



# SwipeVideo

- VOD to VOD2.0(View on Demand)

A Patented Free-Viewpoint Video Delivery System





# 'The Matrix' by Warner Bros.



This film was the first high profile implementation of free viewpoint video

# Applications of Free Viewpoint Technology

Intel's True View



Canon's Volumetric Capture



4D Replay





# Volumetric Capture in Entertainment

## Sony's volumetric capture





# These are exciting applications and use-cases, but there are some drawbacks

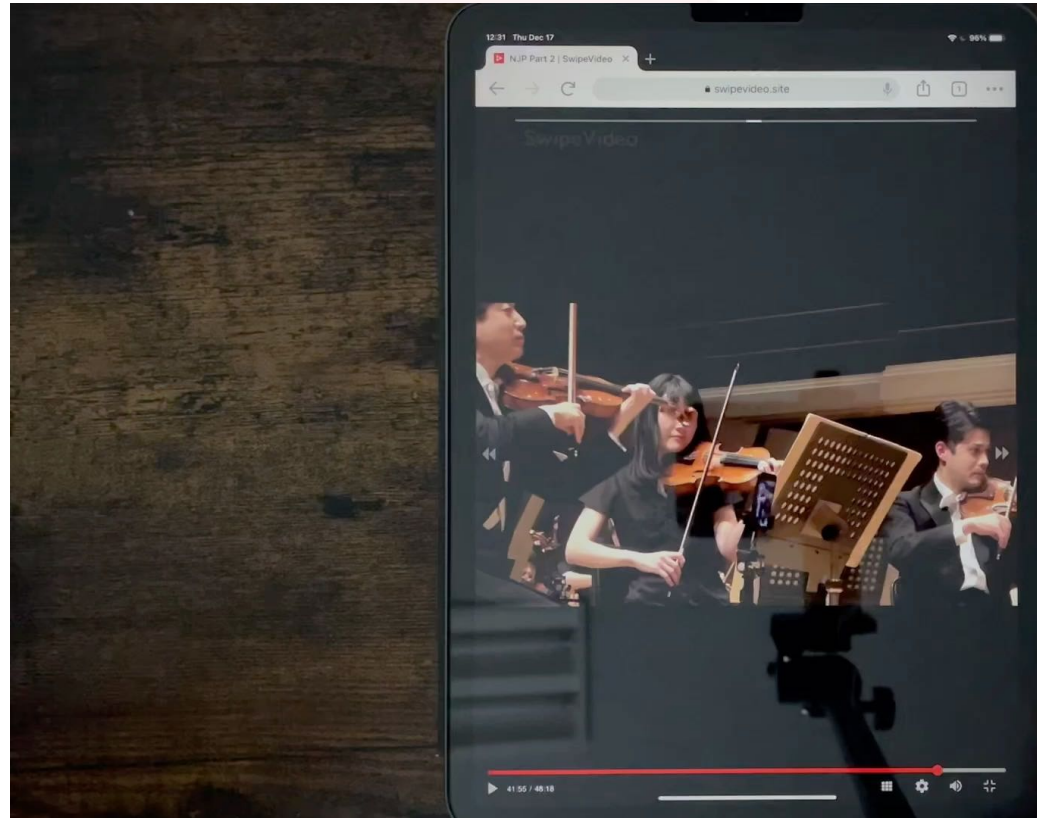
- Cost to create footage requires expensive equipment
- Video is difficult to produce live with little to no delay
- The user has zero control over what they see – the one-way experience is the same as the Matrix 20 years ago



# Multi-Angle Live and Archive Streaming

**SwipeVideo empowers the user to control the way they view online streams :**

- All available TV or stadium cameras can be combined into a lightweight web stream
- 5G will allow users to watch play highlights on their mobile devices in REAL-TIME as they watch the games at the stadium

