

Empowering Medicine, Saving Lives

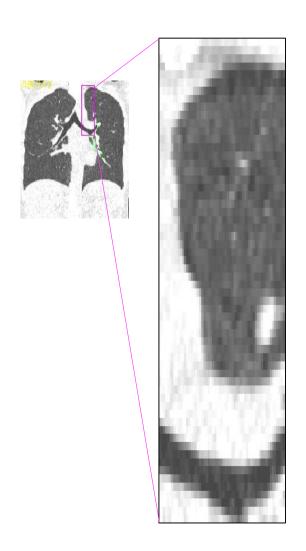
Medical IP, Co., Ltd.

Founder & CEO

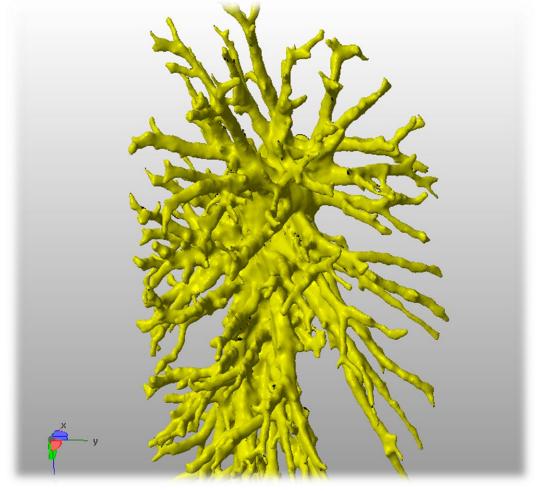
Dr. Park, Sang Joon



MEDICAL IMAGING such as CT, MRI, etc.









REALITY

Voluntary Process in US



\$3T

US Emergency Room Surgery Cost / Year

200,000 surgery errors in 2016

Centers for Disease Control and Prevention 2016

No.1

No.1 in causes of death (13.5%)
of sentinel event
for 11 years on a row:

Wrong-site surgery

The Joint Commission (TJC) 1995-2015

500%

Improvement

Pre-surgical simulation, planning: Reduces error rate 5 folds

Australian Safety & Efficacy Register of New Interventional Procedures – Surgical (ASERNIP-S) 2007



MEDICALIP PRODUCTS

ANATDEL

realistic ANATomical moDEL

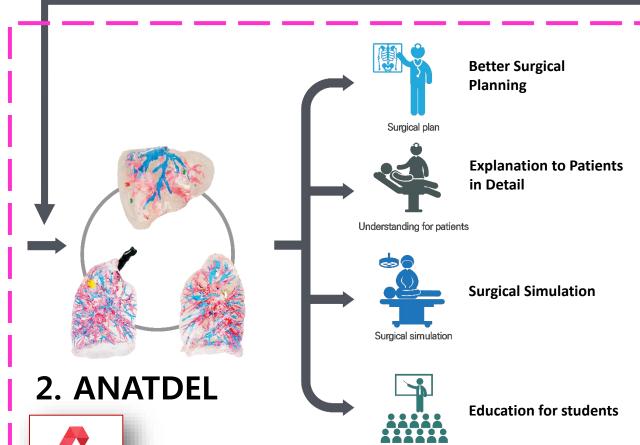
PATENTS

- Segmentation, Korea 3 issued; US 1 pending
- Resolution, Korea 1 pending; US 1 pending
- Speed, Korea 1 pending; US 1 pending
- Printing, Korea 1 issued; US 1 pending
- VR/AR, Korea 1 pending; US 1 pending



1. MEDIP

- DICOM Utilization
- Resolution Up
- Organ Segmentation with Shaped-& Learning-based Techs
- Converting 3D Printing File Format
- VR/AR for Preoperative planning & Surgical Simulation



