



Investor Relations

Next Inspection Solutions for Semiconductor Applications

December 21st, 2021

Chris Park / CEO

면책 선언



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Agenda



Wafer Inspection Equip. Market

Company Outlook

Technology Originality

Future Strategy

Q&A

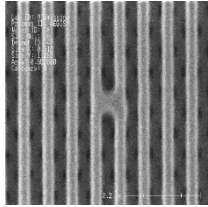
Wafer Inspection Equipment Market

NEXTIN brings Competition into the Wafer Inspection Market !!!

Playground of NEXTIN

(Optical)
Inspection
System

Detecting pattern defects and particles @ wafer fabrication



NEXTIN
S o l u t i o n s



반도체 검사 장비 (inspection or test @ semiconductor manufacturing)

(Electrical)
Tester

Testing electrical functionality @ chip package process



YIKC

EXICON

Uni Test

INSIGHT DI



Machine
Vision

Detecting abnormal placement @ assembly process

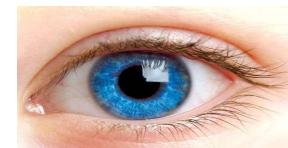


HANMI 한미반도체

INTEK-PLUS
Integrated Measurement System

KOH
YOUNG
TECHNOLOGY

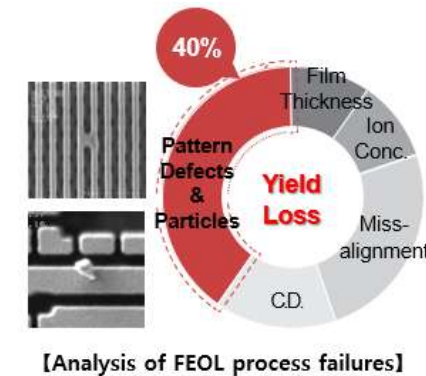
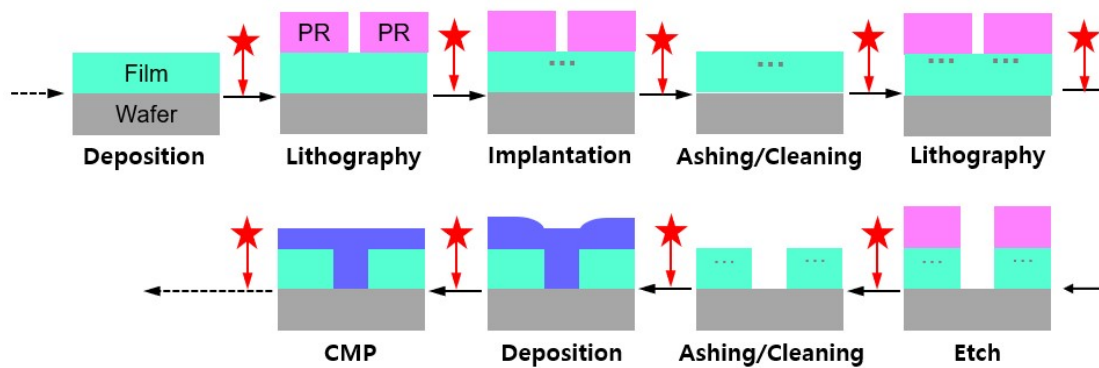
MIRTEC



NEXTIN
S o l u t i o n s

KOREA INVESTMENT FESTIVAL 2021

Wafer Inspection Process

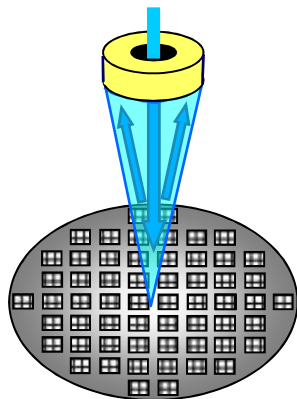


- Wafer inspection process is detecting pattern defects and particles generated on wafers during each unit process of front-end manufacturing
- Unpredictable and major yield-loss factors are pattern defects and particles

Wafer Inspection Systems

- Wafer inspection equipment comprised 6.93% of the overall market share in 2018
- E-beam inspection system(<18%) vs. Optical inspection system(>82%) in 2018
- NEXTIN plays at dark-field tool market and plans to jump in BF and macro market

Optical inspection systems.: Mix-and-match solution (Sensitivity vs. Speed)

