



Data.

Analytics.

Artificial Intelligence.

Accelerated.

Perspective

Today

- Managing Changing Business Models
- Ensuring Operational Efficiency
- Anticipating Potential Disruptions
- Taking on Technology
- Growth

Tomorrow

- Humans + Robots
- Embedded AI...Everywhere
- Advanced Automation
- Seamless Global Communities
- Transforming from Smart to Predictive



Connective Tissue

Modernized Data, Advanced Analytics, and Artificial Intelligence

These are foundational for every transformation of tomorrow,
starting with today.

Genware is purpose-built to deliver a unified experience
through our expertise, services, and products.





Our View

Why are we here

Our Purpose

We envision a world where data is unlocked, and intelligent information is placed in the hands of individuals, organizations, and communities, empowering them to thrive and contribute towards enriching our global community.



Our Collective Mission

Mission

Our mission is to empower organizations to effectively harness the transformative power of modern data and analytics and pioneer solutions for tomorrow.

By leveraging advanced technologies, and expertise, we enable our clients to make trusted decisions that drive their future success.

We are united by a relationship-first culture where we believe growth personally, professionally, and collectively is the foundation of success.



What we do – Five Pillars



Generative AI

Future-Proof your organization with a strategy and implementation to leveraging Generative AI



Modernize your Data and Analytics

We can help organizations with Strategy and Implementation to modernize your data and analytics using next generation platforms.



Genware Analytics and AI Suite -

A complete analytics and AI solution, designed with leading technologies, AI models embedded, services delivered monthly.



Analytics as a Service

Accelerate your Data and Analytics with a customized and flexible team to compliment or develop your practice.



Purpose Built Product Solutions

Drive digital performance with our expertise and purpose-built solutions.



We help you Accelerate

Generative AI

Build a future-proof organization by developing a foundation today.

Deliverables:

- *AI Strategy*
- *Implementation*
- *Machine Learning*
- *LLM's*
- *Natural Language Generation*

Client Success:

A non-Profit in Africa to support local habitats and mitigate the poaching of animals.



We help you Accelerate

Modernizing your Data and Analytics

We help companies build competitive advantage from Strategy through Implementation.

Deliverables:

- *Data & Analytics Strategy*
- *Data & Analytics Governance,*
- *Data & Analytics Architecture Technology Advisory*
- *Program Design and Implementation*
- *Data Visualization & Streaming, Measurement*
- *Frameworks Modeling*
- *Data Science and Machine Learning*
- *Planning and Forecasting, Master Data Management*
- *Data Integration, Virtualization*
- *Governance and Architecture, Implementation*

Client Success: Transformed a Global Marketing and Media Conglomerate, creating a competitive advantage and outperforming its competitors.



We help you Accelerate

Analytics as a Service

We provide a team skilled at functioning as your dedicated Analytics department or seamlessly integrating with your existing team to spearhead comprehensive Data and Analytics projects from inception to completion.

Deliverables:

Services that can be bundled into the subscription-

- *Assessment, KPIs, Goals, Planning, Business Objective, Roadmap*
- *Data Integration*
- *Data Storage and Management*
- *Data Visualization*
- *Advanced Analytics*
- *Reporting and Insights*
- *Data Exploration and Discovery*
- *Data Governance and Security*
- *Scalability and Performance Optimization*
- *Collaboration and Sharing*
- *Support and Training*

Client Success:

One of North America's fastest-growing real estate capital companies transformed analytics into the organization.



We help you Accelerate

Genware Analytics – AI Suite

A complete analytics and AI solution, designed with leading technologies, AI models embedded, and services delivered monthly and designed to empower contemporary executives with measurable, performance-oriented business outcomes.

Deliverables:

Best of Breed Technology bundle- Curated based on your needs.

- Data hub
- Integrated planning and forecasting
- Prebuilt modules and data integration tools
- Forecast, planning, and analytics.
- Business intelligence,
- Visual analytics capabilities
- Embedded Artificial Intelligence models.
- Data Transformation
- Customization

Client Success: Accelerated the business of Healthcare by integrating multiple data sources into a trusted decision platform.



We help you Accelerate

Purpose Built Product Solutions

Drive digital performance with our expertise and purpose-built solutions.

Deliverables:

- Training – *Top Technology Solutions*
- Analytics Operations – *Program Services, DevOps & ML Ops, Staff Augmentation, Project Services, Analytics Infrastructure Management, Monitoring and Alerting, Workflow Automation*
- Data Science as a Service
- Presentation Studio – *Automated PowerPoint Software streamlining TIBCO Spotfire Visualizations.*
- Sigmafi - *Connected Production Platform*

Client Success: Optimized global manufacturing lines resulting in better quality and reduced waste.





ConocoPhillips



Landscape facing CP and Energy Sector

Volatility in Oil and Gas Prices: The oil and gas industry is subject to significant price fluctuations, driven by geopolitical events, supply-demand imbalances, and global economic conditions.

Environmental Regulations and Sustainability: There is an increasing focus on environmental sustainability, and energy companies are under pressure to reduce their carbon footprint and transition towards cleaner energy sources.

Digital Transformation: Embracing digital technologies and innovations is essential for improving operational efficiency, reducing costs, and optimizing production processes.

Security and Cyber Threats: As the company relies on digital systems and networks for its operations, it faces the risk of cyberattacks and data breaches.

Talent Acquisition and Retention: Top talent in various fields, including engineering, geosciences, and technology.



Landscape Continued

Geopolitical Risks: Geopolitical tensions, regulatory changes, or instability in certain regions can impact its operations and investments.

