



HEXAGON LIVE

Innovation Summit
3 September 2025 | Korea

정밀 측정과 스마트 디지털 트윈의 미래

2025. 9. 3(수) | aT센터 그랜드홀(5층)





Welcome to Hexagon Live Innovation Summit Korea 2025

정밀 측정과 스마트 디지털 트윈의 미래

Boon Choon Lim
President: ASEAN Pacific Korea

헥사곤 소개



50
countries

€5.4bn
Revenue

6,500
R&D employees

~24,800
Employees

16%
of revenues
for R&D

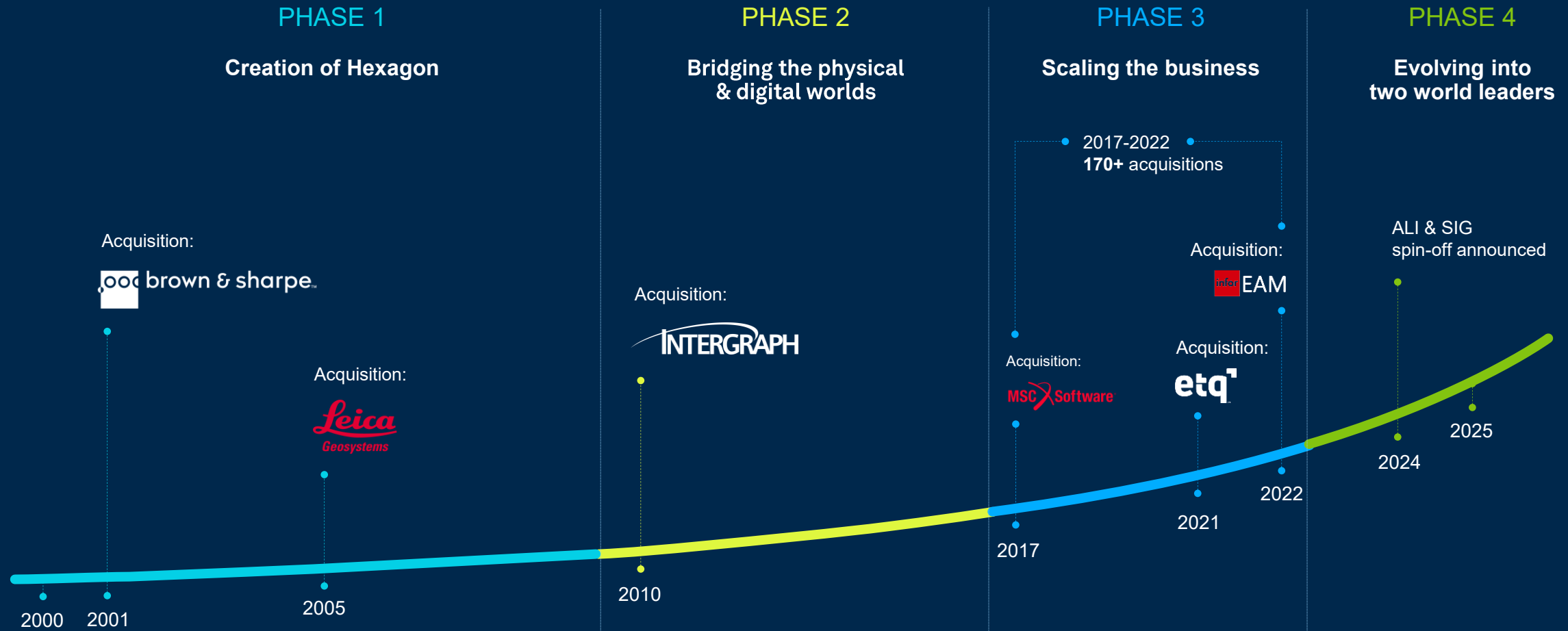
200+
acquisitions over
20 years

*2024

Our impact on the world

From microns to Mars, our solutions drive productivity, quality, safety and sustainability across Aerospace, Agriculture, Automotive, Construction, Manufacturing and Mining.

