


HEXAGON'S PPM DIVISION

Defining the Next Normal for Projects



As digital disruption continues to alter how and where work gets done, it is more important than ever to make bold, strategic moves to not only survive but to sustainably thrive by changing the rules of the game.

Industry fundamentals have changed. The rules of the next normal will be defined by the companies that embrace digital transformation — those who invest in innovation, pivot their operating models and outperform the competition by leveraging data to its full potential.

Hexagon's PPM division exists for moments like this.

Empowering an Autonomous Future

Hexagon is a global leader in sensor, software and autonomous solutions.

- ▶ We put data to work to boost efficiency, productivity and quality across industrial, manufacturing, infrastructure, safety and mobility applications.
- ▶ Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous — ensuring a scalable, sustainable future.

Hexagon is committed to a simple, yet powerful purpose: Putting data to work to empower an autonomous future.

Hexagon has a bold vision where business, industry and humanity sustainably thrive.



Digitally Transforming How Business Gets Done

Hexagon's PPM division is the leading global provider of enterprise engineering software, enabling smarter design and operation of plants, ships and offshore facilities. With 50+ years of experience in delivering innovative industrial software, Hexagon solutions transform unorganized data into intelligent, actionable information that enables smarter design, construction and operation of industrial projects across the asset lifecycle.

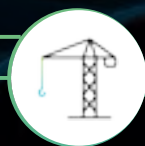
Our solutions are **changing the conditions under which business is done**, in ways that transform the expectations for every stakeholder.

Putting unused data to work is your industry's greatest opportunity. **In 2013, SINTEF — one of Europe's largest research organizations — reported that 90% of the world's data had been generated over the last two years.** In 2014, International Data Corporation (IDC) predicted that the digital universe would grow by a factor of 10, from 4.4 ZB in 2013 to 44 ZB in 2020; in 2018 IDC also predicted this would rise to an incredible 175 ZB by 2025! It's time to utilize your data and quickly benefit from the value of a comprehensive digital twin to optimize the design, engineering, construction, operation and maintenance of your industrial assets.



Plan

Create a solid conceptual design and enable informed investment decisions



Design

Intelligently design and engineer industrial assets across the project enterprise



Build

Deliver on-schedule and on-budget building and construction projects



Operate

Reduce operational risk, digitalize operations and meet internal and external regulatory compliance



Maintain

Reduce costly downtime and increase asset efficiency and reliability

Visualize, build and manage structures and facilities of all complexities, ensuring safe and efficient operations throughout the entire asset lifecycle.

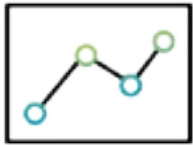
Effecting Change in Disruptive Times

Hexagon is uniquely positioned to enable customers to seize this historic opportunity to define and create the next normal through digital transformation.

Your Challenges:

	Project Delays
	Declining Productivity
	Lost Contracts/Bids
	Increasing Project Losses
	Increasing Operational Cost

Our Proven Outcomes:



