Hexagon in brief

INNOVATION
at scale

15% of revenues for R&D

6,500+ R&D employees

5,500+ active patents

Complementary emerging tech
through acquisitions
(170+ in 20+ yrs)

RELEVANCY
that is vital

"Serving the world's most vital
industries; transforming
manufacturing, infrastructure,
construction, city services
and more.

Solutions that drive fewer inputs,
less waste and less pollution from
efficiency, productivity, quality and
safety gains

STABILITY
that is proven

€500mn (2000) to €5.4bn (2023)

Approximately 24,500 employees
across 50 countries

SUSTAINABILITY
integral to our strategy

Committed to driving profitable
business value that ensures
economic growth, but not at the
expense of the planet or people

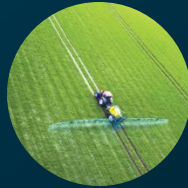HEXAGON

Our impact on the world

350,000
construction sites

80,000
types of mining equipment

3.5 million
agriculture vehicles

90%
of all airplanes

95%
of all commercial vehicles

75%
of all smartphones

Helps protect over

1B
people

Has captured a total of

52M$_{km^2}$
of 2D aerial imagery **and**

800K$_{km^2}$
of 3D mapping of the world

From microns to Mars, we measure what matters most for the future.

Helped support
the landing of the **Curiosity Rover**

Helped construct
Burj Khalifa
the world's tallest building

Driving efficiency
in the **processing of over 50%** of oil, gas and chemicals

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Sustainability strategy

Change we empower

Enabling sustainability
through our solutions

Empowering stakeholders
to accelerate change

Change we create

Improving sustainability
across our value chain

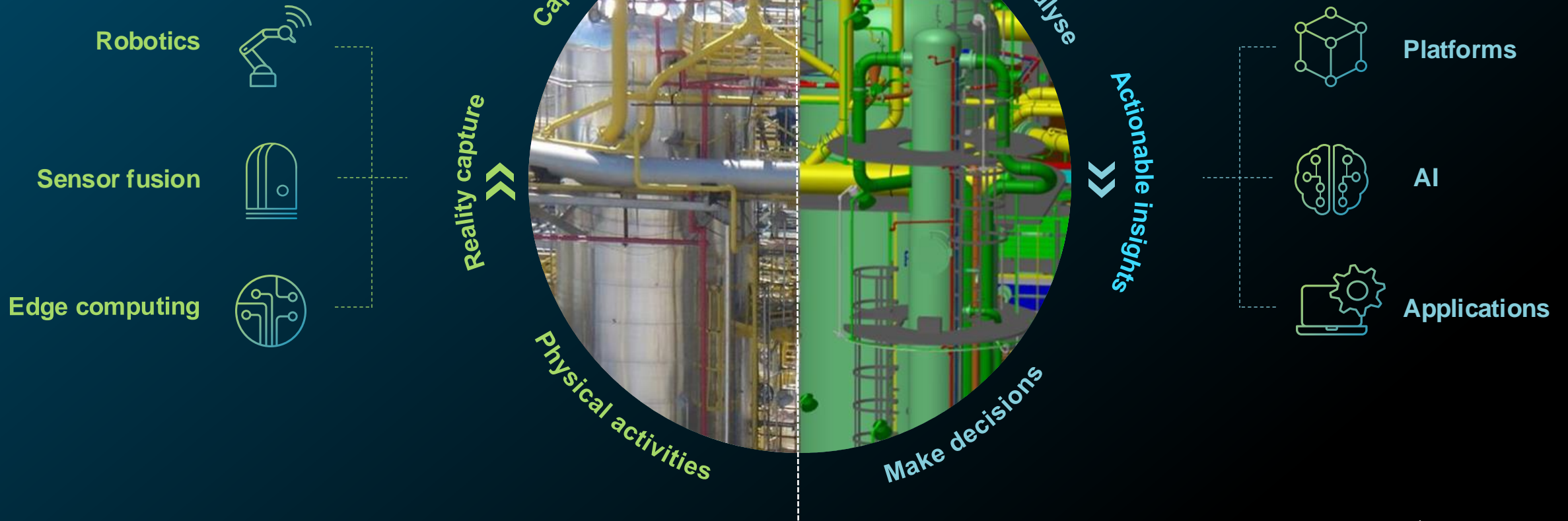Driving sustainability through
our culture and our people