축적된 측정 기술의 역사



제조 혁신과 삶의 질 향상

우리는 제조업체가 혁신을 가속화하고 더 나은 현실을 만들며
모두의 삶의 질을 향상시킬 수 있도록 기술을 제공합니다

We are committed to



Delivering
innovation



Empowering
autonomy



Advancing
technology



Accelerating
sustainability



50 countries

Here to stay



3,700+ patents



4,000 R&D staff

Every year Hexagon technology touches



95% cars



90% planes



75% smartphones

산업을 위한 헥사곤 솔루션



Aerospace



Automotive



Electronics



Heavy equipment



Energy



Healthcare and life sciences



General manufacturing



Rail

ORACLE
Red Bull 
RACING

20K

updates to the car per season

400GB

data gathered per race

50%

fewer faults with Hexagon's tech



“

헥사곤은 오랜 기간 동안 팀의 소중한 파트너로서 우리의 성공에 핵심적인 역할을 해왔습니다.

앞으로도 지속적인 경쟁력을 확보하기 위해 헥사곤과 함께하고 있습니다.

Christian Horner
Team Principal & Chief Executive Officer
Oracle Red Bull Racing



TOP 5 제조업 비즈니스 과제



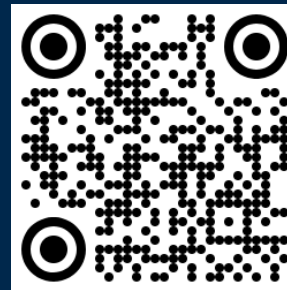


2025 첨단 제조 리포트

헥사곤의 최신 첨단 제조 보고서는 오늘날 첨단 제조업의 성공을 형성하는 전략, 방법론, 기술들을 집중 조명합니다.

- 헥사곤 Forrester Consulting 수행 연구 자료
- 자료는 1,000명 이상의 글로벌 제조업 리더를 포함하며, 그중 23%는 C레벨 임원입니다.
- 데이터 기반 인사이트는 보다 민첩한 운영을 설계하는 데 도움을 줍니다.
- 비즈니스 목표와 기술 계획을 일치시킵니다.
- 품질, 디지털화, 자동화 등 다양한 분야를 심층 분석합니다.
- 단기 성과와 장기 우선순위를 모두 제시합니다.

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<https://hxgn.biz/AMR2025>



설문조사 결과

Survey conducted December 2024 by

FORRESTER®

Respondents

1,051



C-suite






237

Number of employees





500 – 20,000

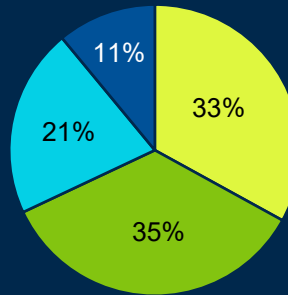


Five verticals

-  Electronics 22%
-  Automotive 22%
-  Healthcare and life sciences 21%
-  Energy 18%
-  Aerospace & Defence 17%

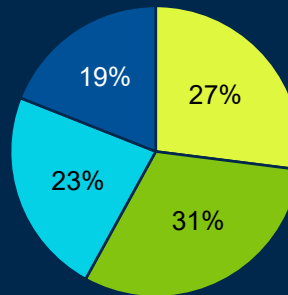
Company size

-  500 – 999
-  1,000 – 4,999
-  5,000 - 19,999
-  20,000 and more



Respondent level

-  C-Level Executive
-  Vice President
-  Director
-  Manager



Regions



Europe

- Germany 8%
- UK 5%
- Italy 5%
- France 5%
- Nordics 5%
- Benelu x 5%

APAC

- China 13%
- Japan 5%
- India 5%
- Thailand 5%
- Vietnam 5%
- South Korea 5%

LATAM

- Mexico 5%
- Brazil 5%

North America

- US 20%

핵심 데이터



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Hexagon's Advanced Manufacturing Report

<https://hxgn.biz/AMR2025>

이 연구는 민첩성과 비즈니스 회복력의 필요성을 보여줍니다.
현재 제조업체의 최우선 과제는 디지털화와 자동화를 가속화하여 유연하게 품질을 제공하는 것입니다.