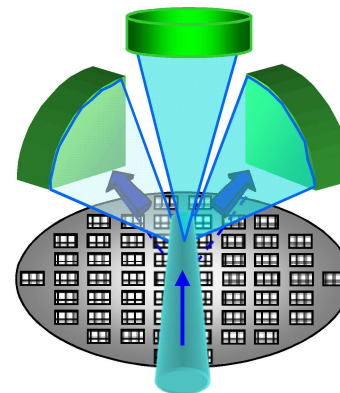


Bright-field Tool

- Reflection Beam
- DUV Illumination
- Highest Sensitivity
- Lowest Throughput
- KLA Price: \$18M
- AMAT Price: \$10M

Dark-field Tool

- Scattered Beam
- UV Illumination
- Medium Sensitivity
- Higher Throughput
- KLA Price: \$9M
- Hitachi Price: \$3M
- NEXTIN Price:

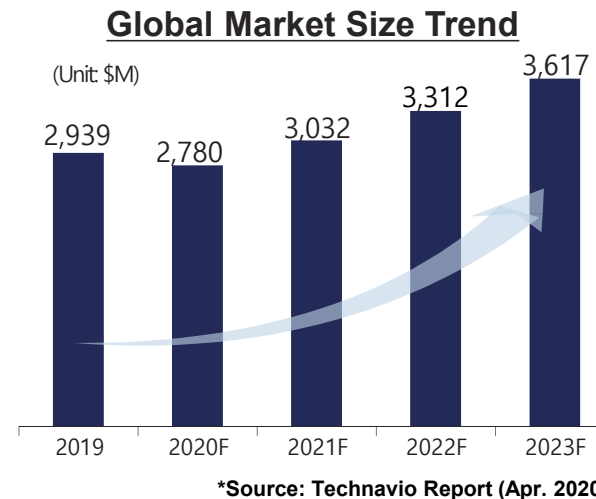
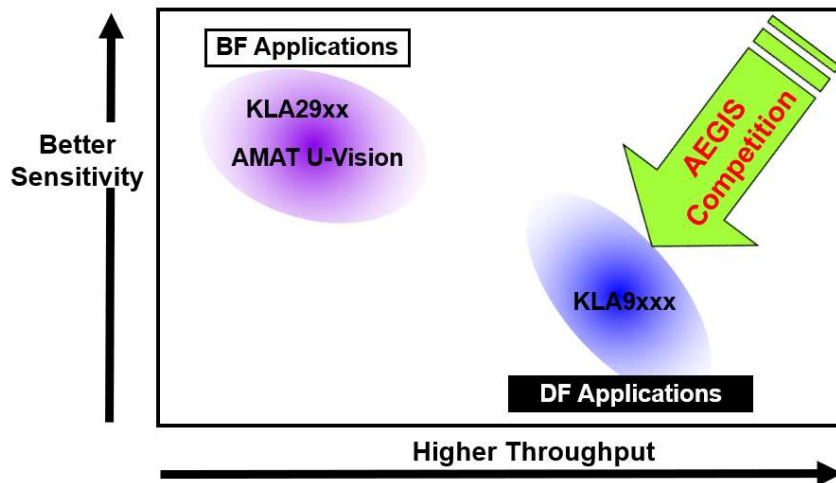


Macro Tool

- Reflection Beam
- Visible Illumination
- Lower Sensitivity
- Highest Throughput
- KLA Price: \$2M
- Rudolph Price: \$1.5M