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Value creation

The feedback loop

Two worlds, ONE reality
Workflow-driven
Real time and autonomous

Real world

Digital world

Capture & transfer

Visualise & analyse

Reality capture

Actionable insights

Physical activities

Make decisions

Robotics

Sensor fusion

Edge computing

Platforms

AI

Applications

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Value Creation

Reality capture   Actionable insights   Value creation

Reality capture

Robotics

Sensor fusion

Edge computing

Actionable insights

Value creation

Explore reality capture
in action.

Value creation
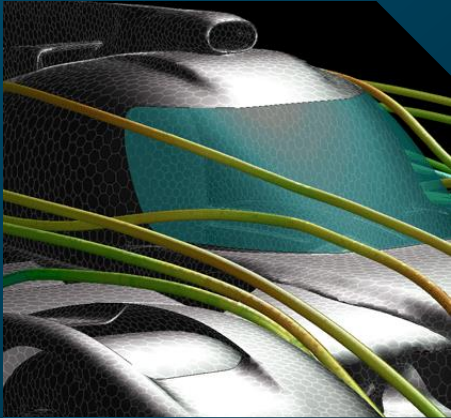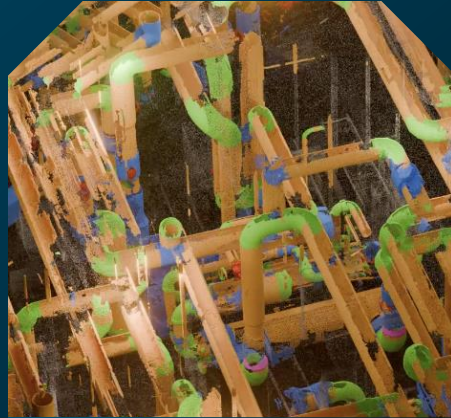

Productivity

Quality

Sustainability

Reality capture | Actionable insights

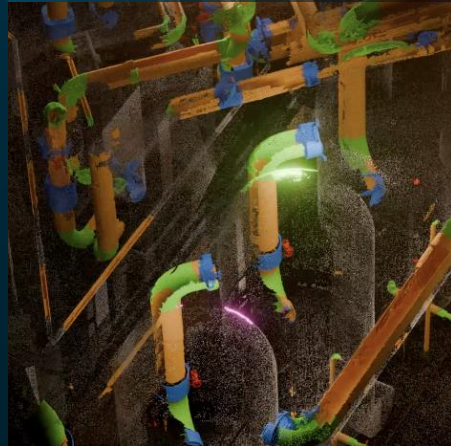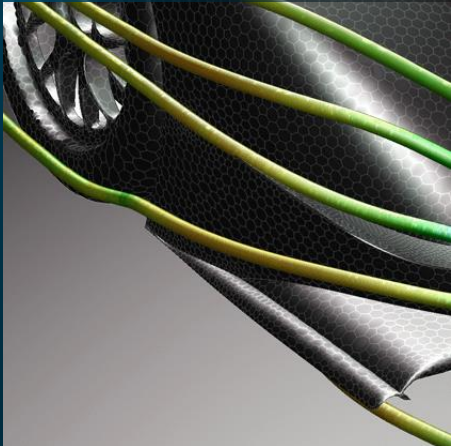# Value creation

Manufacturing

Heavy industry

Construction

Mining

Cities and nations

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Manufacturing

Manufacturing success depends on connecting real-world production with digital intelligence – delivering quality, efficiency, and sustainability.