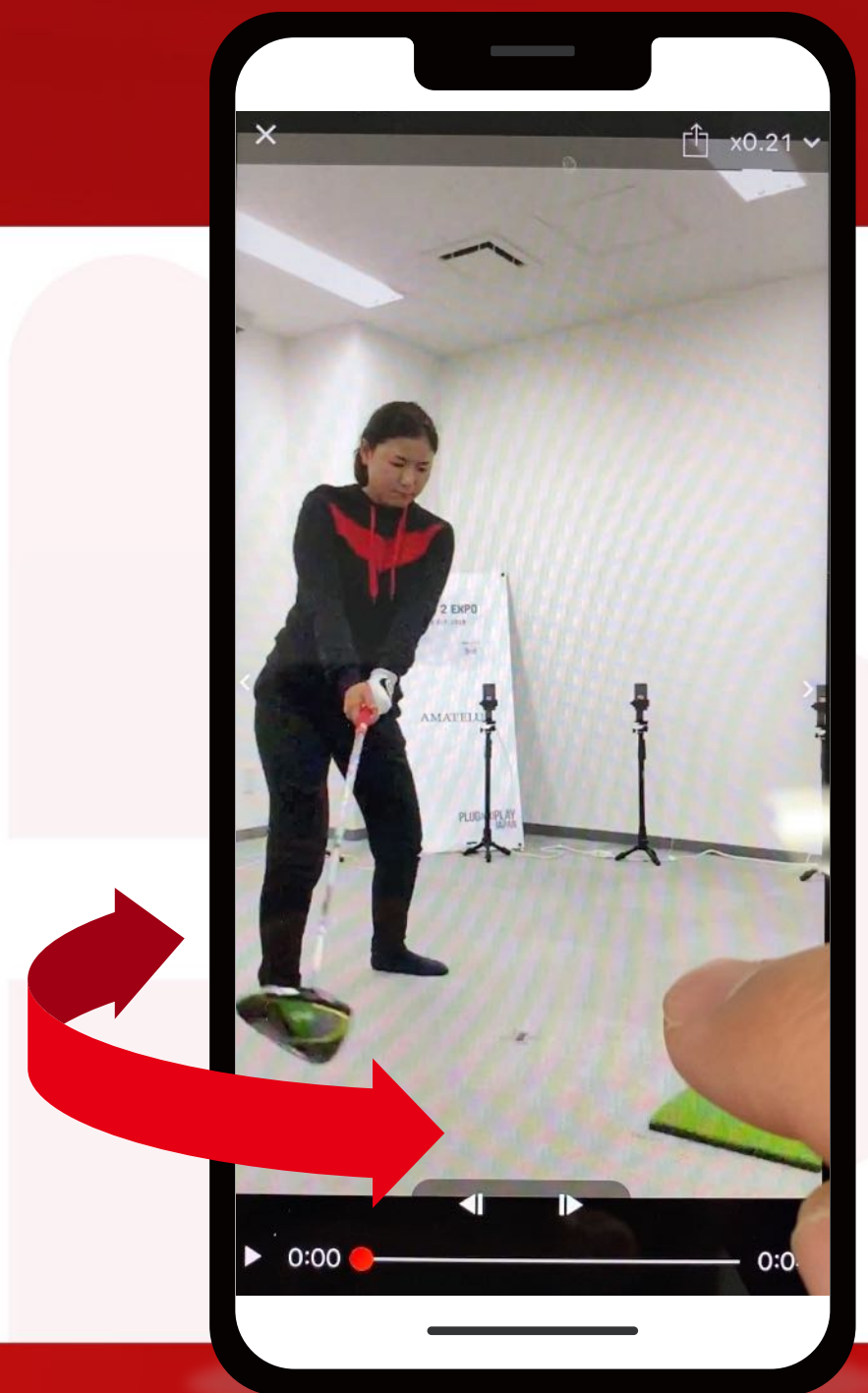




# Free Viewpoint

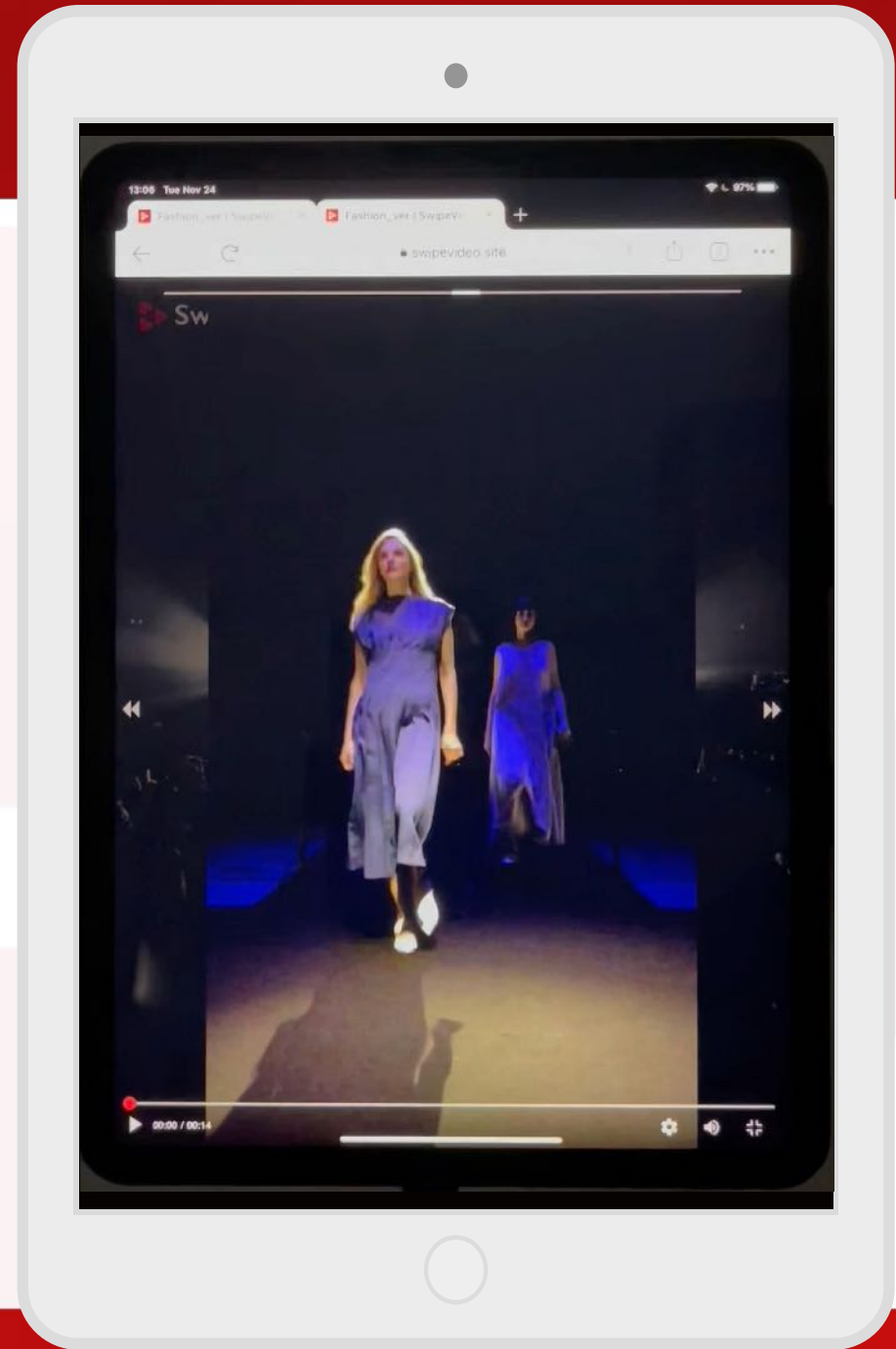
**SwipeVideo creates fully user controllable free viewpoint video :**