20-30%

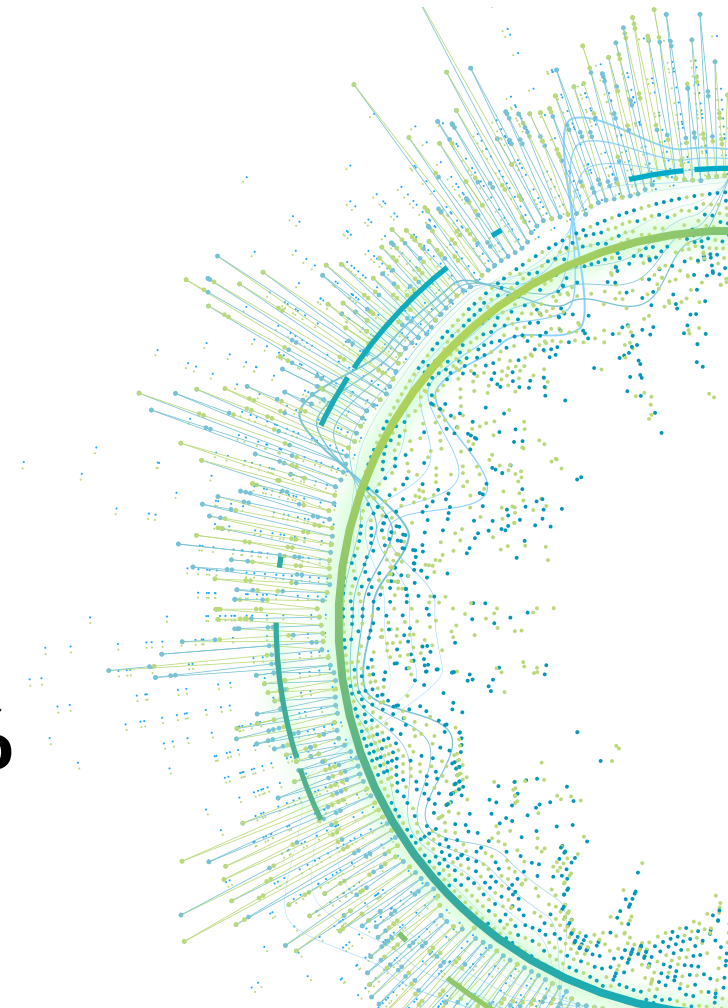
Increased
Productivity

15-25%

Schedule
Compression

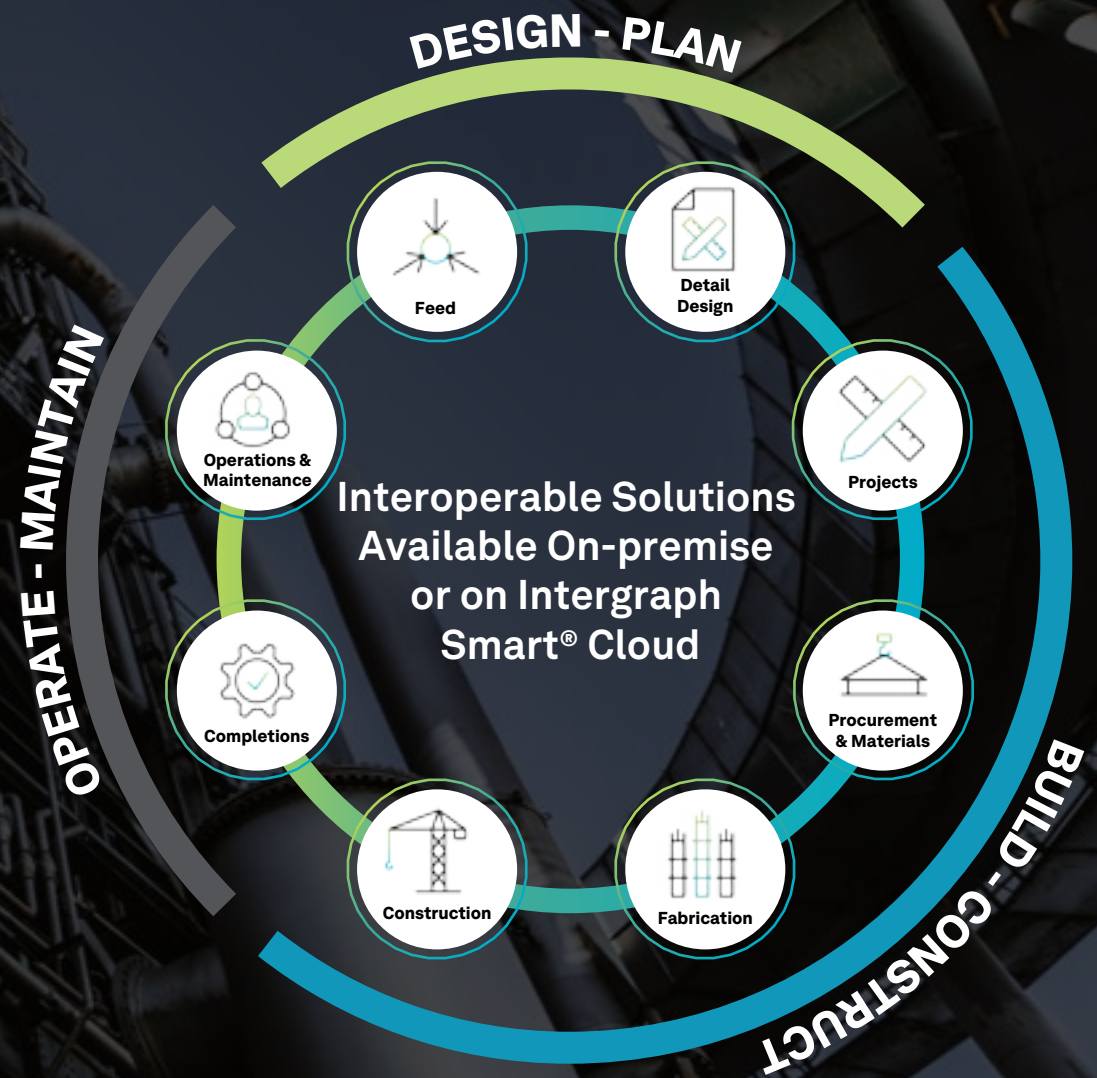
10-15%

CapEx
Savings



Solutions for the Complete Asset Lifecycle

In any large engineering and construction project, we see discrete roles within a connected ecosystem. From concept and design through plant maintenance, operations and decommissioning, Hexagon enables data governance of all the plant's engineering information, integrating it across the physical asset, through process and regulatory requirements. Our portfolio of solutions can scale across any project, offering a full suite of solutions for projects of all sizes and varying complexities.



Project Solutions

Empower your firm with integrated, enterprise-wide solutions for the full lifecycle of your industrial facility or infrastructure project. Deliver quality, on-time and on-budget projects.

