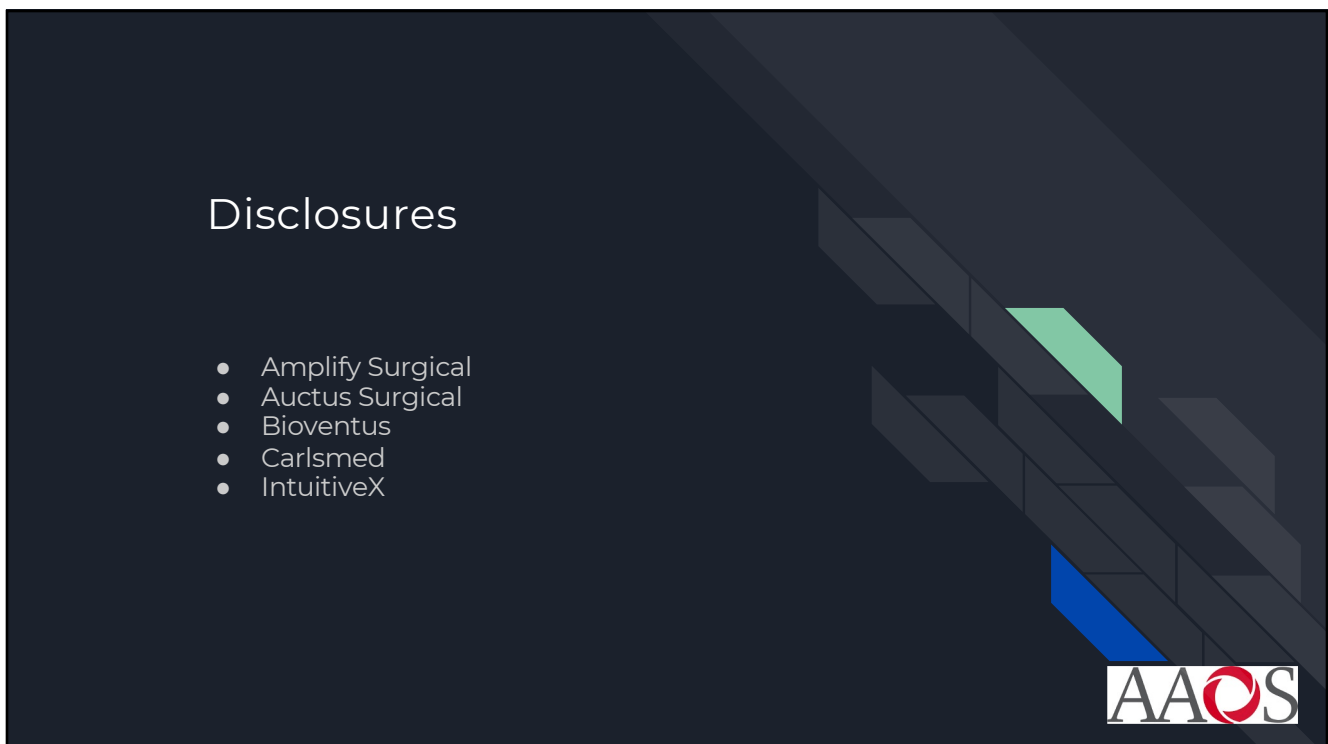


1



2

# Agenda

## SWAT Analysis

- Strengths
- Weaknesses
- Opportunities
- Threats


## Future Applications

- Navigation
- AR/VR/MR
- Robotics
- Telesurgery

## Future Developments

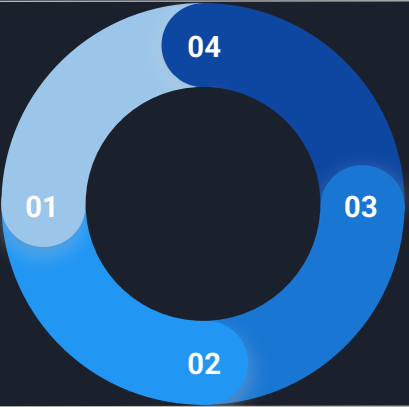
- Expandable Cages
- Endoscopic Visualization
- Instrumentation
- Fusion

