

Use reference architectures, implementation guides, templates, source code, and documentation to deploy production workflows.



CONSULTING PARTNERS

Work with AWS experts who design and maintain cloud video infrastructure tailored to specific customer requirements.

Benefits of using the **Solution Starter Kits**



1. ONE-CLICK LAUNCH

The AWS media solutions are templated workflows which you can deploy and get started with quickly with just one click, launching fully-tested solutions in your AWS account. This saves the resources of developing a solution from the beginning.



2. WELL-ARCHITECTED

AWS solutions are designed with best practices to ensure the solutions are deployed with application security, has monitoring capabilities, and can support multiple users at scale and with high resiliency.



3. EXPAND AND ADD

Use the framework and available guides to expand the solution starter kit based on your needs.



4. ACCELERATE MONETIZATION

The net result of launching a fully-tested, well-architected solution in one-click which can be expanded with complementary services such as personalization and ad insertion is that NPOs can experiment with varying business models to optimize the monetization potential of its content.

Benefits of using Partner Solutions



1. BEST IN CLASS

Built on AWS, partner solutions are both well-architected and designed for specific NPO use cases, delivering innovative capabilities which fit your workflow.



2. FULLY-MANAGED

Partner solutions are managed by dedicated teams who monitor their solutions' performance and metrics to ensure its reliability and scalability, and are committed to your success.



3. FAST DEPLOYMENT

Built on the AWS cloud, partner solutions can be deployed very quickly, without the need to provision hardware and develop the end-to-end solution.



4. CUSTOMIZABLE & EXTENDABLE

With dedicated engineering and professional services teams to focus on customizing and extending the capabilities of partner solutions, you can be rest assured that the out-of-the box solutions can be customized for your workflows.

A background image showing several pairs of hands, some of which are holding small green seedlings with soil. The image is dimly lit and has a dark overlay. The hands are of various skin tones, suggesting a diverse group of people. The seedlings are small and have several green leaves.

03 AWS Solutions

Solution: AWS Elemental Link

Front



Back



AWS Elemental Link is a device that connects a live video source, like a camera or other video production equipment, to MediaLive

- Connect power, Ethernet, and video (HDMI or 3G-SDI)
- Link accepts a single video source and sends a single video output to AWS Elemental MediaLive

Solution: AWS Elemental Link (cont)

<https://aws.amazon.com/medialive/features/link>



Easy to set up, operate remotely, and take anywhere



Fast and easy setup

- AWS Elemental Link is shipped **fully configured** to your AWS Account
- Once connected, Link **automatically** starts sending thumbnail images to AWS, ready as a MediaLive source



Manage remotely

- **Stop and start** Link device from the MediaLive AWS Management Console
- **Manage and monitor** your live feed from a central point of control



Small and portable

- Weighing **less than 1 lb. (450 g)** Link travels wherever you need it to
- **Silent** operation and minimal heat generation make the device practical to use just about anywhere

Cost efficient and adaptable to network issues



Cost efficient

- AWS Elemental Link offers **broadcast-grade** live video transfer to AWS at a **fraction of the cost** of traditional approaches
- Link is **efficient to operate**, with easy setup and remote management



High video quality

- Link uses **efficient, advanced video compression** to deliver high quality video
- To **maximize the quality** of video sent to the cloud over unpredictable networks, Link **continuously adjusts bitrate** based on conditions

Solution: Backpack reference design



Optimal mobility

- AWS Elemental Link + LTE/WIFI/GPS router + battery is **lightweight**
- **Silent** operation and **minimal heat generation** is ideal for backpack design



Flexible configurations

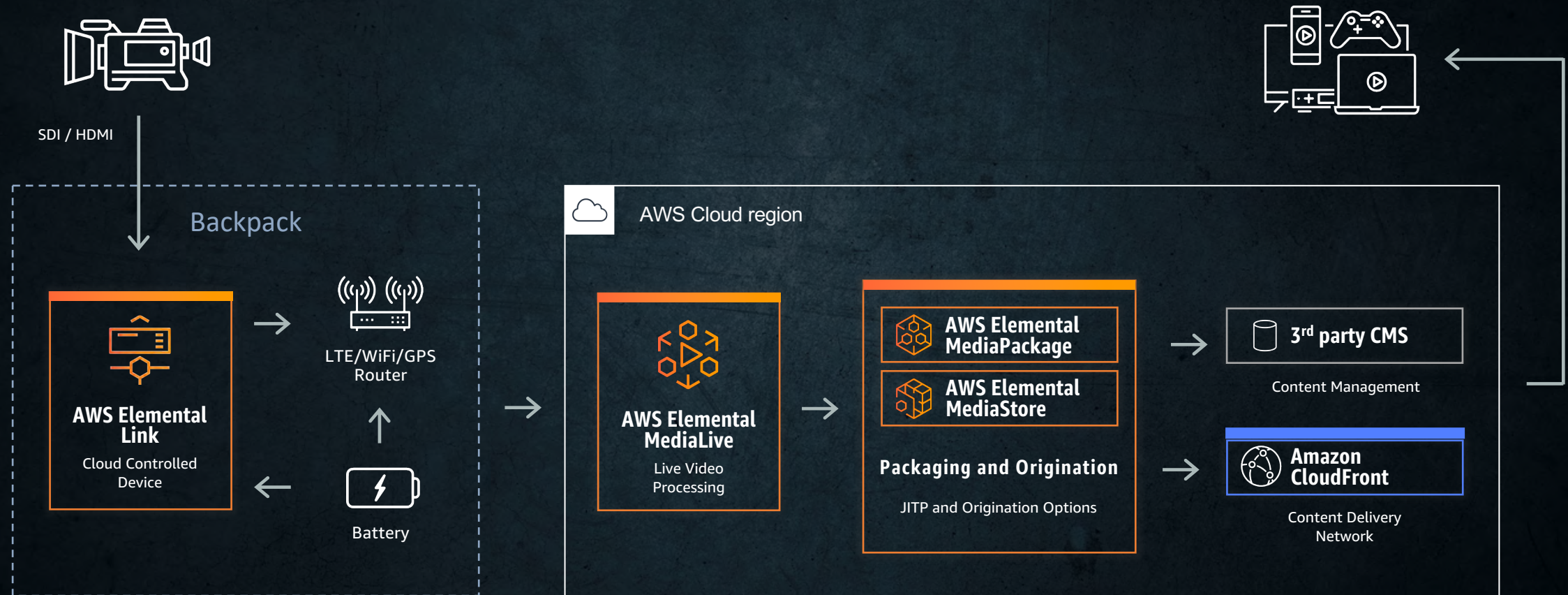
- Connect to AWS SnowPack for **disconnected edge video processing**
- Configure as a MediaLive source feeding a **partner video CMS**
- Onboard integration with AWS IoT Greengrass **enables AI/ML**