Market Competition: ConocoPhillips competes with other global players for access to reserves, market share, and investment opportunities.

Investing in Renewable Energy: As the world transitions towards cleaner energy sources, ConocoPhillips faces the challenge of balancing its existing oil and gas operations with investments in renewable energy projects.

Social License to Operate: Public perception and social acceptance of the oil and gas industry



Our Ask

Three Asks

Let's further our partnership and grow it.

Drive Efficiency and Management

Introduction and Referral for our Consulting and Implementation services



Today

Training

- Genware Develops, Creates Curriculum, Collaborates, Delivers, Supports, and Project Support for the team at CP.
- Our capacity allows us to deliver training in person or virtually to global audiences.

Needs

- As part of its Digital Transformation, CP is looking to expand training capacity in key areas to increase the Digital Acumen of the CP employee community.

- Areas of Need:

Data Methods

Data Engineering

SQL

Drones

Generative AI

Security

AR/VR

Data Science

Python/R

IoT

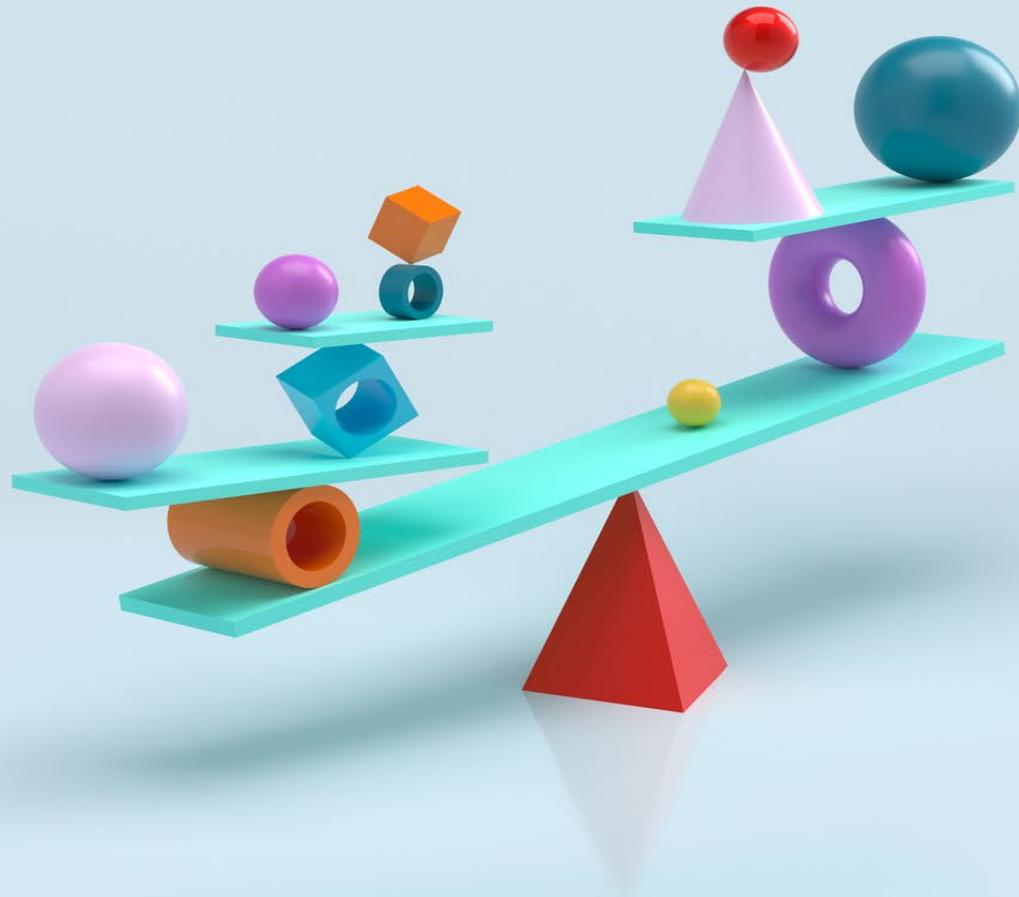
Agile/Lean

Digital Twins

RPA



Where we can help



Where we can help – Anything Data

Years of Experience in Training, Consulting and Implementation on your needs for Data Methods, Data Science, Data Engineering, Python/R, SQL

We help companies build competitive advantage from Strategy through Implementation and Training

Areas of Expertise:

- *Data & Analytics Strategy*
- *Data & Analytics Governance,*
- *Data & Analytics Architecture Technology Advisory*
- *Program Design and Implementation*
- *Data Visualization & Streaming, Measurement*
- *Frameworks Modeling*
- *Data Science and Machine Learning*
- *Planning and Forecasting, Master Data Management*
- *Data Integration, Virtualization*
- *Governance and Architecture, Implementation*
- **ModelOps at Scale**

