



Redefining Digital Care:

Samsung Medical Center's Journey from 4-Less to AI-Empowered Healthcare

2026. 5. 7

Jong-Soo (Jacob) Choi

SMC SAMSUNG MEDICAL CENTER

Asia's one-stop shop for Wireless Connectivity Solutions

wireless
CONNECTIVITY ASIA

29-30 November 2005
Suntec International Convention & Exhibition Centre, Singapore

15% discount for members of endorsing associations

IMPROVING MOBILITY WITH WIRELESS CONNECTIVITY

Over 30 expert speakers including:

- Olli-Pekka Lintula, Director Strategic Marketing Technology Platforms, **Nokia**
- Bruce Hawver, Vice President and General Manager, Companion Products Group, Mobile Devices Business, **Motorola, Inc.**
- Frank Levering, Applications Development Manager, **o2 Asia**
- Yun Seong Yong, Mobile Operator Marketing Manager, Asia Pacific, **Microsoft**
- Paul Blinkhorn, Vice President for Asia Pacific, **Palm, Inc.**
- Tan Teik Kheone

WHY YOU MUST ATTEND:

- Identify new opportunities and forge NEW PARTNERSHIPS in the Asian market
- Over 30 top level speakers from operators, device/computing manufacturers, OEMs, chip manufacturers and designers
- The ONLY event focusing on all leading short range wireless technologies
- A networking exhibition
- Highly interactive panel discussions
- A special focus on the Asian market

11.00 **Wireless Connectivity in Healthcare: Mobile Phone-Usage Patterns in the Mobile Hospital System**

- Why do hospitals need a Mobile Hospital System – What are the features of it?
- Mobile phone-usage patterns after the first installation and the second innovation
- What are the benefits for doctors and the hospital?
- Why are the major carriers about to invest to setting up Mobile Hospital Systems?

Jong Soo Choi, Project Manager, **Samsung Medical Center**

HealthTech Asia
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mSMIS SMC mobile-hospital

mSMIS 검사결과

보고일	2005-06-23	
검사명	결과	PACS
AFB Stain and C TEXT		
Blood Culture, 1TEXT		
PT (sec)	20.0	▲

mSMIS 바이탈사인

사번: []
비밀번호: []

220
200
180
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자원 TPR/BP Graph UO

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Samsung Medical Center

Since 1994

Patients Statistics

☑ Outpatients	8,525/ day
☑ New patients	421 / day
☑ Inpatients	1,396 / day
☑ Emergency patients	146 / day
☑ Surgeries	171 / day
☑ Utilization of beds	79.1%
☑ Length of stay(inpatients)	5.7 days

Facilities

☑ No. of beds	1,790
☑ Operating rooms	53
☑ ICU	235

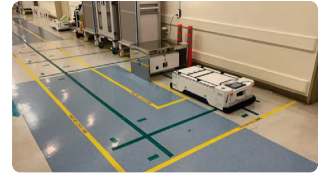
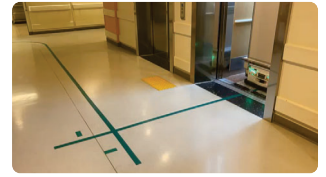
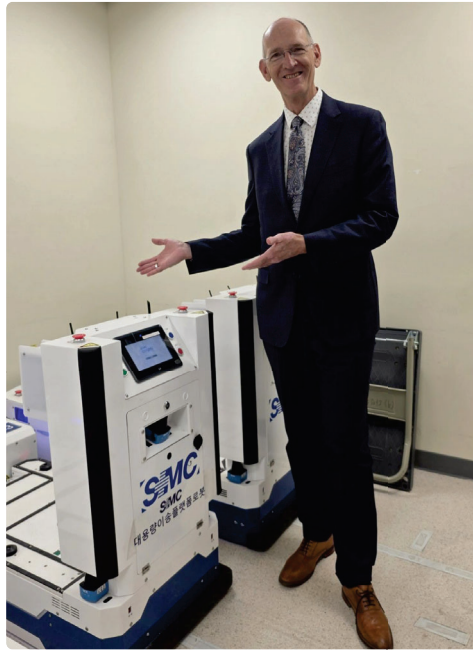
AS of 2026.Jan

