

4Q 2022

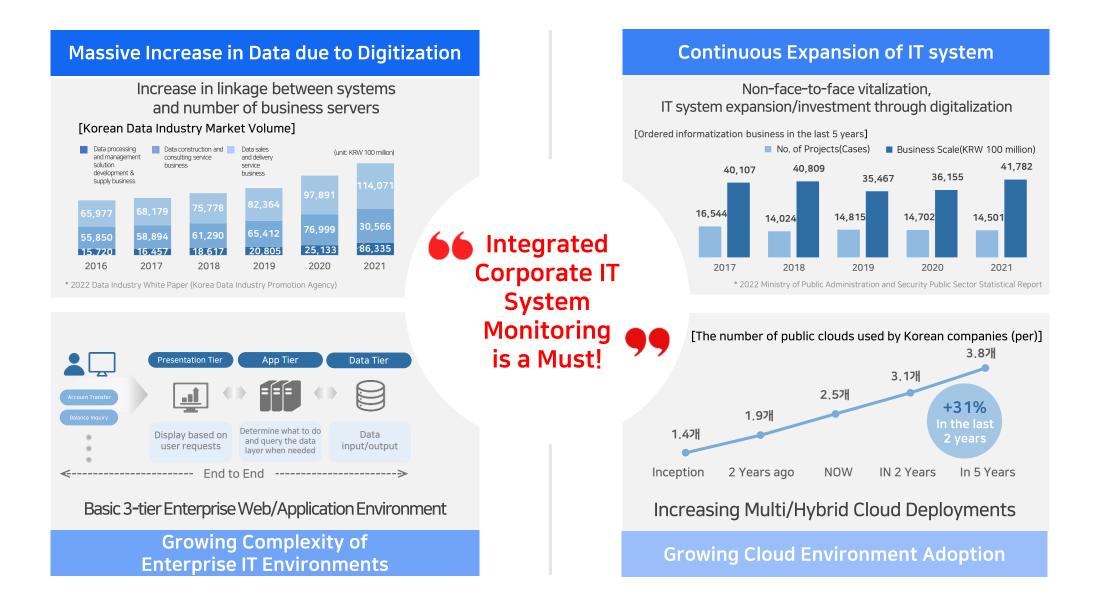
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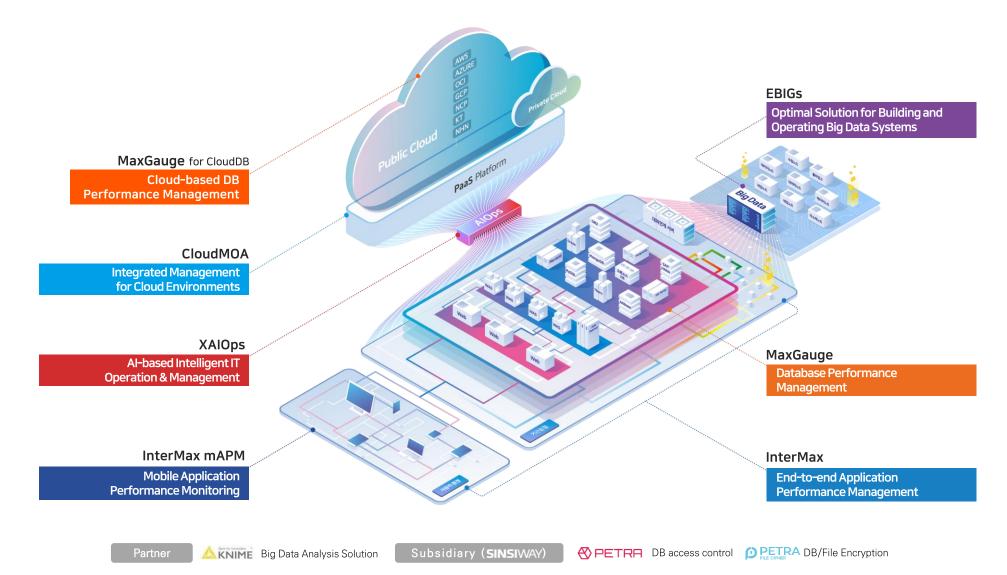
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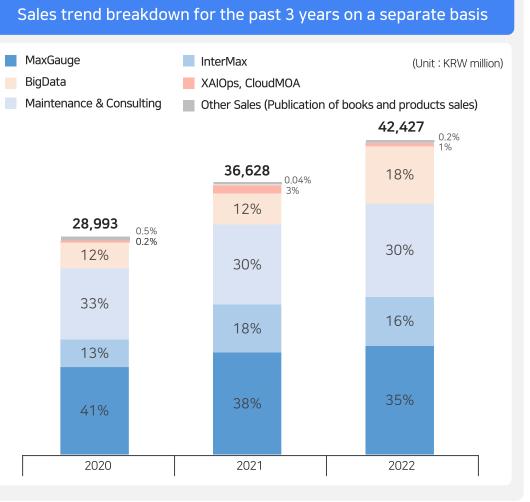


## **CXC** Provide corporate IT system performance management and monitoring solutions



# Sales Breakdown A virtuous cycle of sales expansion through additional adoption and maintenance of existing customers, cross-selling/bundling/influx of new customers

	구분	2019	2020	2021	2022	CAGR in the past 4 yrs	Sale	s trend br	rea <u>k</u>
	MaxGauge (SW)	<b>9,997</b> (40%)	<b>11,904</b> (41%)	<b>13,877</b> (38%)	<b>14,781</b> (35%)	13.9%	Max	Gauge	
	InterMax (SW)	<b>3,975</b> (16%)	<b>3,764</b> (13%)	<b>6,535</b> (18%)	<b>6,671</b> (16%)	18.8%	BigD	ata	
	BigData (SW & Services)	<b>1,714</b> (7%)	<b>3,457</b> (12%)	<b>4,239</b> (12%)	<b>7,763</b> (18%)	65.5%	Mar	itenance & Co	nsuit
EXEM	XAlOps (SW)	-	<b>37</b> (0.1%)	<b>1,065</b> (3%)	<b>352</b> (0.8%)	208.4% (past 3 yrs)			
	CloudMOA (SW)	-	<b>16</b> (0.05%)	<b>37</b> (0.1%)	<b>106</b> (0.3%)	157.4% (past 3 yrs)			
	Maintenance & Consulting	<b>8,918</b> (36%)	<b>9,675</b> (33%)	<b>10,860</b> (30%)	<b>12,688</b> (30%)	12.5%		<b>28,993</b>	0.9
	Other Sales <sup>1)</sup>	<b>182</b> (1%)	<b>140</b> (0.5%)	<b>15</b> (0.04%)	<b>66</b> (0.2%)	-28.7%			
	Petra (SW)	<b>2,151</b> (32%)	<b>3,514</b> (48%)	<b>4,174</b> (52%)	<b>4,620</b> (48%)	29.0%		33%	
	PetraCipher (SW)	<b>2,154</b> (32%)	<b>1,174</b> (16%)	<b>1,190</b> (15%)	<b>2,227</b> (23%)	1.1%		13%	
SINSIWAY (Subsidiary)	PetraSign (SW)	<b>70</b> (1%)	<b>52</b> (0.7%)	<b>35</b> (0.4%)	<b>25</b> (0.3%)	<del>-</del> 29.1%		41%	
	Maintenance	<b>2,300</b> (34%)	<b>2,506</b> (34%)	<b>2,595</b> (32%)	<b>2,798</b> (29%)	6.8%			
	Other Sales <sup>2)</sup>	<b>141</b> (2%)	<b>31</b> (0.4%)	<b>61</b> (0.7%)	<b>53</b> (1.0%)	-27.8%		2020	



\* In the case of the above table, figures are based on separate/individual financial statements 1) Sales of products such as publication of books 2) Sales of products, rent, etc.