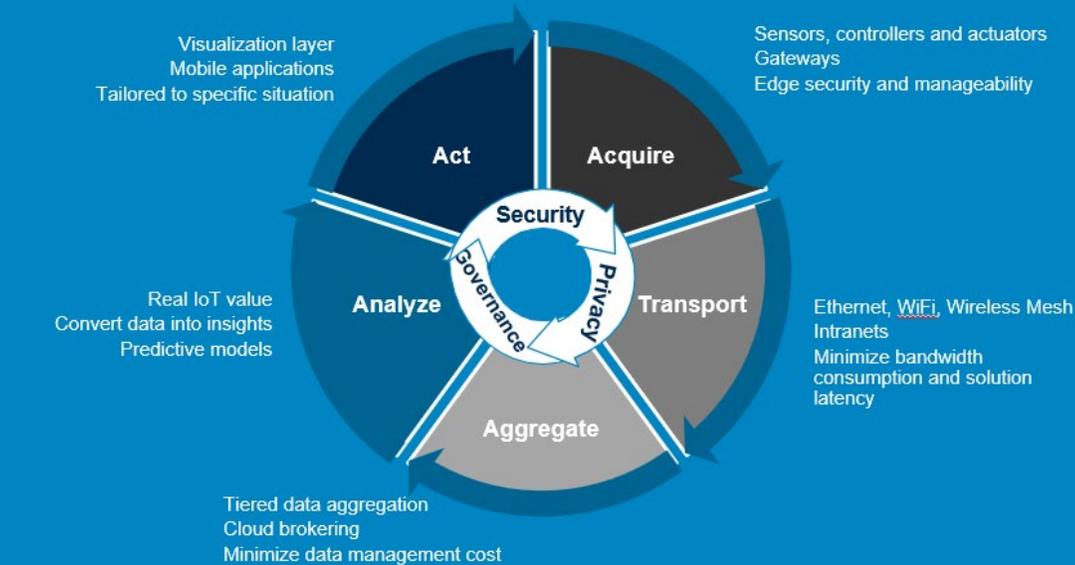
Client Success: Transformed a Global Marketing and Media Conglomerate, creating a competitive advantage and outperforming its competitors.



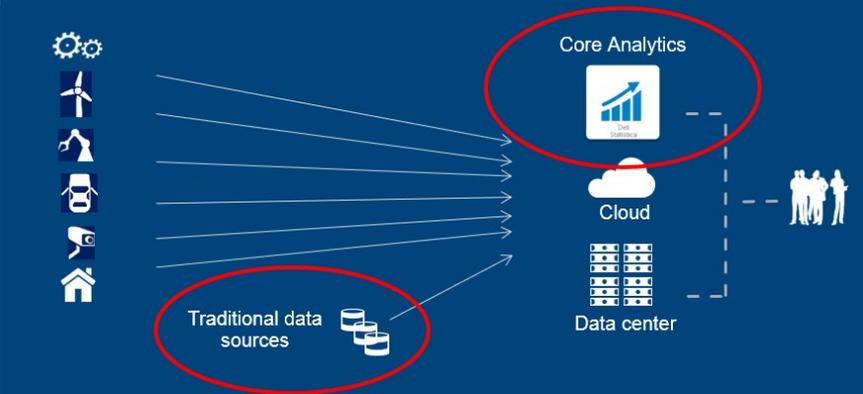
Where we can help - IoT

Training/Consulting and Implementation on Best Practices, Methods & Industry Use Cases

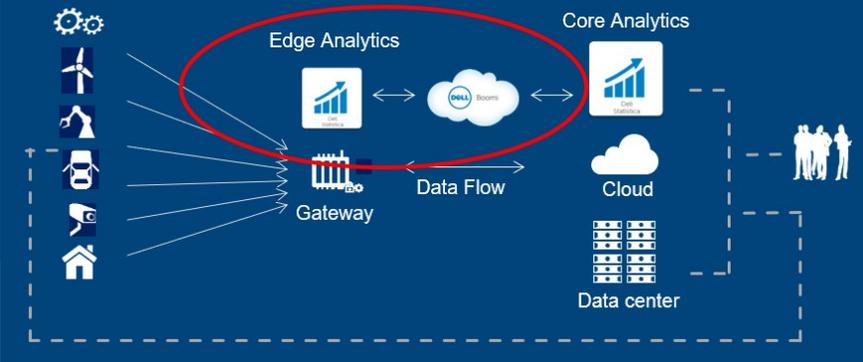
Capabilities needed for IoT projects



Internet of Things – Core Analytics



Internet of Things – Edge Analytics



Where we can help - IoT

Industry Use Cases

Some Examples with Smart Sensor Technology in PPE
– Our Hawk Hard Hat System

The image shows a man in a dark suit and white shirt holding a white smart hard hat. Behind him is a large monitor displaying a dashboard with several data visualization components:

- List of workers:** A table listing workers such as Erling Hesselberg, Rune Svortsen, and Jane Hesselberg.
- Environment:** A line graph for Volatile organic compound [VOC] and a gauge for Dust particles (2539 ppm).
- Worker Health:** A line graph for Pulse [BPM] and a gauge for Vibration (1G).
- Air quality:** A line graph showing air quality levels over time.
- Location:** A map showing the worker's location in London.
- Speed:** A gauge showing speed in km/h.
- ENABLE CAMERA:** A button to toggle the camera on or off.
- DATA-SHOCK:** A logo for the company, featuring a house icon.