Solutions for the complete lifecycle of discrete manufacturing, enabling manufacturing to:

- learn and adapt quickly to changing conditions in real time

- pursue perfect quality with optimised design, requiring fewer inputs and producing less waste

Hexagon's manufacturing technologies are used in:

95% of cars produced worldwide
90% of aircraft produced worldwide
80% of orthopaedic implants produced
75% of smartphones produced worldwide

98% of manufacturing organisations – report that a single hour of downtime costs over €100,000

Global CO_2 emissions – were a result of 17% of manufacturing in 2019

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Manufacturing

Connect the entire manufacturing ecosystem through a real-time 3D digital replica, seamlessly linking product requirements to outcomes. This enables proactive adjustments, predictive maintenance, and waste reduction while driving sustainable productivity gains.

Design & engineering phase – Digitally simulate and optimise product design and engineering to ensure component manufacturability, production productivity and output quality.

Production phase – Maintain a digital thread through production, optimise machine tools, measure environmental variances and prevent downtime with predictive data analyses.

Inspection phase – Automate and digitalise quality measurement with our world-leading metrology hardware and software, creating a bridge between the real and digital worlds.

Digital transformation – Deploy sensor-software systems that transform siloed and disconnected processes into an integrated, data-driven ecosystem that creates value across the product lifecycle – enabling new business models and automating increasingly autonomous, efficient and sustainable workflows.

Hexagon's sustainable value creation

Fewer inputs

Less waste

Perfect quality

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ORACLE
Red Bull RACING

20K
updates to the car per season

400GB
data gathered per race

50%
fewer faults with Hexagon's tech

ORACLE
Red Bull
RACING

"Hexagon has played a vital role in the success we've achieved – not just recently, but over a long period of time as a valued partner to the team. We're using Hexagon to ensure we'll be competitive for years to come."

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

Heavy industry

Hexagon's measurement and autonomous solutions connect the physical and digital worlds – optimising operations, improving safety, and driving sustainability.

Solutions for the complete lifecycle of complex industrial plants and ships, enabling industrial assets to:

- ramp up quickly

- operate safely and reliably throughout a more sustainable, longer-term lifespan

Did you know?

Hexagon's technologies are driving efficiency for more than half of all oil, gas and chemicals processed around the world.

Oil & gas companies – with vast amounts of semi-structured data on hand, are using less than 1% of it

Oil demand – slated to peak by 2030 at about 100 million barrels per day

Global power – electricity demand is growing almost twice as fast as total energy demand

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Heavy industry

Hexagon's solutions are enabling customers to leverage data throughout the asset lifecycle – transforming heavy industry into lean, efficient, safe operations that improve the bottom line while assuring a sustainable future.
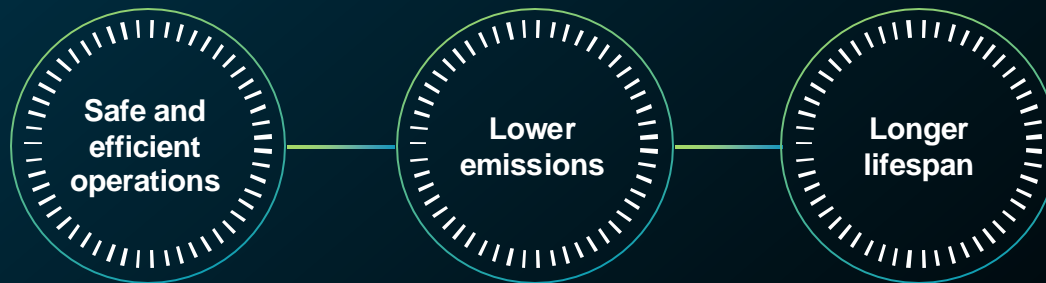
Plan phase – Capture an exact digital twin of a site's existing conditions, features, and precise location to facilitate digital design concepts that drive efficiencies and reduce waste throughout the asset lifecycle.