## About EXEM

#### **EXEM Corporation**

- Inception : January 2001
- Stock Listing Date : June 26, 2015
- Capital : 3.6 Billion KRW (End of 2022)
- Sales : 55.1 Billion KRW (consolidated standard at the end of 2022)
- Workforce : 295 (March 2023)
- Affiliated Companies (End of 2022)

Category	Company Name	Investment Stake(%)
Main Subsidiary	SINSIWAY(DB Security)	50.24
Subsidiary	EXEM JAPAN Co.,Ltd.(Japan)	75.00
Subsidiary	EXEM CHINA Co.,Ltd.(China)	63.16
Subsidiary	MAXGAUGE, INC.(US)	91.00
Related Company	l'mCloud(Big Data, Al)	22.75

#### CEO

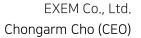
#### **Profile**

Academy Background & Education

- · Seoul National University(Diplomacy and Global Politics major)
- Postech (SW Engineering, master's degree)
- · KAIST AIM Course Completion

#### Experience

- · POSCO, Information System department, EIS development
- · POSDATA Consulting Department, CASE TOOL Consultant
- Oracle Korea, DB Technical Consulting Team, Oracle Tuning Consultant







## Milestones

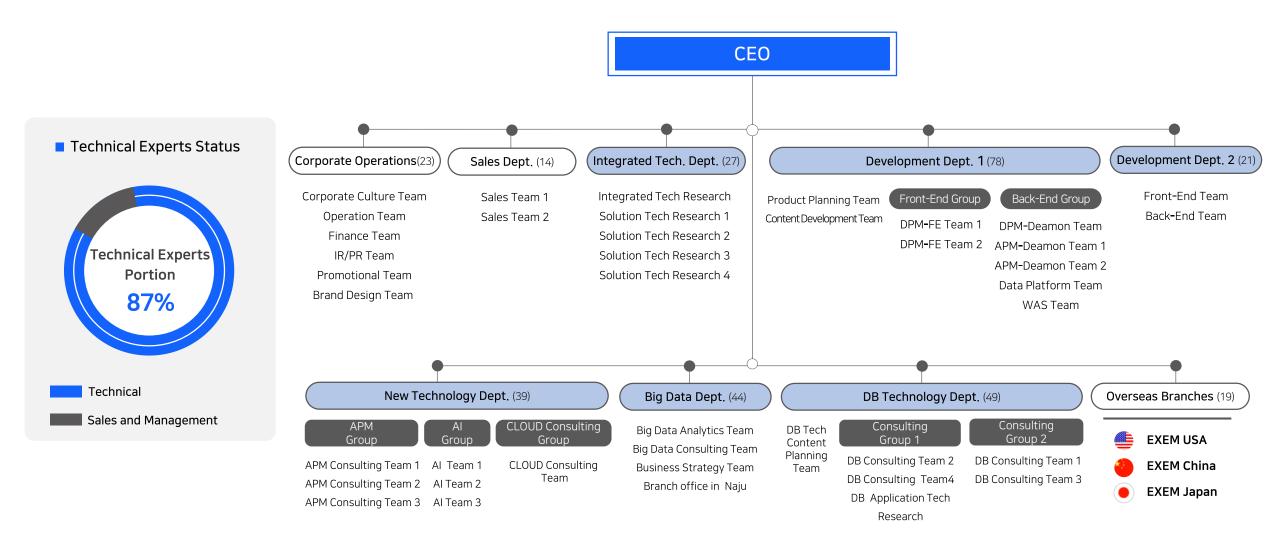
	<ul><li>EXEM 1.0 Entry into DB Monitoring</li><li>EXEM 2.0 Business Expansion into Total Performance Management</li></ul>	•	<b>EXEM 3.0</b> Preparation of the 4th Industrial Revolution(Starting Big Data Business)	•	<b>EXEM4.0</b> Leading role in the 4 <sup>th</sup> Industrial Revolution through the implementation of new technologies, including AI and cloud.
•	2001	•	2015	•	2019 Commercialization of AI & Cloud
	Established EXEM		Listed on KOSDAQ Kesarq <sup>1</sup>		XAIOps, CloudMOA Launched
	DBMax (the Previous version of MaxGauge ) Launched		Entry into Big Data Solution Market Shares Acquisition of SINSIWAY (50.24%) & I'mCloud(25%)		34.5 Billion(KW) Revenue Breakthrough
•	2002		20.7 Billion(KW) Revenue Breakthrough	•	2020
	KT NT IT certification acquired at one time				CloudMOA /XAIOps Orders received from Hyundai Card and KDN
	Jang Young-shil Award	•	2016		39.2 Billion(KW) Revenue Breakthrough
•	2008		Entry into Big Data Consulting Market with the launch of Flamingo Merged Cloudine, Co., Ltd		2021
	InterMax Launched, New Excellent Technology(NET) Award Established EXEM JAPAN, EXEM CHINA 💽 👯		27.5 Billion(KW) Revenue Breakthrough		CloudMOA /XAlOps Orders received from major financial clients including Busan/Shinhan and Woori Bank.
	2011	•	2017		CloudMOA SaaS Version, MaxGauge for HANA Launched
	10.5 Billion(KW) Revenue Breakthrough		KEPCO's largest big data integration platform		47.3 Billion(KW) Revenue Breakthrough
	2012		construction project (Korea Electric Power Corporation)	•	2022
	ZOTZ Korea IT Innovation Award		Orders received from Kakao bank, K bank, Citi bank		MaxGauge for CloudDB (PostgreSQL, Oracle) Launched
	'Company that people want to apply for' Award		33.7 Billion(KW) Revenue Breakthrough		EBIGs Launched
	One of the Korea 100 Best Companies to work for		0040		Relocation to the new EXEM headquarters in Magok
	2014		2018		55.1 Billion(KW) Revenue Breakthrough
Ī	Established MAXGAUGE.Inc		Partnership with KNIME, Designated Partner of Match-up Al/Big Data project (Ministry of Education)	•	2023 Ready for SaaS Business

32.4 Billion(KW) Revenue Breakthrough (with 3.5 billion

coming from overseas branches)

MaxGauge for CloudDB (MySQL, MariaDB) Launched Integrated SaaS Solution DataSaker Launch (to-be)

## Organizational Structure Developers/Engineer Organization (258/295) (\* calculated in Mar.2023, (): No. of employees)



### Main Domestic Customers by Industries

## Acquired 630+ References, mostly Finance/Manufacturing/Public institutions.

Financial Sector			Public Sector		Manufacturing & S	Service Sectors	
<b>WOORI BANK</b>	KB Kookmin Bank	SAMSUNG LIFE INSURANCE	Ministry of the Interior and Safety	National Tax Service	🕢 НҮШПДЯІ	SAMSUNG	C LG Electronics
🔇 SHINHAN BANK	🕻 KDB Bank	<b>SAMSUNG</b> CARD	Ministry of Justice	Statistics Korea	SAMSUNG HEAVY INDUSTRIES	SK hynix	
BNK Busan Bank		KIWOOM	Ministry of Employment and Labor	Ministry of the Interior and Safety	posco ict	SK telecom	🕢 Hanwha
😙 Hana Bank	Industrial Bank of Korea	🤅 Hana Financial Investment	GYEONGGI-DO	Ministry of National Defense Republic of Korea	Movement that inspires	kt	SSG.COM
le toss	<b>B</b> kakao <b>bank</b>	Kbank		K water		<b>*</b>	SAMSUNG SDI
LOTTECARD	NATIONAL AGRICULTURAL COOPERATIVE FEDERATION	Hyundai Card	REB Korea Real Estate Board	KƏRAIL	KEC	X Kwangdong	🔆 SHINSEGAE
DGB Daegu Bank 🞯	Scard 8	lotte capital	h-well National Health Insurance Service	<b>KOGAS</b>	INTER <b>PARK</b>	HYOSUNG	Hanwha
DB Insurance	LOTTE INSURANCE	<b>MIRAE AS<del>SE</del>T</b> 미객에셋생명	Korea Racing Authority			Sindoh	SK Inc.
Standard Chartered SC 제일은행	🗢 WOORI CARD	•••		•••	coupang	KU KONKUK UNIVERSITY	•••

# MaxGauge Best Database Performance Management Solution in Korea





Standard database performance management SW in Korea  $\bigotimes$ 



#### STRENGTHS : Having the best DBA consultants/developers in Korea System investment ROI and DBMS management efficiency improvement

- [Accuracy] Real-time monitoring, analysis in seconds/minutes/days, diagnostic reports from various perspectives
- [completeness] Real-time monitoring, diagnosis, analysis, tracking based on Top-down methodology
- [Stability] Up to 10~15% of CPU utilization in case of 2,000 sessions
- [Extensibility] Extend monitoring of open-source DBMS and Cloud DB such as Oracle Exa DB and MongoDB

#### $\bigotimes$ References



**B** kakao**bank** 

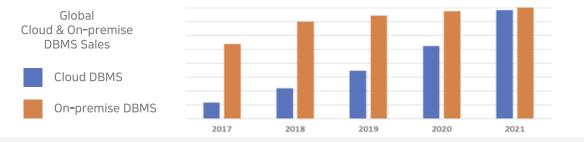
## MaxGauge Market Expectations due to various DBMS monitoring including Non-relational/Cloud/Open-source

#### MaxGauge Lineup(DBMS Monitoring Targets)

No.	DBMS Name	DBMS Type
1	Oracle	Relational/Commercial
2	SQL Server	Relational/Commercial
3	DB2	Relational/Commercial
4	Tibero	Relational/Commercial
5	Altibase	Relational/Commercial
6	MySQL	Relational/Open-source
7	MariaDB	Relational/Open-source
8	PostgreSQL	Relational/Open-source
9	MongoDB	Non-relational/Open- source
10	AWS RDS (Aurora, MySQL, SQL Server)	Relational/Commercial
11	HANA DB	Relational/Commercial
12	Cloud DB (Oracle, PostgreSQL, MySQL, MariaDB)	Cloud