High video quality

- **Efficient, advanced video compression** delivers high quality video
- Link **continuously adjusts bitrate** based on conditions

Solution: Backpack reference design (cont)



Solution: Backpack reference design (cont)



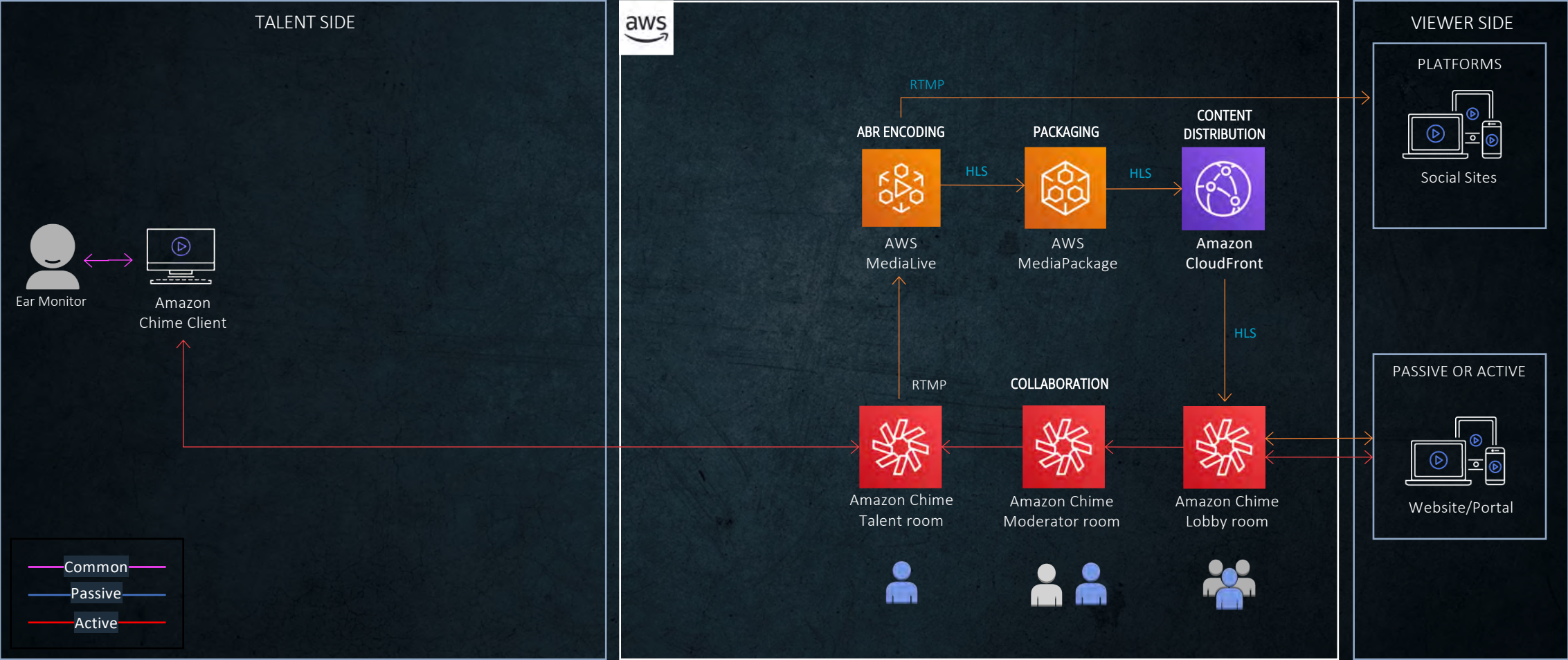
Solution: Collaborative Live Event Solution

- Create video virtual townhalls with broadcast reach
- Allows for real-time conversations between talent and participants while streaming to large audiences live
- End-to-End solution including web-based virtual meeting rooms
- Combines benefits of Chime SDK with AWS Media Services

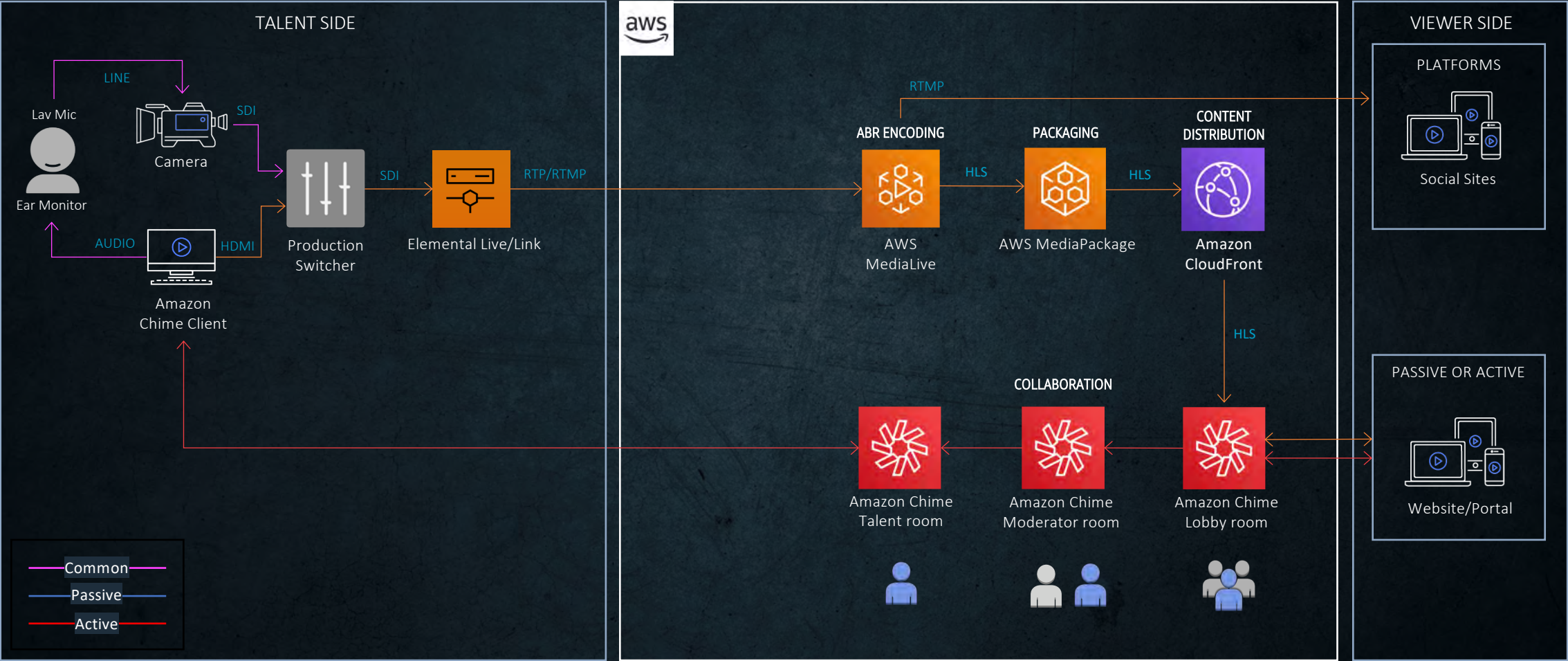
For more information:

<https://aws.amazon.com/blogs/media/collaborative-live-events-blend-real-time-engagement-with-broadcast-video-reach/>

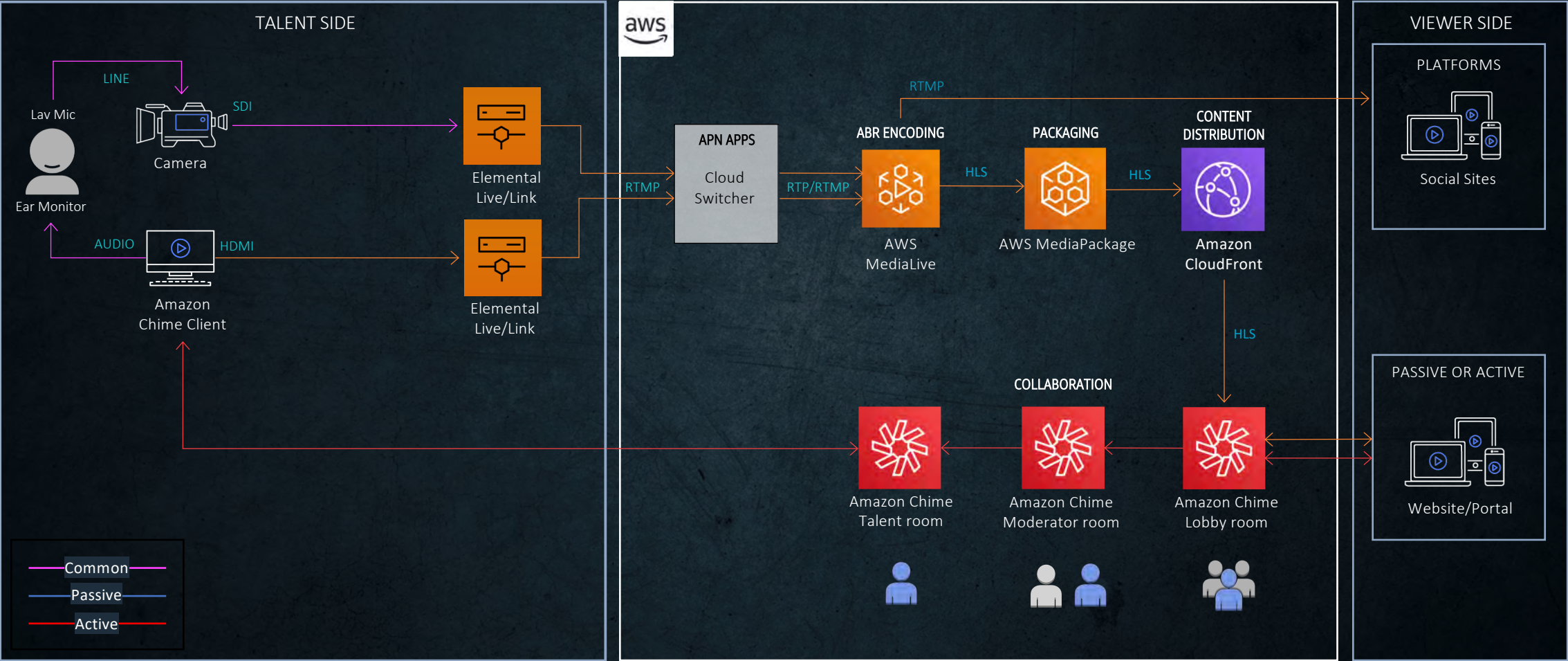
COLLABORATIVE LIVE EVENT (OPTION 1)



COLLABORATIVE LIVE EVENT (OPTION 2) – Added Switcher & Encoder



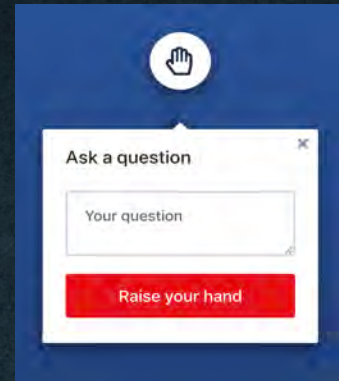
COLLABORATIVE LIVE EVENT (OPTION 3) – Added Cloud Switcher & Encoder



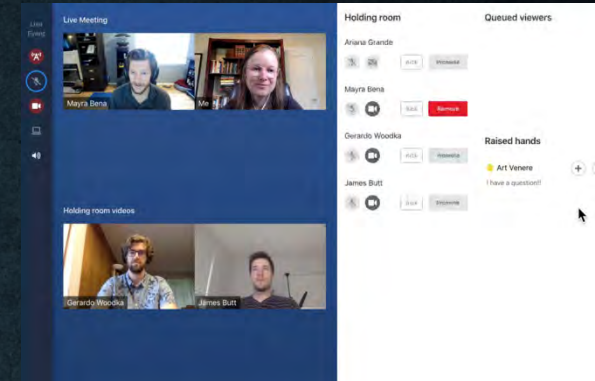
Solution: Collaborative Live Event Solution (cont)