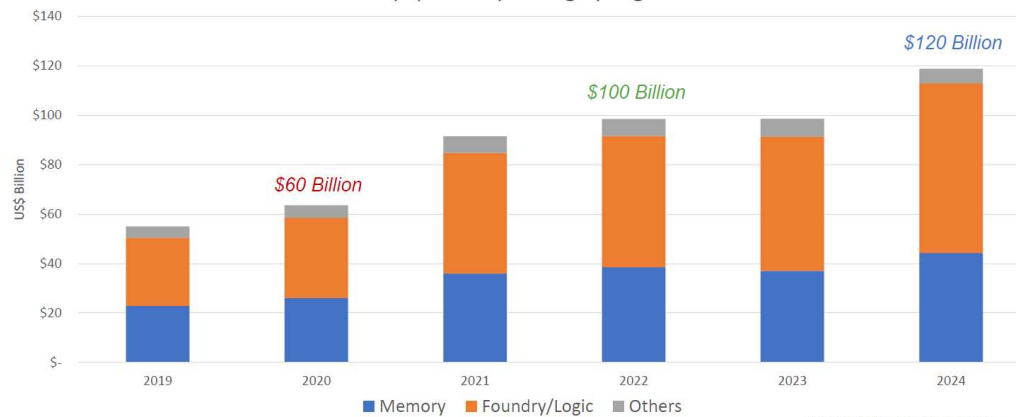
Optical Inspection Equip. Market

- Global optical patterned inspection equip. market size: \$2.9B (2019) → \$3.6B (2023)
- Korea market: ~17.2% of global market (\$520M @ 2018)
- China market: ~ 13.5% of global market (\$408M @ 2018)
- Global market shares (based on revenue): BF(50%), DF(40%), Macro(10%)
 - Overseas DF equip. M/S(2020): KLA(>97%) vs. NEXTIN(<3%)
 - Local DF equip. M/S (Memory): KLA(>60%) vs. Hitachi(<30%) vs. NEXTIN(<10%)
 - Local DF equip. M/S (Foundry): KLA(>95%) vs. NEXTIN(<5%)

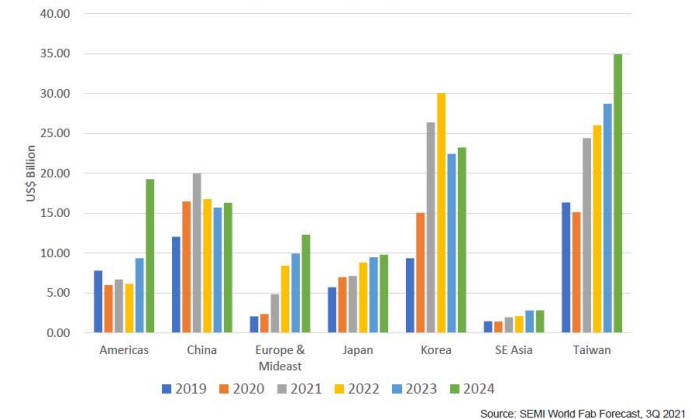


Market Trend – SEMI, 3Q 2021

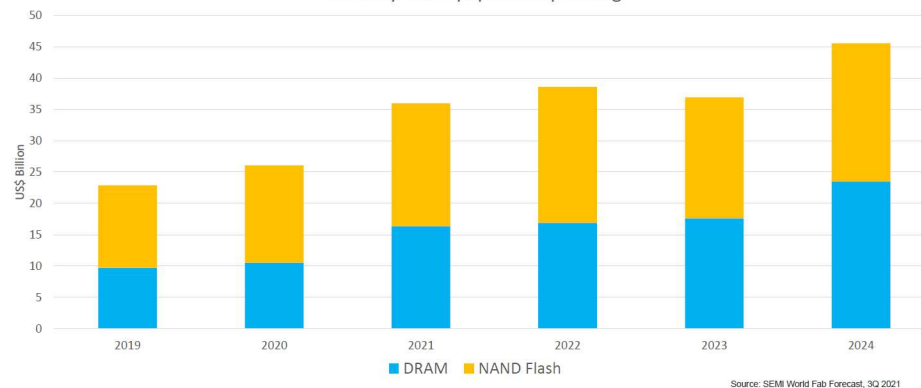
Fab Equipment Spending by Segments



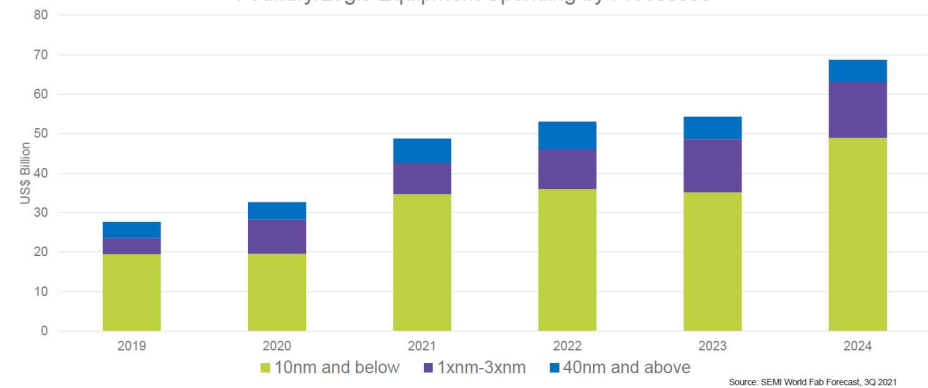
Fab Equipemnt Spending by Region



Memory Fab Equipment Spending



Foundry/Logic Equipment Spending by Processes



Company Outlook

NEXTIN brings Competition into the Wafer Inspection Market !!!