#### Continued expansion of the DBMS market, growth of DBPM-related industries (Unit:100 million KRW) '21 CAGR Claasification '20 '19 Comment ('19~'21) (estimated) DBMS 7,510 8,979 21.4% Relational/Cloud DBMS/Other DBMS 11,062 Data Management Solution 5,203 17.2% 6,022 7,151 DBMS Solution Included Data Consulting 27.0% DBMS Performance Consulting Included 3,189 4,194 5.147 (% Source : kdata, 2021 Data Industry Whitepaper)

#### Cloud DB is growing rapidly (accounting for half of global DBMS market sales as of 2021)



(X Source: Gartner Blog, DBMS Market Transformation 2021)

#### Growing Demand for Open Source DBMS Overwhelming Commercial Use



2023

Gartner

market

share 18.4

#### Application Performance Management Solution through End-to-End /// InterMax Tracking Transactions



E2E performance management solution proven by large  $\bigotimes$ corporations and financial institutions

APM-E2E Integrated Analysis	Real-time performance/failure /transaction monitoring	Transaction tracking for all E2E segments	Statistical and analysis reporting
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#### STRENGTHS : Integrated management of Web-App-DB performance, waiting, $\odot$ and failure

- [Accuracy] Real-time monitoring, failure detection, cause analysis and tracking through UX-based dashboard
- [Complete] User-WAS-DB performance management integrated environment
- [Stability] Less than 1%~3% of CPU usage when profiling overload at all times, by 300 users
- [Extensibility] Cloud environment support (AWS, Azure, Private Cloud)

#### Ø References

2023

Gartner

•E2E

2022

new relie

Observabili Forecast

# **InterMax** Mobile Application Performance Management Solution



Implies the service of the service o

Real-time mobile app performance monitoring	App quality verification and detailed error analysis	Service utilization analysis	Diverse customer pattern analysis
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#### STRENGTHS : Real-time monitoring, event/Device/NW/user detailed analysis

- ullet [Accuracy] Real-time  $\cdot$  multi-app integrated monitoring and analysis through UX-based dashboard
- [Complete] Detailed call trace linkage tracking of delayed transaction through APM (InterMax) linkage
- [Convenience] Applied only by simple API call, performance delay/crash cause analysis is provided
- [Extensibility] Hybrid app integrated monitoring, various customer behavior analysis for marketing use

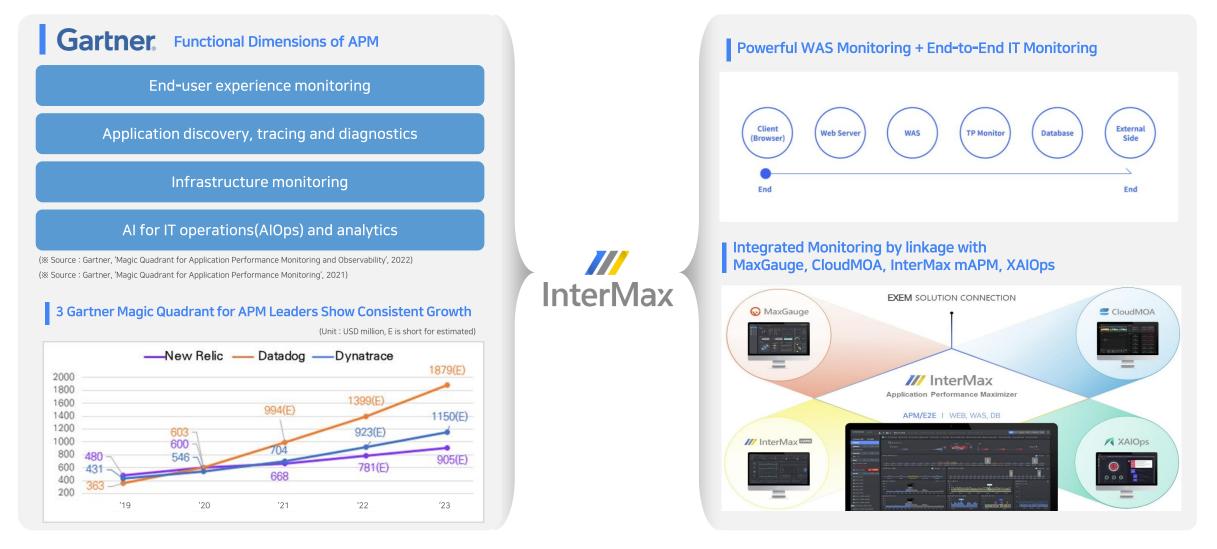
#### $\oslash$ References





Official mobile app (OnBid) performance status, immediate identification of problem areas, and detailed causes of exceptions and crashes

#### Increasing demand for End-to-end Monitoring of WAS Linking monitoring solutions is expected to boost cross-selling, bundling opportunities, and win-back.



() SPR 2022

2023

€IDC

Energy

## SEBIGS Big Data Management Platform for Hadoop Installation and Operation Management Solution



Integrated management platform for Hadoop cluster and data  $\bigotimes$ analysis

Hadoop Eco- based operating platform	Real-time big data performance monitoring	Multi-tenant data analytics	KEPCO big data operation and management platform
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#### STRENGTHS : Big data operation and management 'Multi-in-One' innovation

- [Accuracy] Real-time/post-monitoring and perfect traceability of Hadoop echo components
- [Completeness] Provide Big Data services including Data collection, storage, processing, analysis, visualization
- [Convenience] Convenience of WEB, Workflow-based data purification and batch operation
- [Analysis scalability] Provides advanced analysis environment by supporting multiple users and various analysis languages

#### $\oslash$ References





# **XAIOPS** Korea's first deep learning-based IT operation intelligence (AIOps)<sup>1)</sup> solution

2023 \$ 57i Gartner 2022



Korea's first deep learning-based AI technology-equipped IT  $\bigotimes$ operation intelligence solution

intelligent ano	etect malies e failure	Intelligent Alarm
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#### STRENGTHS: 24/7 non-disruptive IT operation support through intelligent monitoring

- [Accuracy] Deep learning-based accurate real-time anomaly detection, future load prediction
- [Complete] Precise root cause analysis by detecting parts that are difficult for humans to recognize
- [Convenience] Reduce MTTR<sup>2</sup>) by supporting failure detection, prediction, preemptive response, and guick recovery before failure
- [Extensibility] Provides a learning/prediction environment by supporting large-scale system data collection by various channels

#### References $\bigotimes$



Kdn KEPCO KDN

1)AIOps: Artificial intelligence for IT Operation 2) MTTR (Mean time to repair): is a maintenance metric that measures the average time required to troubleshoot and repair failed equipment.

## **CloudMOA** Cloud-native Architecture Integrated Management Solution





#### 



#### STRENGTHS : Cloud Architecture Monitoring 'All-in-One' Innovation

- [Accuracy] Large-scale integrated control and intuitive monitoring through multidimensional topology view
- [Complete] Supports service operation without failure through AI-based anomaly detection and sparse log analysis
- [Convenience] Automatic management of monitoring targets using container-based agent installation method
- [Extensibility] Perfect cloud environment support (Private, Public, Multi, Hybrid)

#### $\oslash$ References

## Plans to Strengthen Market Leadership in Big Data, AlOps, and Cloud Integrated Management

#### SEBIGS Digital platform secures opportunities for 500+ domestic customers amid gov's push and shift to paid foreign solutions

Budget and market growth for big data project with digital platform gov't implementation.