Best Organ Simulation in the World

Education for students

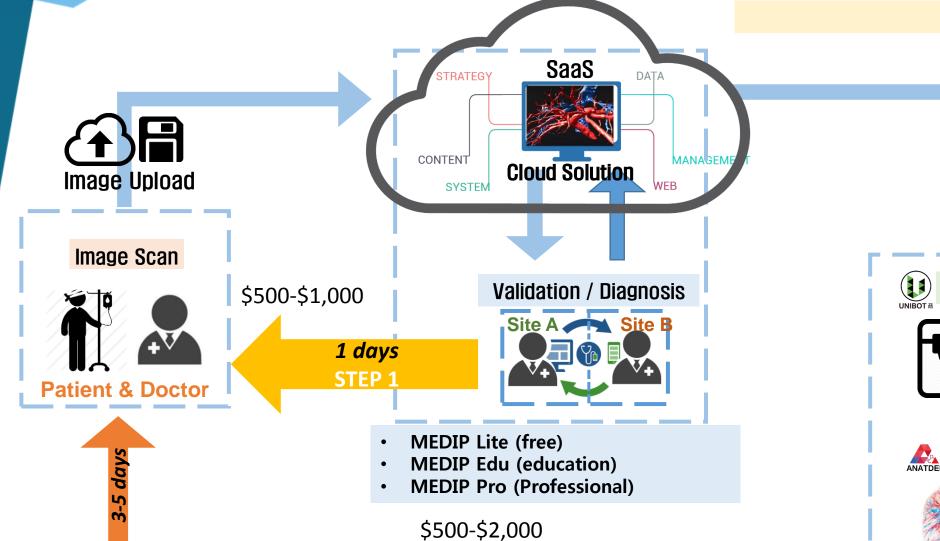


3. UNIBOT ZERO

Multi-color Flexible 3D Printer



BUSINESS MODEL



STEP 2











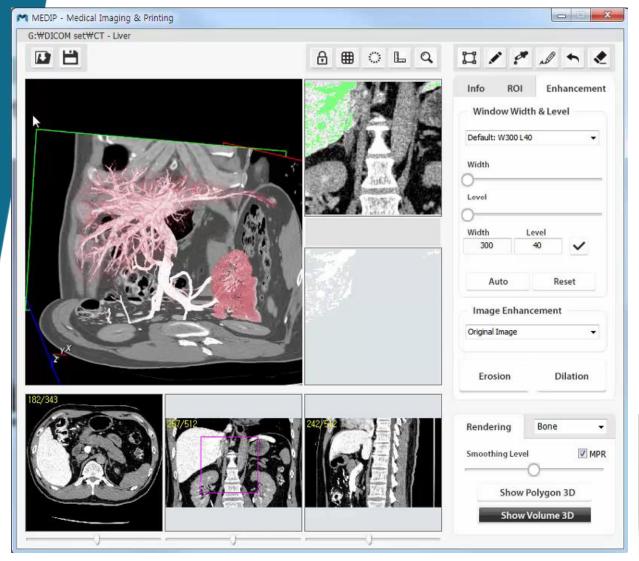


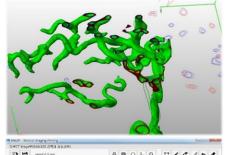


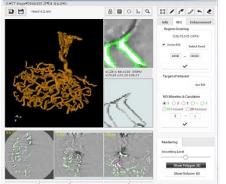


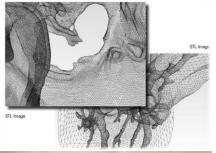
MEDIP













Medical Imaging Viewer

Segmentation

Enhancement

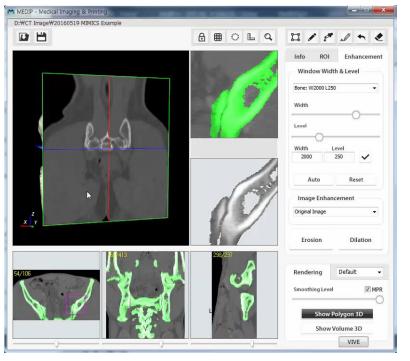