## Summary



3

# SWAT Analysis



## Strengths

- Helpful in achieving objectives
- Internal origin

## Weaknesses


- Harmful in achieving objectives
- Internal origin

## Opportunities

- Helpful in achieving objectives
- External origin

## Threats

- Harmful in achieving objectives
- External origin



4

## Strengths

- 01 The least invasive method to perform spine surgery.
- 02 Excellent approach to perform outpatient spine surgery.
- 03 Techniques and efficacy have already been validated by other well-established surgical specialties (sports medicine, general surgery, etc.).



5

## Weaknesses

- 01 Technically very challenging.
- 02 Instrumentation has historically not been robust enough to perform complex spine surgery.
- 03 Financial incentives aren't aligned (i.e., lack of revenue/reimbursement model).



6



## Opportunities

- 01 Training opportunities for residents, fellows, and practicing spine surgeons.
- 02 Development of endoscopic (light, camera, irrigation), instrumentation (decompression, instrumentation, fusion), and augmenting (RF, laser, neuromonitoring) technologies
- 03 Establishment of reasonable revenue/reimbursement models that align with the best interests of our patients



7



## Threats

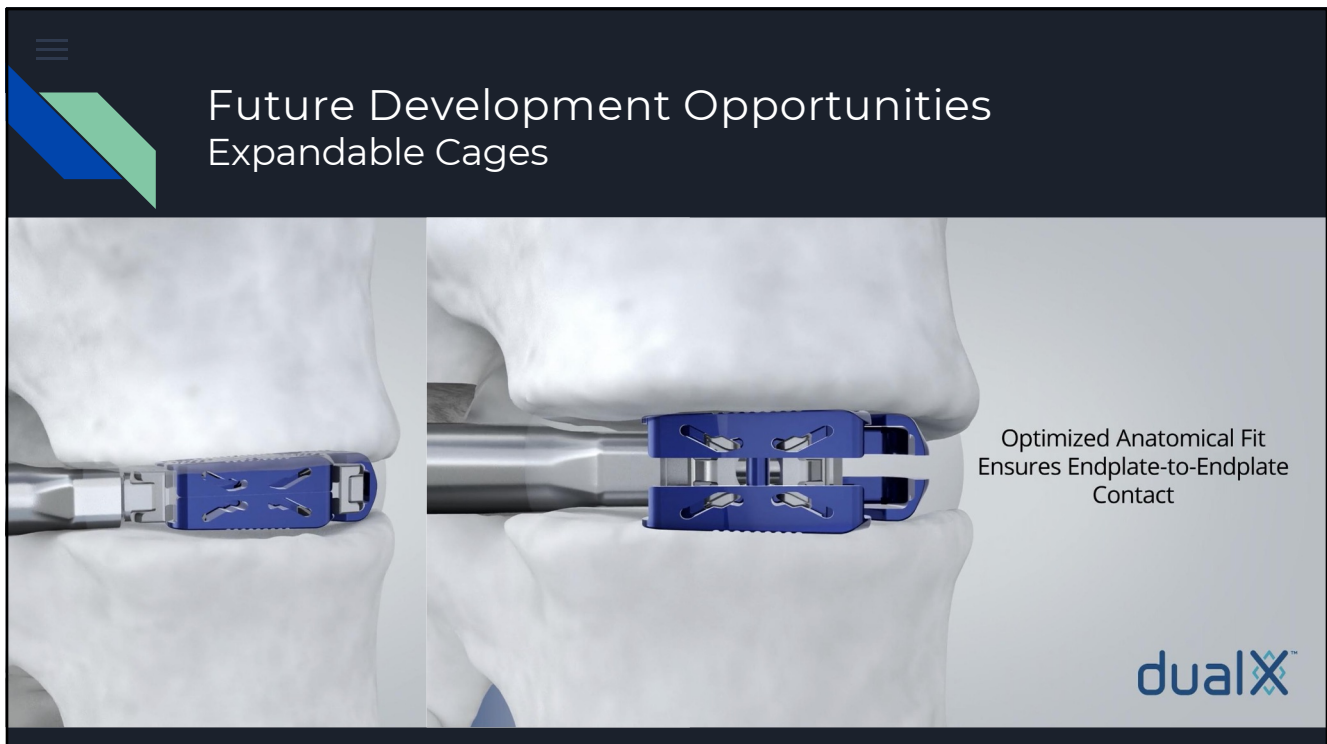
- 01 Lack of training opportunities for residents, fellows, and practicing spine surgeons.
- 02 Lack of interest from industry partners
- 03 Financial incentives aren't aligned



