

&Oildex

Driving Digital Innovation

Enabling Industry 4.0 for Oil & Gas Operations

Safety Moment

- Tools
- Process
- Precautions



Digital has defined the 4th Industrial Revolution

1700's

First Industrial Revolution



Technology was steam and water powering the first factories

1800's

Second Industrial Revolution



Electricity made possible the division of labour and mass production

1900's

Third Industrial Revolution



IT enabled programmable work and an end to reliance on manual labour

Today

Fourth Industrial Revolution

Connected



Cyber-physical systems, powered by IoT and fuelled by data, create a fully interconnected society

Unprecedented pace



Connected chaos

a 50.

2020** including sensors,

Extreme experiences



1 75_%

By 2025, the makeup of the

Digital natives







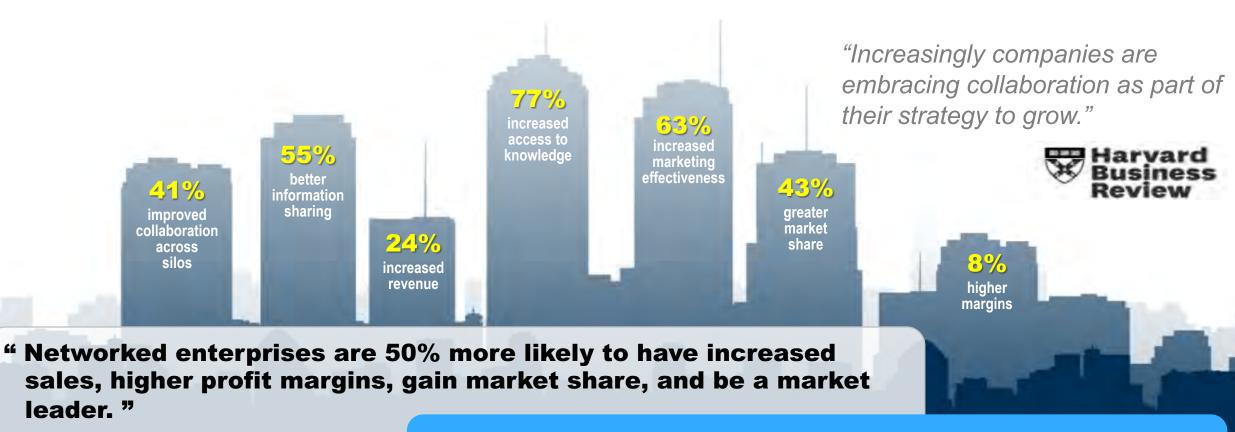
It has changed our lives....







...and how we do business



Value is derived from the network effect.

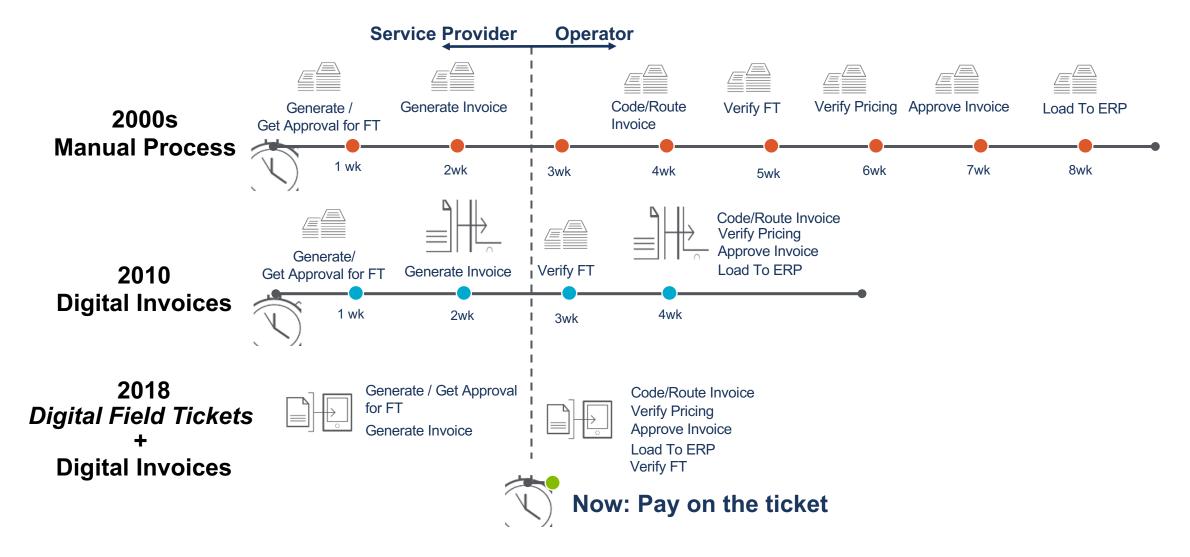
The more relevant the network, the stronger the platform