Measurement

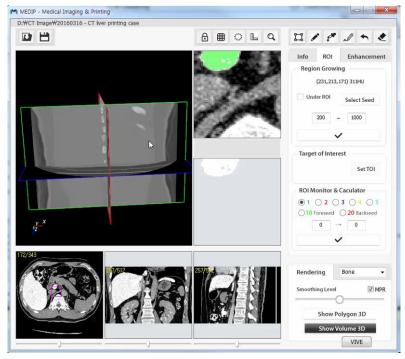
Information Viewer

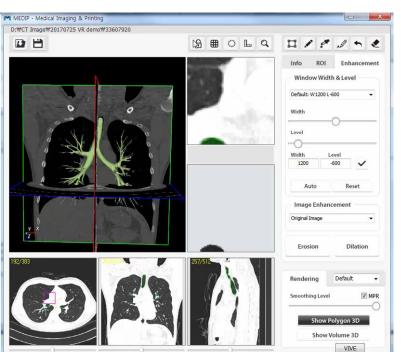
3D Visualization

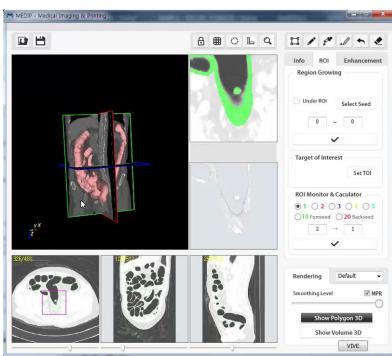
ROI to Mesh Export

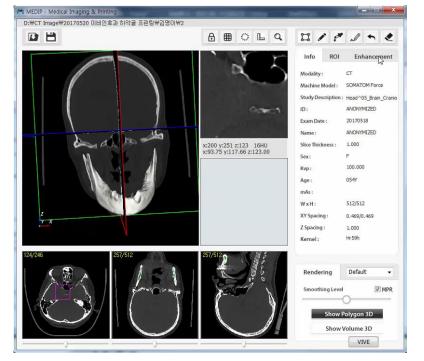
User Friendly Interface

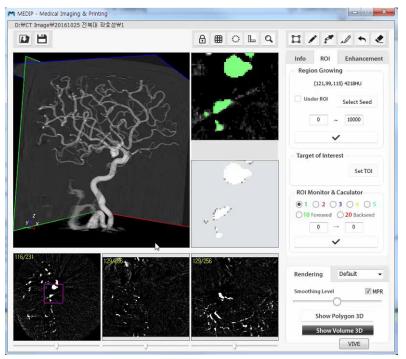








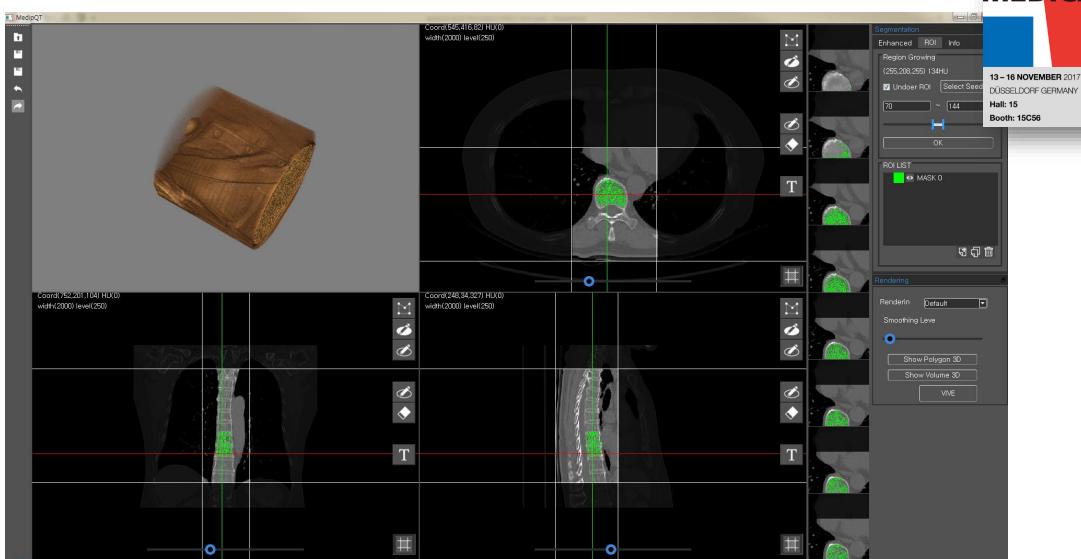






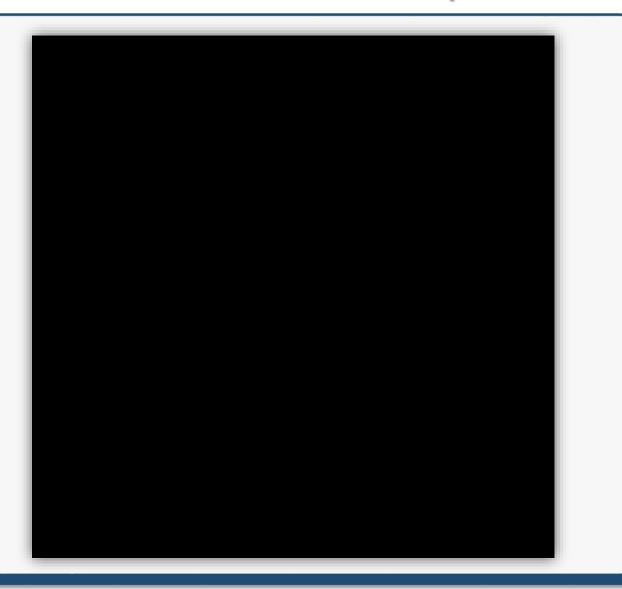
MEDIP REBUILDING (2017. 11. COMING OUT)