8



9



10

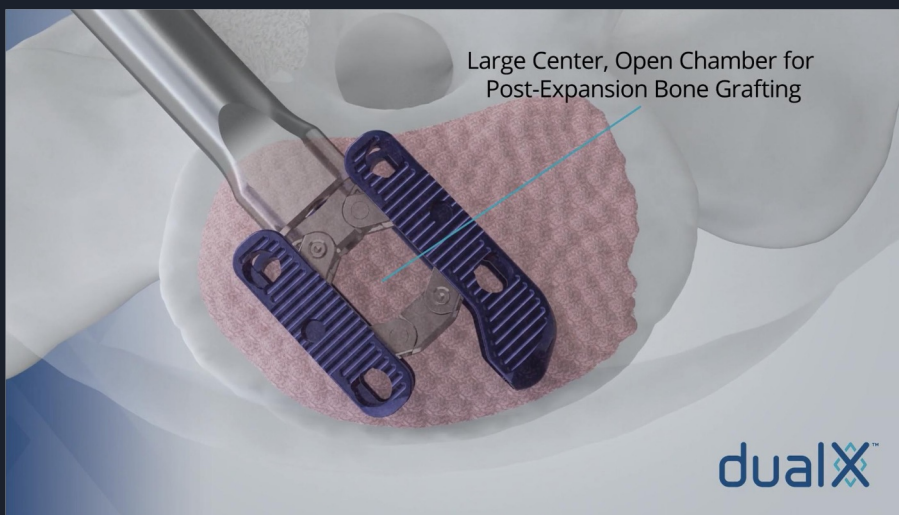
## Future Development Opportunities Expandable Cages