40 countries, 99 delegations visited in 2025

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Most Popular Visit Sites



Recognitions and Achievements



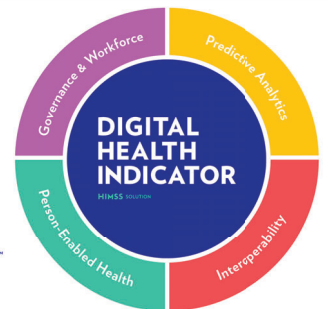
★★★★★
WORLD'S BEST SPECIALIZED HOSPITALS
ONCOLOGY
2026
Newsweek
POWERED BY statista
SAMSUNG MEDICAL CENTER

Rank	Hospital	City
1	Memorial Sloan Kettering Cancer	New York
2	MD Anderson Cancer Center	Houston
3	Samsung Medical Center	Seoul
4	Asan Medical Center	Seoul
5	Mayo Clinic - Rochester	Rochester
6	Gustave Roussy	Villejuif
7	The Royal Marsden Hospital	London

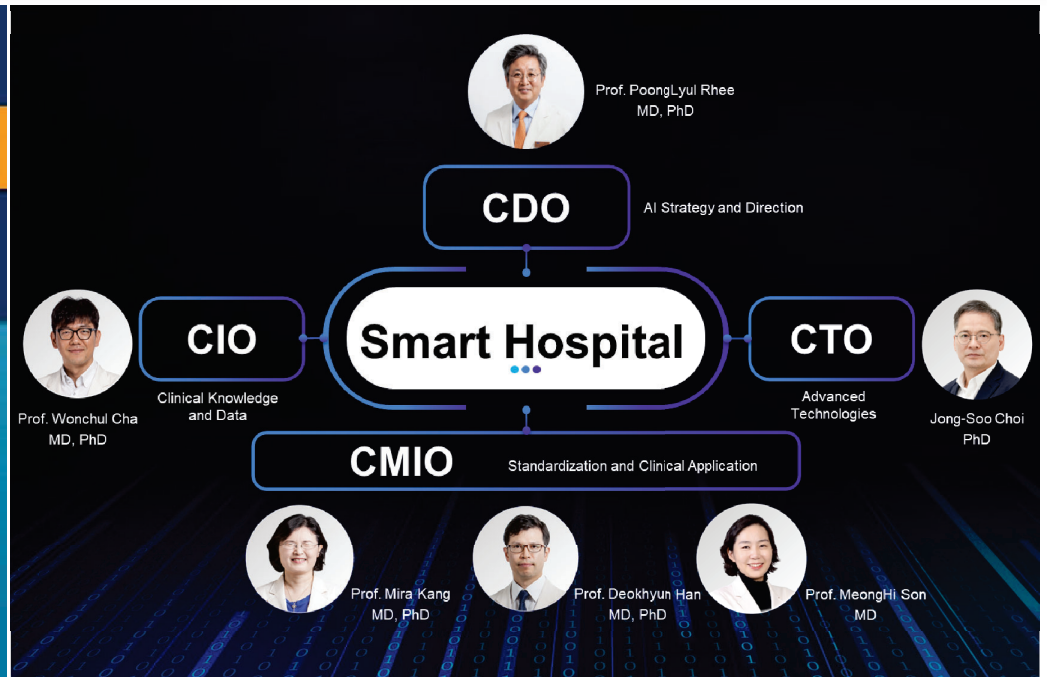
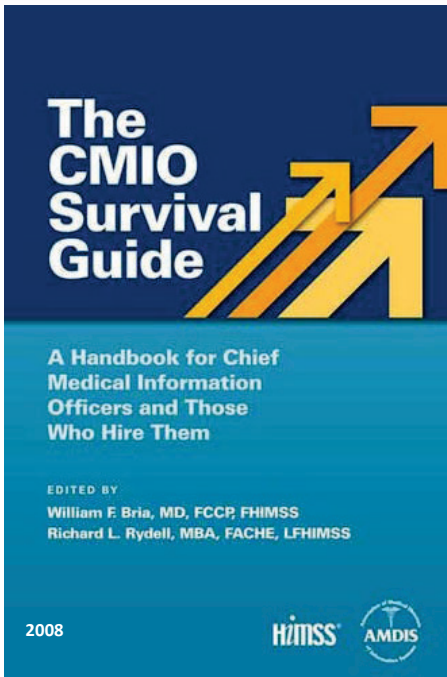
★★★★★
WORLD'S BEST SMART HOSPITALS
2026
Newsweek
POWERED BY statista
SAMSUNG MEDICAL CENTER