Agility

39%

the top priority of C-suite executives



Say rigid processes hinder adaptability

Top 5

Business issues are agility related

#1 priority

For manufacturers is the high cost of NPI

Quality issues are pervasive and limit agility

1/3

of manufacturers cannot address the root cause of quality issues

Manufacturers have identified 4 key focus areas:

91%

expect AI investment to deliver quality improvement

75%

prioritising earlier designs

72%

more automation to improve quality

78%

greater supply chain information sharing and collaboration

Digitalisation where do businesses see barriers?

Nearly

1/3

have too many analogue processes (31%)



Almost

1/3

experience data quality issues (30%)



Exactly

1/3

lack digital skills for implementation (33%)



91%

of companies face barriers to digitalisation

Automation benefits are being seized

AI

90%

gaining a competitive advantage from AI investment

49%

have realised this benefit

41%

expect this benefit

Agility is a much bigger issue for low AI (40%) users than high AI users (23%)

Automation

72%

more automation investment is a priority for improving quality

65%

believe physical automation offers large investment benefit

디지털 전환



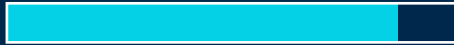
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Barriers

91%



Face barriers to being more data driven

31%



Have too many analogue or paper processes

66%

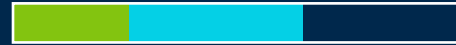


Recognise the business benefit of digital and automation experts

Data concerns

61%

Poor data limits the adoption and optimisation of emerging technologies



26% strongly agree

35% agree

32%

Poor data quality is a barrier to digital twin.

35% Report the lack of data availability

30% struggle with poor data quality

63%

Common data fabric across the organisation



23% transformational benefit

40% large benefit

Digital twin

71%



In this study 71% think digital twin offers large or transformational benefit to their organisation

90%



Have at least one barrier to digital twin

71%

Of barriers relate to real world measurement

62%

Plan to invest in digital twins that utilise production data



34% critical priority

28% important priority

Key takeaways

Data as a barrier – data challenges are a huge obstacle to digital transformation while analogue and paper processes are still prevalent. Eliminating these gaps is a vital first step.

An anchor in reality – digital twin projects are hampered by a lack of real-world measurement data; This is a huge opportunity investment area.

Common data fabric – data is the fabric that can seamlessly connect processes for circularity and continuous improvement. A common data fabric will help organisations increase agility, lift innovation and eliminate problems at root.

Specialist knowledge – digital and automation skills are desperately needed to drive modernisation.