Where we can help - IoT

Industry Use Cases

Connected Intelligent Equipment, Cameras & Drones

Drones



Mini-computers



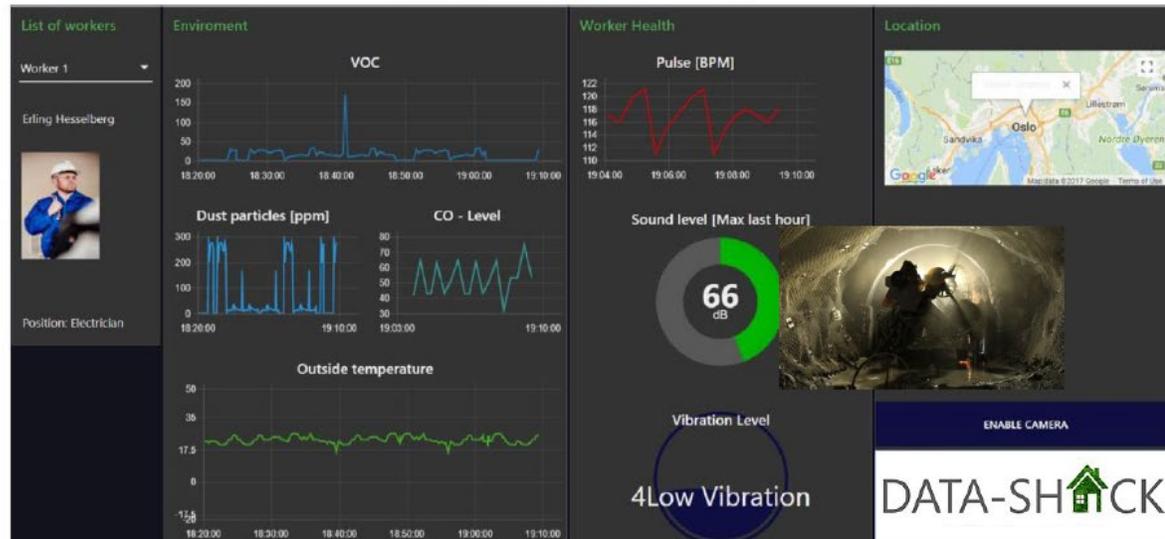
Sensors



MS Azure (Data Lake) IoT Cloud



Machine Learning



All presented in a live Dashboard



Where we can help - IoT

IoT Intelligent Drones

Intelligent Drones with sensors and Edge ML

Our Machine Learning for Drones will make the drone intelligent

Examples of sensors

- Sound
- Light
- GPS
- Dust
- Gas
- Vibration
- Gyro
- Air Quality / Air Pollution (many different sensors)



sight



hearing



smell



taste



touch



Where we can help - IoT

Automatic unmanned maintenance,
detection of corrosion

If we can't measure it
We can't predict it



The Case...



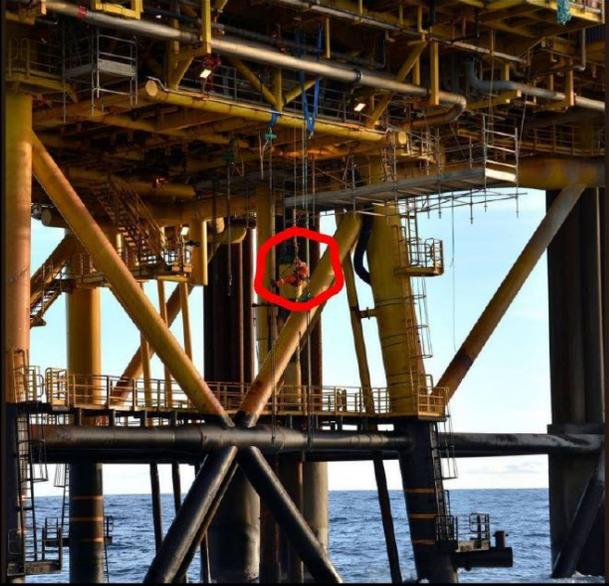
The Top-Drive

- Over 2000 sensors
- Mandatory total service every 5 year – VERY expensive
- Designed to run at 100% , 24/7
- Inspections & Repairs need to be fully Automated



Where we can help - IoT

Platform Inspections



The Old Way...

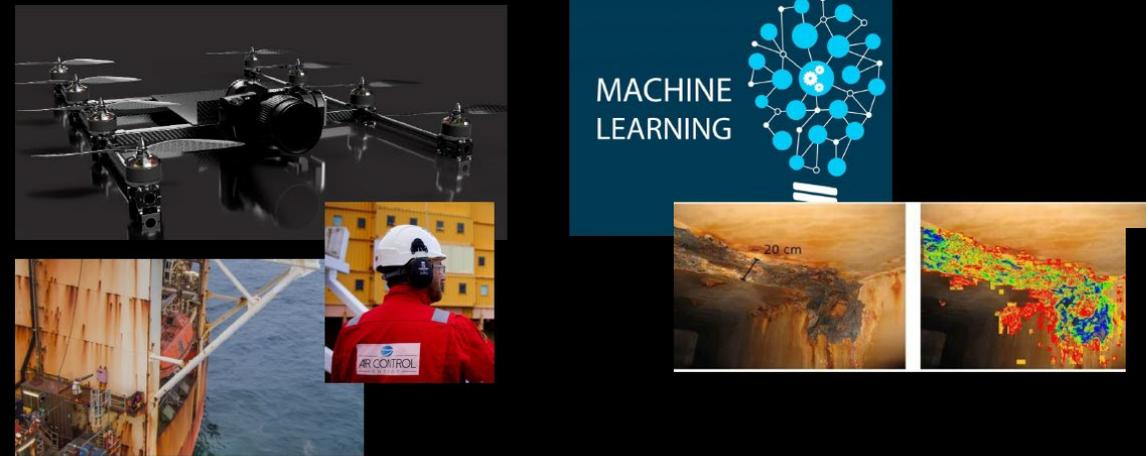
Platform Inspection Surveys the new way



Where we can help - IoT

Generation 1.0

Manually operated drone + Machine Learning for auto detection of corrosion

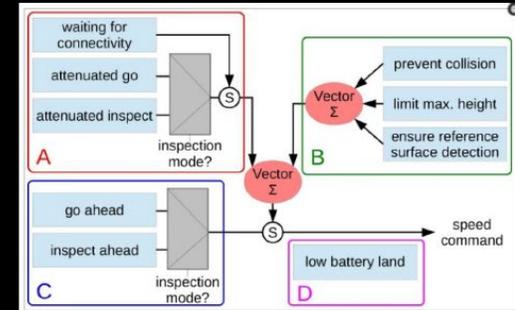


Generation 2.0

Fully automated drone inspection + Machine Learning for corrosion detection and tracking



A realization of the INCASS aerial platform: (green) laser scanner; (red) height sensor; (yellow) embedded PC and (blue) camera set and illumination.