Rank	Hospital	City
10	Houston Methodist Hospital	Houston
11	Karolinska Universitetssjukhuset	Stockholm
12	Brigham and Women's Hospital	Boston
13	Stanford Health Care - Stanford Hospital	Stanford
14	Aarhus Universitetshospital	Aarhus
15	Samsung Medical Center	Seoul
16	Mayo Clinic Hospital - Phoenix	Phoenix

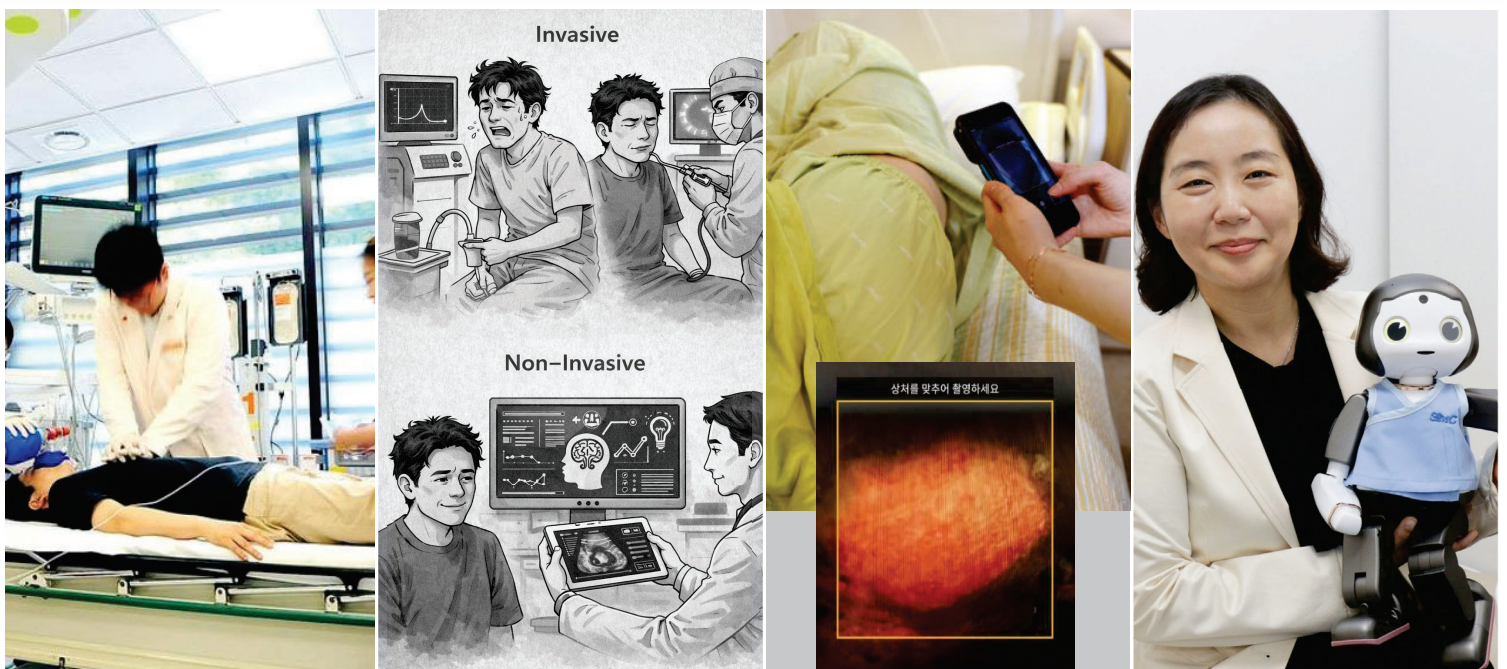
Perfect Score!
 HIMSS™



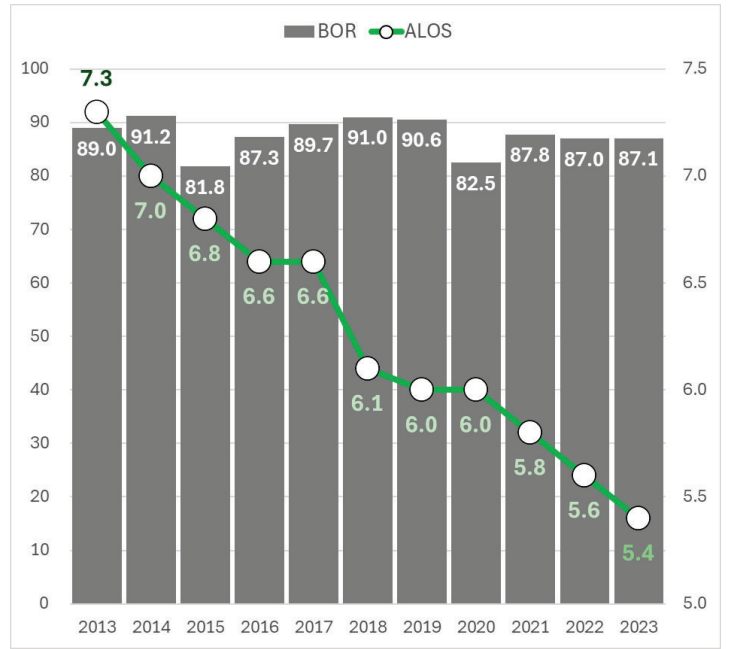
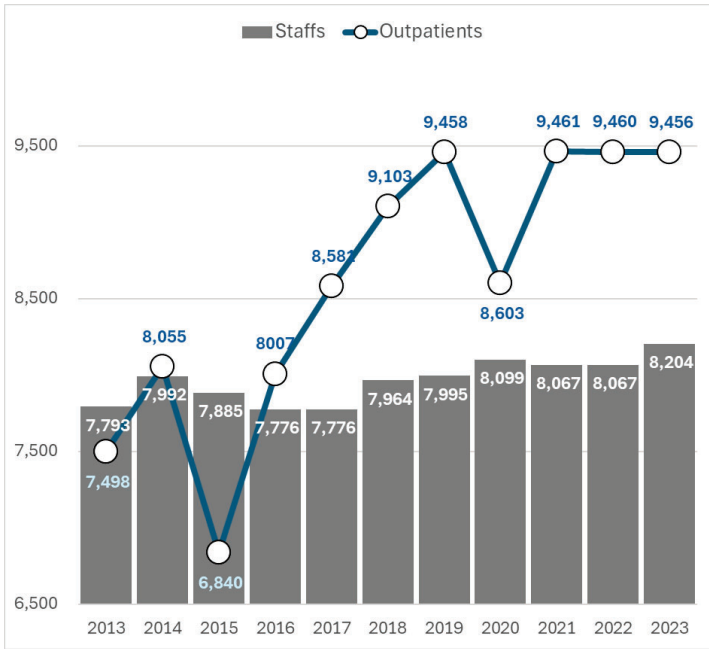
World 1st Aug 2022 **INFRAM** STAGE 7
World 1st Feb 2023 **DIAM** STAGE 7
World 1st Feb 2023 **EMRAM** STAGE 7
World 1st Jan 2024 **AMAM** STAGE 7
World 1st Nov 2025 **CCMM** STAGE 6