Empowered Engineer: Smart Digital Design

KEY BENEFITS

- Automate designs
- Check rules
- Integrate across disciplines
- Connect with fabricators

PROVEN OUTCOMES

- ▶ **20%** savings in engineering and design time
- ▶ Cryostar decreased engineering deliverable costs while reducing on-site rework rates to less than **3%**

OUR SMART SOLUTIONS

- » [Intergraph® Smart 3D](#)
- » [Intergraph Smart Electrical](#)
- » [Intergraph Smart Instrumentation](#)
- » [CADWorx® Plant Professional](#)
- » [CADWorx Structure](#)



Project Solutions

Data is transforming materials planning and procurement.

Smart Materials & Construction: Streamlined Supply Chain

KEY BENEFITS

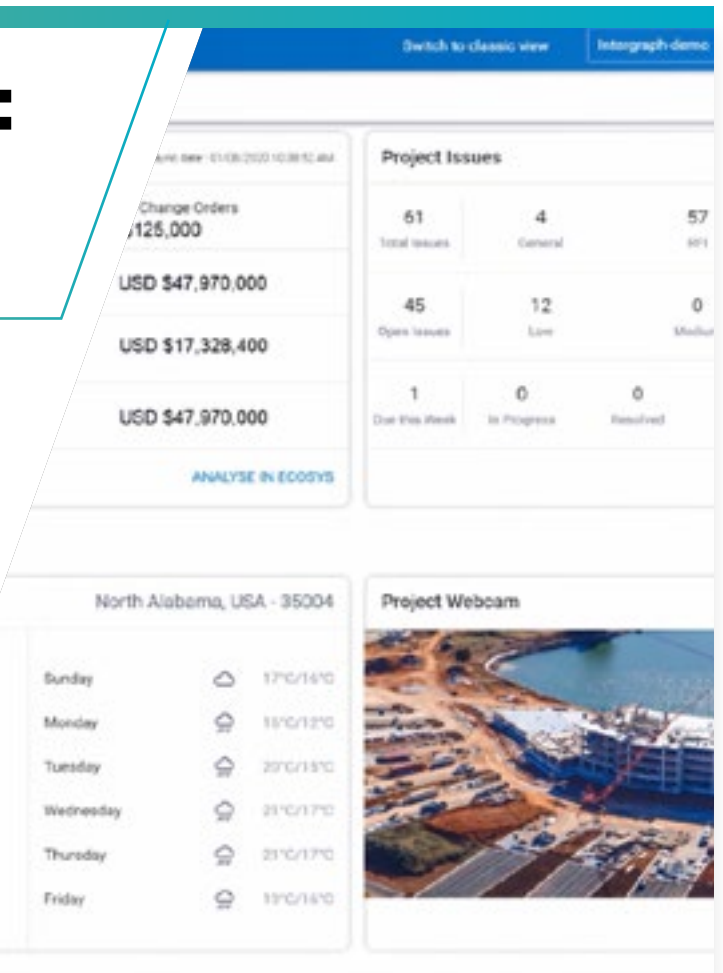
- Cost estimations
- Materials planning
- Subcontractors management
- On-site management
- Design and model integration
- Schedule integration