Where we can help – Drones and UAVs

Intelligent Unmanned Autonomous Systems – Operational Safety

Operational Safety

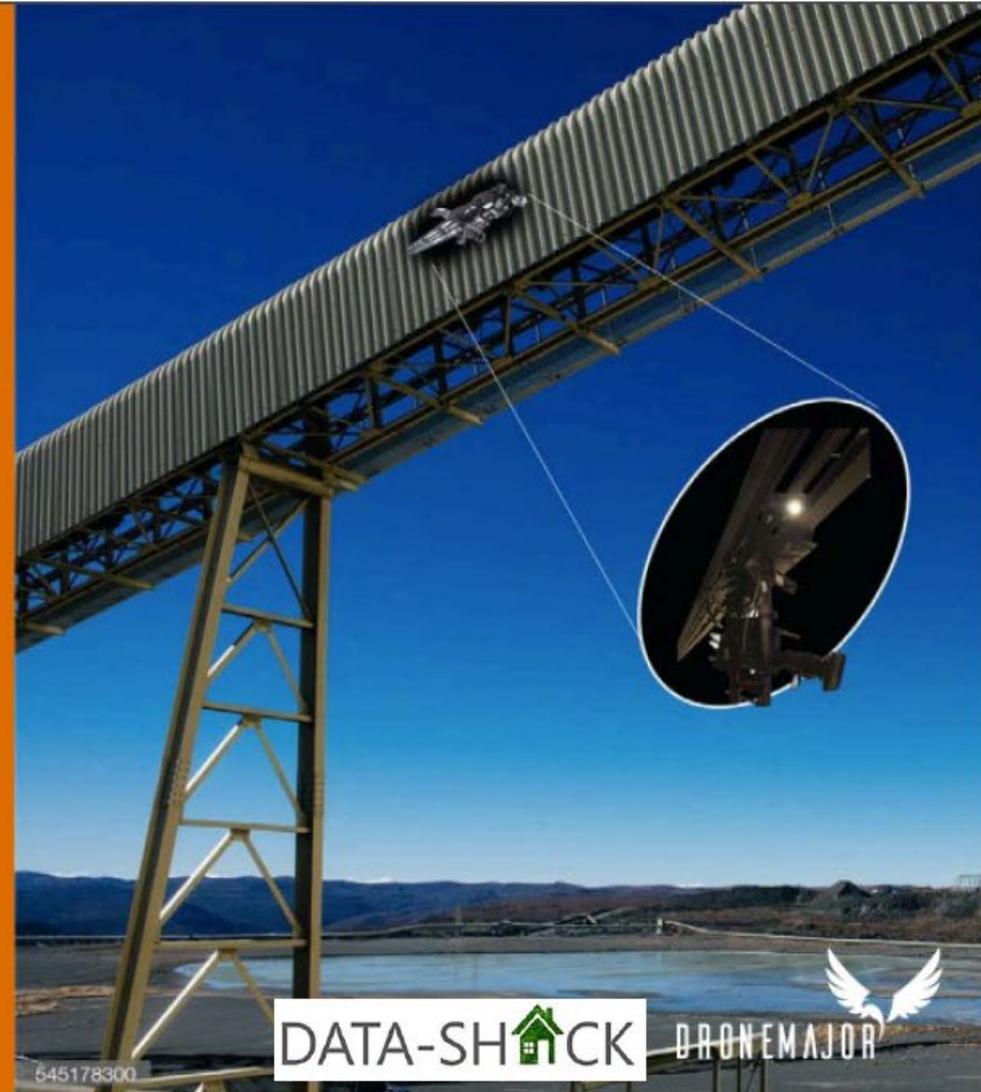
Advanced Robotic Surveillance (ARS)

Employing advanced rail or free moving robotic/drone systems in high risk/hot areas will increase safety, close blind spots and provide significant deterrent against opportunistic theft. Built in light and infra red systems can add depth to detection and ensure that operations continues even in zero visibility.

Object Removal Detection (ORD)

ORD technology enables cameras to rapidly detect the removal or 'change of state' of any key asset or access cover. Operating outside of the 'Rule' system, the ORD can detect every time a port cover is removed whether 'authorised' or not ensuring 100% detection allowing statistical analysis processes to identify:

- permitted removals
- extended removals
- simultaneous removals
- removals during alarm shutdown periods