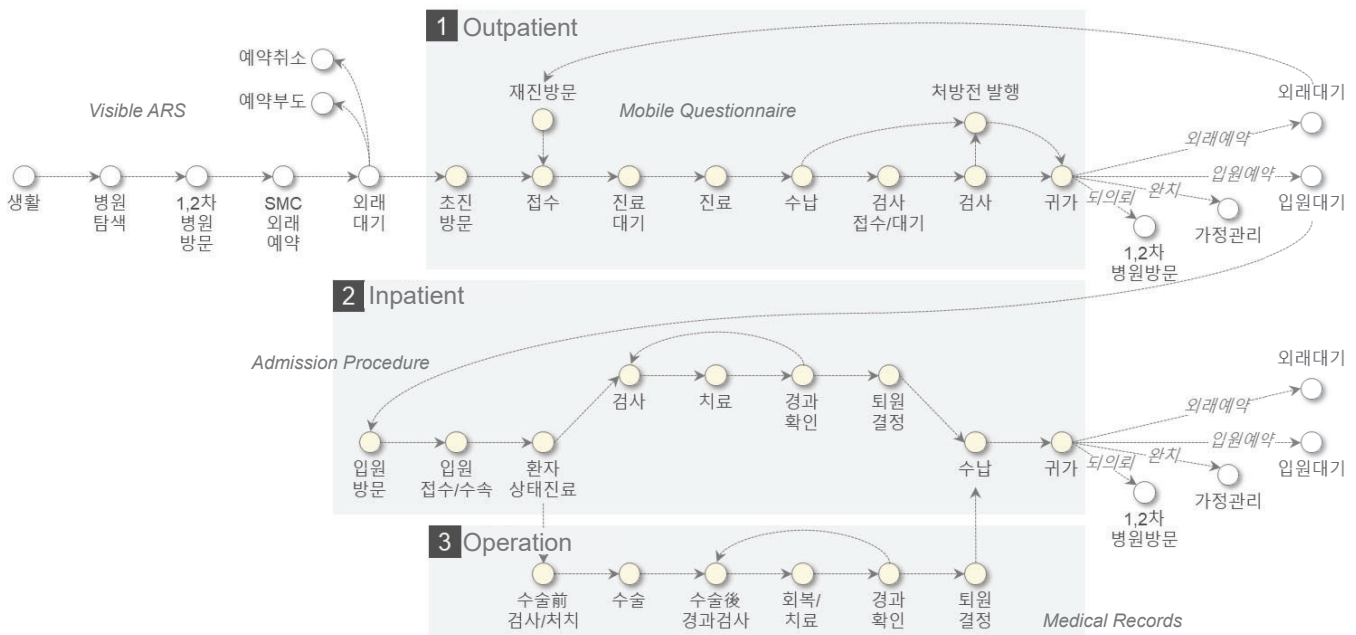
Als



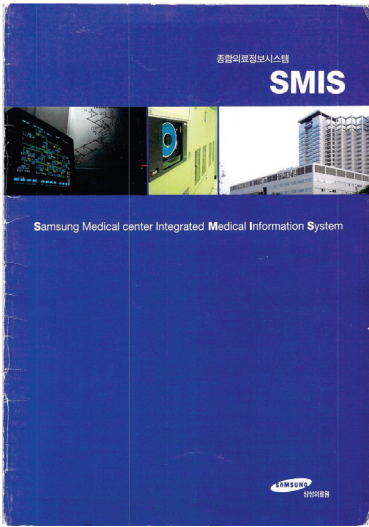
Trends of Key Indicators Over the Past 10 Years



Enabler 01: Patient Journey Based Framework



Enabler 02: Strategic 4 Pillars - Digitalization



SMIS (Samsung Medical Center Integrated Medical Information System)

Enabler 03: DX Concept over 30 years - Connect & Thru

SMC Vision

We aspire to be the frontier of future medicine **SMC**

DX Keywords

Next-Generation Smart Hospital **DX**



DX Concept



Care Together Happy Together

CONNECT & THRU



Practices



Creating a digital hospital environment that enables **clinicians** to dedicate their full attention to patient care.

Creating a digital hospital environment that empowers **patients** to concentrate entirely on their healing journey



Enabler 04: DX with Contribution and Engagement



Journal of Applied Systems Analysis Volume 16, 196 © Department of Systems, University of Lancaster, Lancaster LA1 4YX, England

FROM DATA TO WISDOM PRESIDENTIAL ADDRESS TO ISGSR, JUNE 1988

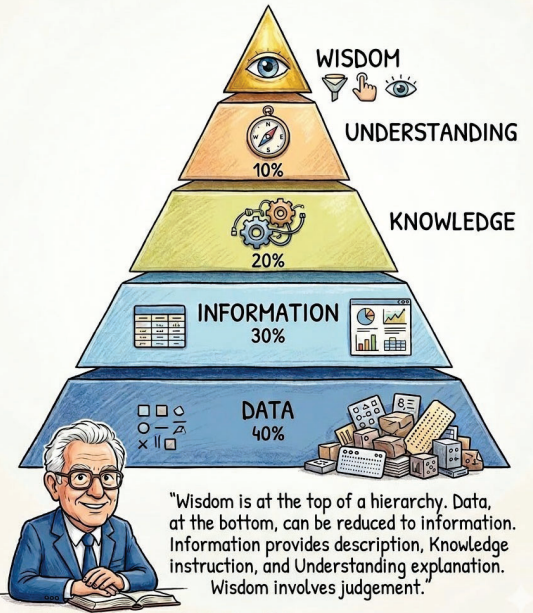
R. L. Ackoff

INTRODUCTION A presidential address is usually expected to contain words of wisdom. If this is your expectation, you will be disappointed. This paper is short on words of wisdom but long on words about wisdom. In this case, a word to the wise is not sufficient.