- Video works in all play modes, including zoom
- Infinite angles can be added with no latency/buffering
- Works on 4G networks, streamed via web browser to any device
- No need for expensive hardware – legacy systems (eg existing TV hardware) can be used to create streams



# Comparative Advantages

- ✓ Delivery over current 4G networks
- ✓ User controlled bullet time video
- ✓ Unlimited numbers of cameras, angles
- ✓ No special hardware required
- ✓ Live and archive streams available





# Multi-Angle Live and Archive Streaming

Images stored to cloud individually



Fast transition from angle to angle.  
The 'bufferless' transition is the key  
feature of our web delivery patent



As each angle is streamed separately,  
it is lightweight and hence we are able  
to stream multi-angle video on 4G  
networks

# Patents Awarded - Aug 2019

## **US Patent: Patent No10417744**

Video Delivery Equipment, Video Delivery System, Video Delivery Method or Program

## **US Patent: Patent No11113787**

Video Delivery Equipment, Video Delivery System, Video Delivery Method or Program

## **International Patent (PCT Application : Japan): No. 6568670**

Video Delivery Equipment, Video Delivery System, Video Delivery Method or Program

## **International Patent (PCT Application : Japan) : No. 6571859 (5G video delivery patent)**

Video Delivery Equipment, Video Delivery System, Video Delivery Method or Program

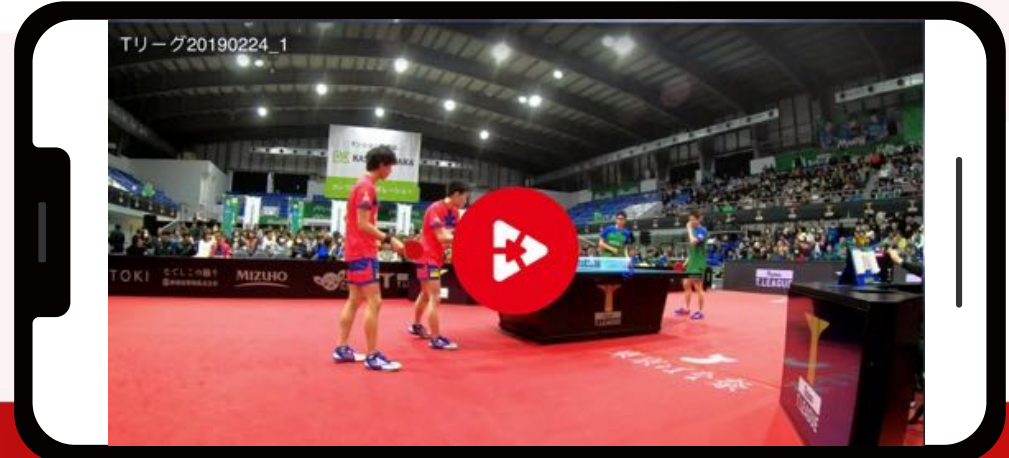
**International Patent Pending for 14 Countries / Regions**





# Sports Streaming

- ✓ Live TV footage using multiple cameras can be turned into SwipeVideo
- ✓ Goal, touchdowns, video review can all be controlled by the viewer rather than the broadcaster
- ✓ As sports shifts away from TV to the internet, viewer UX will also become interactive
- ✓ With 5G, multi-angle replay will enhance the offline sports viewing experience



# SwipeVideo Match Stream

SwipeVideo can be created using any footage :

- Every TV camera angle available live and instant playback
- 'Be' the fourth official – check VAR moments and decide for yourself!
- Enjoy goals and highlights in near real-time.  
Enhance the live in-stadium experience!





# SwipeVideo Retro Replay

SwipeVideo can be created using any footage :

- We can take any .MP4 or .MOV video files to create brand new content
- As long as multiple camera footage exists, we can create swipable highlight reels!





# SwipeVideo by the Fans

Let the fans be a part of history :

- We can stitch together infinite angles
- Let fans submit their videos of their game highlights, and watch everyone's take!
- In the future fans will be able to connect their devices to become part of the live feed!





