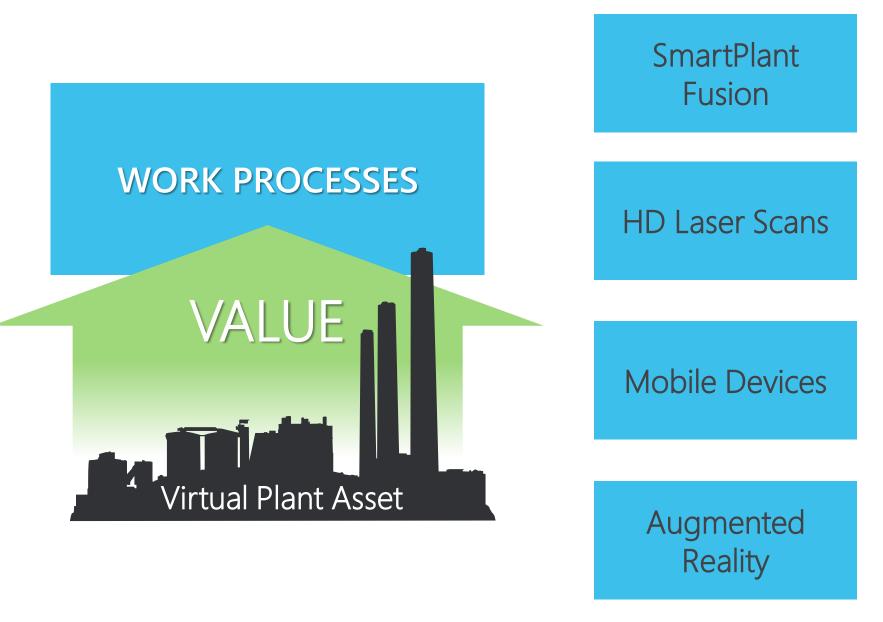
Exploiting Innovative Technologies To Improve Operations & Maintenance Effectiveness



Jens Olav Nordanger Sales Manager Norway, Intergraph PPM Kasem Challiou Global Alliance Manager, eVision

evision[®] INTERGRAPH[®]



Capturing The Brownfield Digital Plant Asset

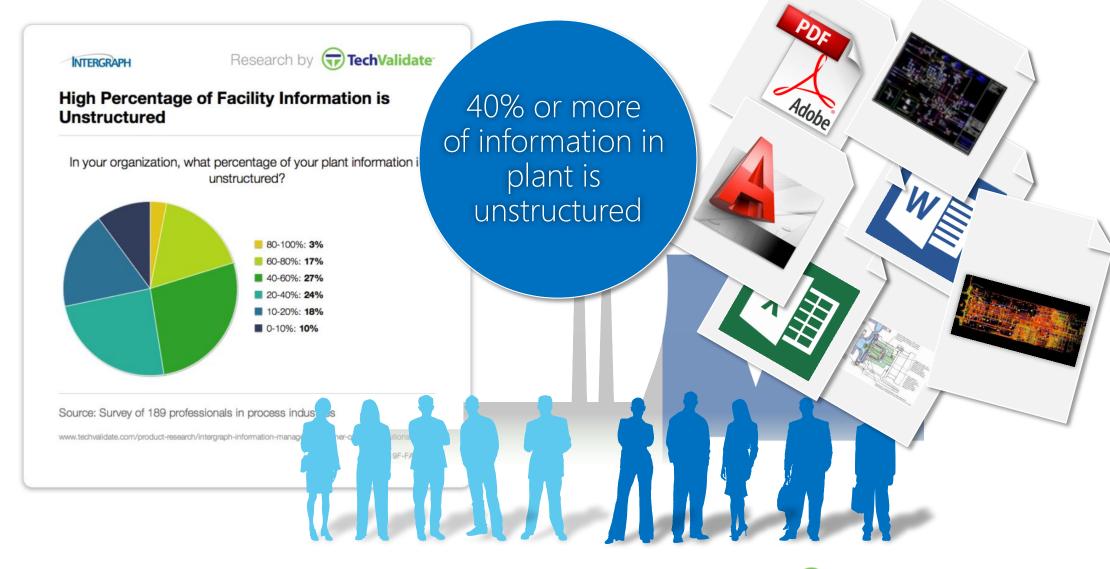
Vision vs. Reality

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Impacting Processes

Evision[®] INTERGRAPH[®]