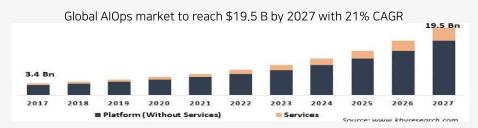
Predictive Administration Dat	a Ecosystem	Tailo	ored Service	s for the Public
Market Category	2018	2019	2020	CAGR ('19~'21)
Development and supply of big data integrated platform solutions	1,949	2,231	2,866	28.4%

(X Source : kdata, summary of '2021 data white paper)

Market opportunity due to full charge-up of Hadoop free distribution and Cloudera 1

Paid Solution	Price
CDH (Cloudera Distribution for Hadoop)	\$10,000/node
HDP (Hortonworks Data Platform)	\$10,000/node
CDP (Cloudera Data Platform)	\$10,000/node

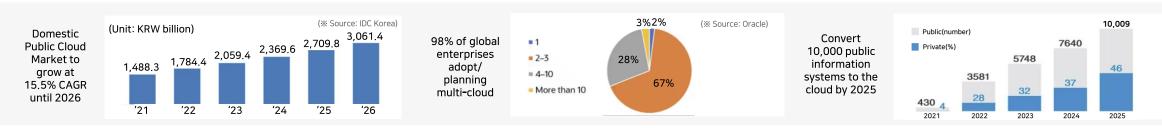
XAIOps Expected domestic market increase in adoption due to global financial and public demand for stable business/administration services



AlOps actively adopted in public admin, military, legal and healthcare overseas

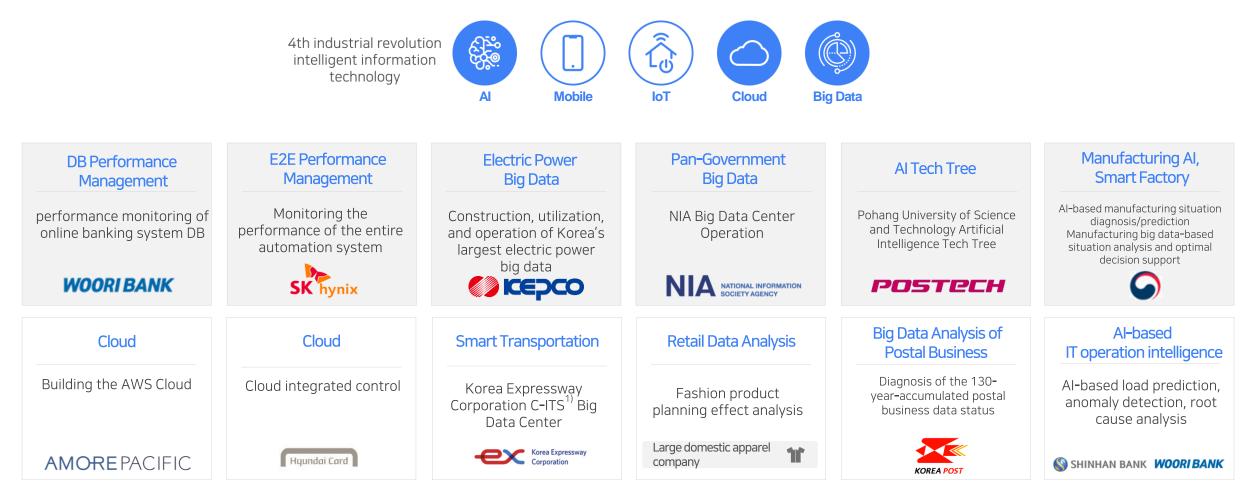
U.S. Department of Defense, Army/Air Force, NASA, Department of Homeland Security, Department of Agriculture, Department of Justice, Department of Health and Human Services, NASDAQ, New York City, various ministries/research institutes, Dutch courts, British Driver's Licensing Authority, Sweden's Bleking Regional Commission, UAE national health insurance company, Ministry of Electronics and Telecommunications Technology of India, Bahrain Electronics Authority…

#### **CloudMOA** Public/Private Cloud adoption to drive operational management efficiency solution utilization.



• • • • • • Consulting •

# Consulting Service : IT performance management/cloud/big data/artificial intelligence consulting through years of experience and methodology



1) C-ITS (Cooperative-Intelligent Transport Systems): C-ITS is a system that provides accident-related information such as traffic conditions, sudden stop, and fallen objects to the driver in real time.

## EXEM Academy : Maximize customer value through knowledge accumulation and sharing

#### **EXEM Books**

- Publishing professional technical books using the know-how of technical research and consulting experience A total of 25 books have been published since 2005.

#### EXEM TV

 Official IT Knowledge YouTube Channel EXEM TV educational content recorded more than 211,000 total online views EXEM seminar and webinar video sharing

#### **EXEM** Cartoon



- Easily understandable cartoons explaining
- complex and difficult IT knowledge and big data-related information





EXEM TV recorded more than 241,000 total video views

#### 25 books published

288 online education contents shared, more than 1,500 cumulative webinar viewers

Provided 1,250 hours, 250 offline lectures, and educational program to 5,598 people

#### Webinar



Online sharing service of high-quality IT expertise (Web + Seminar) Realistic practical training using video, audio, and chatting

#### **Educational Seminar**



 Lectures and seminars on key technologies and trends in the 4th industry for domestic industry, academia, and research institutes

\* 'Matchup' program, a short-term job certification course tailored to the Ministry of Education Operation of big data representative institutions and AI educational institutions ('18 05 ~ '21 03)

#### Posts



#### Independent content sharing through various technical contributions

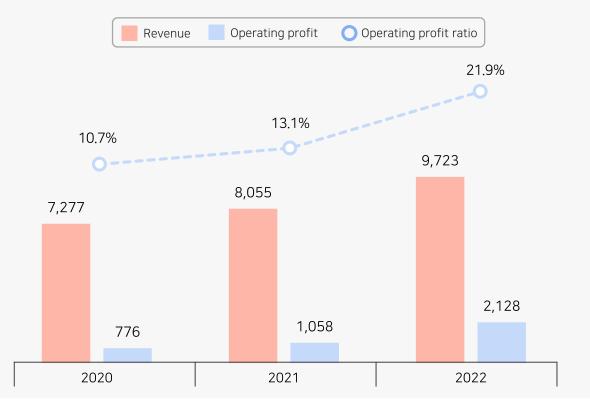
 Providing practical knowledge and various tips such as DB operation

## SINSIWAY Introduction (1/3)



- Established Date : 01/2005
- EXEM Ownership Stake : 50.24%
- Sales : 9.7 Billion KRW (End of. 022)
- Workforce: 72 (calculated in Mar.2023)
- Main Business Fields : DB Access Control, DB Encryption

Trends in sales and operating profit over the past 3 years (Unit : KRW million)

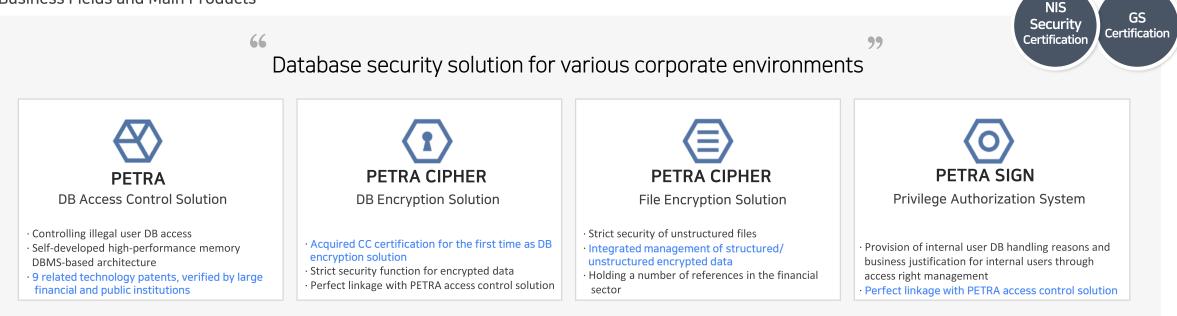


## SINSIWAY Introduction (2/3)

Milestones	
Current~ • 2019	<ul> <li>Business agreement for 'Smart Manufacturing Tech Development Project' with withfuture, aipim, aodata.</li> <li>Establishment of DB access control such as Nice Holdings and Nice evaluation information</li> <li>Establishment of DB access control for overseas financial companies such as IBK China Subsidiary, IBK Indonesia Subsidiary, Mandiri State Bank, etc.</li> <li>SK Securities DB access control and clarification approval (Petra Sign) establishment</li> <li>Signed a license agreement with Hyundai Card, Hyundai Capital, and Hyundai Commercial</li> <li>Petra Cipher v3.2 International CC Certification, GS Certification</li> </ul>
2018~ • 2015	<ul> <li>Securing the highest number of atypical cryptocurrencies in the financial sector (7 cases including Woori Bank, Woori Card, NH Nonghyup, IBK Industrial Bank</li> <li>Korea Electric Power Corporation DB security project order</li> <li>Secured 17 strategic partners</li> <li>DB access control solution Petra4 National Intelligence Service CC (EAL4) certification, GS certification</li> <li>Launched Petra Sign, a privilege authorization system</li> </ul>
2014~ 2012	- DB encryption solution Petra Cipher: National Intelligence Service CC (EAL4) certification first in Korea), GS certification acquired
2011~ • 2009	<ul> <li>- PETRA 3.1 release, GS certification</li> <li>- Establishment of next-generation NICE DB access control in 16 provincial education offices nationwide</li> <li>- Establishment of Jeju R&amp;D Center</li> <li>- Acquired INNO-BIZ certification</li> </ul>
2008~ • 2005	<ul> <li>Selected as a new technology IT product by KPIC(Korea Post Information Center)</li> <li>Released access control solution dGriffin v1.0, acquired GS certification</li> <li>Establishment of an affiliated research institute</li> </ul>

## SINSIWAY Introduction (3/3)

#### Business Fields and Main Products



#### Main Customers







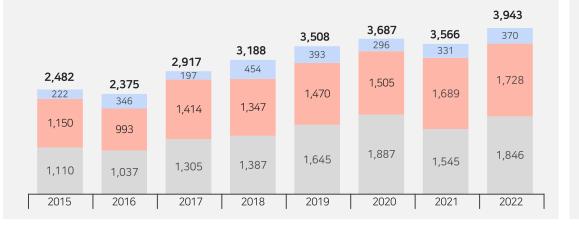
## Overseas Subsidiaries Over 200 global references in 29 countries across 4 continents.