AAOS

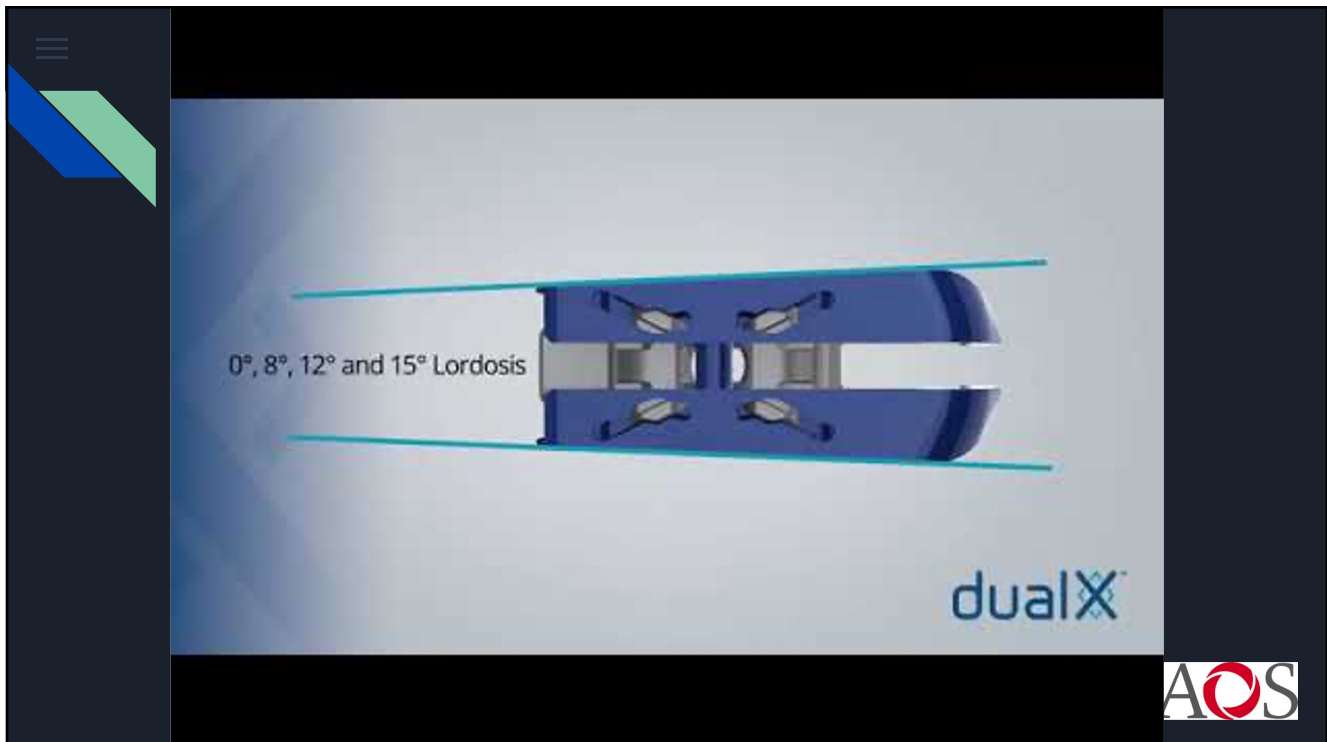
11

## Future Development Opportunities Instrumentation + Fusion



AAOS

12



13



14



OUR PRODUCTS

# SCOPEYE®

## 3D EYES UP DISPLAY



- Clear images with wider **FOV(40°)** for precise work
- **1080p** (per eye) / 16:9
- Compatible with any medical imaging devices
- Compatible with **3D medical imaging** devices
- Support both **wired and wireless**
- Acquired **FDA(USA)**, PMDA(Japan), KFDA(Korea) certification as Class 1 medical equipment. CE-MDR being proceeded.
- Applied innovative headband for the convenience of medical staff (Designed by world class designer Damian Kim)

MediThinQ owns the following domains:  
[scopeye.io](http://scopeye.io) / [scopeye.jp](http://scopeye.jp) / [scopeye.co.kr](http://scopeye.co.kr) / [scopeye.kr](http://scopeye.kr) / [scopeye.net](http://scopeye.net)