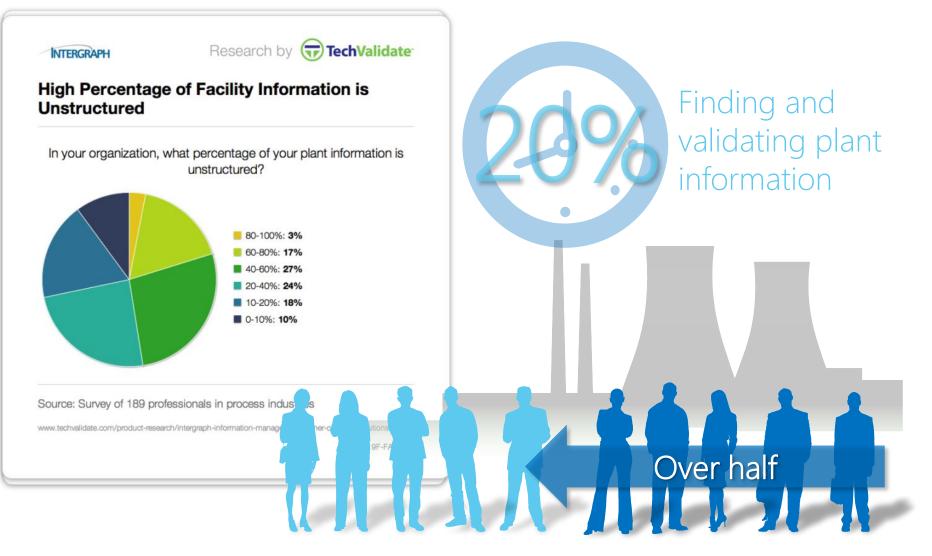




SOURCE: TechValidate survey of professionals in process industries (March 2014)

Impacting Processes

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SOURCE: TechValidate survey of professionals in process industries (March 2014)

For which plant activities is the need for ready access to trustworthy information most critical?



Evision[®] Intergraph[®]



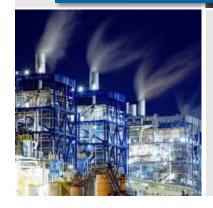
The Cost of Poor Asset Information



Annual Losses - 1.5% of Sales and Increased EH&S Risk

1.5% of annual sales, per year

Includes losses from availability, operating inefficiencies, higher CAPEX for modifications, and increased maintenance. *Source: Asset Information Management, Part I – the Case for Developing an AIM Strategy; ARC Advisory Group, July 2010*



ARC

Advisory'Group

HIGHER CAPEX IONIVIOUS (U.2% OF Sales)

Higher Maintenance Costs (0.3% of Sales)

Source: Asset Information Management, Part I – the Case for Developing an AIM Strategy; ARC Advisory Group, July 2010