Sales trend for the last 8 years (Unit : million KRW)

🔲 Japan 📕 China 📕 US



#### Overseas Business Expansion Strategy

#### ① Market Appeal based on Local Market Performance

Experience supplying performance solutions to 200+ large institutions/companies, including Chinese and Japanese financial institutions, mobile telecoms, and the LA State Government.

#### **(2) Expansion of Sales Partners**

Continued expansion of Japanese partners, including companies with more than 90 sales bases across Japan, has cooperative partners in Europe, the US, China, and Singapore

#### **③ Expansion of Supply Solution Lineup**

Expand our monitoring target DB and SaaS Solution besides MaxGauge for Oralce and InterMax.

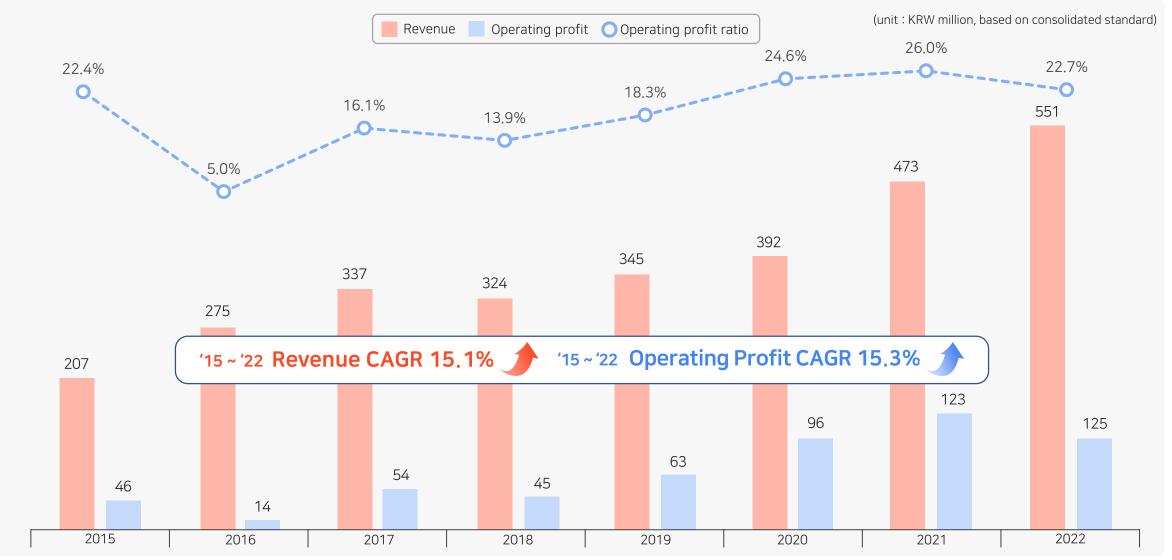
#### **④** Development and Provision of Local Specialized Services

Supplying 'Smart DBA' service, a remote DB performance diagnosis service due to lack of engineers in Japan and increasing demand for consulting/non-face-to-face

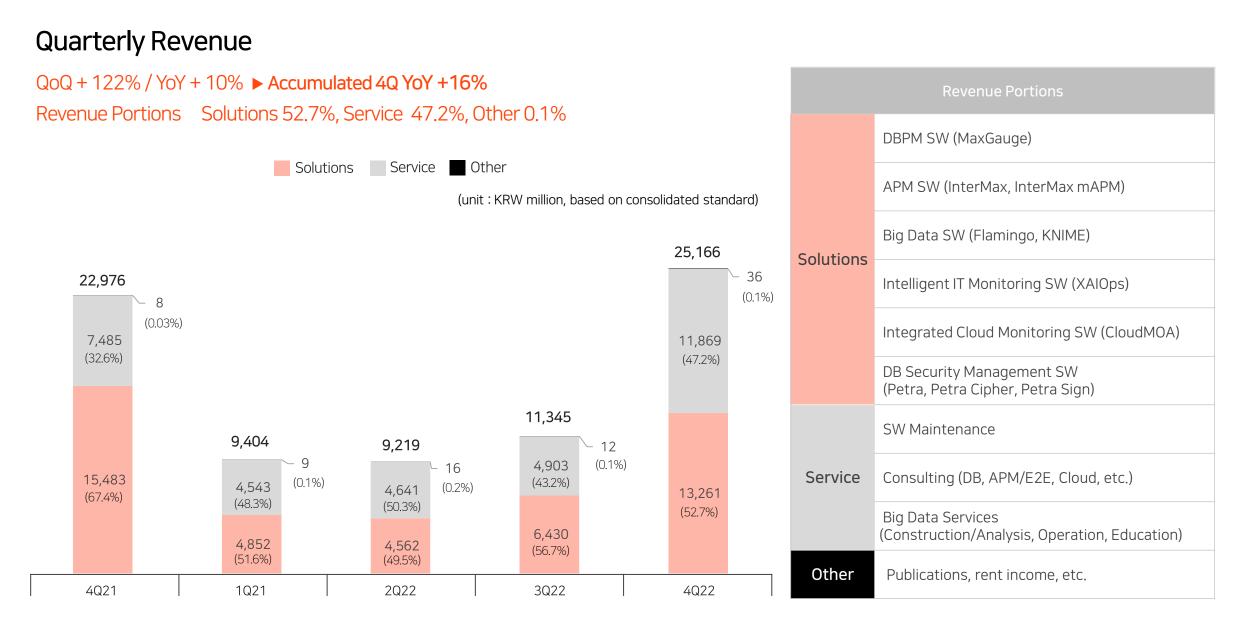
#### (5) Opportunities to Supply Solutions for Overseas Branches of Existing Domestic Customers

Securing continuous business opportunities when existing domestic customers establish overseas branches and factories

## Financial Statements (for the last 8 years)



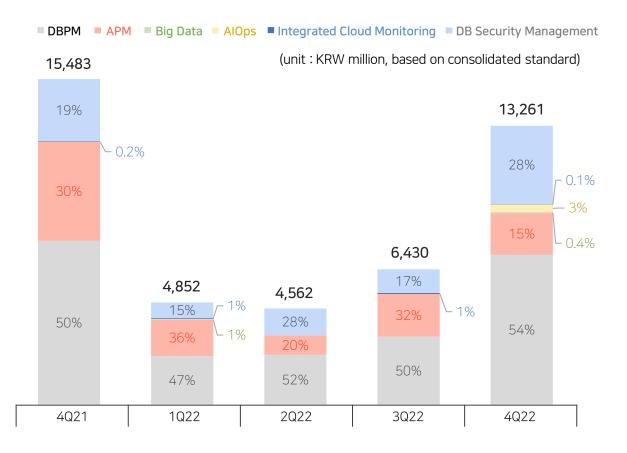
\* In FY2016, due to new expansion of big data business, increase in labor costs due to merger (125 people in 2015 → 200 people in 2016), and an increase in the proportion of cost of goods sold, the operating profit performance was slightly lower compared with sales of that year.



## **Quarterly Revenue Breakdown**

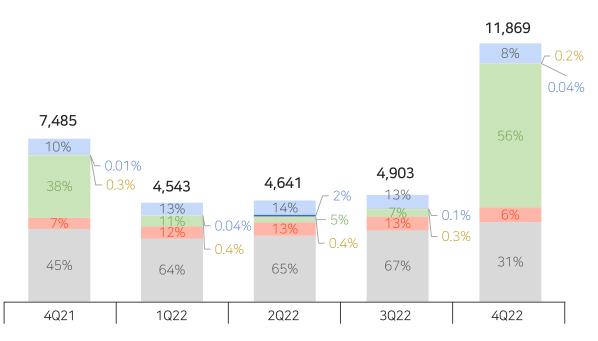
Solutions Segment QoQ +106% / YoY -14% ► Accumulated 4Q YoY +7% Service Segment QoQ +142% / YoY +59% ► Accumulated 4Q YoY +29%

#### Solutions



#### Service

DBPM = APM = Big Data = AlOps = Integrated Cloud Monitoring = DB Security Management (unit : KRW million, based on consolidated standard)