Wisdom is located at the top of a hierarchy of types, types of content of the human mind. Descending from wisdom there are understanding, knowledge, information, and, at the bottom, data. Each of these includes the categories that fall below it — for example, there can be no wisdom without understanding and no understanding without knowledge. Nevertheless, it is my impression that on the average about forty percent of the content of human minds consists of data, thirty percent information, twenty percent knowledge, ten percent understanding, and virtually no wisdom. This allocation of mental space is particularly well reflected in the minds of our political leaders and those who educate them.

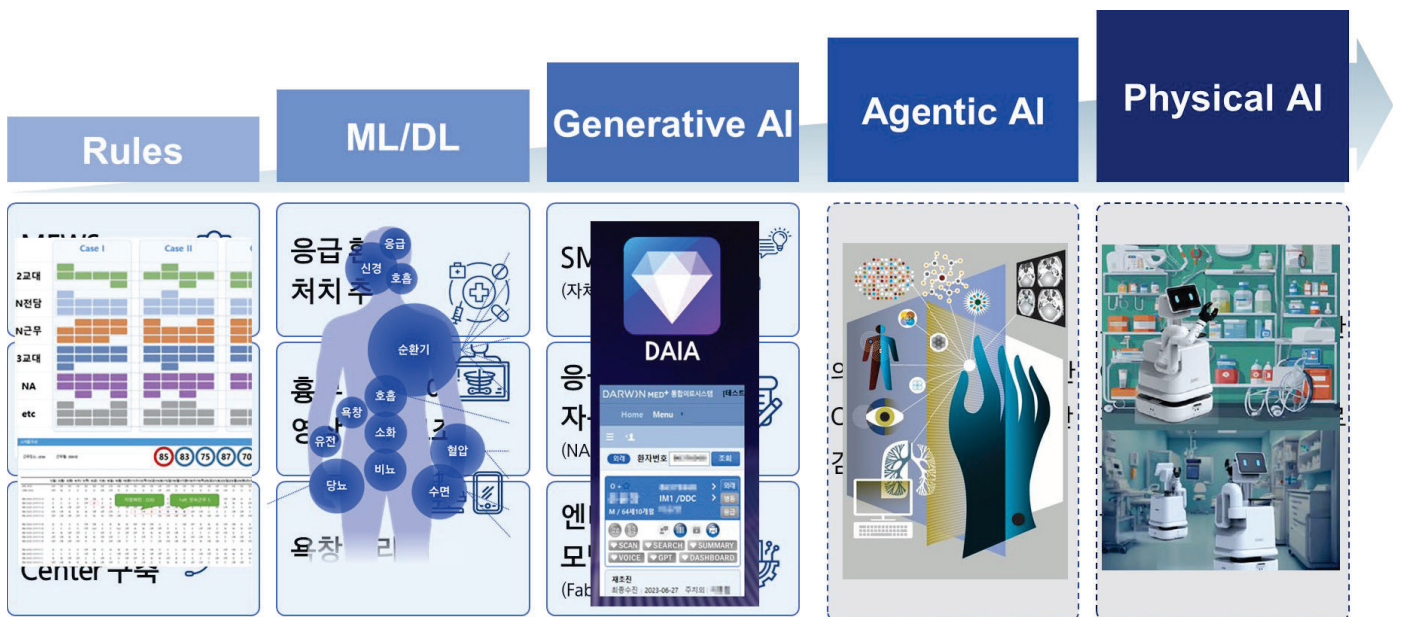
Managers of systems are currently drowning in a sea of symbols spewed out by mature computer-based management information systems (MIS). More sophisticated computer-based knowledge systems are still young. Younger still are systems that generate understanding. Ones that generate wisdom have yet to be born. *Of what would such a system consist?* It is to this question that this paper is addressed.