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DATA-SH  CK

 DRONEMAJOR

Where we can help – Drones and UAVs

Intelligent Unmanned Autonomous Systems – Operational Safety

Close Surveillance

Close Surveillance Air Drones

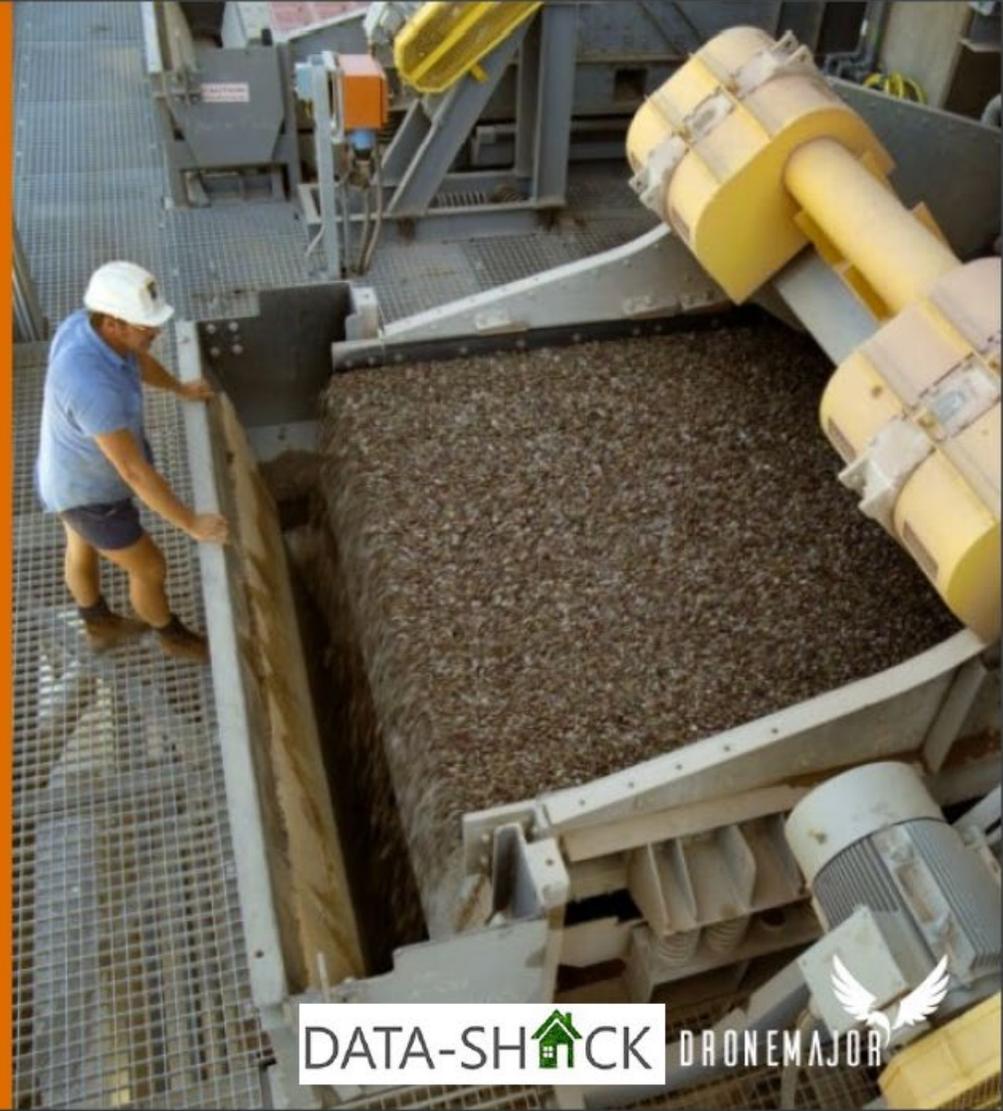
Employing facial recognition allows autonomous systems to determine who is working in high-risk/hot areas and enables Close Surveillance Drones (CSDs) to follow the movements of individuals operating in those areas.

Drone systems available for this purpose range from medium range systems designed for outdoor or open space areas to small 'blade safe' systems designed for short term, enclosed space deployment.

Air drone systems come with obvious limitations in terms of operation time so auto-recharge and banked systems can be employed continuous availability. Alternatively, robotic arm cameras or ground based autonomous systems can be used to enhance durability and increase operational up to time to perpetual levels.

Object Recognition & Detection

ORD technology employed in close surveillance drones can enable behavioural analysis determined from body movements and even tracking of hand movements which can then be automatically analysed against norms or requested from the drone over audio link.



Where we can help – Drones and UAVs

Intelligent Unmanned Autonomous Systems – Inspection & Maintenance

Inspection & Maintenance

Remote handling technology

In all areas handling materials where risk of injury is high or diamonds are exposed or easily retrievable, more stringent operator control is required and advances in remote technology are developing rapidly with highly successful implementations already in place in the nuclear and manufacturing sectors.

These advances provide efficient and cost-effective solutions which would reduce operator exposure to sensitive areas, reducing lifecycle costs and increasing safety levels.

In view of the use and benefits of remote handling technologies, as well as recent technical and economic developments in the area, this technology is a viable first step to total automation.

Humanoid Engineers

Long term aspirations to totally remove the need for employees to enter high risk red or even pink areas of a facility could be achieved with the use of remote controlled humanoid engineers and operators. This technology is sufficiently advanced now to enable a proof of concept trial to be achieved with limited tasks in order to identify issues and move towards an eventual goal of total automation.



DATA-SHOCK



Where we can help – Drones and UAVs

Intelligent Drones – Environment (inclusive of Health & Safety)

Wide Area Surveillance

Perpetual surveillance providing 100% visibility of activity across the site, at the perimeter and beyond enhancing safety and security.

Counter Drone Security

The ability to detect, identify and track drone activity around maritime mining assets is essential to ensure that stolen material is not removed from the vessel.

Operational Safety

Automation of operational procedures at every level of the mining process can improve safety and efficiency and minimizing human interface points.