What SmartPlant Fusion Does... evision INTERGRAPH

Rapid Capture

Identifying Best Masters

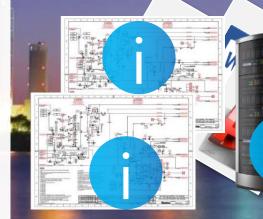
Extract intelligence & creates links

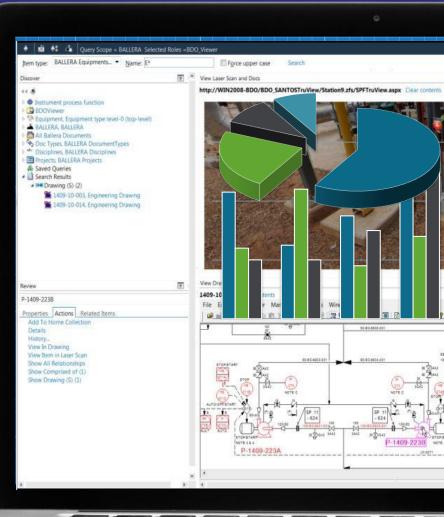
Quality Control & Reporting

Single point of access to engineering information

Manage and Re-use

Authority of the second of the







Maintenance Management System

FIELD OBSERVATIONS

Record Observations Report & Manage Create Field Change Request



CONTROL OF WORK

Assess Task Risks

Plan Isolations

Manage Work Permits

3D TRAINING SIMULATIONS

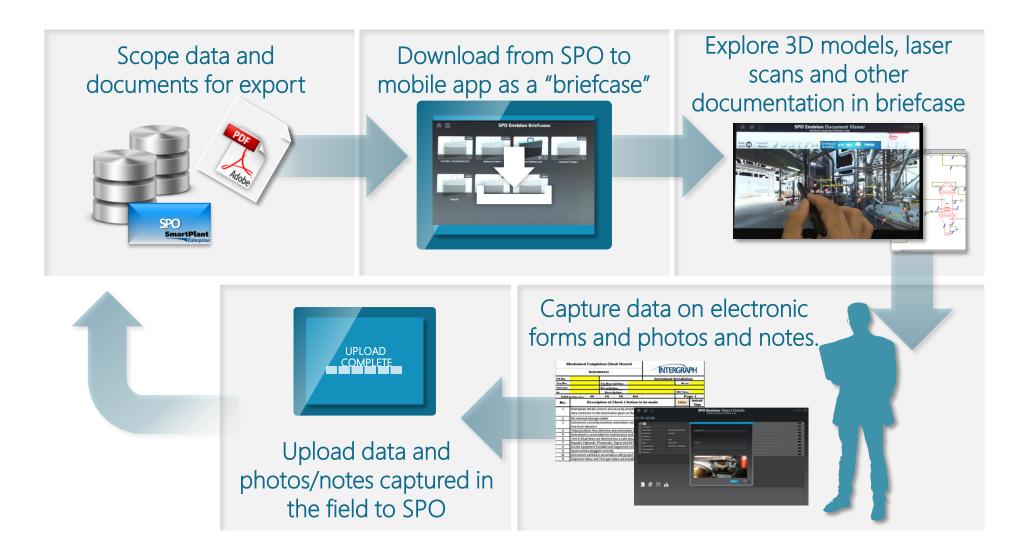
Quick setup Conduct Training

ENGINEERING INFORMATION

MANAGING FIELD OBSERVATIONS & CHANGE REQUESTS



SPO Mobile Applications – Offline Access to Information and Documentation –



SmartPlant Mobile Applications













GeoTagging

Briefcases









Maintenance Management System

FIELD OBSERVATIONS

Record Observations Report & Manage Create Field Change Request

CONTROL OF WORK

Assess Task Risks

Plan Isolations

Manage Work Permits

3D TRAINING SIMULATIONS

Quick setup Conduct Training

Certify Results

ENGINEERING INFORMATION

Innovations In Control Of Work

"...eVision sets the industry standard for frontline operational safety via innovative robust software solutions and services on the cross roads of technology and creation. eVision continuously strives for inventive and original solutions with maximum focus on safety, usability and design..."





Maintenance Management System



ENGINEERING INFORMATION

🖯 List	? Help	All sites	•	
Filter	: Not set			
Permit I	MATIMBA-00003	(20 May 2015 15:30)		
	Site:	МАТІМВА		
		LAUNCHER		
	Status:	Draft		
Hot work	Title:	Replace launcher		



1 to 1 of total 1. Page size: 10











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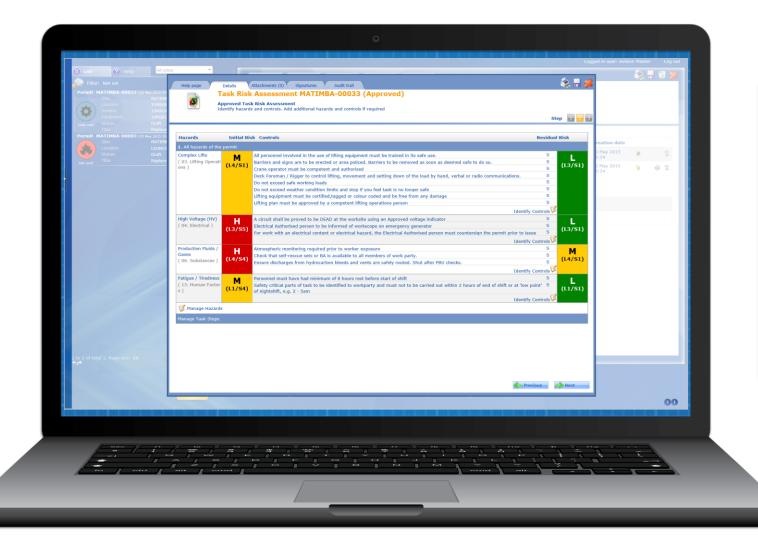