Company Highlight

COMPANY HISTORY

July 2010 NEXTIN established
Nov. 2012 Israel R&D Center set up
Oct. 2014 AEGIS inspection system released (Fraunhofer R&D)
Oct. 2015 Strategic investment agreement with AP Systems
June 2017 ISO9001 Quality Management System Certification
Oct. 2020 IPO at KOSDAQ (100th innovative tech company)

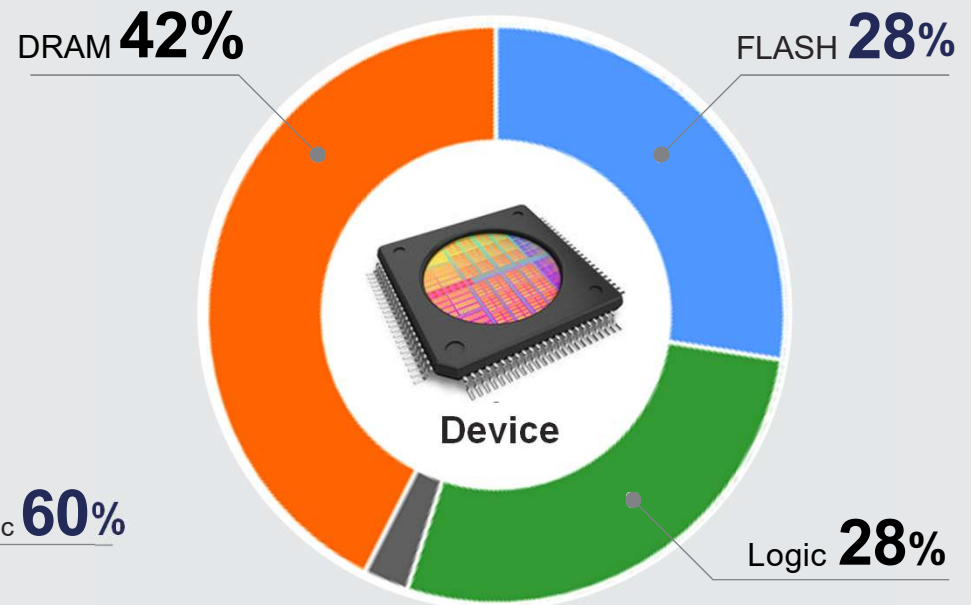
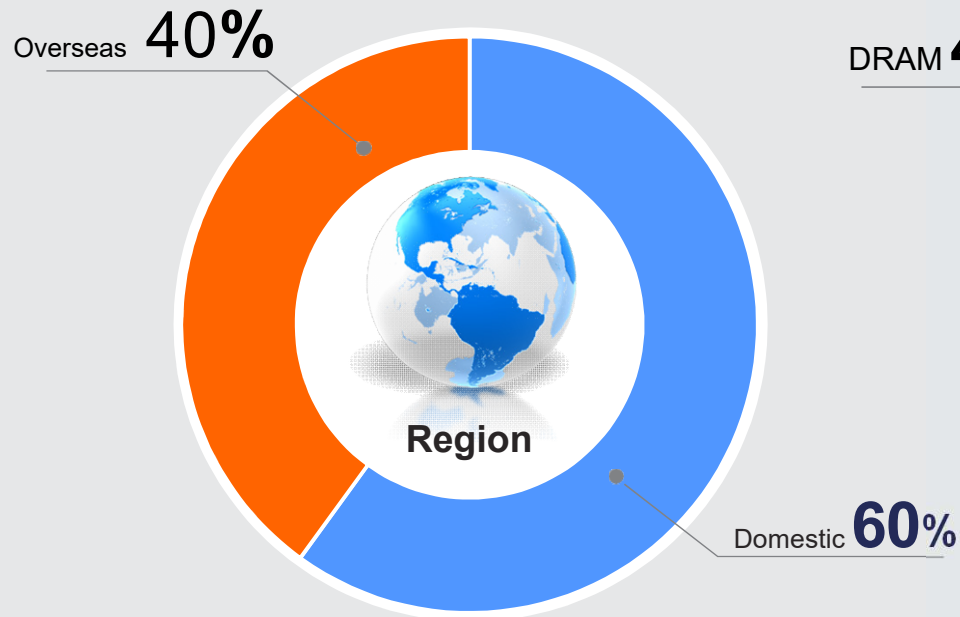
AWARDS