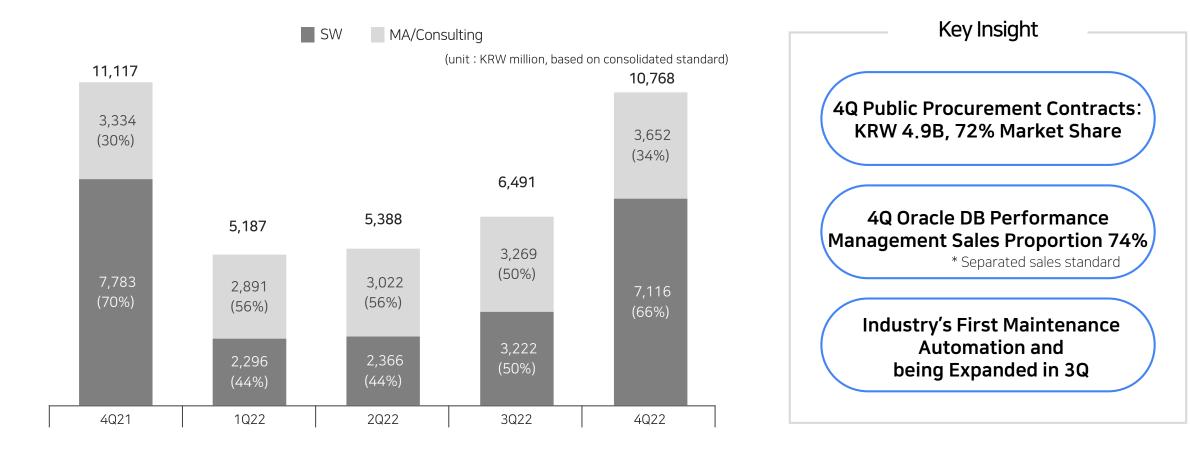
## DB Performance Management (DBPM) (Quarterly Revenue)

QoQ +66% / YoY -3% ► Accumulated 4Q YoY +9%

- SW Revenue QoQ +121% / YoY -9%
- Maintenance and Consulting QoQ +12% / YoY +10%

- Growth in Customer Base: 610 Cumulative References with 40 New Customers in 2022

- Maintenance Revenue Expansion due to New Customer Acquisition Continues



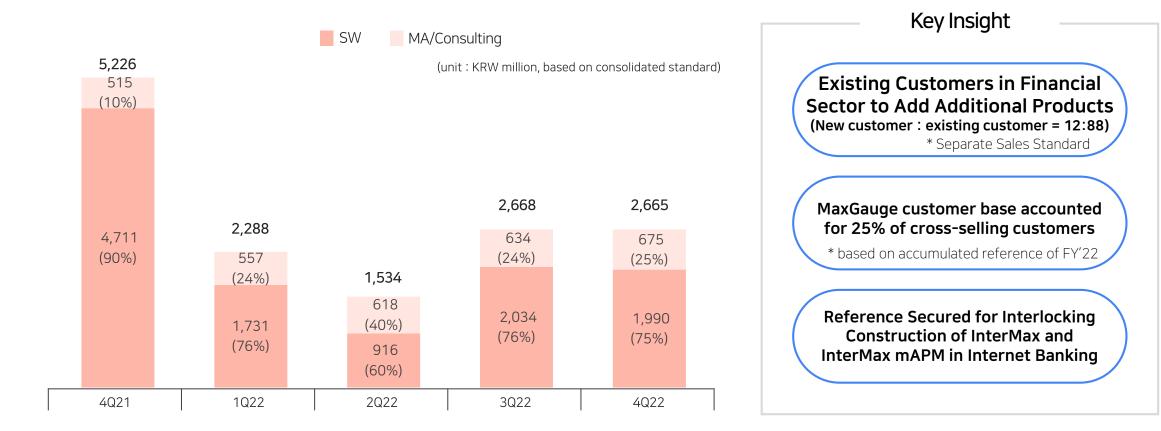
## Application Performance Management(APM) (Quarterly Revenue)

QoQ -0.1% / YoY -49% ► Accumulated 4Q YoY +9%

- SW Revenue QoQ -2% / YoY -58%
- Maintenance and Consulting QoQ +6% / YoY +31%

- Growth in Customer Base: 200 Cumulative References with 20 New Customers in 2022

- Maintenance Revenue Expansion due to New Customer Acquisition Continues



## **Big Data** (Quarterly Revenue)

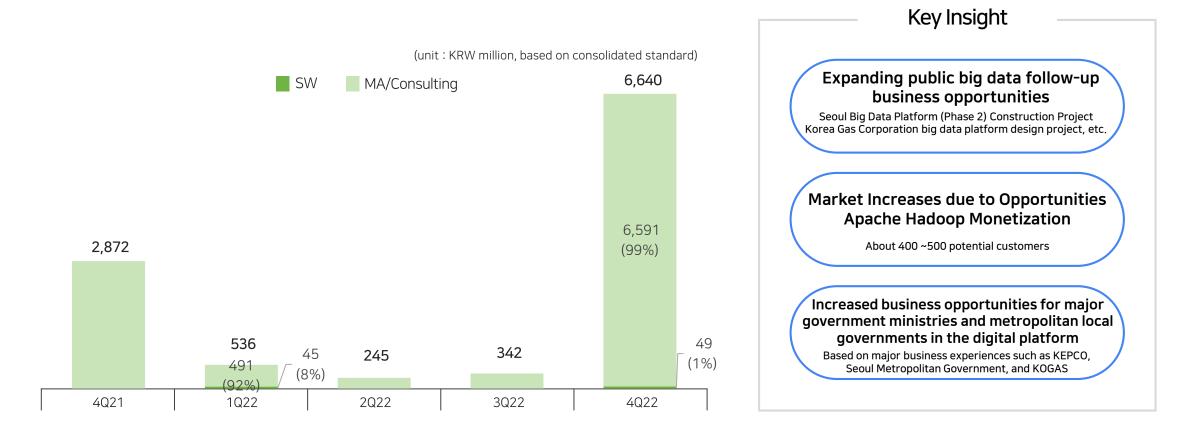
QoQ +1,842% / YoY +131% ► Accumulated 4Q YoY +83%

- Services Sales Dominated by Project-Type Business Orders

- Seoul City (22/06~23/03), Korea Gas Corporation (22/11~23/03) Contracts and Execution

Road Map

- Supplied EBIGS to Korea Institute of Energy Technology Evaluation and Planning and Gyeongbuk Provincial Government
- Conducted KEPCO MDMS project (22/03-22/11), all revenue recognized in 4th quarter



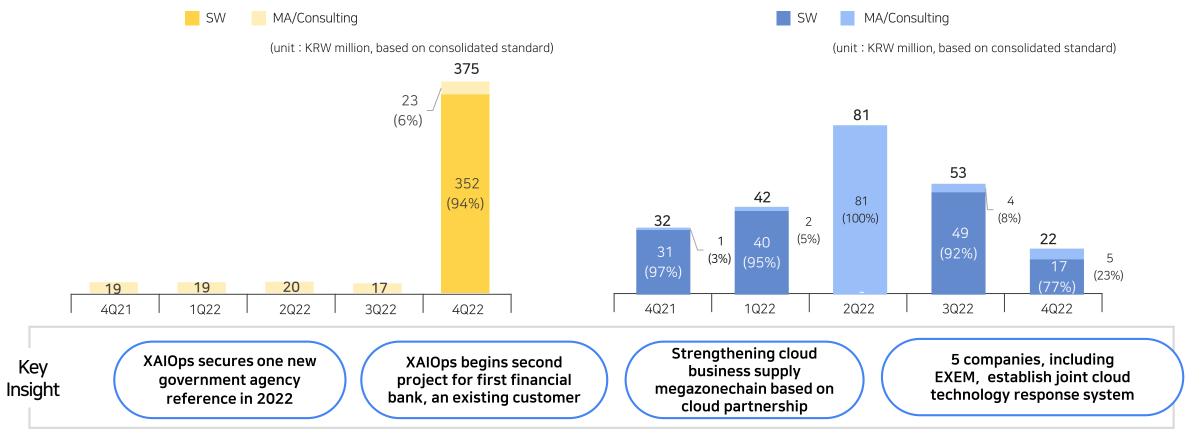
## Al-based Intelligent Monitoring (Quarterly Revenue)

QoQ +2,106% / YoY +1,874% ► Accumulated 4Q YoY -61% - Maintenance and Consulting YoY +21% / QoQ +35%