Close Surveillance

Where human access in high risk areas is essential, close surveillance systems can significantly enhance safety and security.

Inspection and Maintenance

Advanced inspection systems with layered repair capabilities linked to advanced data analytics to enable predictive maintenance.

Geological Surveying

Advanced prospecting, landscape and environment monitoring technology



Where we can help – Drones and UAVs

Intelligent Drones – Environmental Surveys

Surveying

Unmanned Aerial Systems (UAS) are turning the mining sector into an emerging frontier for new technology, and in recent years have helped the industry find more economically viable and safer ways to map deposit sites and explore for minerals.

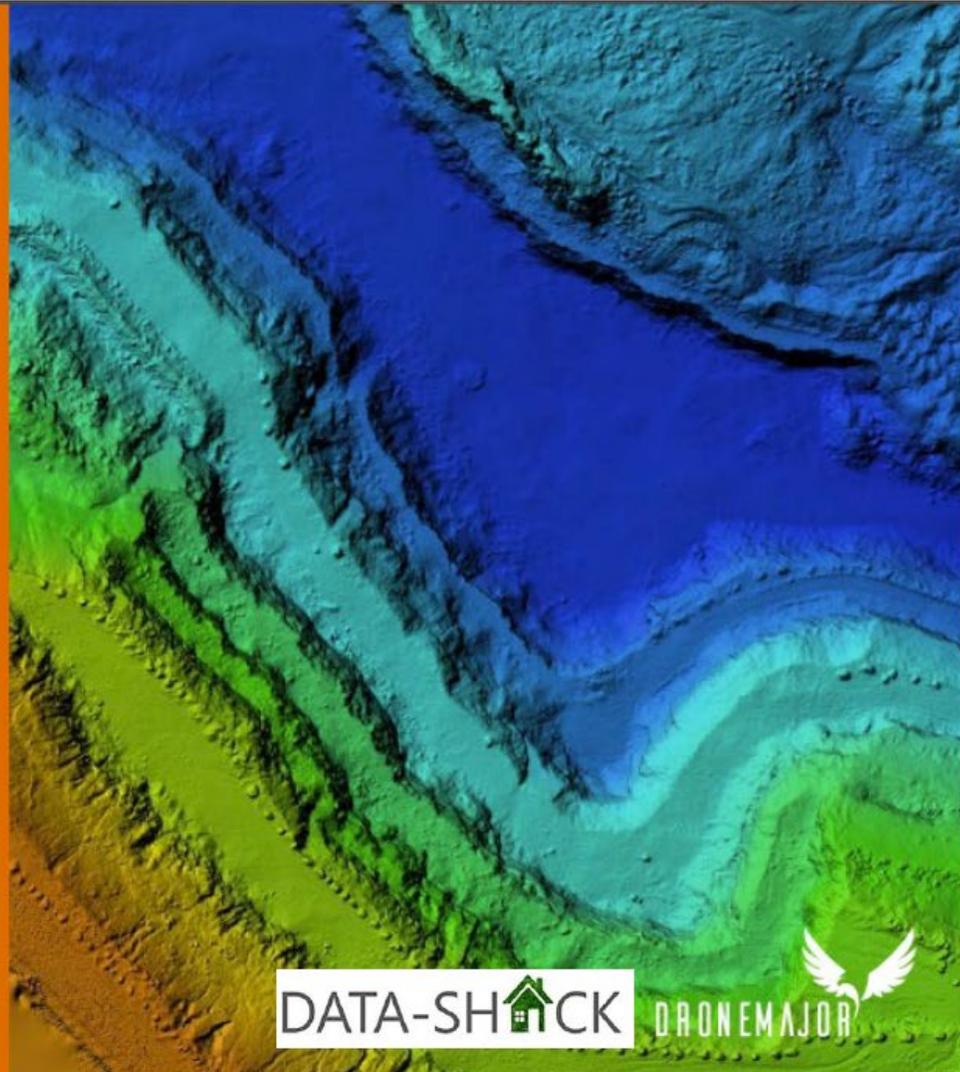
With the ability to monitor stockpiles, map exploration targets and track equipment, the potential applications for drones in the mining industry are practically limitless.

UAS offer tremendous efficiency and cost advantages in every part of the mining life cycle including exploration, planning/permitting, mining operations and reclamation.

Tasks that were hard to accomplish even a year ago are possible with the latest drone models, with some of the biggest gains being seen in the mining and mineral exploration industry

Air drones can map an area in high resolution in less than a day, usually a couple of hours.

The cameras the latest drone systems have also benefited from recent advancements in small, high-resolution sensors which can penetrate the ground using a variety of methods to provide effective surveying for a range of minerals and deposits.

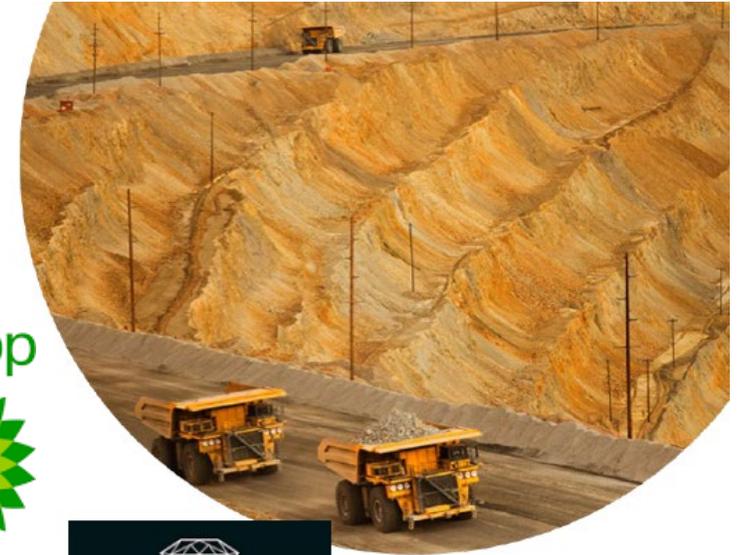


Where we can help – Customer Success

Customer Success



Our Large Customers using these Tools:
World-class organizations making data-driven decisions to compete and win