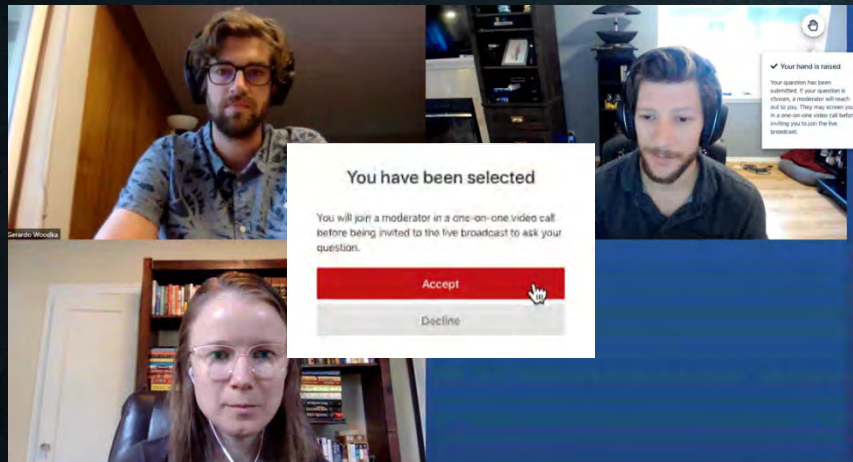
1 Watch live broadcast feed



2 Ask to join



3 Speak with moderator



4 Accept the invitation



5 Join live broadcast

A background image showing several pairs of hands, some dark-skinned and some light-skinned, gently holding small green seedlings with soil. The image is dimly lit, with a dark blue and black color palette. The hands are positioned in a way that suggests a collective effort in planting or nurturing the seedlings.

04 Partner Solutions: Rivet Logic

Overview

Rivet Logic is an award-winning consulting, design and systems integration firm that helps leading enterprises build riveting digital experiences, and the solutions to continually manage and optimize those experiences for customers, employees, and all stakeholders. With deep technology expertise in modern enterprise software, Rivet Logic crafts content-rich solutions that power personalized experiences across all digital channels.

At Rivet Logic, all our professionals have extensive experience developing, deploying and supporting enterprise solutions. In everything we do, we focus on adding value to our clients' businesses and organizational goals. We take pride in our extensive technical expertise, and we understand that it is only of value when we deliver bottom-line results to our clients.

Founded in 2005, we have served hundreds of clients that span a wide range of industries. Headquartered in Reston, VA, we have offices throughout the USA and a near-shore software development center in Costa Rica.

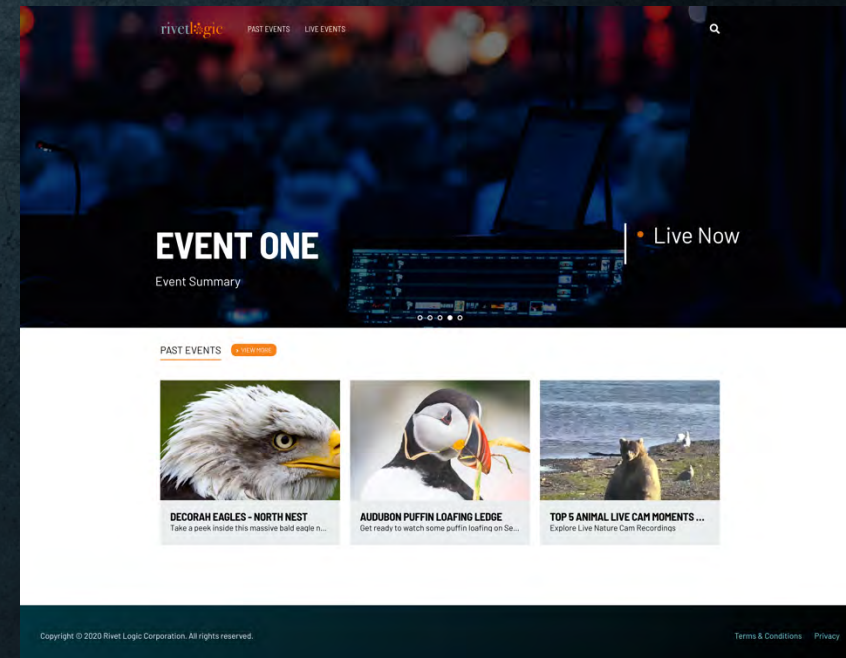
Live Streaming Video Fundraising Portal for NPOs



A tailored solution, such as Live Streaming Video Fundraising Portal for NPOs on AWS – which leverages Crafter CMS and AWS Media Services – offers a robust solution that is fully customizable to each organization's unique requirements. Technology is moving quickly, and your audience expects the highest quality, professional video content without interruptions.

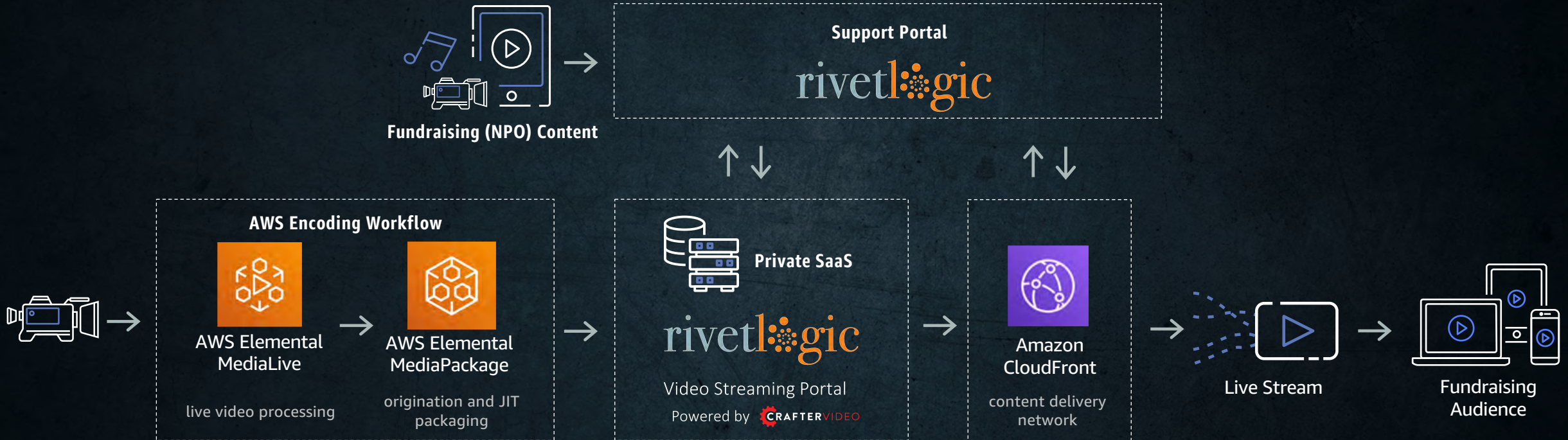
Our cloud solution is configurable for crafting a unique experience for all types of events and use cases, while enabling a developer friendly platform and open APIs to build extensions and customizations.