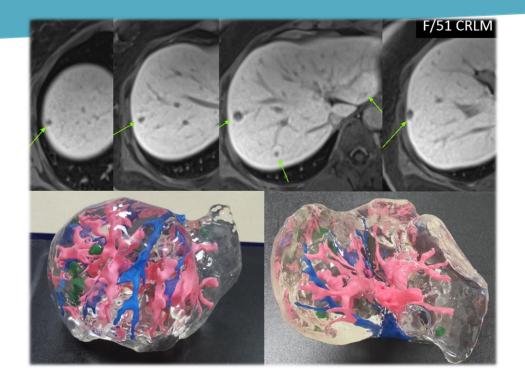


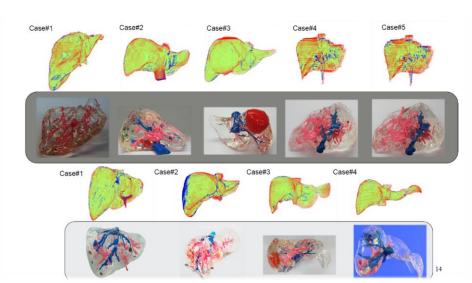
UNIBOT & ANATDEL (realistic ANATomical moDEL)

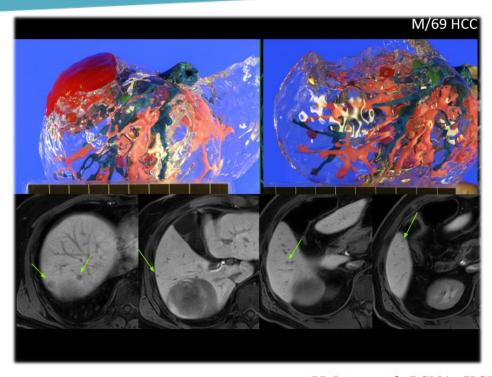










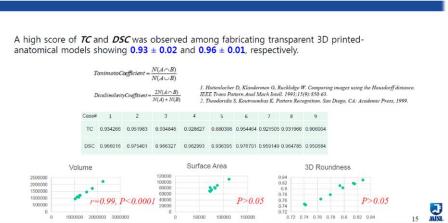


IJ Joo, et al. RSNA, KCR 2016



Experimental Results







ANATDEL EVER EVOLVING NOW





Medical Virtual Reality

General Image Reading Room in Hospital



Principles of Virtual Reality Devices



MedicalIP MAVR

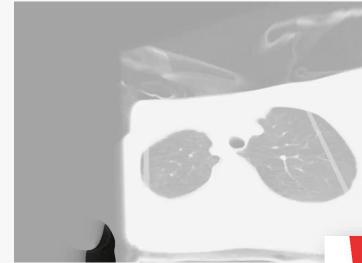




MEDICALIP Inside Body VR - YouTube

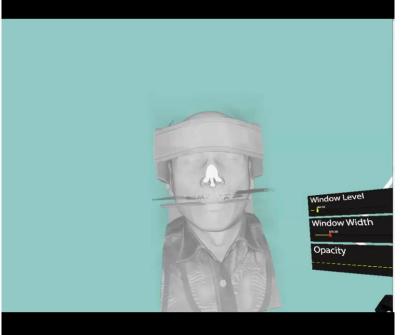


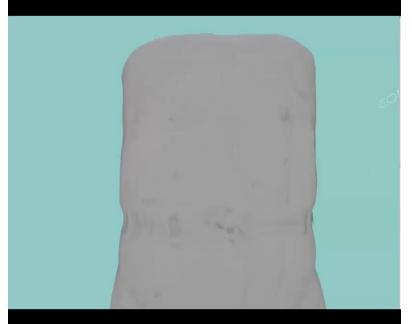
Registered in Oculus Store in the first half of 2017 and distributed worldwide