# Sports & Fitness

- ✓ Content is easily created, and readily streamable for both review and remote learning
- ✓ Online and app-based training is expected to grow steadily
- ✓ Instant system allows for onsite recording and side-by-side comparison
- ✓ Already installed in two major sports training schools in Japan



# SwipeVideo Training

**SwipeVideo can be used on the training ground :**

- Record training for in-house assessment using multiple angles
- Improve technique by creating comprehensive training videos for online/remote sessions
- Injury prevention and rehabilitation by assessing player techniques
- Use SwipeVideo to enhance player performance





# SwipeVideo Soccer School

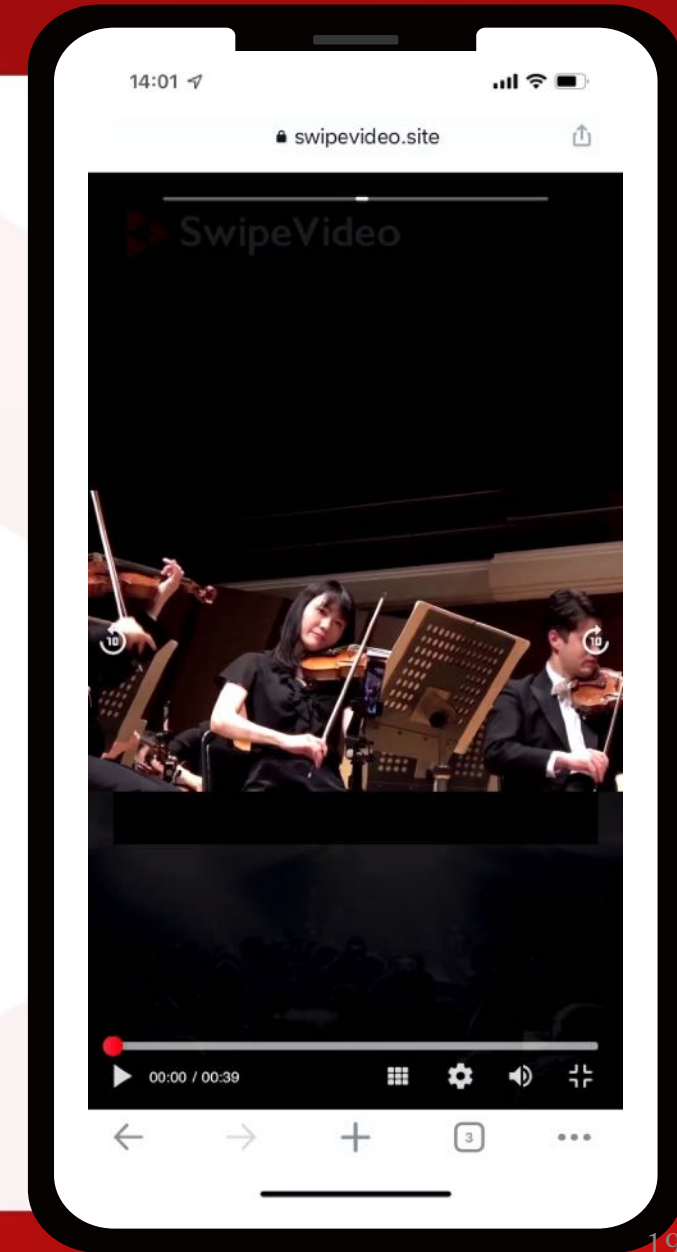
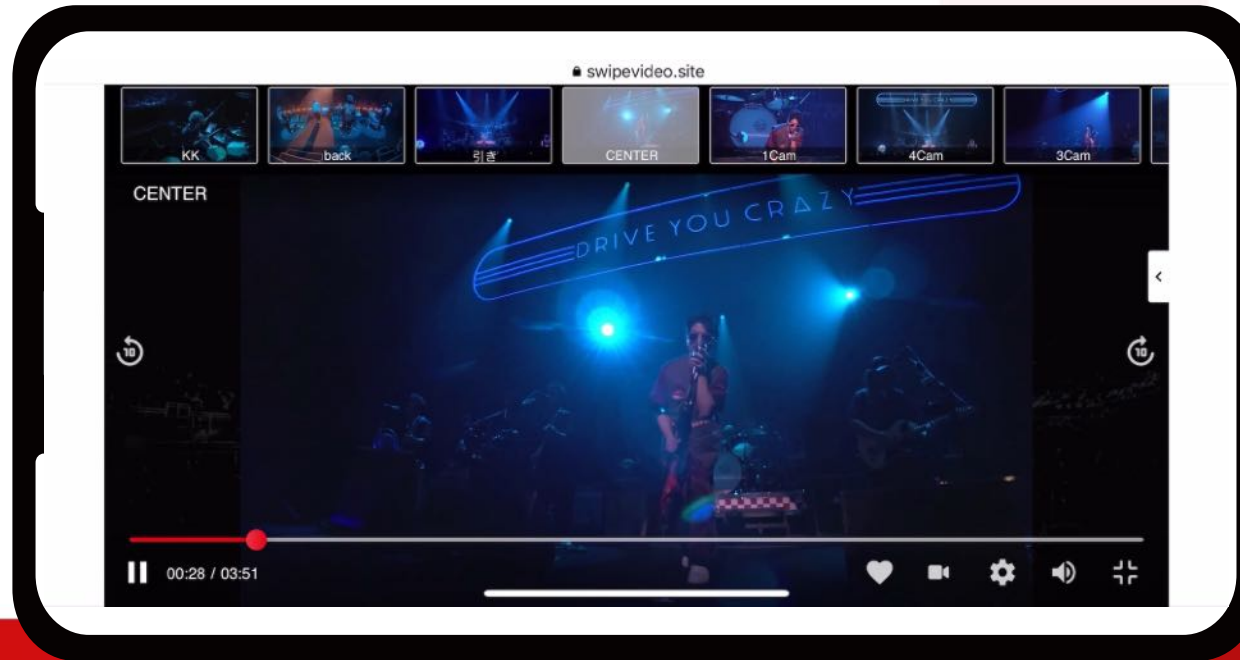
**SwipeVideo can be used for educational content :**