This solution provides a customized solution that allows you to reap all the benefits of professionally executed video at a fraction of cost with open source, and cloud-based platforms.



Workflow

rivetlogic



Resources

Overview + Ask for a demo:

<https://rivetlogic.com/services/solution-areas/video-communications>

Case Study:

<http://lp.rivetlogic.com/rs/194-BMR-552/images/crafter-video-center-aws-datasheet.pdf>

Contact:

<https://rivetlogic.com/about/contact-us>
sales@rivetlogic.com



SOLUTION
Video Center on AWS

CRAFTER **aws elemental**

Does your organization deliver video at scale? Do you stream live or recorded updates from company leadership? Are you part of an enterprise that provides e-learning assets? If so, the shifting video landscape will change the way you create and deliver video.

A Shifting Video Landscape
Video is deeply embedded in today's connected experience. As video has become more and more prevalent, viewers' expectations around its accessibility, quality and relevance have increased. Audiences now expect to watch the content they want, when they want, on the device they choose, with the best possible picture quality. In addition, viewers increasingly anticipate that the content they engage with will be appropriately tailored to their particular needs, interests or tastes. However, traditional approaches to video processing and delivery can't keep pace with the changing nature of video consumption and the rising expectations that follow from it. Conventional video technologies fall short because they:

- Are capital intensive
- Require complex resource planning
- Require continuous upgrades
- Require significant operational expense
- Are slow to address new and emerging standards

Benefits of Moving Video Operations to the Cloud
Organizations who choose to migrate their streaming video infrastructure to a cloud-based architecture can tap into a number of opportunities to improve the performance, efficiency and costs of their video workflows.

- Ease of use
- Broadcast-grade capabilities
- Pay-as-you-go utility
- Automated, limitless scalability
- Flexible workflow options
- Built-in reliability
- Operational agility
- New paths to monetization
- Focus on what matters

Case Study: Executive Office for United States Attorneys (USAO)

NEED	SOLUTION
<ul style="list-style-type: none">• Training video content management systems• Targeted video format for Bring Your Own Device (BYOD) delivery• Highly secure, mobile, fast, effective, and streaming and downloading• Branded, consumer-oriented web interface• Government-approved private cloud hosting	<ul style="list-style-type: none">• Deployed Video Center on AWS in private AWS Fargate Cloud• Leveraged Amazon S3, Elastic Transcoder, S3 and CloudFront• Integrated with USAO Single Sign-On (SSO)

A background image showing several pairs of hands, some of which are holding small green seedlings with soil. The image is dimly lit and has a dark overlay. The text is white and positioned on the left side of the image.

04 Partner Solutions: Nomad CMS

Overview

NOMAD

Nomad is an asset management platform that helps you organize your existing media content, manage your new live video content, and help users discover the content in new and relevant ways.

Traditional human “metadata tagging” techniques are time-consuming and costly, so Nomad uses the AWS cloud and Artificial Intelligence (AI) to instantly uncover important relationships and details within your media. This metadata can even be combined with your existing business data to create more powerful and relevant searching capabilities.

Your content managers can quickly create content channels for your users, and users themselves can easily find the information they are looking for with our powerful search engine.

Solution

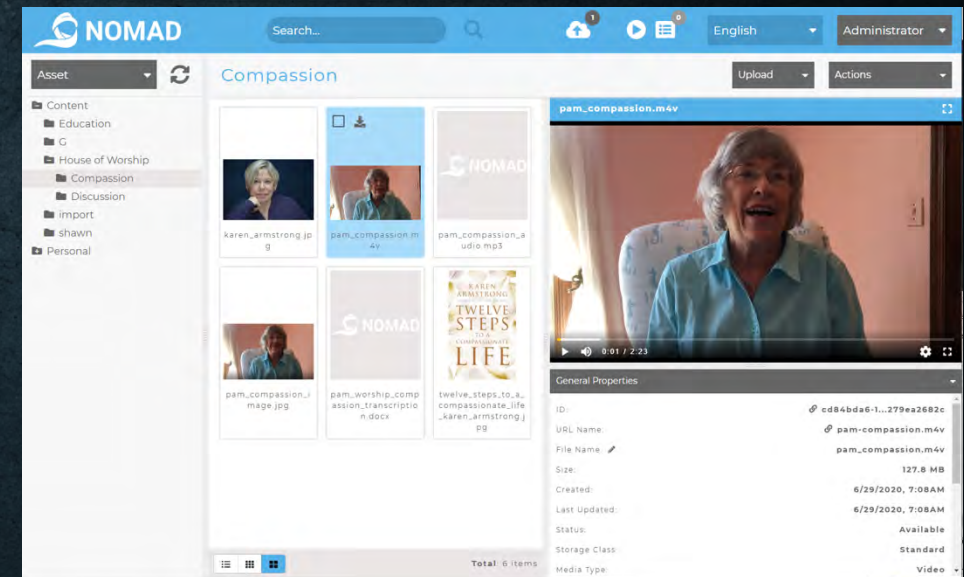
NOMAD

Nomad enables nonprofit organizations to easily upload, manage and share existing media content or new live video content. Automatically transcribe and translate your media, and generate subtitles with closed captions into 40+ languages.

Nomad identifies objects, people and places and then tags them for future use.

