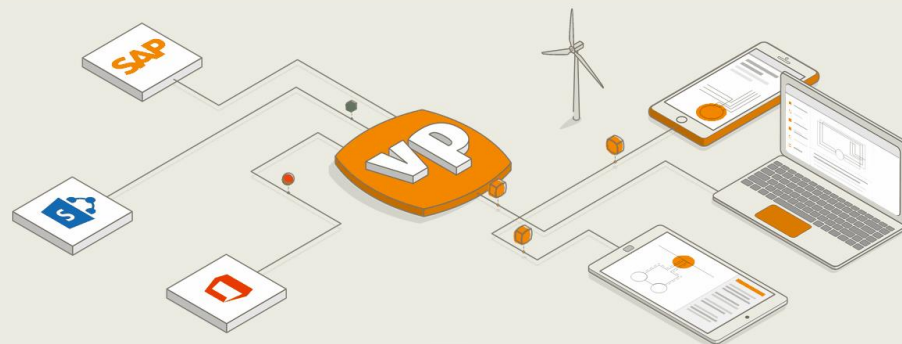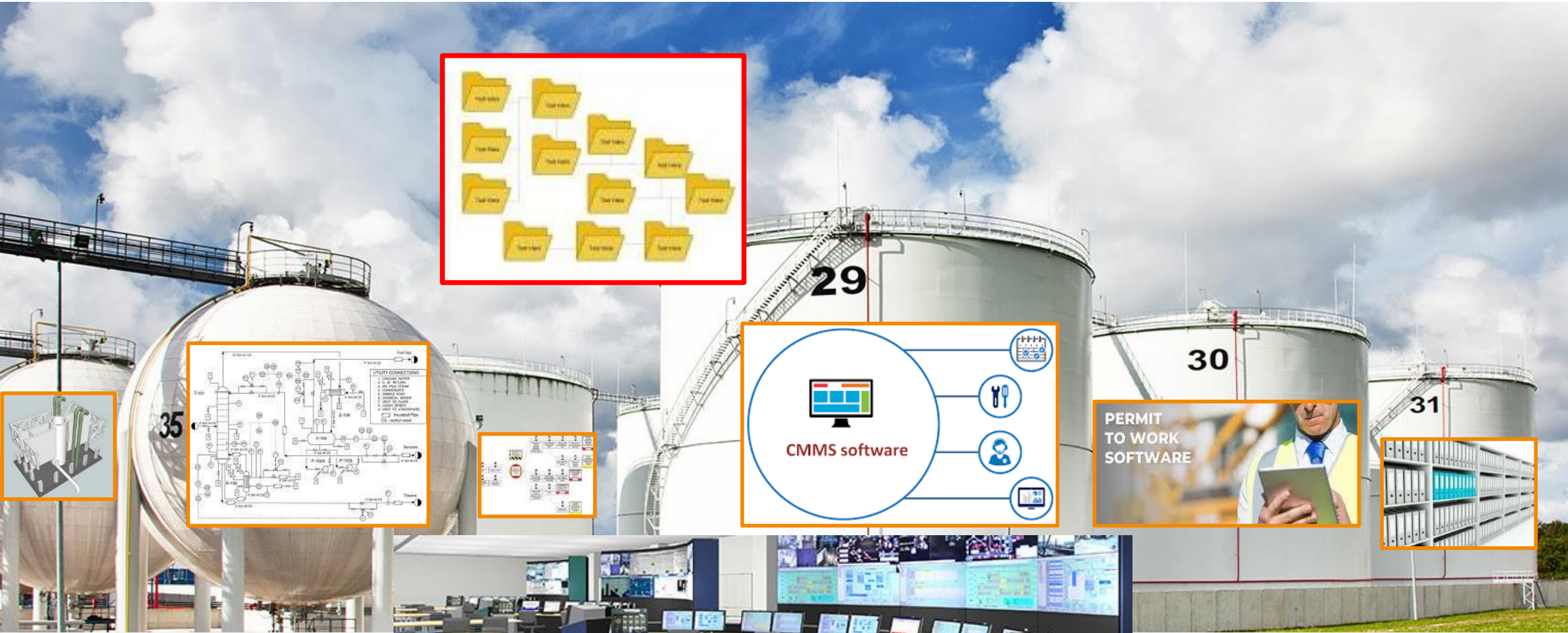# EPSC Digitalization
Digital Transformation in Isolation Management