디지털 트윈과 함께하는 제조업의 미래

디지털 트윈 도입 현황

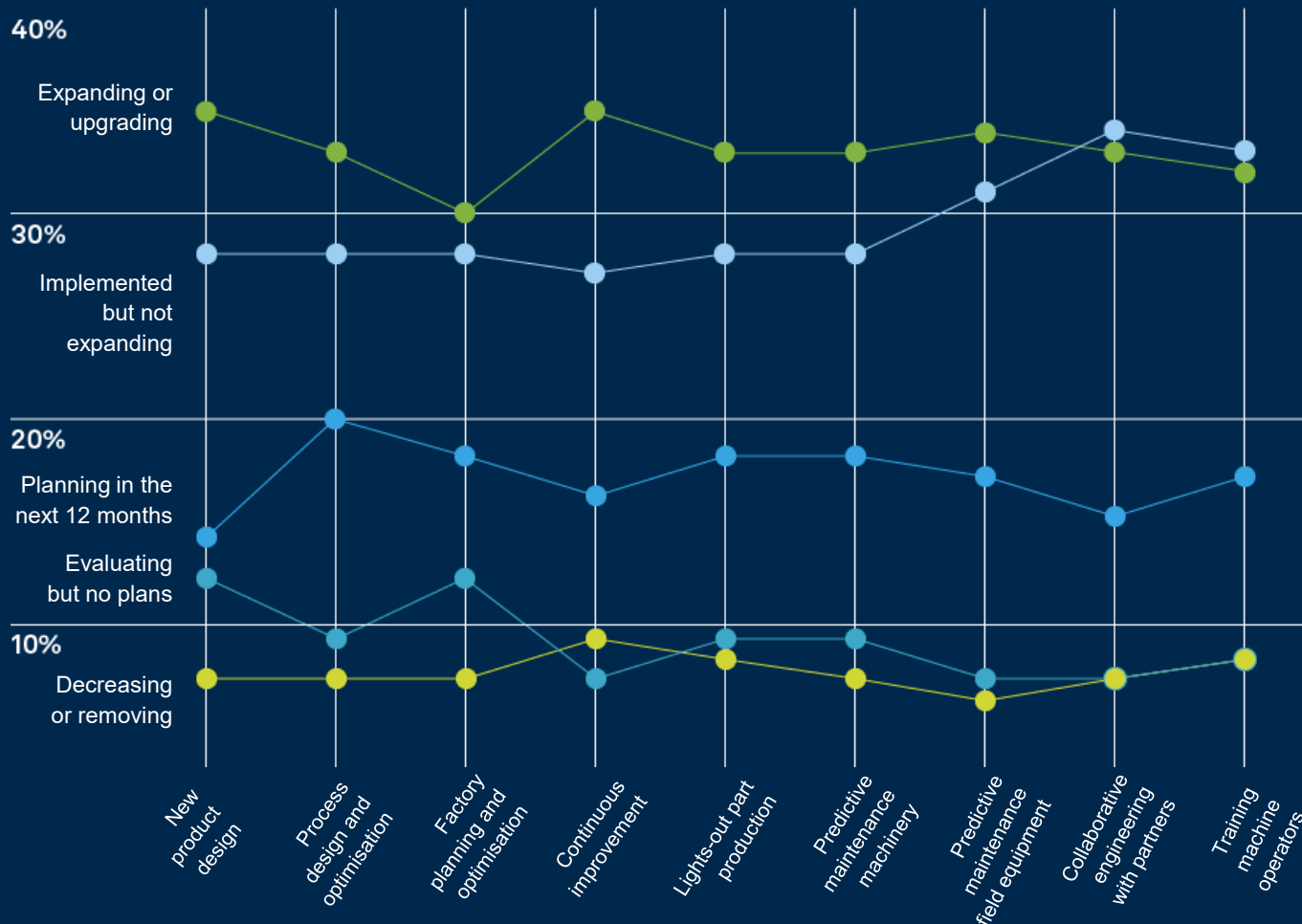
디지털 트윈을 위해 어떤 계획을 가지고 있나요?



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Average across categories



Results from this study show that expansion and upgrade of digital twin is nearly twice the rate of new implementation across the categories.

62% of firms either have, or are, scaling up digital twin systems averaged across these applications. Of these,

17% are planning to implement digital twins in the next 12 months while 9% are evaluating but making no plans and 4% are not interested. A notable 7% across categories report reducing or scaling back digital twin efforts.