Design phase – Transform the project vision into a digital reality with Hexagon's design and engineering software that is the gold standard for precision and ease of use.
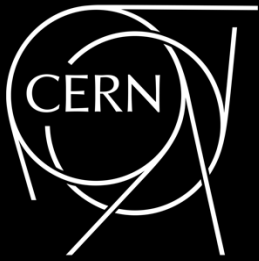
Build phase – Orchestrate a construction project that is a model of productivity and efficiency – achieving the highest quality while avoiding rework and waste.

Operate & maintain phase – Leverage data from the planning, design and build phases to create an operational twin that connects people, processes and events throughout the entire industrial facility lifecycle.

Hexagon's sustainable value creation

Safe and efficient operations — Lower emissions — Longer lifespan

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100M

parts in the Large Hadron Collider,
built in a 27km ring 175m underground

.000001

of a meter precision measurements
from Hexagon's laser trackers

10-20 MINS

of time saved per maintenance call

CERN

HEXAGON

"Hexagon's technologies help CERN explore the remaining mysteries of the universe."

David Widegren
Head of Engineering
Information Management
CERN

Mining

Safer, smarter, and more sustainable mining starts with understanding reality. From exploration to operations, Hexagon optimises every step.

Solutions for the complete lifecycle of open pit and underground mines, enabling mines to:

- operate efficiently
- maximise safety
- minimally impact the environment

Hexagon's collision and avoidance systems protect 40% of mining sites worldwide.

12% of Global GDP – mining revenue is expected to reach $2.4 trillion by 2025 with a CAGR of 7%

Energy and climate change – the world's move to clean energy is dependent on mines, with EV batteries increasing the demand for nickel 10-fold from 2018 levels

Diminishing returns – the net profit margin of the mining industry decreased from 25% in 2010 to 11% in 2020

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Mining

Hexagon's life-of-a-mine solutions connect and leverage data from planning to operations – from safety to sustainable reclamation **–** making it possible for customers to extract 100% of a mine's potential value safely, sustainably and profitably.

Exploration – Empower the mine exploration process with the ability to store, manage and analyse drillhole data, perform geological interpretation of deposits and generate accurate block models.
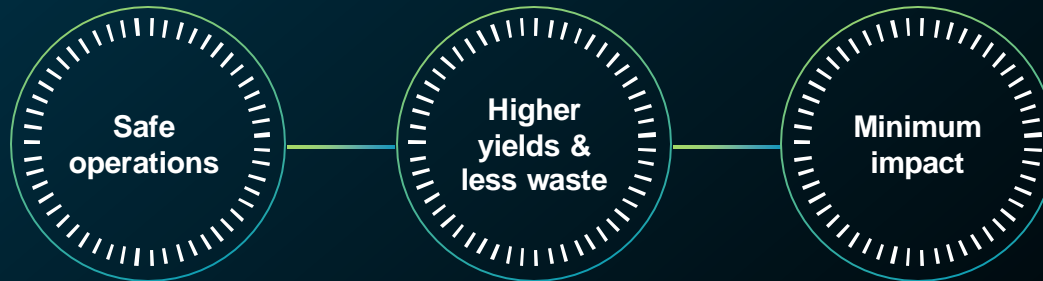
Planning – Access powerful 3D modelling and simulation, data visualisation and planning software for geologists and engineers that supports seamless workflows from exploration to production.

Drill and blast – Calculate and analyse the efficiency of each step in the drill and blast process via a tailored feedback loop to ensure continuous improvement through accuracy and precision.

Material movement – Execute successful material movement through planning, fleet management, safety and slope monitoring powered by integrated mining technology.

Survey and monitoring – Enable quick and informed decision-making with intelligent and comprehensive monitoring solutions that don't compromise on safety or productivity.

Hexagon's sustainable value creation

Safe operations — Higher yields & less waste — Minimum impact

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7%
fuel efficiency improvement

4-8%
reduction in cost

12-15%
reduction in time

"

The world is dependent on us. That's where the technology from Hexagon comes in ... Hexagon is helping us become the mining champion of the future.