Sensible Asset Information for
Man, Machine… and specifically Mario

Viewport.ai

Information Silos

CMMS software

PERMIT TO WORK SOFTWARE

29

30

31

35

Viewport.ai

This is Mario

His work preparation is a pain

- On average Knowledge Workers spend 15%-35% of their time searching for information (IDC Study)
- Millennials take 4,5 times longer to find information in existing systems than boomers (HBR study)
- An engineer is losing 9% time switching between applications (HBR study)

He is also unsure of isolation planning quality

- Rework is between 5-10% of project costs.
- 60% of rework could be avoided if EPC had up-to-date existing asset information

Cost of not finding information

- **Job Satisfaction**
  Highly trained knowledge workers wasting time on searching

- **Plant Safety**
  What can go wrong when performing an isolation using wrong information?

- **Financial Risk**
  Use case from BP in 2008 with 100 knowledge workers (@ 80K USD/y)

  - **Not finding information: 6 Million USD/Y**
    Cost of time spend Looking for and not finding information
    (not including rework or lost opportunity costs)

  - **Rework: 12 Million USD/Y**
    Cost of time spend reworking for information not found
    (15% of time spend in duplicating existing information)

  - **Overall: 27 Million USD/Y**
    Recent study revealed this increase to for a 900 FTE facility.

Source: https://www.slideshare.net/escrimshaw/cost-of-not-finding-information-slideshare
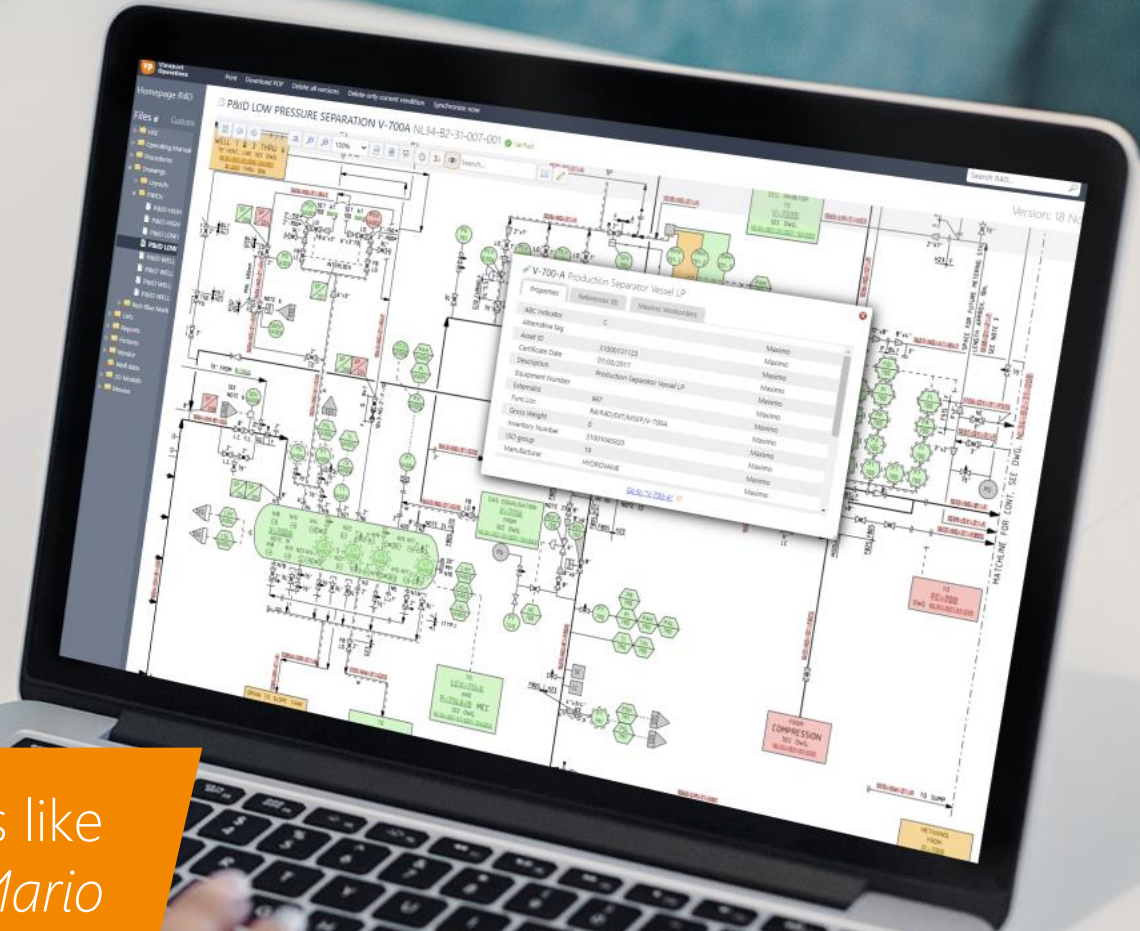
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What if Mario becomes Super Mario?