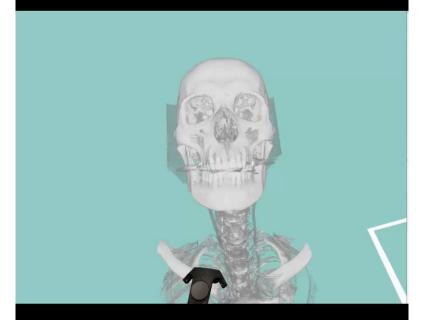
World's first real-time patient data VR reading tech - First launch in 2017, MEDICA in Germany

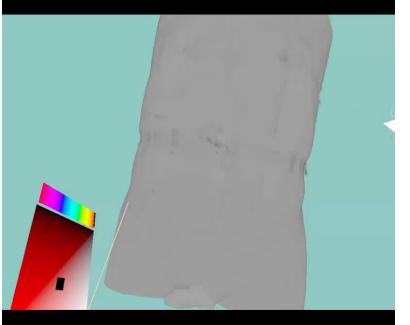


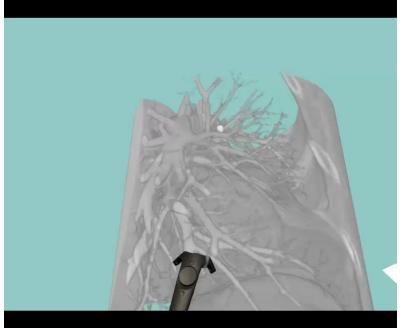






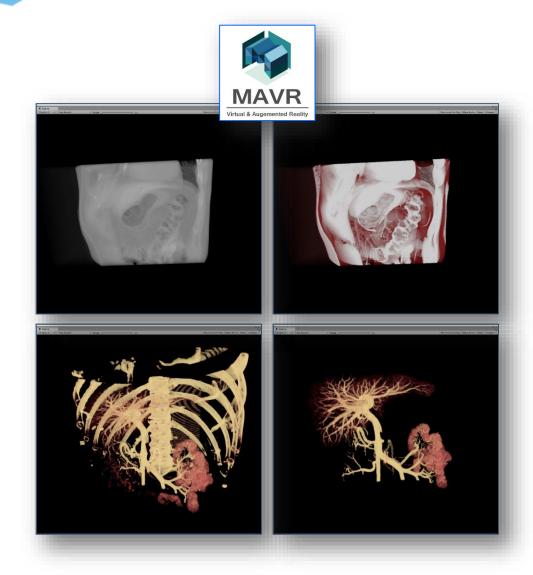








MAVR UPGRADING NOW



MEDIP LITE

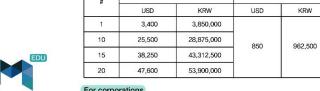


For individuals, schools, and research institutes.

New license (1 year) Exter

MEDIP EDU

MEDIP



#	New license (1 year)		Extending annual license	
	USD	KRW	USD	KRW
1	8,240	9,317,000	2,060	2,329,250
10	61,800	69,877,500		
15	92,700	104,816,250		
20	115,360	130,438,000		

#License include rights for MEDIP's use and updates, tech supports

Extending annual license

MEDIP PRO



...... Comming out 2018!



STRATEGY

Working with "larger" inst. or hospitals / educational area

- Piloting product
- More field test
- Need to migrate SW to cloud service

2nd STAGE

Deploy to "smaller" inst. or hospitals / educational area

- Having typical higher surgery error rate
- Not having IT person

Q4 2017 Deploy AR/VR solution

Q3 2018

LONG TERM

Independent doctors

- Modeling, Comment, Printing
- B2C medical service model

Q2 2019



Category

Interaction

Preprocessing

Segmentation

Rendering

Price

COMPETITIVE LANDSCAPE

Core Features

Intuitive / Easy to use UI design

High resolution

Less computational complexity (time)