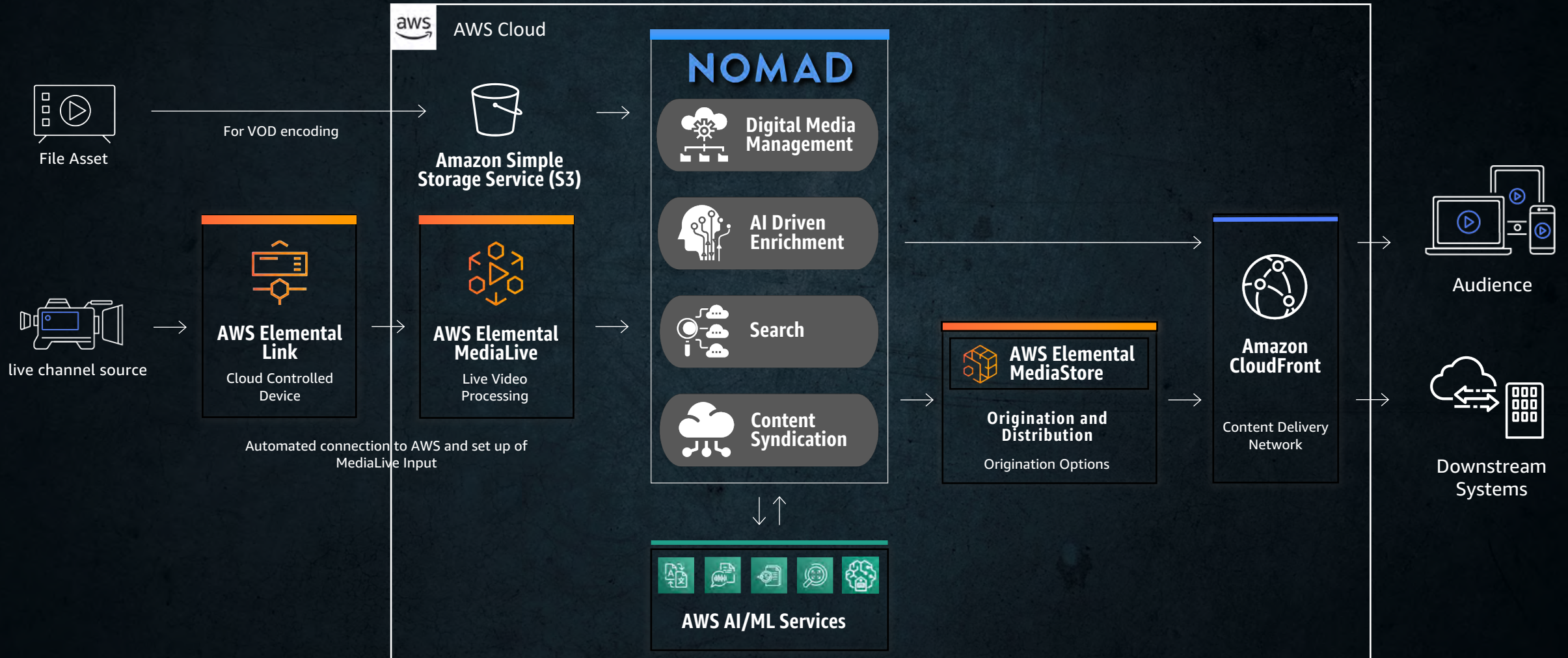
As your content grows, searching has never been easier. Nomad makes all files, pictures, and videos readily available giving both NPOs and their members a powerful media experience.

Your content is now secure, available to your audience, and saved for long-term storage and retrieval.



Workflow

NOMAD



Resources

NOMAD

Overview

<https://www.nomad-cms.com/>

Solution: Nonprofit Organizations

<https://nomad-cms.com/solutions>

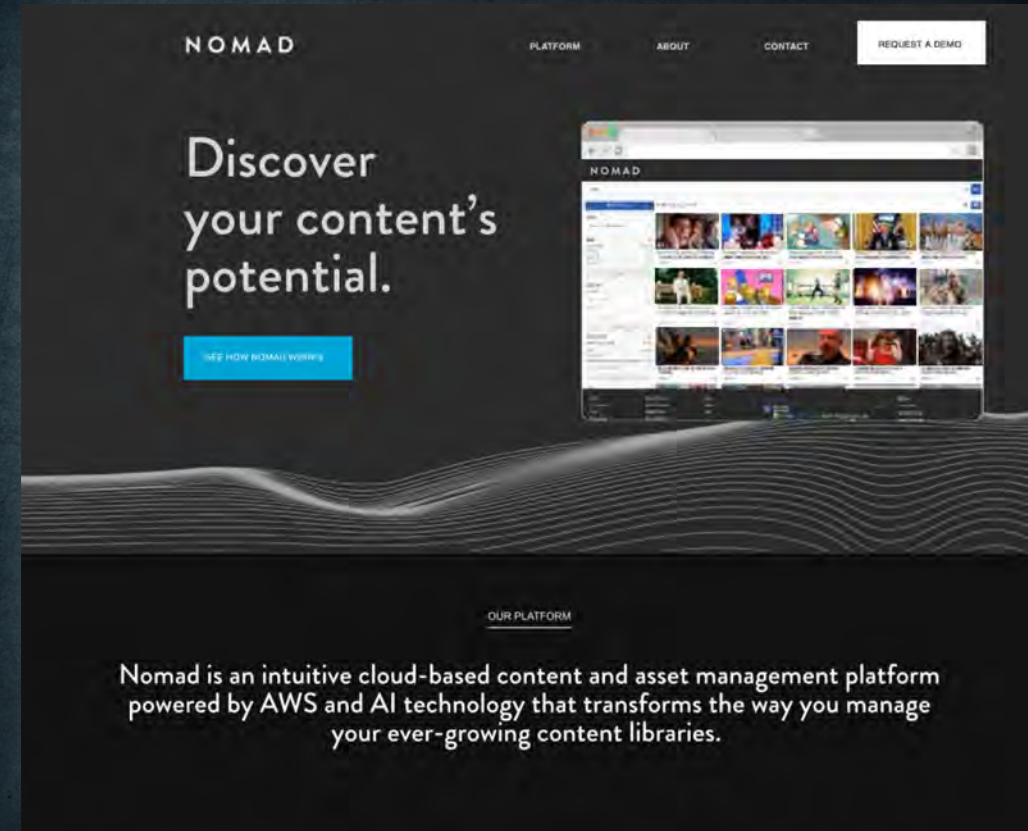
Case Study: Nonprofit Organizations

<https://nomad-cms.com/case-studies>

Contact:

<https://www.nomad-cms.com>

sales@nomad-cms.com



A background image showing several pairs of hands, some dark-skinned and some light-skinned, gently holding small green seedlings with soil. The image is dimly lit, with the hands and plants being the primary light sources.

04 Partner Solutions: Kaltura

Overview



Kaltura was founded in 2006 and today supports customers around the world. Our solutions are most highly rated in analyst reports prepared by Gartner, Forrester and others.

Our mission is to power any video experience, for any organization.

The leading video management platform, powering both live and on demand distribution of video across all viewing devices.

Kaltura provides live and on-demand video streaming solutions to thousands of organizations around the world, engaging hundreds of millions of viewers at home, at work, at school and at church.