- Read ALL information from all relevant sources

- Create a smart asset model of this information

- Super-charge Work Preparation :
  - Give me all relevant document for Production Cooler B650
  - Give me all related certificates, manuals and drawings
  - Any conflicts with other scheduled work orders?

- Super-charge Isolation Management
  - Verify shutdown procedure for correct assets
  - Do I have the correct assets listed in my isolation procedure?

- Continuously scan for updates in source data

- Be assured of sensible asset information, always!

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This is what working with Asset Information is like with *Viewport.ai*, turning Mario into *Super Mario*

Sensible Asset Information for Man and Machine

Radial SG believes reliable and accessible information empowers operators, engineers and managers. With Viewport.ai we automatically combine data from existing systems and show the results in context. This enables informed decisions and continuous improvement of information quality

Compliance

Be assured your plants are compliant and control mechanisms are in place

Productivity

Increase productivity with easily accessible information of known quality.

Safety

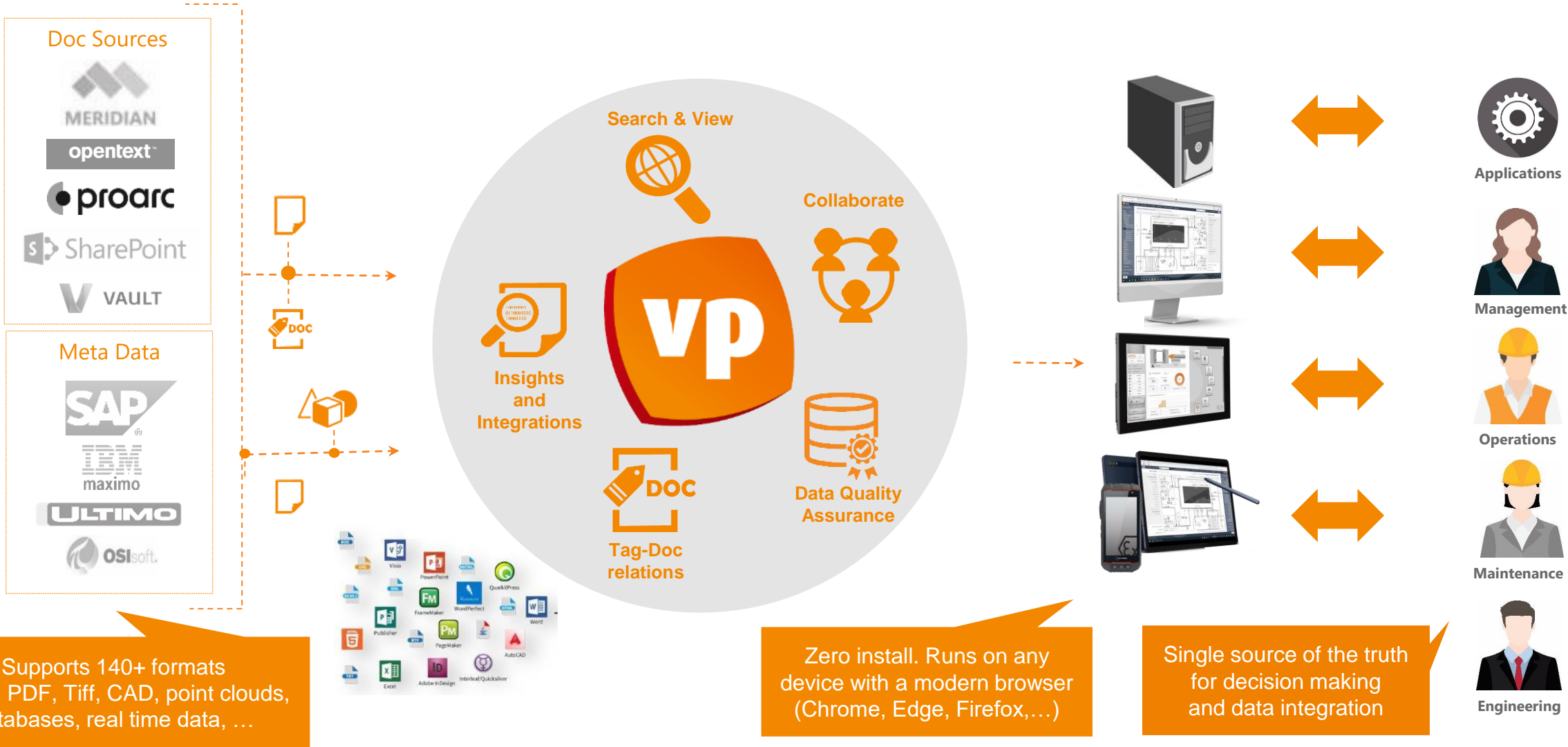Be in control of your safety critical data by keeping it up-to-date, complete and consistent