Source: McKinsey & Company, "The rise of the networked enterprise, Web 2.0 finds it's payday." Survey of 4,394 executives. December 2010





The Digital Factory







Forbes CommunityVoice Connecting expert communities to the Forbes audience. What is This?

12,214 views | Jan 23, 2017, 09:00am

Why Every Company Is A Technology Company



Forbes Technology Council ①

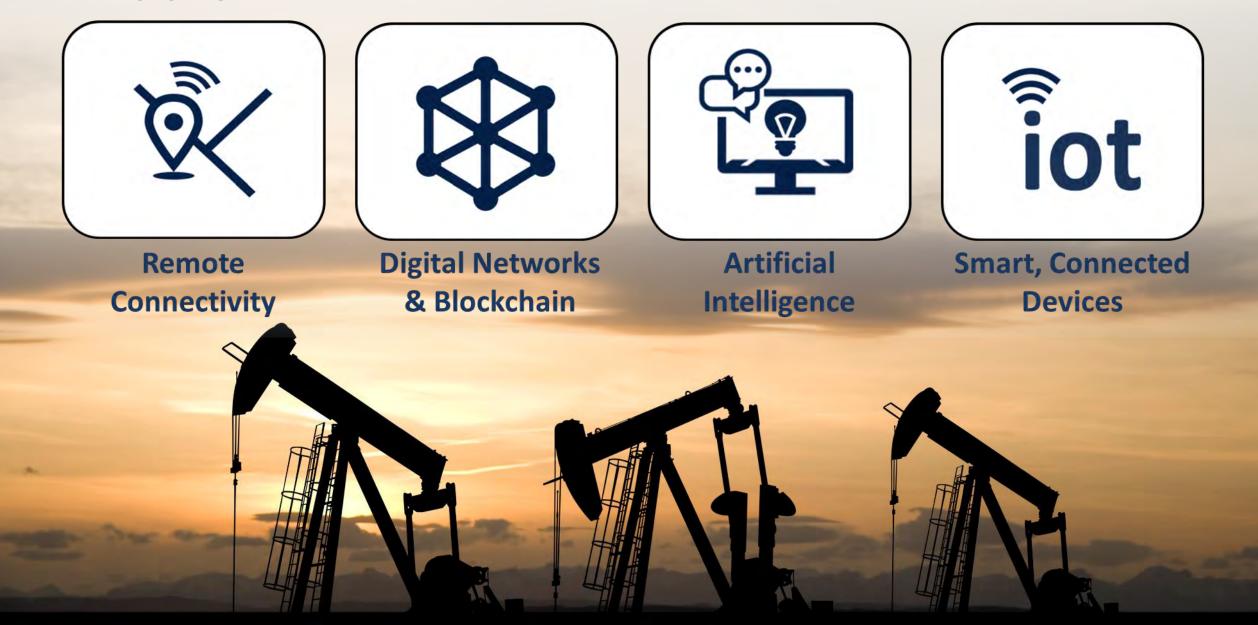
POST WRITTEN BY

Stephenie Stone

Stephenie Stone is CIO Americas at M+W Group, a global high tech design and construction firm.