## Integrated Cloud Monitoring (Quarterly Revenue)

QoQ -58% / YoY -31% > Accumulated 4Q YoY +395%

- SW Sales QoQ -65% / YoY -45%
- Maintenance and Consulting QoQ +25% / YoY +400%

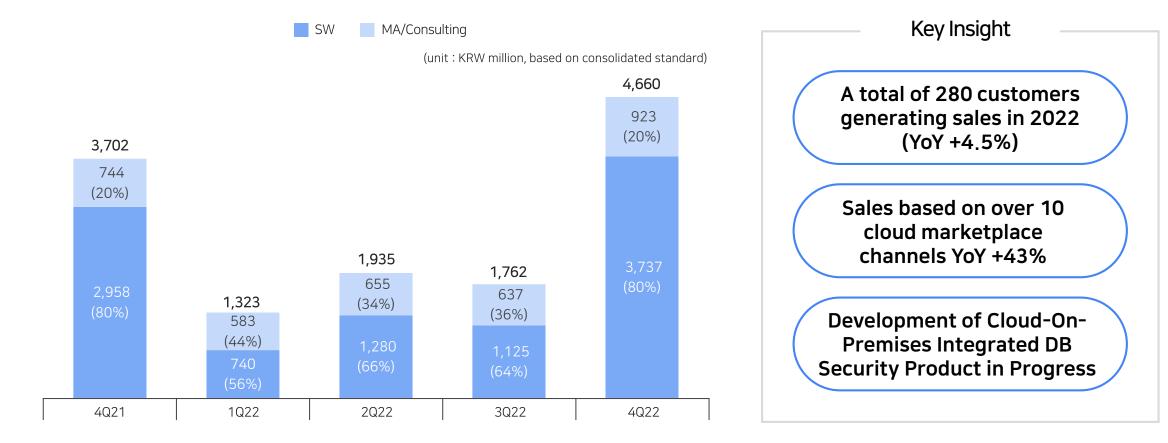


## DB Security Management (Quarterly Revenue) QoQ +164% / YoY +26% >Accumulated 4Q YoY +21%

- SW Revenue QoQ +232% / YoY +26%

- Maintenance and Consulting QoQ +45% / YoY +24%

- The only DB access control and DB encryption solution in the domestic cloud marketplace; Cloud marketplace sales continue to rise YoY +43%
- Revenue Growth Driven by Cloud Migration and Zero Trust Adoption Increase



## **Executive Summary**

(unit : KRW million, based on consolidated standard)

	4Q21	3Q22	4Q22	Percentage	e Change
	4921	3422	4922	YoY	QoQ
Revenue	22,976	11,345	25,165	10%	122%
Solutions (SW)	15,483	6,430	13,261	-14%	106%
MaxGauge	7,783	3,222	7,116	-9%	121%
InterMax	4,711	2,034	1,990	-58%	-2%
Flamingo/KNIME	-	-	49	-	-
XAIOps	-	-	352	-	-
CloudMOA	31	49	17	-45%	-65%
Petra	2,958	1,125	3,737	26%	232%
Service (MA/Consulting)	7,485	4,903	11,869	59%	142%
DB Performance Management	3,334	3,269	3,652	10%	12%
APM	4,771	634	675	31%	6%
Big Data*	2,872	342	6,591	129%	1,827%
Intelligent IT Monitoring	19	17	23	21%	35%
Integrated Cloud Monitoring	1	4	5	400%	25%
DB Security Management	744	637	923	24%	45%
Product, etc.	8	12	36	350%	200%
Operating Expenses	14,162	8,485	17,877	26%	111%
Operating Profit	8,814	2,860	7,288	-17%	155%
Operating Margin	38.4%	25.2%	29.0%	<i>-9.4%pt</i>	+3.7%pt
Consolidated Net Income	6,617	2,334	4,529	-32%	94%
Net Income at Controlling Equity	6,185	2,030	3,890	-37%	92%
Non-controlling Interests Net Income	432	304	639	48%	110%

\* Big data service figures include maintenance and consulting, as well as big data construction/analysis, operation, and training along with SW supply, and are classified as product sales only when SW is supplied alone.

## **Operating Expenses**

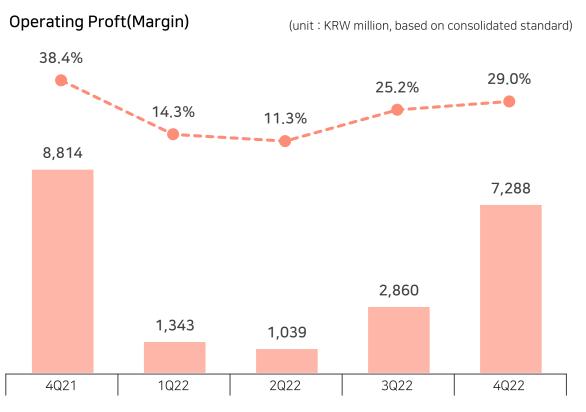
(unit : KRW million, based on consolidated standard)

	4Q21 3Q22		4Q22	Percentage Change		
		5422		YoY	QoQ	
Operating Expenses	14,162	8,485	17,877	26.2%	110.7%	
Personnel Expenses	7,568	5,444	6,662	-12.0%	22.4%	
Transportation Expenses	2	1	2	9.4%	103.4%	
Advertising Expenses	13	10	66	394.4%	540.4%	
Depreciation and amortization of intangible assets	286	267	711	148.2%	166.2%	
Bad Debt Expenses	(20)	(33)	28	-241.1%	-184.5%	
etc	6,313	2,796	10,409	64.9%	272.3%	

## Profit

- Personnel cost increase for employee recruitment and new product development
- Purchasing products in accordance with large-scale projects

## Operating Proft QoQ +155% / YoY -17%



## Net Income QoQ +94% / YoY -32%

Net Income and Net Profit Margin (unit : K

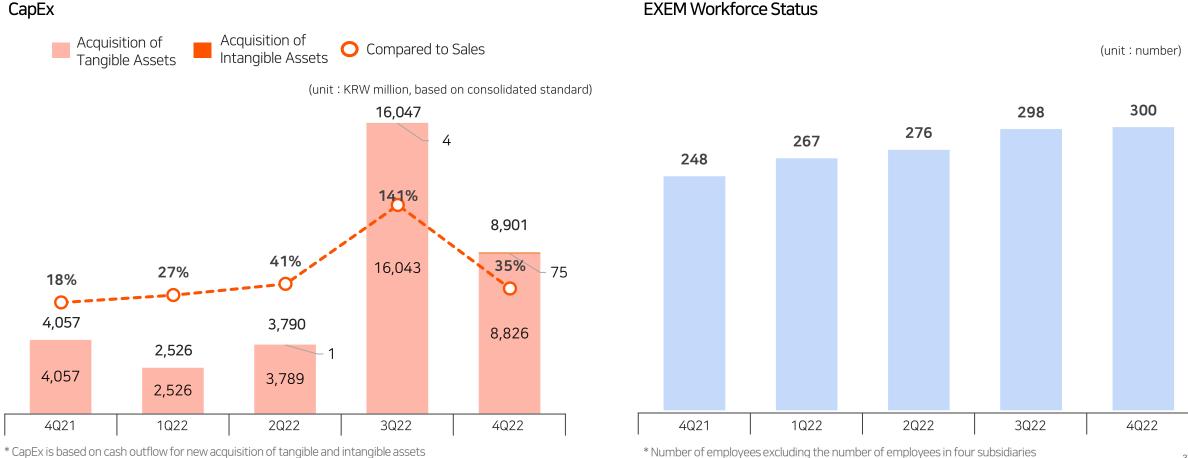
**'gin** (unit : KRW million, based on consolidated standard)



## CapEx / Workforce Status

CapEx QoQ -45% / YoY +119% Workforce QoQ +2 / YoY +52

- Increase in tangible assets due to the construction of the new building in Magok Area
- Recruitment continues to strengthen existing business sales and secure new business R&D/sales



#### **EXEM Workforce Status**

\* CapEx is based on cash outflow for new acquisition of tangible and intangible assets

## Financial and Income Statement for the Last 3 Years

Consolidated Financial Statement (unit: KRW million)						
	2020	2021	2022			
Current assets	52,994	64,049	44,894			
Non-current assets	41,388	48,260	74,127			
Total assets	94,382	112,309	119,021			
Current liabilities	9,000	19,215	16,075			
Non-current liabilities	4,819	1,332	1,513			
Total liabilities	13,819	20,547	17,588			
Capital stock	3,388	3,513	3,638			
Capital surplus	37,984	42,696	47,463			
Other components of equity	7,026	2,027	-2,972			
Accumulated other comprehensive inc ome	-586	-396	-443			
Retained earnings	26,730	37,460	46,121			
Non-controlling interests	6,021	6,461	7,626			
Total equity	80,563	91,762	101,433			

2020         2021           Revenue         39,178         47,330           Cost of sales         14,935         19,236           Gross profit         24,243         28,095	2022 55,133 24,550 30,584
Cost of sales 14,935 19,236	24,550
Gross profit 24,243 28,095	30,584
Operating profit 9,648 12,306	12,530
Net income 8,706 11,279	9,603
Profit attributable to owners of the 8,199 10,730 parent company	8,588
Profit attributable to non-controlling 507 549	1,015
Other comprehensive income for the y -42 286	29
Total comprehensive income for the y ear8,66411,564	9,632
Basic earnings per share(unit: KRW 248 321	245