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Industry Leaders using Viewport

Renewables   Chemical   Oil and Gas   Utilities   Nuclear

Viewport.ai

Global Partner Network

Viewport: Your Single Source of Information

Doc Sources

MERIDIAN
opentext™
proarc
SharePoint
VAULT

Meta Data

SAP
IBM maximo
ULTIMO
OSIsoft.

Search & View

Collaborate

vp

Insights and Integrations

Tag-Doc relations

DOC

Data Quality Assurance

Applications

Management

Operations

Maintenance

Engineering

Supports 140+ formats
Office, PDF, Tiff, CAD, point clouds, databases, real time data, …

Zero install. Runs on any device with a modern browser (Chrome, Edge, Firefox,…)

Single source of the truth for decision making and data integration

vp Viewport.ai

5319830e.viewport.ai/Start.aspx

Viewport Operations

Administrator Tools

Search all sites...

Maximize | New tab | Feedback | Share | admin

Connected systems

Asset list
Last activity: 31 Jul 2023 12:09
Last import: 31 Jul 2023 12:09

FileSystem
Last activity: 13 Sep 2023 19:01

Meridian
As Built documents
Last activity: 13 Sep 2023 17:01
Last import: 7 Jul 2022 18:21

SAP
Last activity: 6 Jul 2022 15:06
Last import: 6 Jul 2022 15:06

SharePoint R4D
Last activity: today 16:23

Ultimo
Last activity: 13 Sep 2023 19:02
Last import: 13 Sep 2023 19:02

Wikipedia
Last activity: 21 June 2022 10:14

Sites

List view | Map view

Energy
R4D Production Unit, including PI data

137 files and pages, 645 tags
Last update: today 16:23

Water Authority
WDOD - Beilen

906 files and pages, 555 tags
Last update: 7 Jul 2022 18:21

CO2 Storage
Peterhead Carbon Capture Storage (PCCS)

65 files and pages, 126 tags
Last update: 6 Jul 2022 19:45

Wind Farm

48 files and pages, 7808 tags
Last update: 7 Jul 2022 17:57

GIS Information

8 files and pages, 3 tags
Last update: 18 Jan 2023 22:17

FPSO

1122 files and pages, 438 tags
Last update: 13 Apr 2023 16:45

Standards
ISO, NOGEPA, PGS

261 files and pages, 0 tags
Last update: 7 Jul 2022 10:00

For demo/evaluation purposes only.

News

13 Jul 2023 11:12
Verdantix names Viewport.ai Unique.

Joe Lemming from Verdantix was a guest speaker at our Innovation Day event in Amsterdam earlier this year. Following this event, he has written up the following cool blog post about Viewport:

https://www.verdantix.com/insights/blogs/s-asset-information-management-system-deploys-unique-data-discoverability-tools-for-industrial-firms According to Verdantix, "(...) Viewport is unique in how it streamlines information access through an interface familiar to industrial engineers". Furthermore, Verdantix acknowledged our integration with Yokogawa RAP, emphasizing how it improves the safety and efficiency of permitting and isolation management processes.

6 Jul 2021 17:31
Viewport 5.3

A new look and feel, handy shortcuts, improved reports and tools... Viewport 5.3 helps you work more productively!