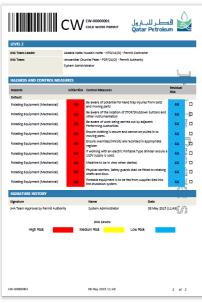






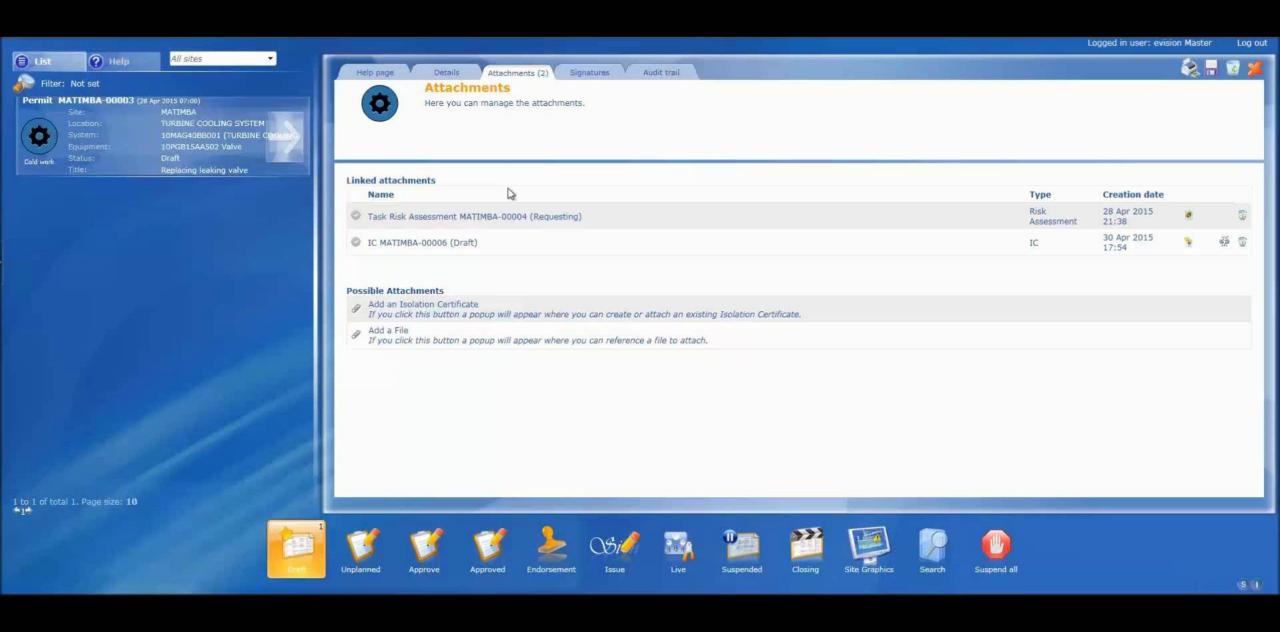
Summary Creation of Permit and Risk Assessment





PERMIT DETAILS				
ihort Description of Work	Replace Turbine Cooling System			<u> </u>
Detailed Description of Work	test			
ocation of Work	Production Platform - Upper Deck 3B-A-C2			
icheduled Start	08 Mey 2015	Scheduled End	10 May 2015	1020
Tag Number	53-NRV-0222	Tag Description	BH-27 53-PCV-6	LUISNRV
Iquipment Description	VALVE, CHECK	Maintainable Group	A3386A	
Discipline		WO No		
HA Level	Level 2			
Additional Precautions				
ASSOCIATED PERMITS / O				
Permit No	N/A			
HRC	NA			
Supplementary Certificate	N/A N/A			
				<u>9.45 q</u>
GAS TEST				
Ses Tester	Date/Time	Substance	Value	N L S
SIGNATURE HISTORY				
lignature	Name		Date	
Request Permit by Permit Appl	icent System Ad	aministrator	08 May 2015 (11×	۹UN
request Permit by Permit App				







Isolated Requests State State

Summary Creation of Isolation









Maintenance Management System

FIELD OBSERVATIONS

Record Observations Report & Manage Create Field Change Reque

CONTROL OF WORK

Assess Task Risks

Plan Isolations

Manage Work Permits

3D TRAINING SIMULATIONS

Quick setup Conduct Training

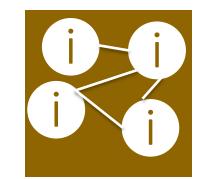
ENGINEERING INFORMATION



SmartPlant Fusion Benefits



Rapid Capture of Documentation



Extract intelligence and create links



QC and reporting



Single point of access



Field Observations Benefits



Mobile replaces paper



Avoids data errors and gaps



Easy to consolidate and manage



Positive ID of equipment in the field



Control of Work Benefits



Increase of plant floor efficiency



Reduce effort to perform risk assessments and draft permits



Minimize risk and maximize safety

Exploiting Innovative Technologies To Improve Operations & Maintenance Effectiveness

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Thank You