디지털 트윈은 가장 중요한 투자 분야입니다

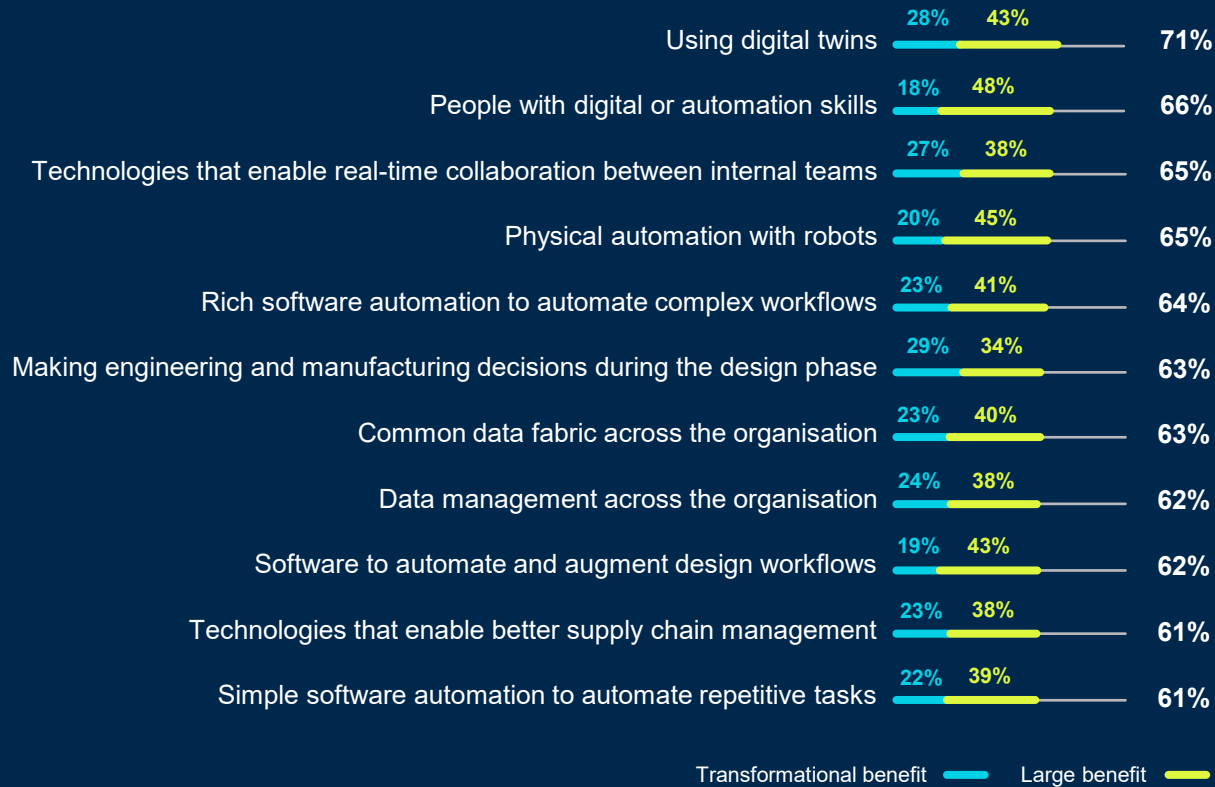


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다음 투자나 전략이 귀 조직에 얼마나 큰 혜택을 줄 것으로 보시나요?



Barriers and opportunities

#1

digital twin offers the top investment benefit across the industry.



90%

Have at least one barrier to digital twin, widely impacting implementation.



71%

Think digital twin offers large or transformational benefit to their organisation.



디지털 트윈의 정의

FORRESTER®

디지털 트윈은 다음과 같이 여섯 가지 핵심 특성을 갖추어야 합니다.



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Design

Factory Operations

Service life

Engineering

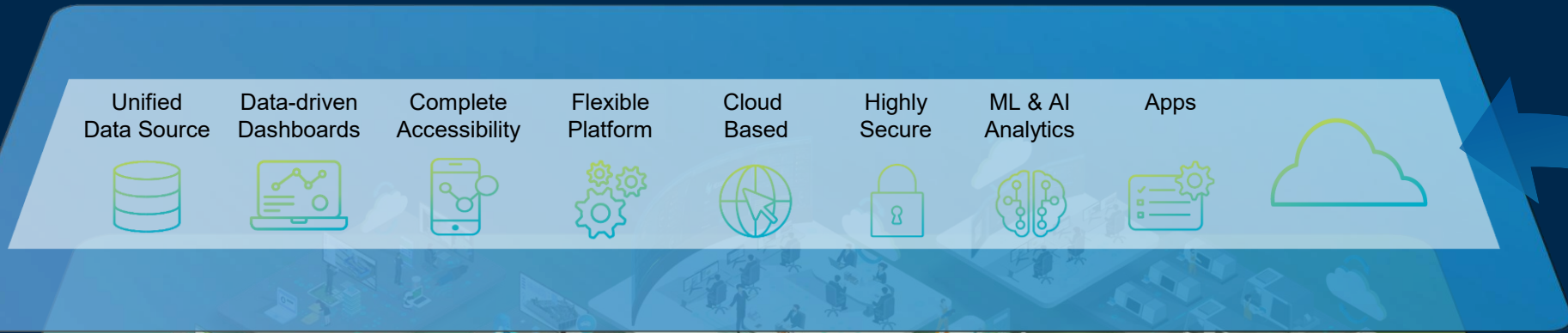
Manufacturing and assembly

Quality

더 큰 가치를 위해 프로세스와 데이터를 연결하고 자동화합니다.