- Learn from the best! Dribble like Neymar, hit a freekick like Messi
- Dribbling, lifting, striking a dead ball can all be recorded and streamed on demand
- Analyze your technique and compare them to the best players in the world
- Instant system can be used to record students, to give precise and timely feedback and stored for review



# Entertainment

- ✓ Give fans an interactive experience!
- ✓ Live streams are now available with up to 30 angles. Streams can also be uploaded to the cloud for easy replay





# 5G Activations using SwipeVideo

- ✓ Multi-location live streaming
- ✓ Perfectly synchronized
- ✓ Mixed hardware streaming





Last Idol



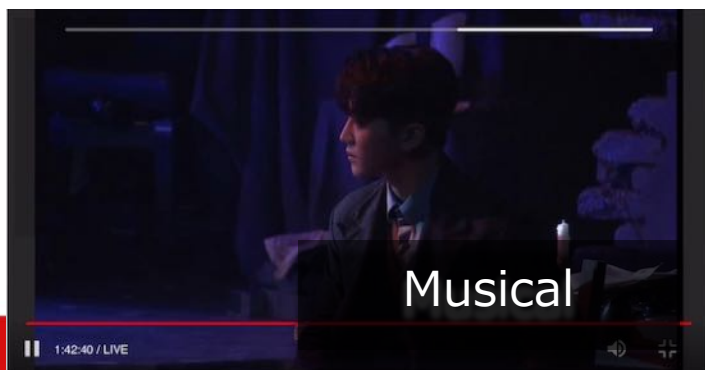
Naoto Inti Raymi



Japanese Dance



Orchestra



Musical

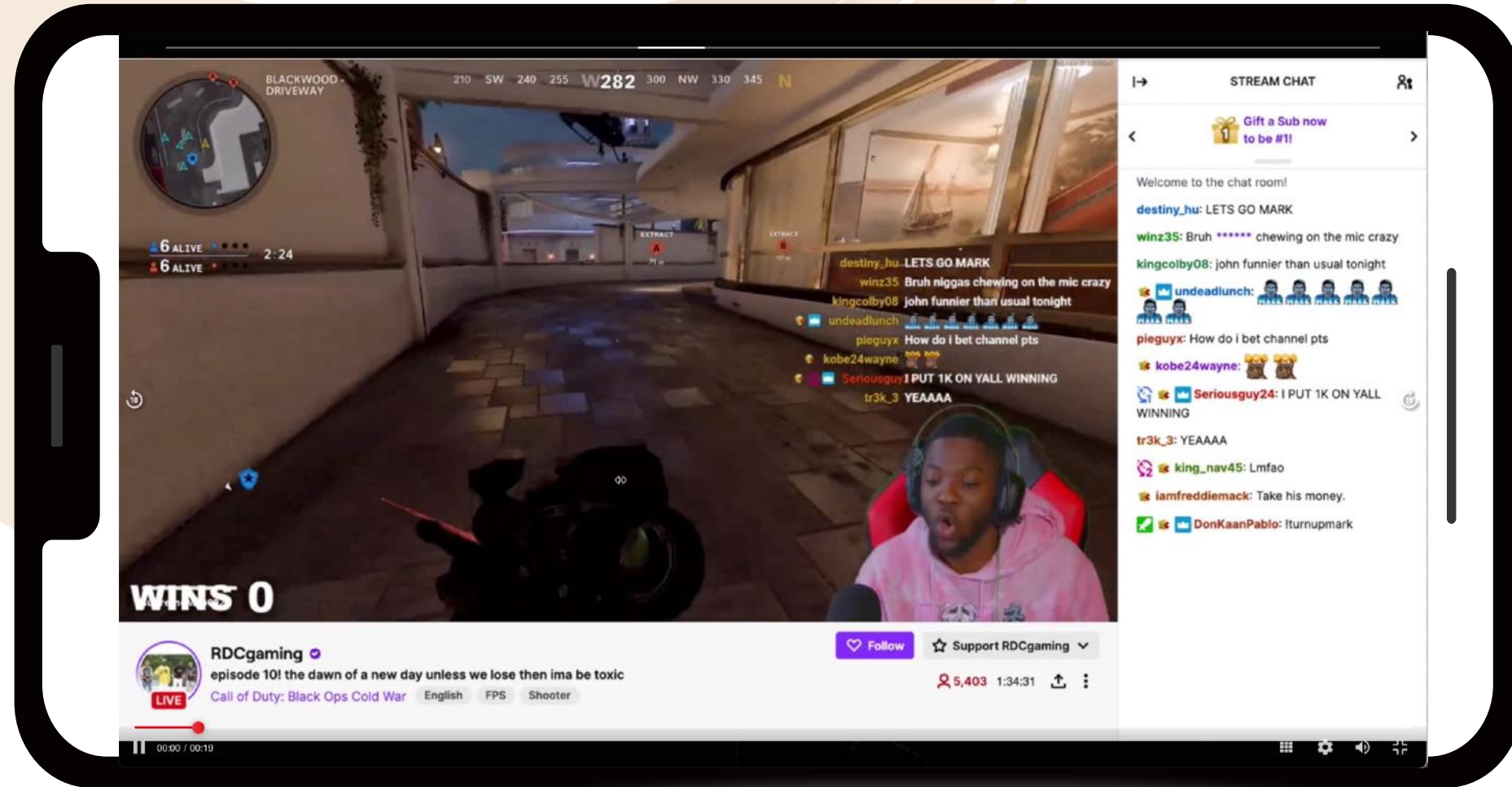


Opera



# The Future of Video Game Streaming?

- ✓ Watch you favorite player!
- ✓ Watch as many streams as you want simultaneously
- ✓ Great for E-Sports or general gaming