3 Nov 2020 14:56
Viewport connects

- Document management systems, document stores like SharePoint
- Asset registers such as Maintenance management systems
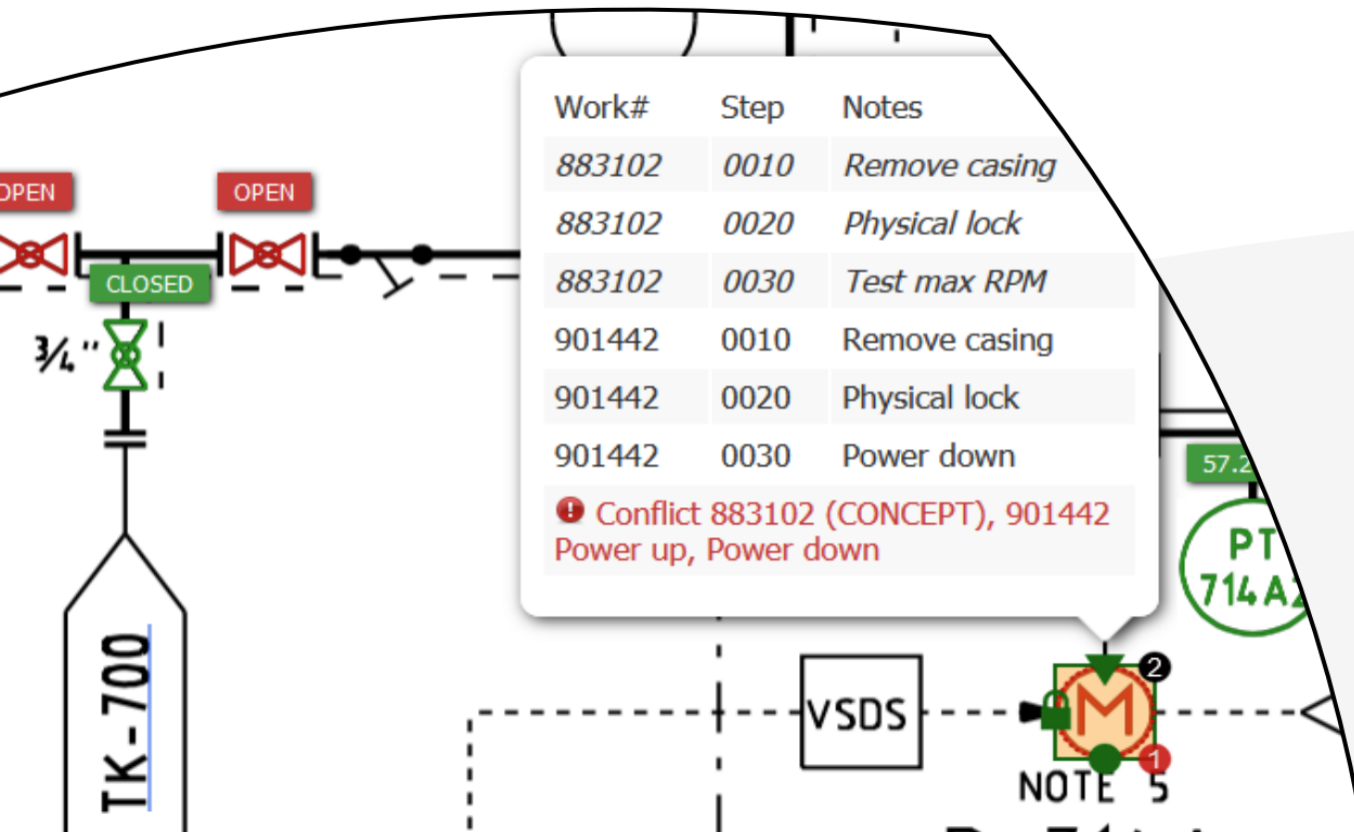
Nuclear Power Plant – Operational Management

1.400+
P&ID's

500.000+
tagged items

4000+
active work orders

100
active users daily

>10
man years saved

Work#	Step	Notes
883102	0010	Remove casing
883102	0020	Physical lock
883102	0030	Test max RPM
901442	0010	Remove casing
901442	0020	Physical lock
901442	0030	Power down

⚠ Conflict 883102 (CONCEPT), 901442
Power up, Power down

"Our partners' extensive knowledge and understanding of the industry, and their ability to translate this to a working solution based on Viewport, were key factors in making this project a success."

Bart Struyven,
Shift Manager Doel 4

Viewport.ai

Nuclear Power plant – Viewport integration

Viewport.ai

1 / 1   150%   Show SCE   Search...