Supply Chain 4.0: Evolution not Revolution





Easy access to quality information, everywhere!









CONSISTENCY

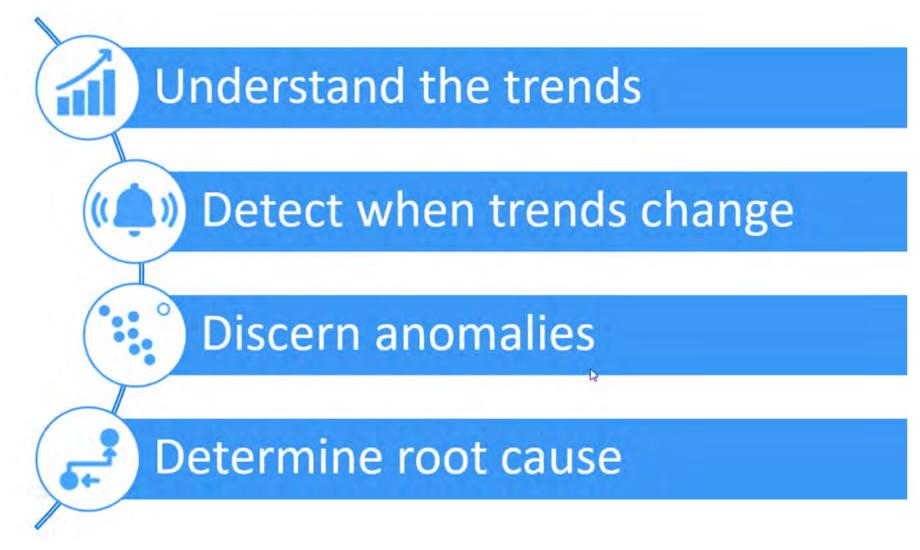
COMPLETENESS

CORRECTNESS

CURRENCY



Gaining Intelligent Insight with Al







Data Driven Digital Innovation

Robotic Process Automation

- High volume, simple, repetitive tasks
 - Contract management
 - Supplier Relationship & Risk Management
 - Supplier Onboarding & Enablement
 - Tactical Buying
 - Category Management
 - Procurement Performance Management
 - Spend Management & Visibility

Virtual Assistants

- Collaborative helper
- Augment decision making
- Drive compliant processes
 - Guided Buying
 - Operational Support
- Proactive information Provider
- Knowledge Worker

Cognitive Analytics

- Cause something to happen
- Acts independently
- When do we let the computer pull the trigger itself?

"Source to Contract is becoming predictive, Purchase to Pay is becoming automated, Supplier Management is becoming proactive, and these are all empowered by analytics and strong operational management." - Deloitte 2017 CPO Survey