Designated as Innovative Tech company by Samsung (2014)
Received Jang Young Sil Tech Awards (2014 & 2017)
Selected as Top 100 Small Giant in Materials, Components & Equipment Sector (2019)
Selected as Excellent R&D and Global Small Giant 200 (2020)
Received National Industry Award (2021)
Received \$20M Export Award(2021)



Install Base (2021. 12. 21)

Cumulated Install Base



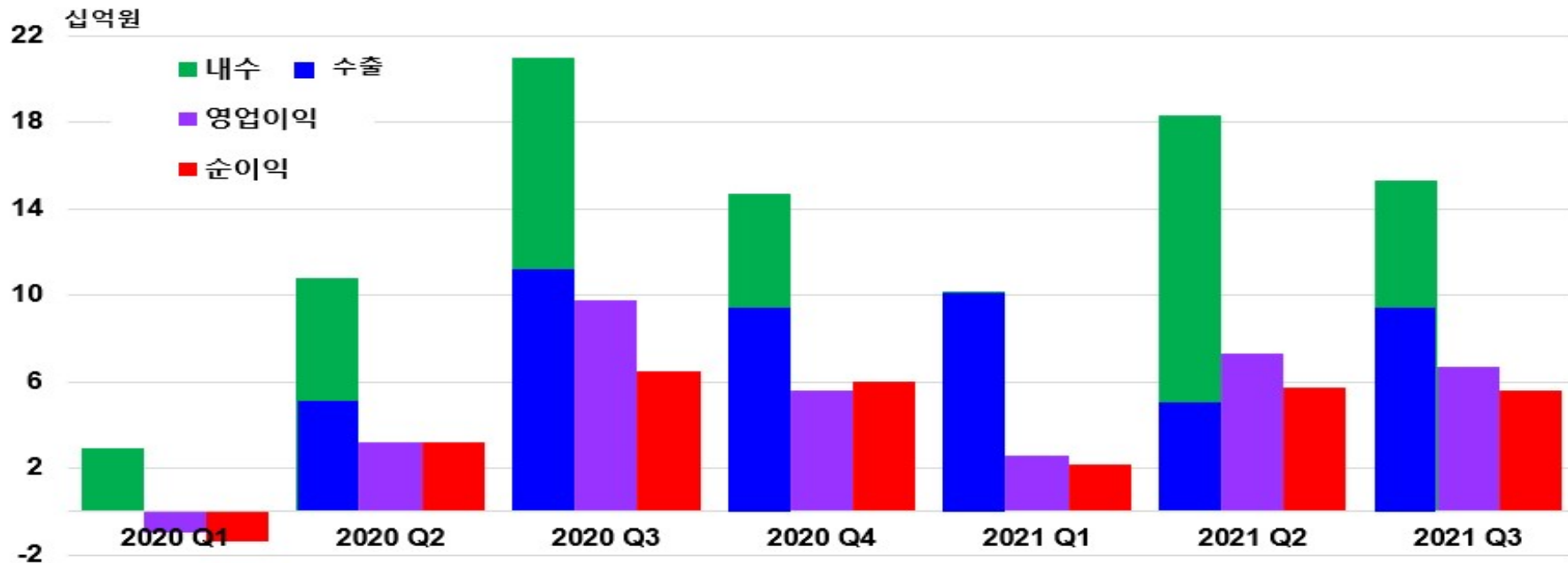
— Major Customers —



2021 Q3 Cumm. Operation Result

단위: 억원

	매출액	영업이익(율)	순이익(율)	인당매출액	인당순이익
2021Q3(누적)	435	170	139	6.9	2.2
2020Q3(누적)	347	124	66	6.8	1.6
증감율	▲25%	▲36%	▲111%	▲2%	▲34%



Financial Statements (2021 Q3 누적)

B/S

(단위:백만원)

과 목	2018	2019	2020	2021.3Q
유동자산	14,240	14,699	45,336	57,207
비유동자산	4,795	3,767	8,923	14,858
자산총계	19,035	18,466	54,259	72,065
유동부채	11,569	15,323	7,638	9,839
비유동부채	4,127	1,705	734	1,062
금융부채	(8,762)	(9,114)	(117)	(0)
부채총계	15,696	17,028	8,372	10,901
자본금	1,132	1,170	1,580	4,782
이익잉여금	(10,684)	(13,397)	973	24,878
기타자본	12,891	13,665	43,334	31,504
자본총계	3,339	1,438	45,887	61,164

주:K-IFRS 연결재무제표 누적 기준

I/S

(단위:백만원)