# E-Sports with Multi-Audio Input

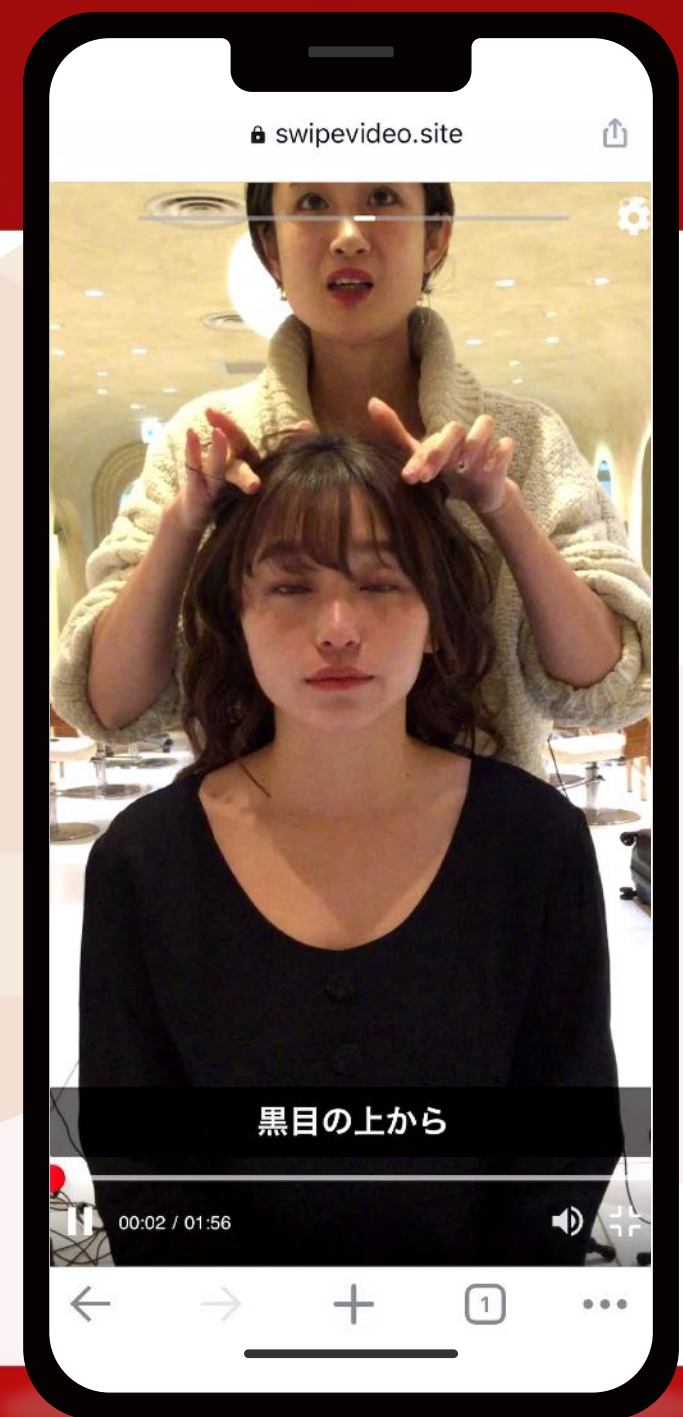
- ✓ Sound switches with angle
- ✓ Great for multi-player battles
- ✓ Angle analytics available





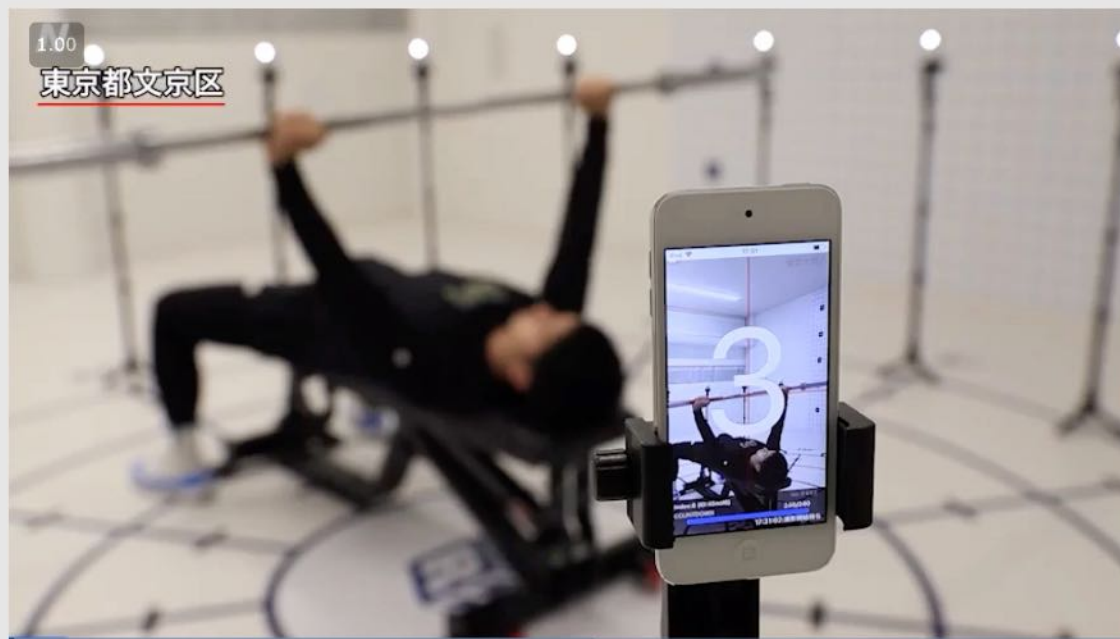
# Technical Education

- ✓ Rich, interactive video content
- ✓ Pick your angles in all play-modes
- ✓ Enhances the learning process
- ✓ 2 biggest nationwide vocational schools as customers