Forbes Billionaires Innovation Leadership Money Consumer Industry Lifestyle

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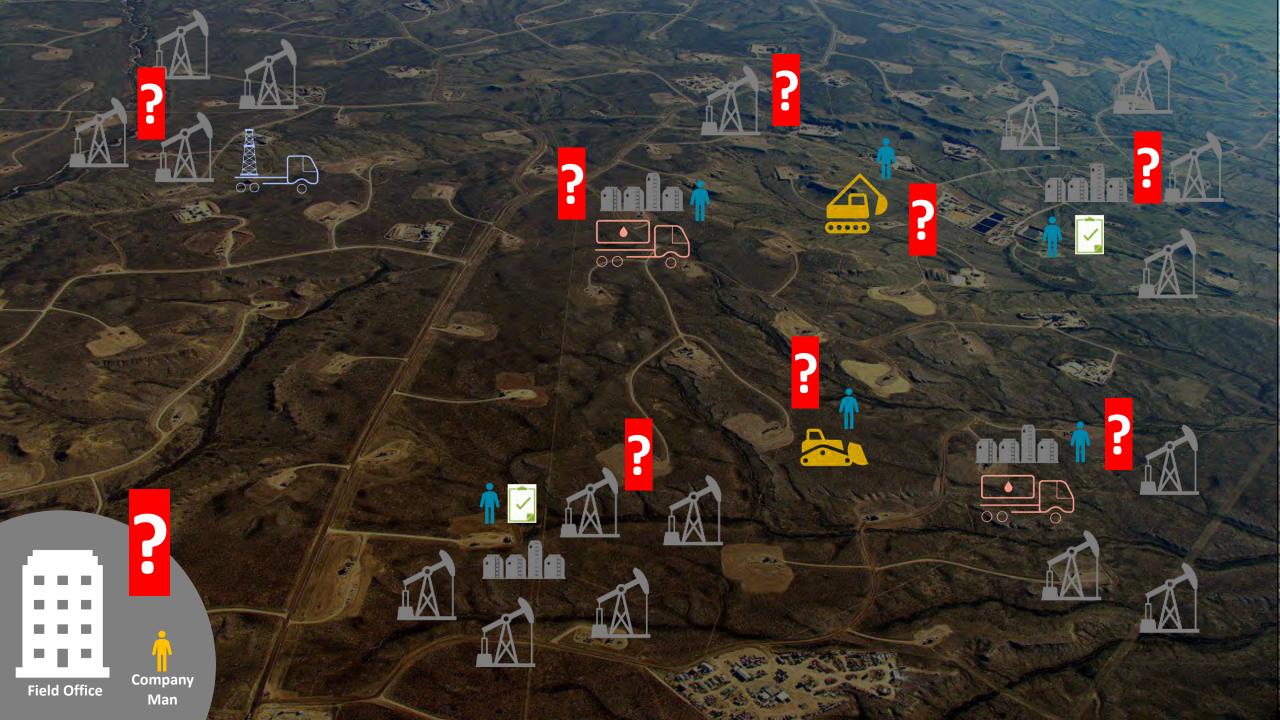




It is impossible to be data-driven without data

"Digital transformation ... is now a top business priority for a majority of oil and gas companies."

- Gartner



The Virtual Company Man



Remote Connectivity



Digital Networks & Blockchain



Artificial Intelligence



Smart, Connected Devices



Field Office







Crescent Point Reduces Costs and Improves Processes with Digital Field Tickets

Situation

- Strategic initiative to use digital data to improve operations
- Paper-based tickets were costing \$2 million/year, lengthening invoice cycle times, masking billing issues, and increasing risk of duplicate and/or fraudulent billing

Solution

- Added OpenTicket to existing OpenInvoice deployment,
- Integrated *OpenTicket* with their Reporting system
- Initial roll out in South Saskatchewan

Results

- Achieving projected cost savings
- Reduced invoice processing times
- Click-of-a-button reports
- Easy monitoring of ticket lifecycle
- Process and procurement improvements
- Very positive supplier acceptance



"Field Ticket is integral in getting more granularity in the data, having that detail and transparency from the vendor and our field staff. It allows us to better assess where problems are."

Lisa Howland
Manager, Operations Accounting





Data-Driven Digital Oilfield 4.0



D&C Operations

Safety support by eliminating unnecessary travel

Digital field ticket data feeds **Morning Reports**

Rentals support

More accurate **cost management**

Better operator/supplier relationships



LOE Operations

Safety support by eliminating unnecessary travel

Digital field ticket data accelerates cost and operations understanding

"Virtual Company Man" concept

More accurate accruals

Operational information provided as services performed

Better operator/supplier relationships



Business Processes

Streamline field ticket & invoice review/coding/approval process

Fraud detection

Push processing as far forward as possible, reducing back office effort

Reduced knowledge worker involvement in approval process

Early Pay Discounts

Service Providers Get paid faster!



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