Where we can help – Agile/Lean Methods

Training, Certification, Implementation & Consulting



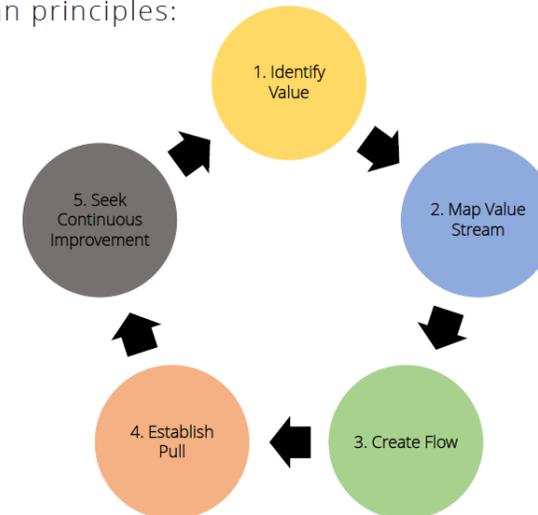
Objectives

At the conclusion of this module you will be able to:

- Understand the beginnings of Six Sigma.
- Understand the Basic Equation of Six Sigma $Y = f(x)$.
- Understand the overall approach and application of the DMAIC methodology.

What is Lean cont.

- There are five Lean principles:



What Does The Customer Want?

Lean Six Sigma starts and ends with the Customer

- Who is the Customer?
- What does the Customer want?

BUYING CUSTOMER	OWNER/SHAREHOLDER
On-time delivery	X% profit
Technical support	Y% growth
Better products	Positive company image
	Low inventories
COMMUNITY	EMPLOYEES
Jobs	Job security
No noise and smell problems	Training opportunities
Support for sports clubs / schools	Good salary
	Good working conditions



Where we can help – Generative AI

Areas of Expertise:

- *AI Strategy*
- *Implementation*
- *Machine Learning*
- *LLM's*
- *Natural Language Generation*

Client Success:

A non-Profit in Africa to support local habitats and mitigate the poaching of animals.



Where we can help – Digital Twins, Security & RPA

Digital Twins (joint projects) – AI/ML Algorithms to make smart decisions working with DT Technologies for De Beers, Anglo American Platinum (SA, Canada, Botswana, Namibia).

Consulting, Implementation & Training



Security (joint projects) – AI/ML Algorithms as part of Illicit Diamond Trade (Loss Prevention & Security Projects) for De Beers (SA, Canada, Botswana, Namibia).

Consulting, Implementation & Training



RPA (joint projects) – Project for Amex AME, working with DataRobot and other Tech to use RPA to work with our AI/ML Algorithms as part of Customer Credit Scoring, Next Best Action Marketing Predictions to make smart purchase suggestions, etc.





Keep the
Partnership
Growing!

Current Courses with Duration, Costing & Volumes (no new Development needed): TOTALLING

Beginner Level	Spotfire Fundamentals I Duration: 2 x 4 Hours Medium: Online Cost pd & total: \$3000 Frequency: 2 per year	MS Power BI Fundamentals I Duration: 2 x 4 Hours Medium: Online & On Site Cost pd & total: \$3000 Frequency: 1-2 per month	MS Power BI - Dashboard in a Day Duration: 2 x 4 Hours Medium: Online & On Site Cost pd & total: \$3000 Frequency: 2 per year
Intermediate Level	Spotfire Fundamentals II Duration: 2 x 4 Hours Medium: Online Cost pd & total: \$3000 Frequency: 2 per year	MS Power BI Fundamentals II Duration: 2 x 4 Hours Medium: Online & On Site Cost pd & total: \$3000 Frequency: 1-2 per month	Spotfire/MS PBI DOJO's Duration: 8 x 4 Hours Medium: Online Cost pd: \$3000, total \$12000 Frequency: 1-2 per year
Advanced Level	Advanced Spotfire for Statistical Analysis Duration: 4 x 4 Hours Medium: Online Cost pd: \$3000, total: \$6000 Frequency: None	Advanced MS Power BI for Statistical Analysis Duration: 4 x 4 Hours Medium: Online Cost pd: \$3000, total: \$6000 Frequency: 4 per year	Data Science with Orange Duration: 8 x 4 Hours Medium: Online Cost pd: \$4000, total \$16000 Frequency: None

Current Courses with Duration, Costing & Volumes (no new Development needed)

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Courses we offer already with Duration, Costing & Volumes (Suggested New Format – no new Dev needed)

Beginner Level	Spotfire Beginner Duration: 2 x 4 Hours Online \$3000	MS Power BI Fundamentals I Duration: 2 x 4 Hours Online & On Site \$3000	
Intermediate Level	Spotfire Intermediate Duration: 2 x 4 Hours Online \$3000	MS Power BI Intermediate Duration: 2 x 4 Hours Online & On Site \$3000	
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