과 목	2018	2019	2020	2021.3Q
매출액	12,929	9,394	49,445	43,520
매출원가	7,769	5,136	19,577	17,669
판매비와관리비	5,575	6,017	11,769	8,868
영업이익	(415)	(1,759)	18,099	16,983
영업외수익	4,630	555	446	1,554
영업외비용	4,410	1,275	4,363	682
법인세비용	34	118	(530)	3,950
당기순이익	(229)	(2,597)	14,712	13,905

주:K-IFRS 연결재무제표 누적 기준

Financial Statements(2021 Q3 누적)

(단위:백만원)

구 분	누적 QoQ			
	2021.3Q	2020.3Q	Change	%
매출액	43,520	34,701	8,819	25.4%
매출총이익	25,851	20,756	5,095	24.5%
판매관리비	8,868	8,323	545	6.5%
영업이익	16,983	12,433	4,550	36.6%
당기순이익	13,905	6,574	7,331	111.5%

Social Responsibility

YONHAP NEWS AGENCY

S. Korea to raise 400 bln won for tech innovation fund

All News · 11:00 March 22, 2021

SEOUL, March 22 (Yonhap) -- South Korea said Monday it plans to raise 400 billion won (US\$354 million) through 2024 to support businesses seeking to innovate their products and services by utilizing high-end technologies.

The first batch of the digital technology innovation fund, amounting to 102 billion won, will be rolled out throughout this year, according to the Ministry of Trade, Industry and Energy.

The fund, raised jointly by the public and private financial institutions, will be used to help businesses harnessing artificial intelligence, Internet of Things, cloud computing, big data and mobile technologies.

It will be managed by L&S Venture Capital and KDB Capital Corp.



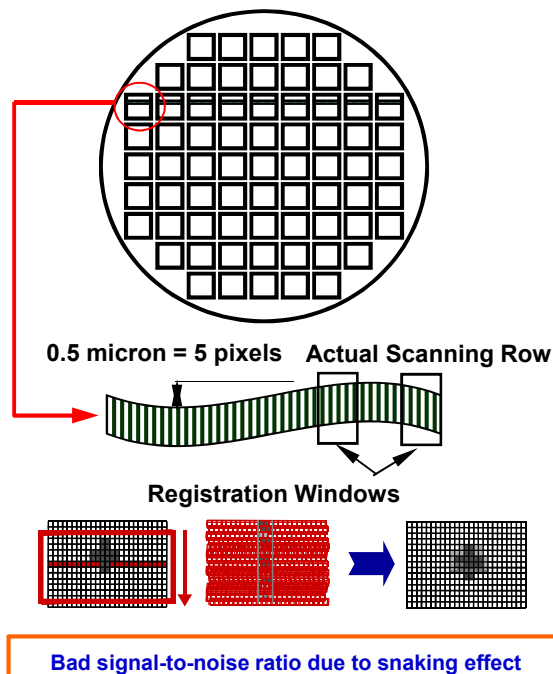
Technology Originality of NEXTIN

NEXTIN brings Competition into the Wafer Inspection Market !!!

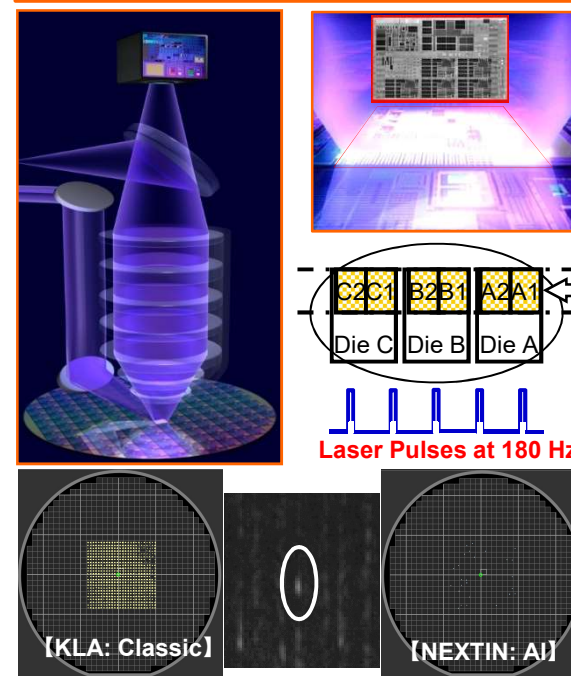
Originality of NEXTIN Tech: AEGIS

- World's first and only 2D Imaging Tech-based Inspection: With multiple sensors, simultaneous wide-area imaging technology through spatial-partition of lights (DF & BF)
- Implementation of A.I. (Deep Learning) algorithms: Enhancement of selective detection of critical process defects