Solution



Two primary areas of challenge among Nonprofits become less challenging-with video!

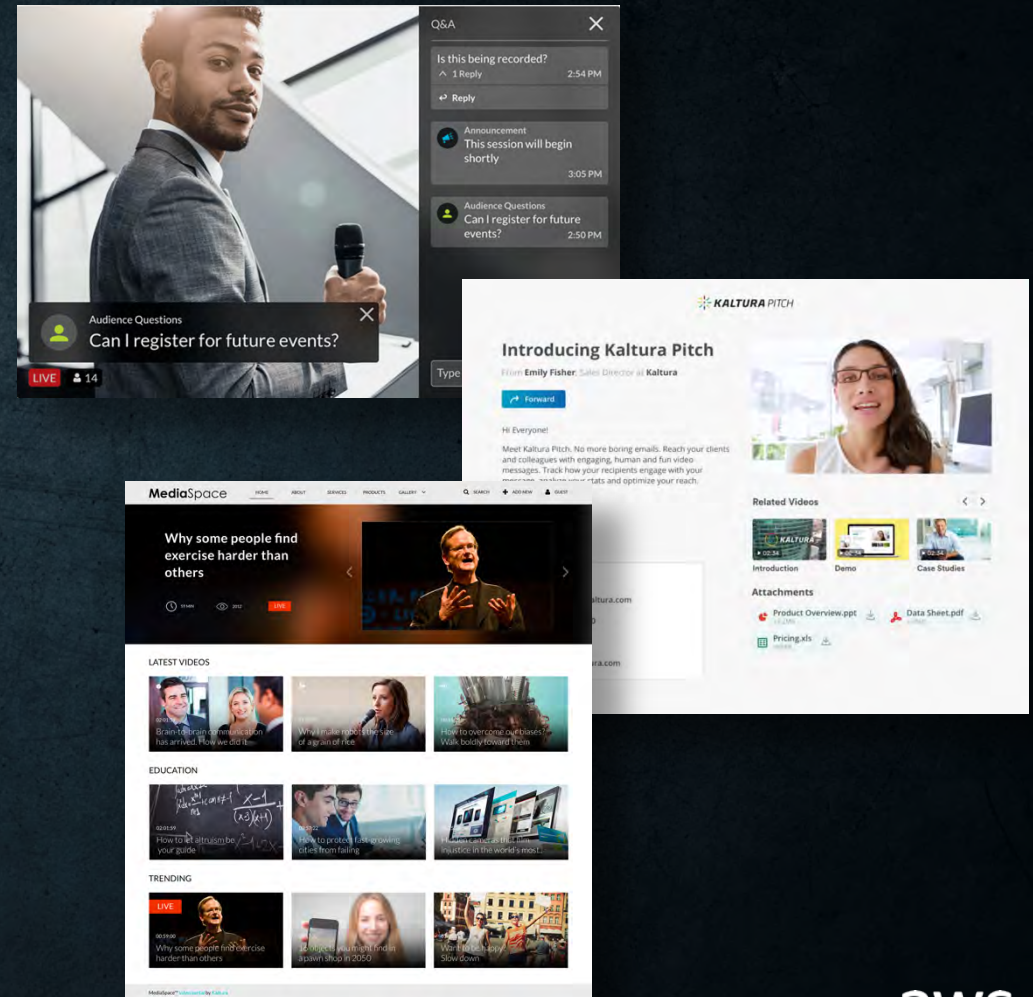
Fund Raising :

- Kaltura Pitch: Video email messaging
- Kaltura MediaSpace: Your own private YouTube

Recruitment :

- Share recruitment videos on your own portal
- Conduct Remote Interviews with Kaltura Meeting Experience
- Two-way video email messaging

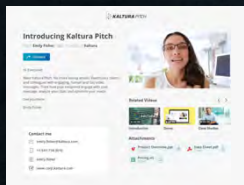
Kaltura provides everything you need to reach a global audience in real-time while providing them opportunities for remote meetings, community building, collaboration and even monetary contributions.



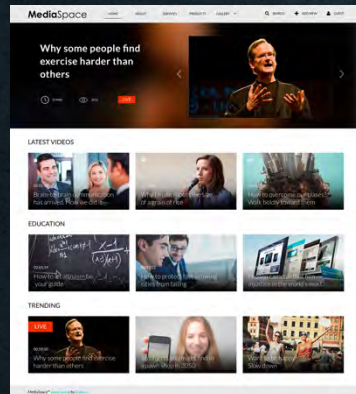
Workflow



Webcam Recordings,
Presentations, Meeting
Recordings, Video
Messages



Source content



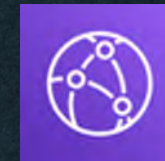
Branded Video
Portal



Kaltura Platform



Global distribution for the
HLS, DASH, MSS, and
CMAF versions of the live
feed



Amazon CloudFront

content delivery
network



Multiple OTT devices

Desktop, tablet, mobile
phone, smart TV

Resources



Overview + Ask for a demo:

<https://corp.kaltura.com/best-video-kaltura-aws/>

Case Study: Sesame Workshop

https://connect.mediaspace.kaltura.com/media/Sesame+Street+v44.0/1_urfx99ew/16038881

Case Study: University of the People

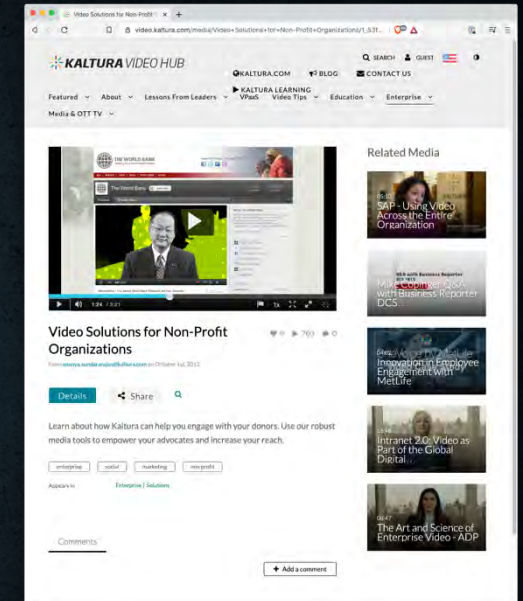
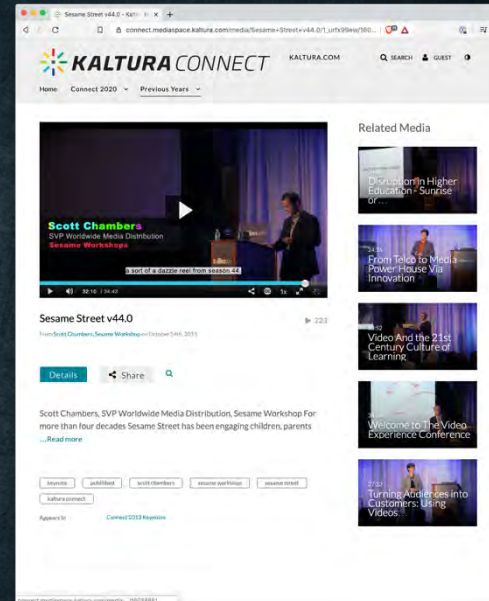
<https://corp.kaltura.com/case-studies/university-people-transforming-education-video/>