Bob Wilt
Chief Executive Officer
Ma'aden

Construction

Bringing the built world to life requires connecting real-world conditions with precise planning, ensuring efficiency and sustainability.

Solutions for the complete construction lifecycle ensuring:

- projects are optimised to reduce rework and build to plan – on time and on budget
- human and material resources are protected throughout the life of the asset

Did you know?

Hexagon's technology helped construct the world's tallest building, the Burj Khalifa, in Dubai at 829.8 meters (over a half mile high).

13,000 buildings per day – the number of buildings that must be built per day to keep pace with population and urban growth

Sustainability diet needed – 1 consumer of global raw materials is the construction industry

Energy and climate change – 40% of global greenhouse gas emissions are attributable to our built environment

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Construction

Hexagon's solutions are changing the way buildings are planned, designed, constructed and utilised **–** ensuring data is captured, connected, visualised and updated throughout the lifecycle to deliver better performance and lower environmental impact and at a lower cost.

Design phase – Capture an accurate digital reality of a building site's existing conditions, features and positioning, and digitally design initial concepts to minimise inputs and reduce waste during the project.

Plan phase – Transform vision and design into a plan of action, digitally mapping out every detail for the construction phase including time, materials, scheduling and cost.

Build phase – Orchestrate the construction process more simply, creating a model of productivity and efficiency, with higher quality, fewer reworks and less waste while ensuring worksite safety.

Operate & maintain phase – Leverage all data from design, plan and build phases to create a digital reality that delivers full transparency to every element of the completed building to optimise operations, maintenance, safety and resiliency.

Hexagon's sustainable value creation

Optimised resources — Less rework — On plan, on time and on budget

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SKANSKA

10K
projects worldwide

2 DAYS
to scan entire 23-story office building vs 1-2 weeks using traditional methods

10 MIN
of training to use BLK2GO scanner

Cities & Nations

Smart cities rely on accurate data. Hexagon measures, maps, and manages urban environments to create sustainable, thriving communities.

Solutions for the complex systems of enabling governments, industry and citizens to work together to build safe and vibrant communities that promise:

- public safety

- economic vitality and quality of life for citizens

Did you know?

Hexagon's public safety solutions protect almost 1 billion people on the planet.

Deep impact – cities occupy just 3% of the Earth's land but account for up to 80% of energy consumption, waste and carbon emissions

Cities can save the world – achieving up to 40% of the emissions reductions necessary to limit global warming to 1.5 °C

900 million people – by most conservative estimates reside in poor living conditions

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Cities & Nations

Hexagon's solutions make cities and nations safe, resilient, agile and sustainable while reducing their total operating cost by connecting mission and business-critical data to make timelier, well-informed decisions.

Public safety – Improve the quality, accuracy and availability of critical information with integrated smart city and nation solutions that enhance public safety, security performance and productivity.

Public administration – Easily share data for census, cadastral management, public works and interagency situational awareness with cloud-based applications and collaborative solutions.

Transportation – Deploy intuitive, integrated transportation solutions for traffic, railways and airports to ensure fast and effective incident response while enhancing safety with minimal disruption.

Utilities & communications – Achieve greater network service reliability, enhance integrity, increase efficiency and fulfill the expectations of utility stakeholders with Hexagon's location-based technologies.

Mapping – Capture, visualise, analyse and derive insights from location data to address a variety of urban and national challenges.

Industrial & commercial resiliency – Forge safer industrial and commercial facilities with scalable surveillance, security and incident management capabilities.

Hexagon's sustainable value creation

Always safe — Highest quality of life — Sustainable economic growth

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1.6K KM²

mapped to develop Spain's first digital twin

5 CM

distance between individual images to create the digital twin

4 TB

of data captured across 200K angled images and 50K straight-down images

Tragsatec
GrupoTragsa

Thank you.

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