FROM DATA TO WISDOM



Based on "From Data to Wisdom" by R. L. Ackoff (1988)

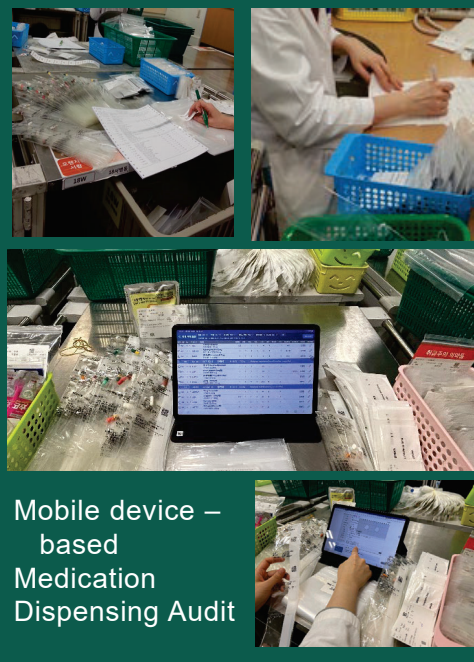
Current State of AI Maturity



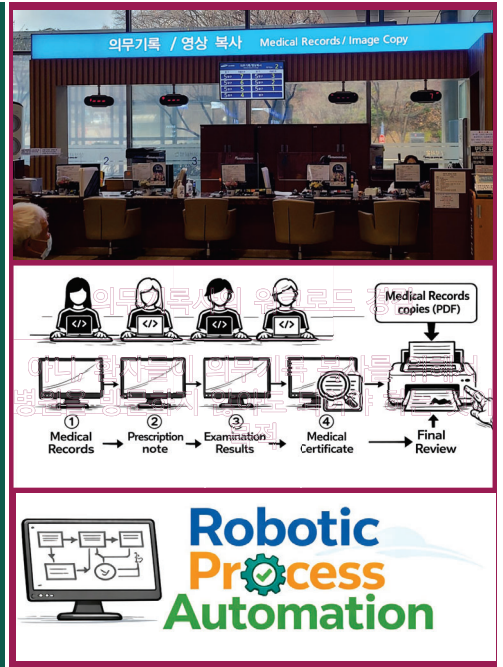


MAGIC Cart
with AGV

SAMSUNG MEDICAL CENTER **SMC**



Mobile device –
based
Medication
Dispensing Audit



Robotic
Process
Automation

Conclusion +

Our Mission

We are dedicated to improving health and enhancing quality of life through excellence in patient care, research, and education.



**Care Together
Happy Together**



THANK YOU

FOR YOUR ATTENTION

We aspire to be the frontier of future medicine

Jong-Soo (Jacob) Choi, PhD

HealthTech Asia
Innovate. Collaborate. Partner.

Profile

- ✓ Serves as the Chief Technology Officer (CTO) and IT Lead of the Office of Digital Transformation at Samsung Medical Center (SMC).
- ✓ Also holds a concurrent position as an Adjunct Professor in the Department of Digital Health at SAHST (Samsung Advanced Institute for Health Sciences & Technology), Sungkyunkwan University.
- ✓ Plays a leading role in advancing SMC's digital innovation initiatives and international collaborations across data, AI, and smart hospital ecosystems.

Professional Activities

- ✓ Advisory Board Member, HIMSS INFRAM (Infrastructure Adoption Model) Working Group
- ✓ Member, HIMSS Global Health Education Committee (GHEC), 2026 ~ 2028
- ✓ Member, HL7 Korea Committee, 2026 ~
- ✓ Recipient, 2025 HIMSS Changemaker Award – Global Patient Innovator

Achievements

- ✓ Led Samsung Medical Center's ascent in Newsweek's World's Best Smart Hospitals ranking - from 31st (2021) to 15th (2026)
- ✓ Guided the hospital to become the world's first HIMSS CCMM Stage 6 institution (2025)
- ✓ Achieved Quadruple HIMSS Stage 7 validations (INFRAM, EMRAM, DIAM, AMAM) and a perfect Digital Health Indicator (DHI) score by 2024