Solution video: Kaltura for Nonprofit Organizations:

https://video.kaltura.com/media/Video+Solutions+for+Non-Profit+Organizations/1_53fv3jsz/8955521

Contact us:

noa.aron@kaltura.com



05 Conclusion

AWS enables faster deployment and innovation



Faster

- Shorten time-to-market to test new approaches
- Instant global availability with no commitment
- Scale as your media and compute needs grow, not as a physical data warehouse allows



Smarter

- Fully integrated AI and ML to unlock the value of your content
- Focus resources on your business, not on hardware provisioning and maintenance



More Efficiently

- On-demand, pay-as-you-go compute, storage, and video services scaling to demand
- Handle unpredictable and bursty media needs
- Automated workflows reduce manual processes and cut costs

Additional Resources

- Industry page
<https://aws.amazon.com/media/resources/nonprofit>
- Blog
<https://aws.amazon.com/blogs/media/tag/nonprofit/>

Case Studies:

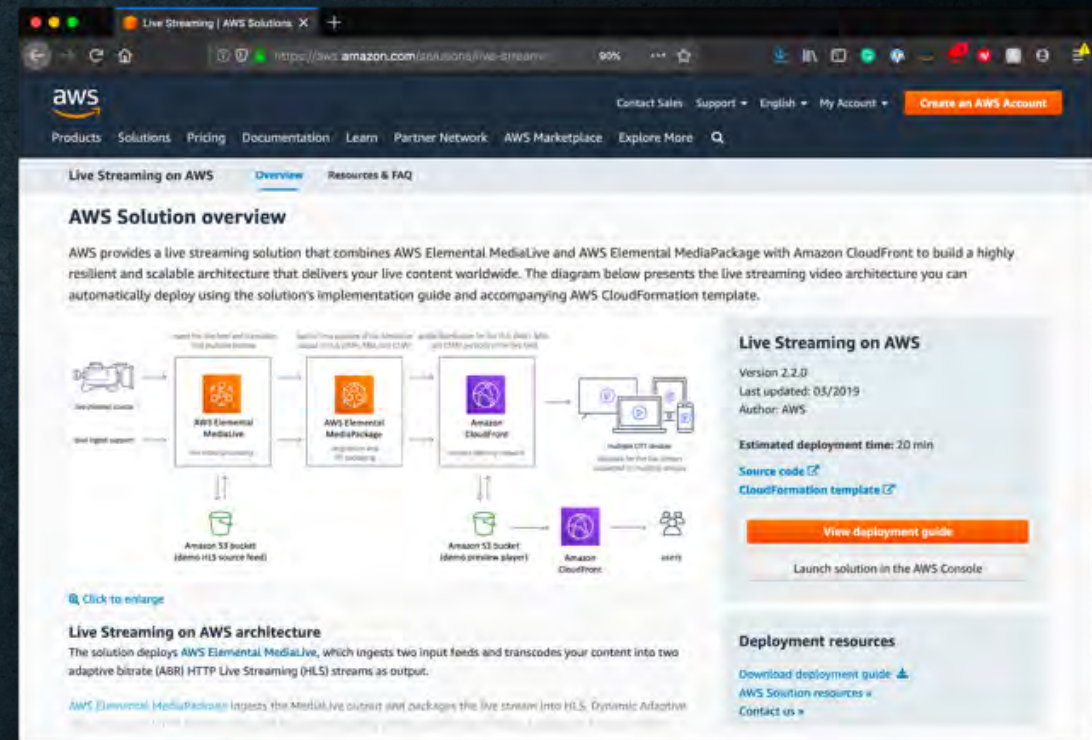
- Explore.org
- BigMate
- C-SPAN



Additional Resources (cont)

- Solution: Live Streaming CFT
<https://aws.amazon.com/solutions/live-streaming-on-aws/>
- Solution: On-Demand CFT
<https://aws.amazon.com/solutions/video-on-demand-on-aws>
- Solution: Live Streaming with Automated Multi-Language Subtitling CFT
<https://aws.amazon.com/solutions/live-streaming-with-automated-multi-language-subtitling>
- Solution: Media Analysis CFT
<https://aws.amazon.com/solutions/media-analysis-solution>

- Media Services Training Path:
<https://aws.amazon.com/training/path-mediaservices/>



Get Started Today

AWS media solutions can be quickly deployed in a very lightweight manner for testing, prototyping, or as a live offering. Contact us with any questions, to have an initial discovery call, or to receive self-service links, trial credits, and more. Simply send an email to wwco-publicsector@amazon.com to get started today.



A close-up, low-key photograph of several hands holding small green seedlings in soil. The hands are of different skin tones, suggesting a diverse group of people. The lighting is soft and focused on the hands and plants, with the background being dark and out of focus. The overall mood is one of care, growth, and community.

Q&A

A background image showing several pairs of hands, some dark-skinned and some light-skinned, gently holding small green seedlings with soil. The image is dimly lit, creating a sense of care and growth.

06 Case Studies

C-SPAN

Scaling video indexing

C-SPAN uses on-premises **AWS Elemental Live** encoders feeding **Amazon Rekognition** to automatically index video news footage for search. With Rekognition, C-SPAN reduced indexing time per video from 1 hour to 20 minutes and uploaded 97,000 images in under 2 hours.

Making history fun

The White House Historical Association uses Amazon Rekognition to power the Presidential Lookalike tool, letting users upload a selfie to see which President or First Lady they most resemble.



*THE WHITE HOUSE
HISTORICAL ASSOCIATION*



Thank You!