Semi-manual + Fully automatic

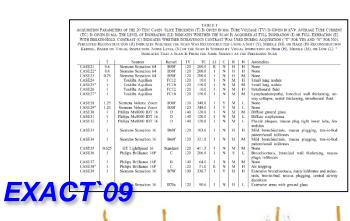
3D Visualization

Connecting 3D printing

Virtual Reality

No need to purchase additional module





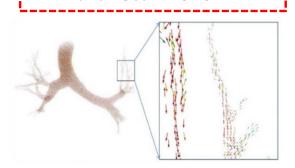
EXACT'09 results Collaboration results, detailed description of the default and the evaluation framework is available in: P. Lo, B. van Glaesten, B. Articharde, and M. de Bruigne, "Extraction of always from CT (EXACT'99)". In: Incomplete in the state of the participating bases, with this to the renderings and description of the evolution framework in the state of the participating bases, with this to the renderings and description of the evolution framework in the state of the participating bases, with this to the renderings and description of the evolution framework in the state of the participating bases, with this to the renderings and description of the evolution framework in the state of the participating bases, with this to the renderings and description of the evolution framework in the state of the participating bases, with this to the renderings and description of the evolution framework in the state of the participating bases, with this to the renderings and description of the evolution framework in the state of the participating bases, with this to the renderings and description of the evolution framework in the state of the participating bases, with this to the rendering state for the evolution framework in the state of the participating bases, with this to the rendering state for the evolution framework in the state of the participation framework in the state of the participation of the evolution framework in the state of the participation framework in the state of the participation framework in the state of the evolution framework in the state of the evolution framework in the state of the participation framework in the evolution framework in the state of the evolution framework in the state of the evolution framework in the evol

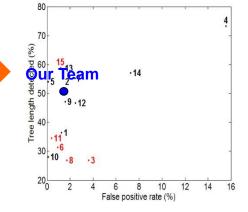
 $||f_{h,\omega}||_{TV} = \sum_{h,\omega} |\overrightarrow{\nabla} f_{h,\omega}| = \sum_{h,\omega} \sqrt{(f_{h+1,\omega} - f_{h,\omega})^2 + (f_{h,\omega+1} - f_{h,\omega})^2}$

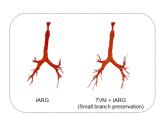
Proposed our technique

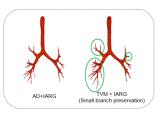
Tree length (cm): 130.58 cm

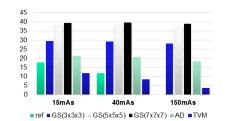
• Branch Count: 92.5

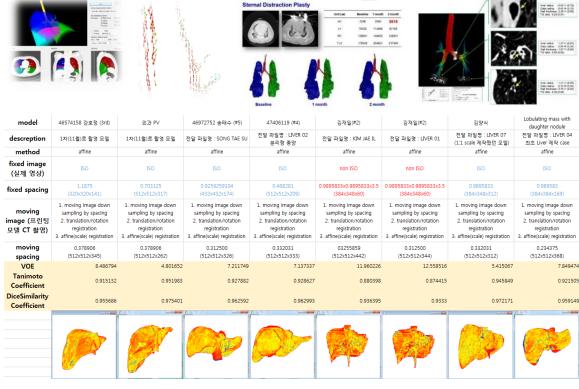










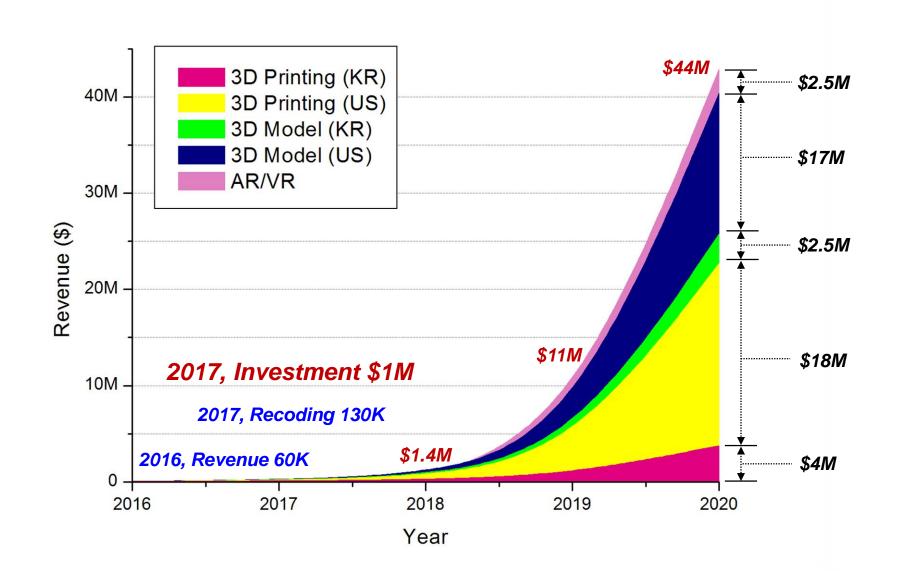








FINANCIAL OPPORTUNITY



4차수술혁명, 서울대병원 '1호벤처' 메디컬아이피 시장에 나온다

꿈모닝CEO]박상준 메디컬아이피 대표(서울대학교병원 영상의학과 교수)