# Nikkei Online – Video Article

日本経済新聞 | 映像



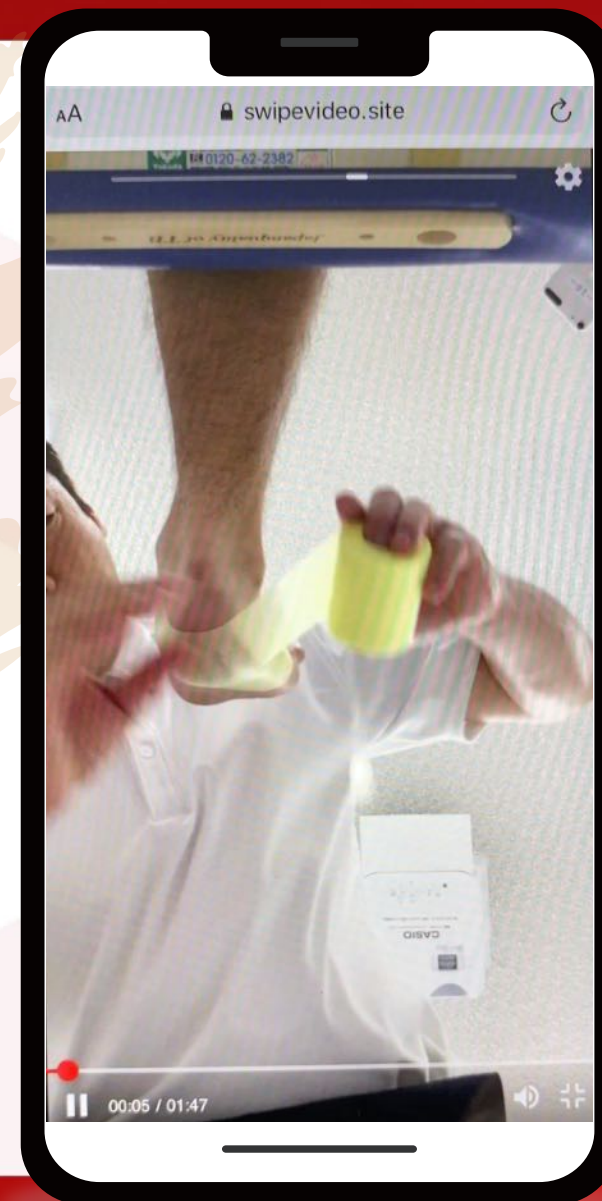
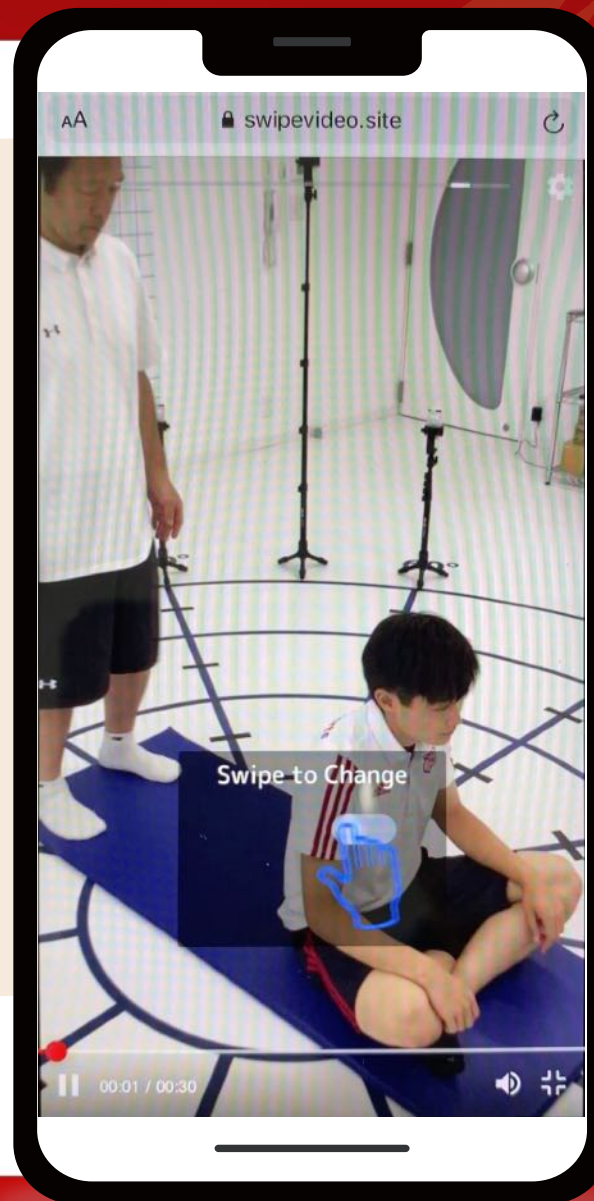
## アングル思いのまま 自由視点映像を教育現場で活用