[KLA: 30-Year old spot scanning technology]



[NEXTIN: Innovative 2D-Imaging Technology]



AEGIS Evolution



AEGIS-II
(Higher Performance Optics)
in 2020



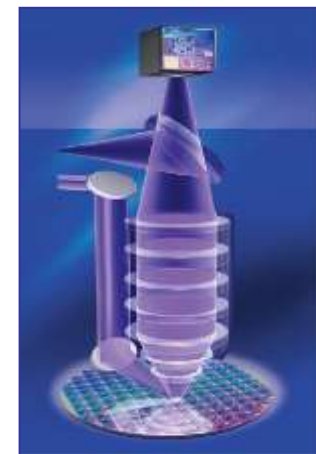
AEGIS-DP
(New IP Engine)
in 2018



AEGIS-XT
(Higher X-put)
in 2016



AEGIS
(2-Dim. Imaging System)
in 2014

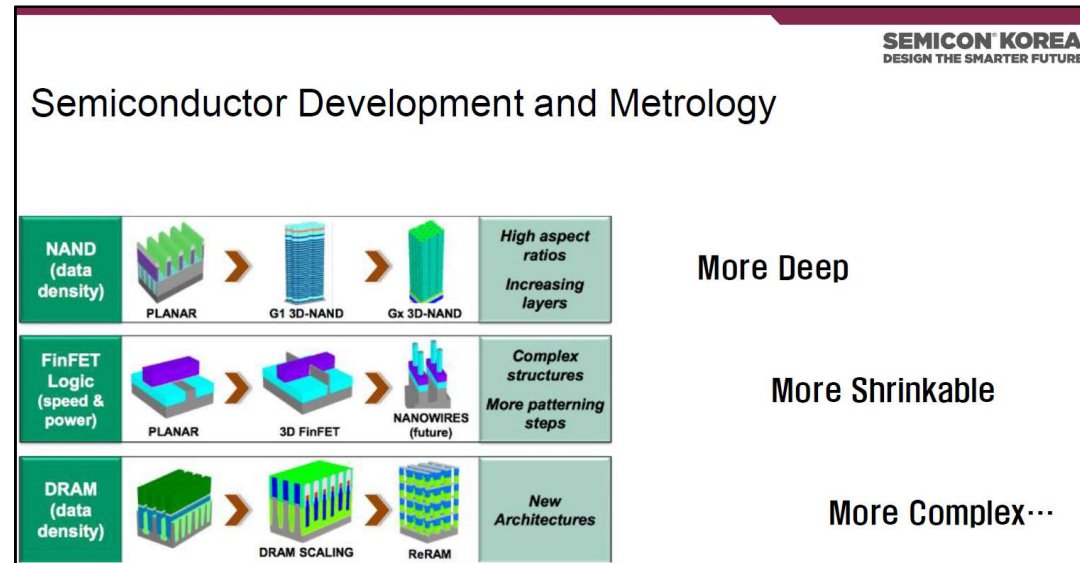
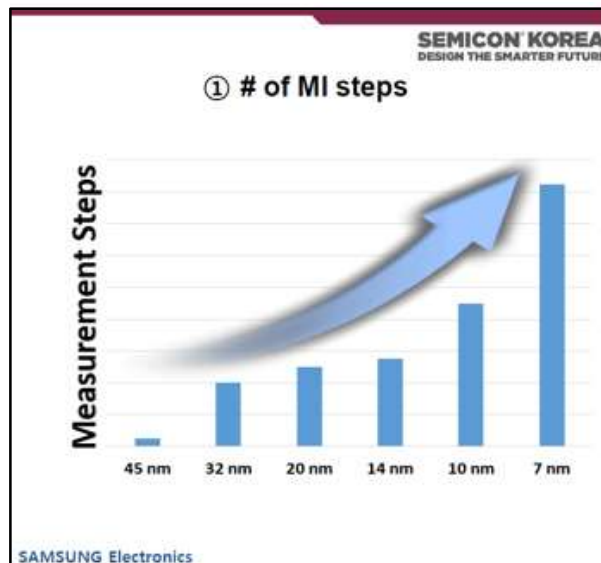


Future Strategy

NEXTIN brings Competition into the Wafer Inspection Market !!!