머니투데이 반준환 기자 | 입력: 2017.03.23 04:29 | 조회: 6489

기사

소셜댓글(0)

☑ 기사공유 가 + -

편집자주 [꿈모닝 CEO 인터뷰]꿈을 향해 도전하는 최고경영자(CEO)를 만나 회사도 소개받고 비전도 공유하는 인 (人)터뷰를 시작합니다. 회사의 내용과 비전을 공유하는 계기가 되리라 기대합니다.



서울대학교병원 의료진들이 메디컬아이피에서 만든 장기 모형을 실제 흉부외과 수술에 활용하는 모습/ 사진제공=서울대학교병원

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Article

세종벤처 '메디컬아이피' 시리즈 A 투자

RCPS 10억, 3D프린팅 통한 의료영상 솔루션 국산화 성장 기대

김세연 기자 | 공개 2017-05-17 08:24:16

이 기사는 2017년 05월 15일 13:56 더벨 유료페이지에 표출된 기사입니다.

세종벤처파트너스(이하 세종벤처)가 강원지역 내 의료영상처리솔루션 기 업 '메디컬아이피'에 대한 시리즈A 투자에 나섰다. 최근 각광받고 있는 의 료영상 산업 내 독자적 기술력을 갖춘 메디컬아이피의 국산화 노력에 기 대한 투자다.

15일 벤처캐피탈 업계에 따르면 세종벤처는 최근 운용중인 '강원-세종-강소기업육성 상생 투자조합(이하 강원 강소기업 상생펀드)'을 통해 메디 컬아이피가 발행한 전환상환우선주(RCPS) 10억 원 어치를 인수했다.

2015년 설립된 메디컬아이피는 의료영상처리 소프트웨어 솔루션 전문 개발업체다. 메디컬아이피는 독자 개발한 의료영상 처리 소프트웨어 '메딥(MEDIP)' 등을 통해 촬영된 영상을 3D로 전환하고 3D 프린팅(ANATDEL)으로 환자 개개인의 모형을 제작해 공급하는 것이 주요 사업분야다.



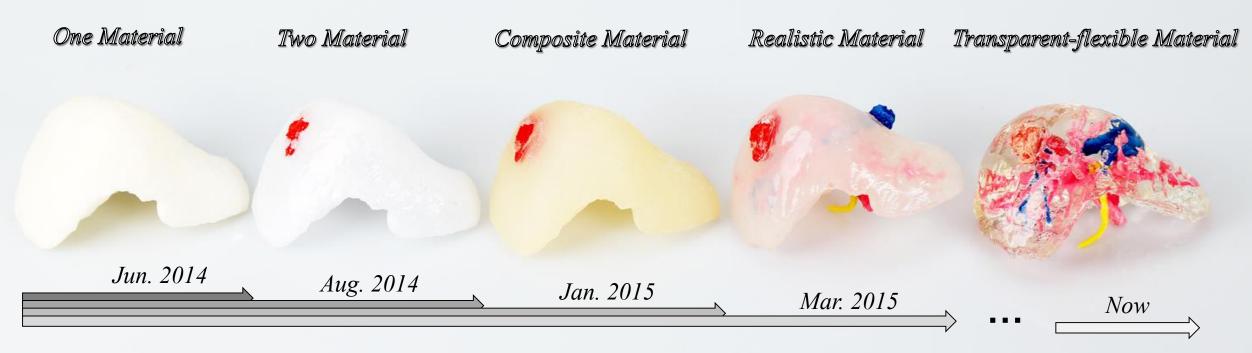
Global Mentoring Agreement btw MEDICALIP and J&J





Johnson Johnson

Patient-specific - Fast - Accurate - Cost saving - Realistic - Useful



£

"Ever Evolving Technology"

Thank you

Lifesaving medical technologies for doctors, patients, and their families.

Medical IP is with you.