2020/1/16 2:00



学校法人三幸学園が運営する専門学校に設置されたスタジオ。水平方向360度からの自由視点映像を撮影でき、スポーツトレーナーなどを旨とする学生向けの教材制作の場として活用している。円形に設置した複数のタブレットから同時に被写体を撮影し、画面をスワイプすることによって視点を変えられる自由視点の特長だ。

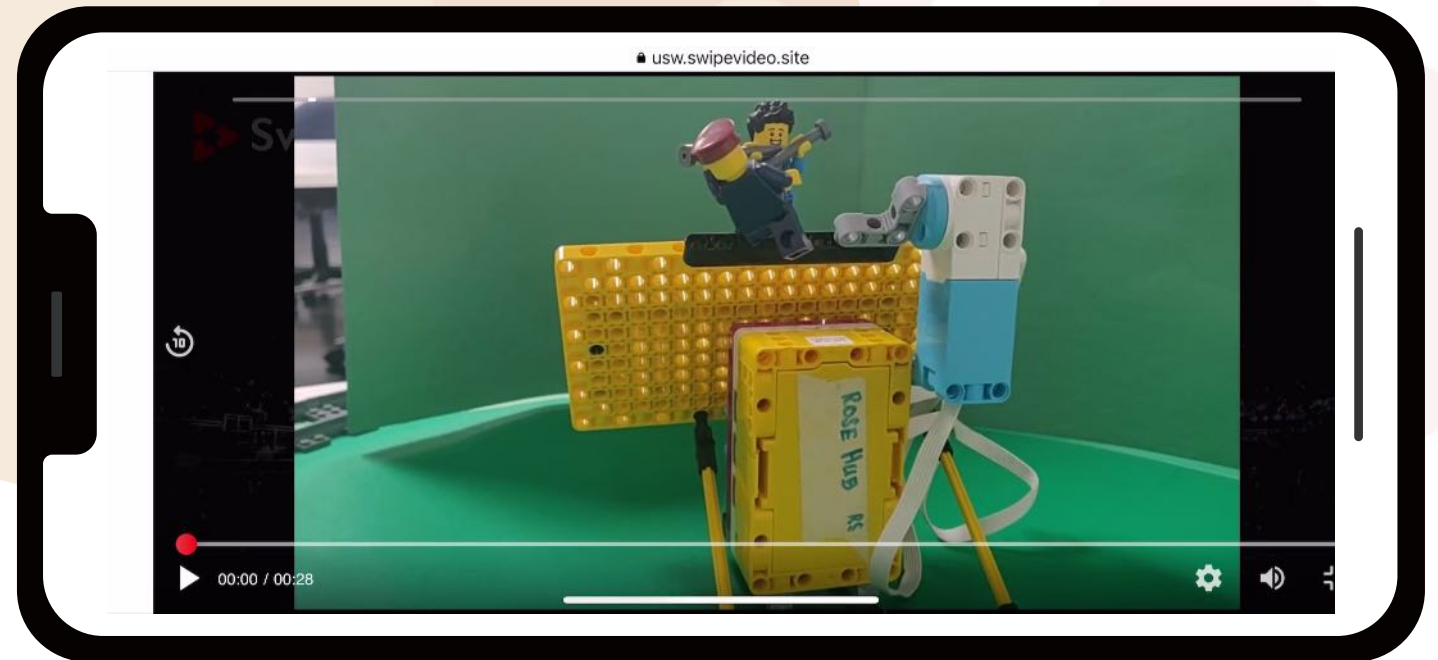
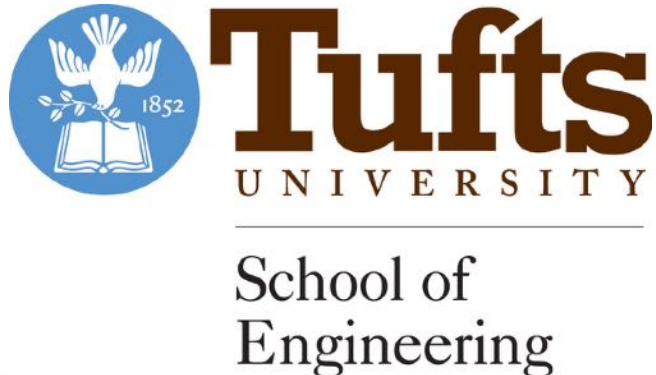
関連： [アングル思いのまま 自由視点映像を教育現場で活用](#)





# Technical Education – Tufts University

- ✓ Faculty of Engineering, Tufts University
- ✓ Student project run by Professor Chris Gilbert
- ✓ A novel solution creating a 128 angle video using a single camera!



# Nationwide Specialist Training School

## Jikei Gakuen



## Shin Tokyo Dental Technician College



No. of Schools : 72 nationwide

No. of Students : 33,994



# Industrial / Artisan Training

- ✓ Training videos, safety manuals, Instruction manuals
- ✓ Fully available online for remote learning
- ✓ Live demonstrations for tradeshow, customer presentations

RICHEMONT

FANUC



**Official Business Partner**

**dentsu**

**March 2020**



**Official Business Partner**



**September 2020**

# Official League Partner



承認 No JVA2021-08-105

July 2021



# Thank You!

✓ We would love to talk to you!

For further details please contact :

Kei Oda, COO, AMATELUS Co., Ltd.

✉ : [kei.oda@amatelus.co.jp](mailto:kei.oda@amatelus.co.jp)

🏠 : <https://swipevideo.jp/en/>

in : <https://www.linkedin.com/in/keioda328/>



 SoftBank



Sony Music Artists Inc.

YOSHIMOTO

MILBON



FANUC



07L