스마트 워크플로우 구현

Digital World



Real World

Design

Production

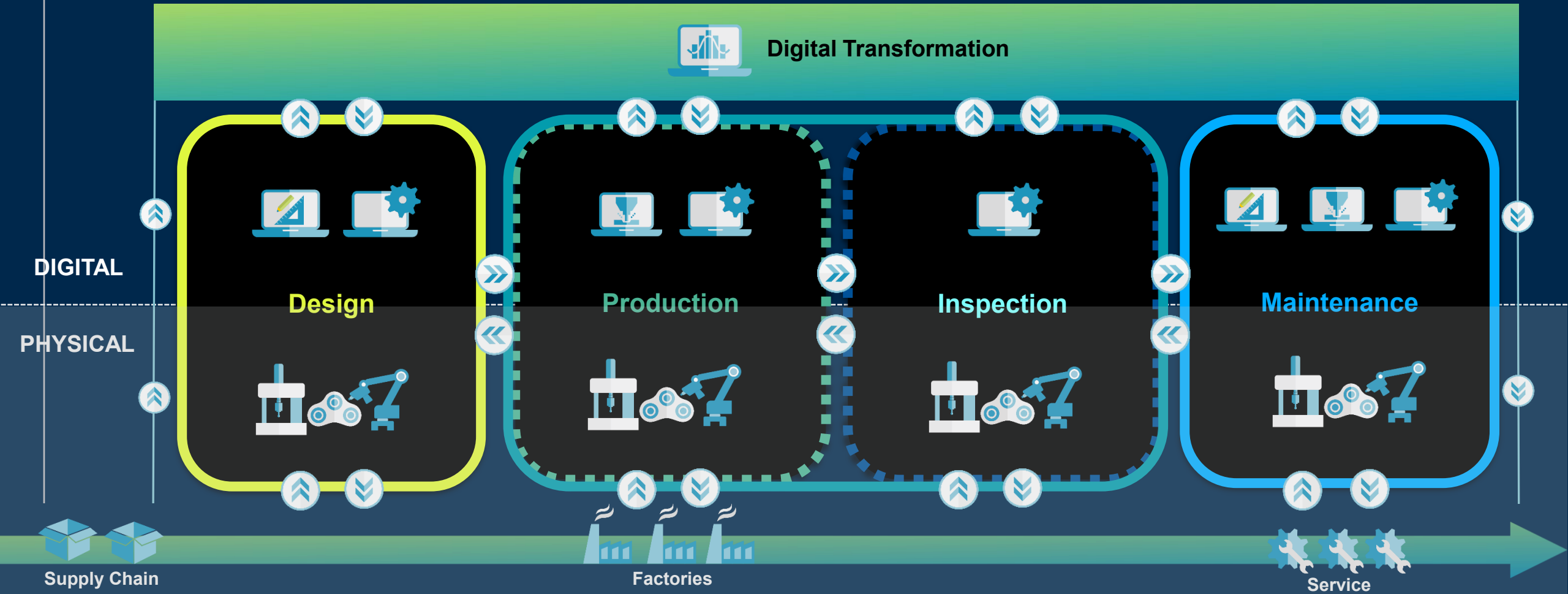
Inspection

Maintenance

스마트 제조 워크플로우

정밀 측정을 통한 조직의 잠재력 강화

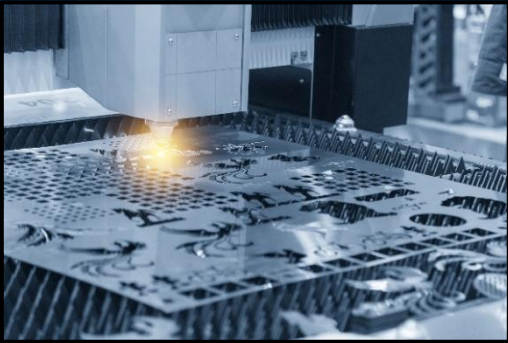
Hexagon Digital Thread



디지털 전환

프로세스와 데이터를 통합하여 자동화

Design



Production



Inspection



Maintenance



Assured Quality - Greater Flexibility – Increased Productivity - More Innovation - Better Utilization – Cost Optimization

디지털 전환

프로세스와 데이터를 통합하여 자동화

Design



What do people want and how will it work?

Evaluate & Deliver more value to innovative offerings

- Evaluate more technology options, faster
- Deliver new innovation
- Unlock customer value
- Better leverage technology options
- Optimize product performance

Production



How do we build lots of them?

Repeatable production processes that deliver quality

- Define optimal production methods
- Capture manufacturing best practice
- Optimize manufacturing processes
- Manage & optimize tooling and production resources

Inspection



Did we build it?

Ensure the quality of parts and products

- Monitor KPI
- Manage & improve quality & variability
- Ramp up faster and more flexibly
- Improve manufacturing throughput
- Feedback to development