## 4Q Financial and Income Statement (Consolidated)

nsolidated Financial Statement			(unit : KRW millio
	2020.12.31	2021.12.31	2022.12.31
Current assets	52,994	64,049	44,894
Cash and Cash Equivalents	34,324	37,232	24,63
Trade receivables and other current receivables	5,951	7,720	8,52
Other current financial assets	12,709	18,877	6,27
Current tax assets	11	10	1
Other current assets	172	210	97
Non-current assets	41,388	48,260	74,12
Equity methos investment quity	606	283	
Tangible assets	28,012	35,852	63,44
Invetment property	775	718	70
Goodwill	1,665	1,665	1,66
Intangible assets other than goodwill	2,511	2,656	2,22
Other non-current financial assets	6,365	5,611	4,19
Other non-current assets	-	-	1
Deferred corporate tax assets	1,454	1,474	1,88
Total assets	94,382	112,309	119,02
Current liabilities	9,000	19,215	16,07
Trade payables and other current payables	266	2,958	50
Other current financial liabilities	957	5,088	5,30
Other current liabilities	6,444	8,996	8,82
Accrued corporate tax	1,334	2,173	1,44
Non-current liabilities	4,819	1,332	1,51
Other non-current financial liabilities	4,009	603	73
Other non-current liabilities	373	329	41
Deferred corporate tax liabilities	437	400	36
Total liabilities	13,819	20,547	17,58
Capital attributable to the owners of the parent company	74,542	85,300	93,80
Capital	3,388	3,513	3,63
Capital surplus	37,984	42,697	47,46
Other components of equity	7,026	2,027	-2,97
Accumulated other comprehensive income	-586	-396	-44
Retained earnings(loss)	26,730	37,460	46,12
Non-controlling interest	6,021	6,461	7,62
otal capital	80,563	91,762	101,43
otal equity and liabilities	94,382	112,309	119,02

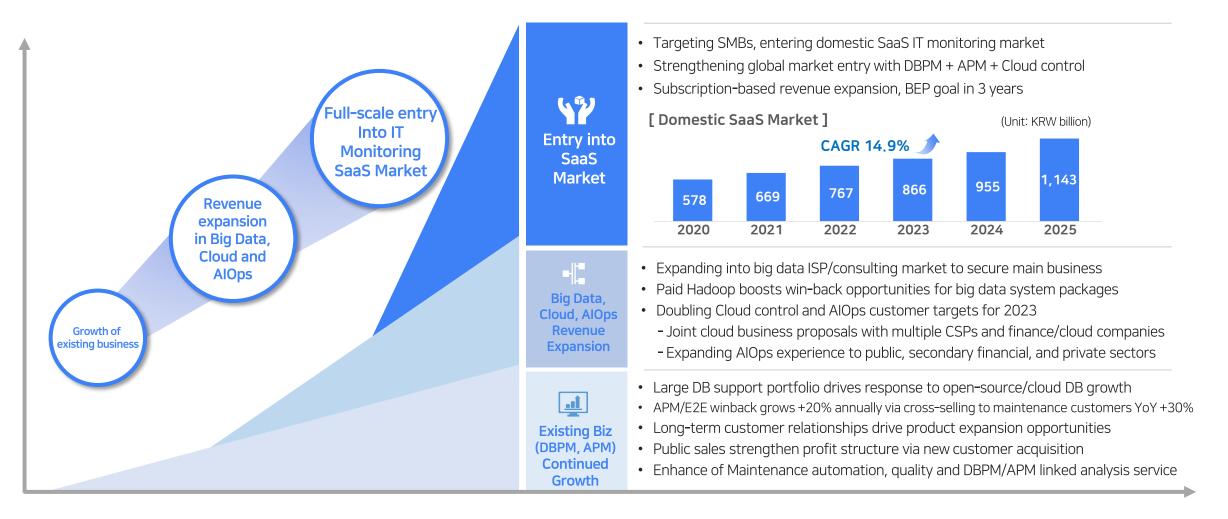
Consolidated Income Statement (unit : KRW milli						
	4Q 21	1Q 22	2Q 22	3Q 22	4Q 22	
Revenue(sales)	22,976	9,404	9,219	11,345	25,165	
Cost of sales	8,714	4,024	4,183	4,052	12,291	
Gross profit	14,262	5,379	5,036	7,294	12,874	
Selling and administrative expenses	5,468	4,067	3,990	4,466	5,559	
Bad debt expenses	-20	-31	8	-33	28	
Operating profit(loss)	8,814	1,343	1,039	2,860	7,288	
Other profit	55	32	23	19	30	
Other losses	273	19	122	-22	563	
Financial Profit	56	486	416	613	-177	
Finance cost	697	375	988	440	1,598	
Equity method gain(loss)	87	10	83	-47	-46	
Net income before income tax(loss)	8,043	1,477	451	3,027	4,994	
Corporate tax	1,426	-655	-156	692	465	
Net income(loss)	6,617	2,132	608	2,334	4,529	
Other comprehensive income	50	40	131	32	-174	
Items not reclassified to profit or loss (other comprehensive income after tax)	4	17	105	-92	-105	
Items that can be reclassified to profit or loss (other comprehensive income after tax)	46	23	25	124	-69	
Total comprehensive income	6,667	2,172	738	2,367	4,354	
Attribution of net income(loss)						
Net profit (loss) attributable to the owners of the parent company	6,185	2,180	488	2,030	3,890	
Net income (loss) attributable to non-controlling interests	432	-48	119	304	639	
Attribution of total comprehensive income						
Total comprehensive income, equity attributable to owners of parent company	6,219	2,214	576	2,102	3,722	
Total comprehensive income, non-controlling interests	448	-42	162	264	633	

## 4Q Financial and Income Statement (Separate)

Financial Statement		(Unit: KI			
	2020.12.31	2021.12.31	2022.12.31		
Current assets	43,712	52,464	31,796		
Cash and Cash Equivalents	30,873	31,793	16,535		
Trade receivables and other current receivables	3,097	5,024	5,132		
Other current financial assets	9,742	15,613	4,786		
Other current assets	19	35	872		
A group of non-current or disposal assets classified as held for sale or for distribution to owners	-	-	4,471		
Non-current assets	35,096	42,552	68,705		
Investments in subsidiaries, joint ventures and associates	6,011	5,736	5,451		
Tangible assets	22,710	31,252	58,379		
Investment property	496	-	-		
Goodwill	100	100	100		
Intangible assets other than goodwill	339	637	507		
Other non-current financial assets	4,661	4,003	2,811		
Deferred corporate tax assets	780	824	1,458		
Total assets	78,808	95,016	100,501		
Current liabilities	6,608	12,623	10,488		
Trade payables and other current payables	103	2,602	84		
Other current financial liabilities	290	1,408	3,103		
Other current liabilities	4,999	6,527	6,036		
Accrued corporate tax	1,216	2,086	1,265		
Non-current liabilities	375	415	604		
Other non-current financial liabilities	28	120	295		
Other non-current liabilities	348	295	309		
Total liabilities	6,983	13,038	11,091		
Capital					
Capital	3,388	3,513	3,638		
Captial surplus	37,779	42,653	47,522		
Other components of equity	7,026	2,027	-2,972		
Accumulated other comprehensive income	-556	-524	-484		
Retained earnings(loss)	24,188	34,309	41,705		
Total capital	71,825	81,978	89,410		
Total equity and liabilities	78,808	95,016	100,501		

Income Statement (Unit : KRW millio						
	4Q 21	1Q 22	2Q 22	3Q 22	4Q 22	
Revenue(sales)	18,189	7,451	6,532	8,974	19,470	
Cost of sales	7,162	3,399	3,402	3,663	10,414	
Gross profit	11,027	4,052	3,130	5,311	9,056	
Selling and administrative expense	3,347	2,556	2,614	2,897	3,522	
Bad debt expenses	-1	2	3		3	
Operating profit(loss)	7,681	1,493	513	2,413	5,531	
Other profit	1	28	22	17	9	
Other losses	259	19	122	-23	566	
Financial profit	39	444	394	409	8	
Finance cost	665	344	925	371	1,529	
Net income(loss) before corporate tax expenses	6,797	1,602	<del>-</del> 117	2,491	3,454	
Corporate tax	1,249	-658	-162	757	97	
Net income(loss)	5,548	2,261	45	1,734	3,356	
Other comprehensive income		24	32	55	-71	
Items not reclassified to profit or loss (other comprehensive income after tax)		24	32	55	-71	
Total comprehensive income	5,548	2,284	77	1,790	3,285	

#### **ROADMAP** Sales Expansion Through Strong Product Portfolio Connectivity with Existing and New Solution Customers Continuous Revenue Expansion Strategy: Targeting Small and Medium-sized Markets with 'DataSaker' Subscription SaaS Product



## X

# Thank you

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# Q&A

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