16 / 83

15

OUR PRODUCTS

## SCOPEYE APPLICATIONS:

### ALL FIELDS OF MONITORED DIAGNOSIS & SURGERY





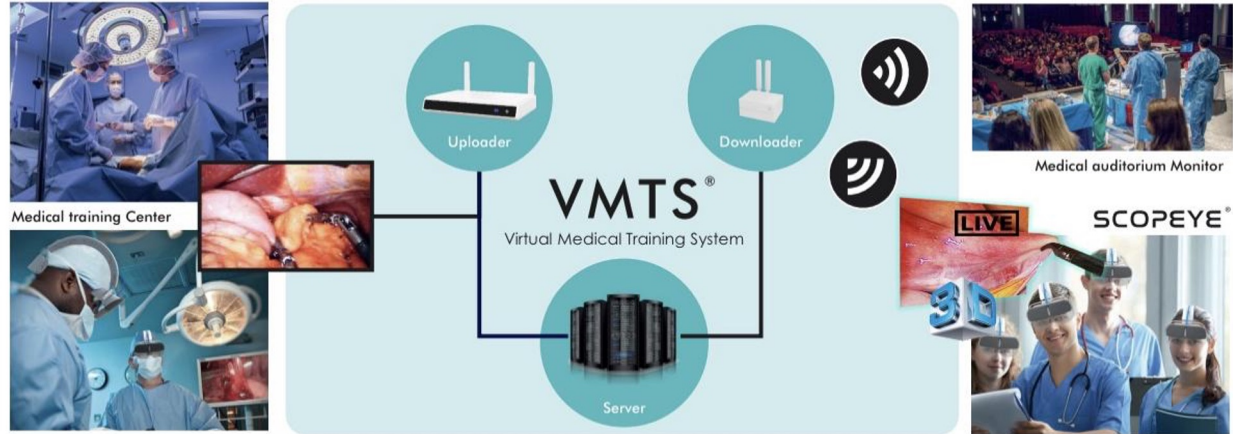
17 / 83

16



## VMTS (Virtual Medical Training System)

VMTS is a Virtual Medical Training System that enables real-time training in a physically separated space by capturing and processing medical images and camera images at the Uploader side, seamlessly sending them to the VMTS server, and the Downloader connects to the VMTS server and downloads the images.



33 / 90

17

MoneyS 뉴스 인제하기

### METaverse... Who is the next hitter after Maxst?

[버트코인이 대세라고? N포세대 채테크 생존법⑤] 테마주 먹이민 신고가 행진... "자기 주자는 하드웨어"

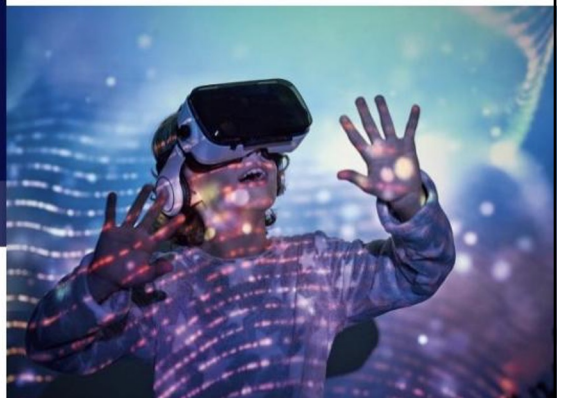
머니S 조승에 기자 | 입력 : 2021.08.07 06:27

## XR METAVERSE

### Expandability

Who is the next hitter  
after Maxst?

편집자주 | '메타버스'가 국내 증시를 뒤흔드는 새로운 테마로 자리 잡고 있다. 매일 새로운 뉴스가 쏟아지고 관련 기술 보유 기업들은 신고가 행진을 기록 중이다. 신종 코로나 바이러스 감염증 사태 이후 비대면 활동이 급증하면서 MZ세대를 중심으로 메타버스가 새로운 플랫폼으로 주목받고 있기 때문이다. 올해 3월 로블록스의 미국 증시 상장을 계기로 메타버스에 대한 전 세계적인 관심은 가히 폭발적이다. 국내 주식시장에서도 지난달 AR(가상현실) 플랫폼 개발업체 맥스트가 IPO(기업공개) 시장에서 흥행에 성공하면서 메타버스 테마주 투자 열풍이 일고 있다. 국내외 증시를 뜨겁게 달군 메타버스와 관련 테마주에 대해 살펴보고 향후 전망을 들여다봤다.



18

## Partnership with Hospitals\_USA



- Dr. Young Lee / Neurosurgery
- Dr. Won Lee / Anesthesia (OB/GYN)
- Dr. Andrea Park / Plastic Surgery



- Dr. Shanglei Liu / Colon and Rectal Surgery



- Dr. Pier Cristoforo Giulianotti / Robotic and Minimally Invasive Surgery
- Dr. Liaohai Leo Chen / Surgical Innovation and Training Laboratory
- Dr. Valentina Valle / Surgical Innovation and Training Laboratory