Maintenance



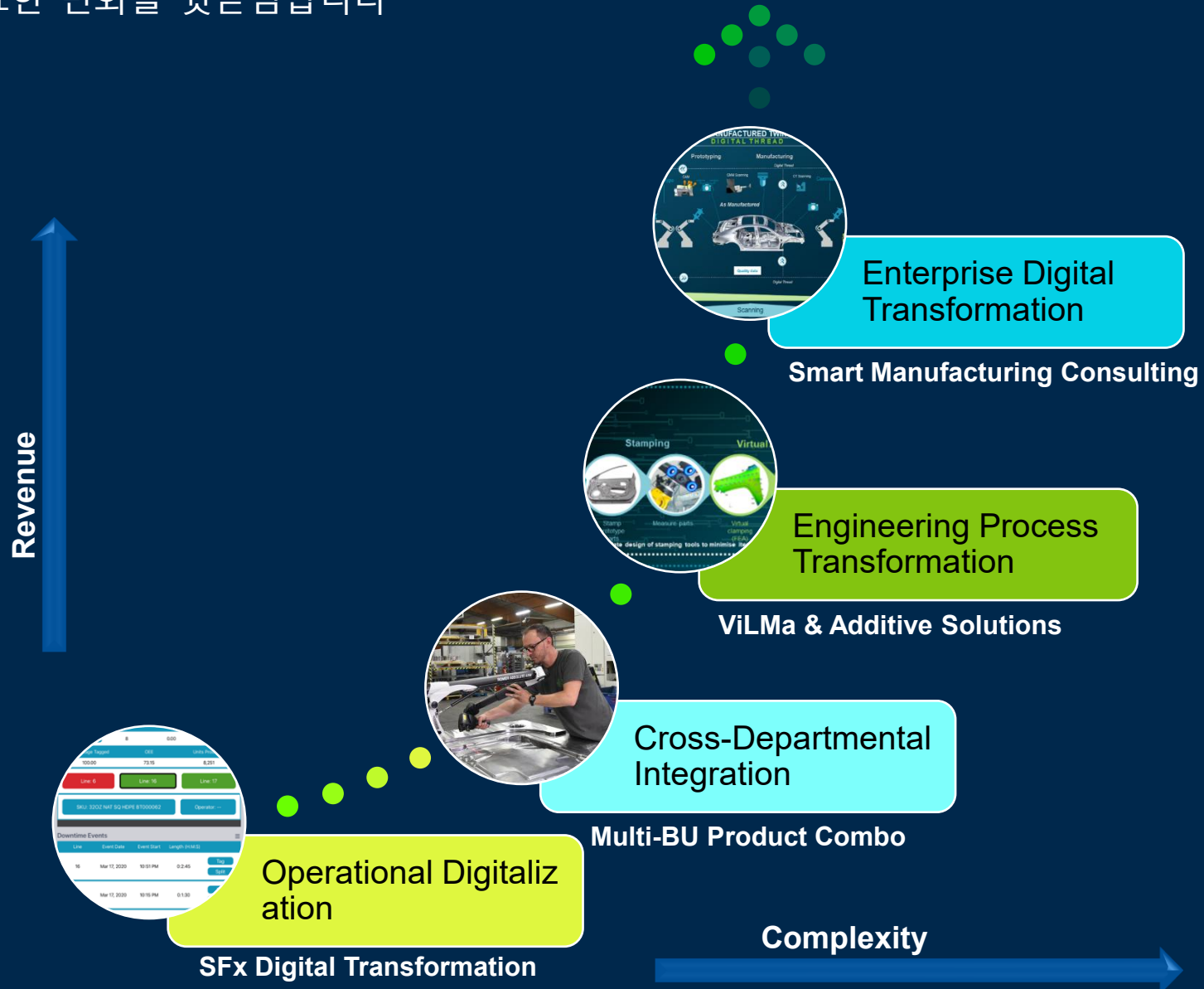
How do we keep it running and updated

Continue to deliver value throughout offering life

- Ensure continued operations
- Deliver renewed & updated capabilities
- Retain customers & justify additional investment

스마트 메뉴팩처링 솔루션

고객이 성공하는 데 필요한 변화를 뒷받침합니다



행사 아젠다

TIME	SESSION	SPEAKER
09:00 - 09:30	등록	
09:30 - 10:00	The Future of Precision Measurement and Smart Digital Twins	Boon Choon LIM, President of ASEAN Pacific Korea 헥사곤 매뉴팩처링 인텔리전스
10:00 - 10:30	Transforming Industry: Where Reality Capture Meets Smart Manufacturing	KHAN Faheem, President of GSR Asia 라이카지오시스템즈
10:30 - 10:50	헥사곤 데이터로 완성되는 스마트 제조	홍석관, Country General Manager 헥사곤 매뉴팩처링 인텔리전스
10:50 - 11:10	측정의 경계를 넘어: 기술과 품질의 새로운 패러다임	권의중, SCMM팀 본부장 헥사곤 매뉴팩처링 인텔리전스