PROVEN OUTCOMES

- ▶ April Management (formerly known as PEC-Tech) achieved a **3% reduction in cost, amounting to US\$6 million in savings**

OUR SMART SOLUTIONS

- [Intergraph Smart Materials](#)
- [Intergraph Smart Reference Data](#)
- [Intergraph Smart Construction](#)
- [HxGN™ Smart Build](#)



Project Solutions

Piping systems, equipment and structures need to be analyzed and verified in accordance with national and international standards. Hexagon software can help you improve safety and reliability while tightening the entire design process to save time and money.

Analysis Solutions: Streamlined Engineering Analysis

KEY BENEFITS

- Easy to use
- Flexible
- Scalable
- Trusted to deliver accurate, reliable results

PROVEN OUTCOMES

- ▶ Reduce engineering modeling time by **80%**

OUR SMART SOLUTIONS

>> [CAESAR II®](#)

>> [GT STRUDL®](#)

>> [PIPESTRESS](#)

>> [PV Elite®](#)

>> [TANK®](#)

>> [Visual Vessel Design](#)



Project Solutions

View the entire fabrication process digitally.

Digital Fabricator: Process Transparency

KEY BENEFITS

- Engineering through construction visualization
- Calculate quotes up to 80% faster
- Less material wasted
- Millions of dollars saved

PROVEN OUTCOMES

- ▶ Speed up quotation calculation by **30-80%**
- ▶ Save materials by **1-5%**
- ▶ Reduce remnant storage by **60%**

OUR SMART SOLUTIONS

- >> [Intergraph Smart Production](#)
- >> [Intergraph Smart Spoolgen](#)

- >> [Intergraph Smart Weld Quality Management System](#)



Project Solutions

The right information at the right time for the right decisions.

Project Collaboration: Visibility Driving Performance

KEY BENEFITS

- Access live project data in real time
- Efficiency of engineering work processes
- Digital progress measurement for improved accuracy
- Aligned and informed stakeholders

PROVEN OUTCOMES

- ▶ **10% reduction** in hours
- ▶ **10% reduction** in change orders*

*Figures based on a typical \$1 billion CapEx project; further details upon request

OUR SMART SOLUTIONS

>> [EcoSys™](#)

>> [HxGN SDx® Projects](#)



Project Solutions

Maximize returns and margins across your project ecosystem.

Enterprise Project Performance: Complete Project Confidence

KEY BENEFITS

- Strategy aligned with project execution
- Clear visibility across all projects
- Efficiency from automation of processes
- Increased predictability for improved business outcomes

PROVEN OUTCOMES

- ▶ **5-10% reduction** in project cost
- ▶ **10-30% reduction** in opportunity costs
- ▶ **20-40% reduction** in change orders

OUR SMART SOLUTIONS

>> [EcoSys](#)



Project Solutions

The complete, digital history of the entire project at your fingertips.

Smart Completions: Your Digital Project History

KEY BENEFITS

- Process efficiency
- Improved accountability
- Full project visibility
- Simplifies and improves handover to operations

PROVEN OUTCOMES

- ▶ A Hexagon client earned savings of **45-50%** on resources and time

OUR SMART SOLUTIONS

>> [Intergraph Smart Completions](#)



Data Leverage: Prepare for the Next Normal

Companies can choose to fall back on their old status quo, or they can adjust to the changing environment and reinvent themselves to seize the opportunities created by digital transformation.

When data is leveraged, transformative change happens.

Hexagon solutions are empowering customers to accelerate their digital transformation and to gain the competitive advantage they need to thrive in the next normal.

Digital Transformation Partners

Hexagon's project solutions are used by asset owners and service firms across the world including:

Air Products

American Electric Power

Bechtel

Ball Aerospace

Burns & McDonnell

CDM Smith

Chiyoda Corporation

Dow

EDF Energy

Fusion for Energy

Georgia Pacific

Harvard University

Jacobs

Los Angeles Metro

Marathon Petroleum

Petrofac

Saipem S.P.A.

TechnipFMC

Tetra Pak

Worley





About Hexagon

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Learn more at hexagonppm.com

Follow us at [@HexagonPPM](https://twitter.com/HexagonPPM)

Contact us [here](#)