Market Requirements

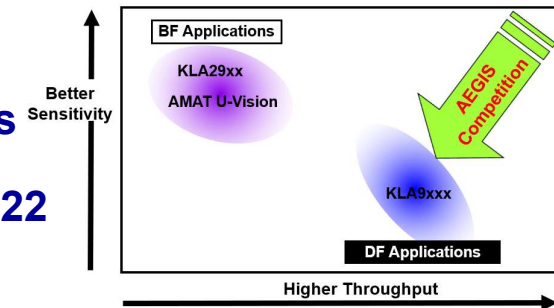
- The importance & frequency of wafer inspection is being increased in yield management as device manufacturing process is getting harder
- New processes for 3-dimension devices require new wafer inspection tools which can detect defects in vertical structures



* MI FORUM(Samsung & SK Hynix) @ 2021 SEMICON KOREA

2D Process Applications

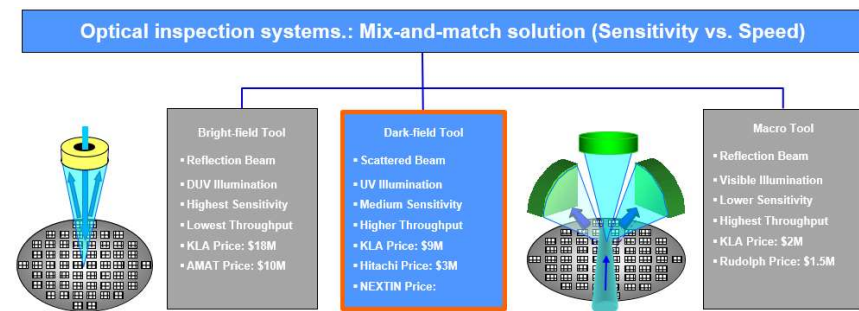
- Keep competitive position and get new customers
 - The new model(AEGIS-II) contributes profit improvement
 - SMIC became new customer and brings Chinese customers
 - The next model(AEGIS-III) will bring competitive edge in 2022
 - China JV will bring more price advantage in China market



- Develop DUV BF equipment for higher-margin market penetration
 - NEXTIN already reserved UV bright-field inspection technology

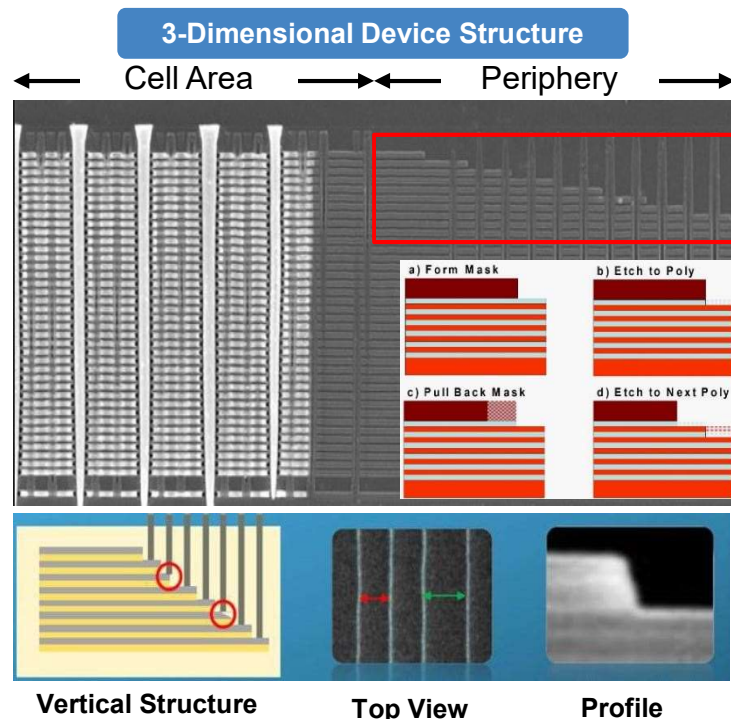
- Fanout existing technology to the niche market b/w DF and macro

- Sensitivity of macro tools are behind of customers' requirement



3D Process Application

- Intel proposed a 3D structure to overcome physical limitations of 2D scale-down
- NIST proposed a TSOM concept to overcome existing inspection limitations for 3D structure inspections
 - 2D imaging tech-based with vertical scanning tech limitations (accuracy, speed...)
- NEXTIN & Intel co-developed simultaneous multiple non-focal plane insp. tech. (IRIS-II)





Thanks You!!

NEXTIN brings Competition into the Wafer Inspection Market !!!