11:10 - 11:30	대형 정밀측정의 새로운 업계표준: ATS800	문장희, NBD팀 팀장 헥사곤 매뉴팩처링 인텔리전스
11:30 - 13:00	점심식사 및 네트워킹	
13:00 - 13:20	레이저 트래커 연동 실시간 피드백 제어를 이용한 고정밀 로봇 가공 기술	김성현, 수석연구원 한국생산기술연구원
13:20 - 13:40	Leica Geosystems TLS 스캐너의 발전과 SW의 방향성	김지한, TLS/BLK 팀장 라이카지오시스템즈
13:40 - 14:00	스캔부터 분석까지, Leica Geosystems로 구현하는 Reality Capture	차호영, TLS/BLK 책임 라이카지오시스템즈
14:00 - 14:20	휴식 및 부스 관람	
14:20 - 14:40	정밀 스캔 데이터로 구현하는 디지털 트윈: Geomagic의 실전 적용	차승용, Geomagic팀 팀장 헥사곤 매뉴팩처링 인텔리전스
14:40 - 15:00	현장에서 만난 Geomagic	김경미, Geomagic팀 매니저 헥사곤 매뉴팩처링 인텔리전스
15:00 - 15:20	헥사곤 Full Spectrum CAM 솔루션	양육진, 프로덕션 소프트웨어팀 매니저 헥사곤 매뉴팩처링 인텔리전스
15:20 - 15:40	DN솔루션즈의 Solution Innovation	박성철, 한국영업본부 상무/본부장 DN솔루션즈
15:40 - 16:00	휴식 및 부스 관람	
15:40 - 16:00	Closing	SK
15:40 - 16:00	경품추첨	

We are only as innovative
as the ideas we make real.

Let's redefine what's possible, **together.**





Thank You