TREIN R

KOUD BEEN

SI5 C2
415

FC 2   IA9292   FC
3/4"
SI1 C1
417

FC 2   IA9289   FC
3/4"
SI1 G2
499

LUS R
WARM BEEN
M
RC1 G6
RC400

FAI
HI   M
9152
LW8 F3
14"
400

FAI
LW8 D8
9155

OR-71A

OR-71B

ACCU
SI2 D1

DT13 G5

LW5 D4

FI
1209

PRT
PR1 G1
519

A291

FC 12

HH POMP
SI2 F2
516

FAI
HII   M
9174
842
3/4"
841
3/4"
1,5"
8"

SI2 F2
RC WARM BEEN
513
8"
8"
9128

DT13 G4

LW5 D4
518
TIR
FI

(LW9) D
3/4"

HZC
1206
HZC
1251
ZI
1225

Drawings (2)
Photos (0)
Procedures (0)
Wcds (0)
Tag Numbers (364)
Other sites (0)

Possible references (115)
Markup (0)
QC (255/840)
Layers (7 □ / 0 ○)
VSI

Yokogawa integrations

OpreX™ Asset Health Insights — YOKOGAWA

Exaquantum

IBM maximo

opentext™

OSIsoft.

Office 365

SharePoint

VAULT

ULTIMO

SAP

MERIDIAN

Yokogawa Cloud APP

Search & View

Collaborate

Insights and Integrations

Tag-Doc relations

DOC

Data Quality Assurance

RAP⁴

Management

Operations

Maintenance

Engineering

Viewport.ai

Number ⌄	Location ⌄	Type ⌄	Name ⌄	Reference ⌄	Equipment Name ⌄	Created ⌄	Last Modified ⌄	Status ⌄	* Start Date ⌄	* End Date ⌄	Non Conformance ⌄
						12:15	12:11				

22 records   Hide filter bar ⌃

Number	Location	Type	Name	Reference	Equipment Name	Created	Last Modified	Status	* Start Date	* End Date	Non Conformance
821	SysRoot	Isolation	Electrical lockout		DBA-3L1	06/07/2022 11:31	06/07/2022 12:17	● Complete	06/07/2022	07/07/2022	?
839	SysRoot	Isolation	Test_CS_HW_Isolation		Confined Space	20/07/2022 15:42	20/07/2022 15:42	● Definition	20/07/2022	21/07/2022	?
860	SysRoot	Isolation	Isolate Transfer Pipes from DA1 to DA2		DA Transfer	05/08/2022 15:55	05/08/2022 16:30	● Isolated	05/08/2022	06/08/2022	?
1054	SysRoot	Isolation	CB1 Isolation example		Coil Box	12/12/2022 12:25	12/12/2022 13:06	● Definition	14/01/2022	15/01/2022	?
1055	SysRoot	Isolation	CB1 All in one		Coil Box	12/12/2022 12:57	13/03/2023 11:51	● Definition	14/01/2022	15/01/2022	?
1434	SysRoot	Isolation	Example for Serica 080823		V-700-A	08/08/2023 11:04	29/08/2023 13:52	● Complete	08/08/2023	09/08/2023	?
1435	SysRoot	Isolation	Example 2		V-700-A	08/08/2023 11:28	26/09/2023 12:08	● Definition	08/08/2023	09/08/2023	?
1436	SysRoot	Isolation	Isolation test VP		Coil Box	29/08/2023 13:54	29/08/2023 13:54	● Ready	29/08/2023	29/08/2023	?
1437	SysRoot	Isolation	Test VP		Coil Box	29/08/2023 13:56	29/08/2023 13:56	● Ready	29/08/2023	29/08/2023	?

Use a Template

Refinery Benefits

PRODUCTIVITY	✓ Creating foundation for digital twin, AI/ML models and other next gen apps. ✓ 360 degree view better insights and faster decisions ✓ Increased effectivity of operators, engineers and their managers ✓ Creating nonintrusive vendor agnostic information portal
SAFETY	✓ Providing dynamic HSEQ checklists for missing or inconsistent information ✓ Minimize downtime, Maximize safe production time ✓ Reduce risk by increasing situational awareness ✓ Integrate barrier and risk management models with operational information ✓ Ensure up-to-date work instructions and procedures are available and used
COMPLIANCE	✓ Audit readiness ✓ Direct insight in information critical for "License to Operate"

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Viewport.ai Delivers A Knowledge Management System With Rich Integrations For European Energy Firms

By Joe Lamming
With Malavika Tohani

August 2023

Viewport.ai

Thank you!

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