- Dr. Yuman Fong / Surgical Oncologist

MediThinQ

MediThinQ Confidential &amp; Proprietary 2021

65 / 83

19

## Partnership with Hospitals\_Korea



Robotic Surgery / Dr.SH Ahn



Robotic Surgery / Dr.BS Min

MediThinQ

MediThinQ Confidential &amp; Proprietary 2021

66 / 83

20



## Future Applications of Spinal Endoscopy Navigation



AAOS

21

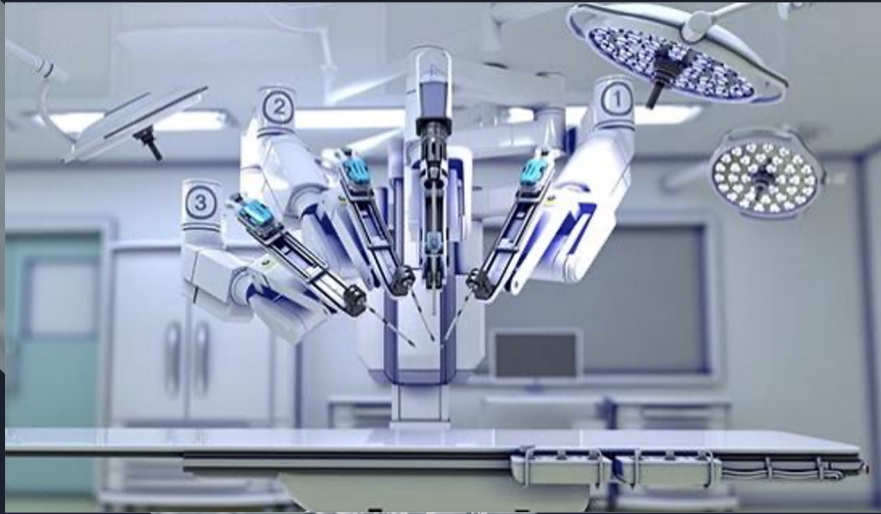
## Future Applications of Spinal Endoscopy AR/VR



AAOS

22

## Future Applications of Spinal Endoscopy Robotics



AAOS

23

## Future Applications of Spinal Endoscopy Telesurgery

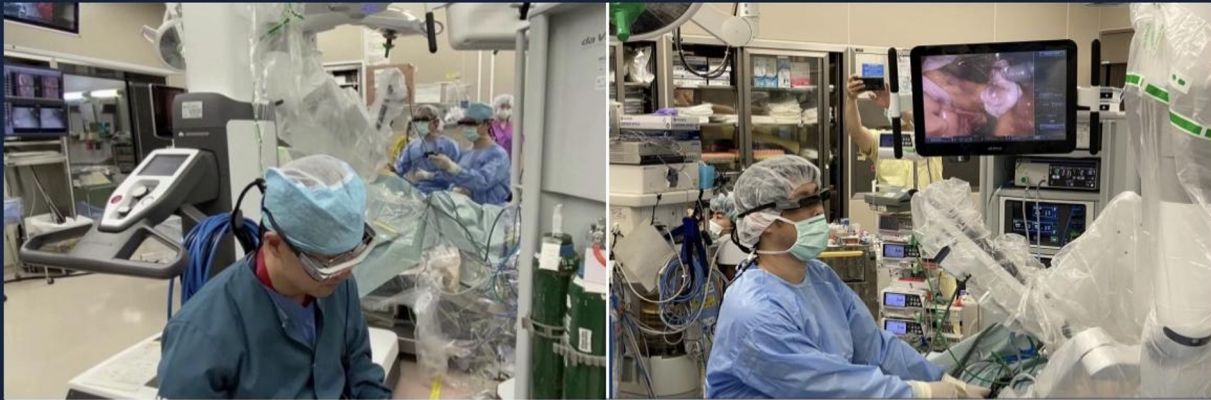


AAOS

24

## ROBOTIC SURGERY

Robotic surgery 3D image transmission to medical staff and trainees



Da Vinci surgery at Tokyo Medical and Dental University Hospital, Japan

MediThinQ

MediThinQ Confidential & Proprietary 2021

75 / 83

25

## SUMMARY

- SWAT analysis of spinal endoscopy reveals distinct advantages over conventional methods.
- Future development opportunities should help facilitate wider adoption of spinal endoscopy as a standard of care.
- Future applications of new technology may help accelerate and elevate spinal endoscopy to the next level of surgical care.

Customized for AAOS ICL

AAOS



26





# Thank You

