Agenda

- Information Management Challenges
- Viewport Overview
  - Animation Video
- Demo
- Closing remarks

Present by:

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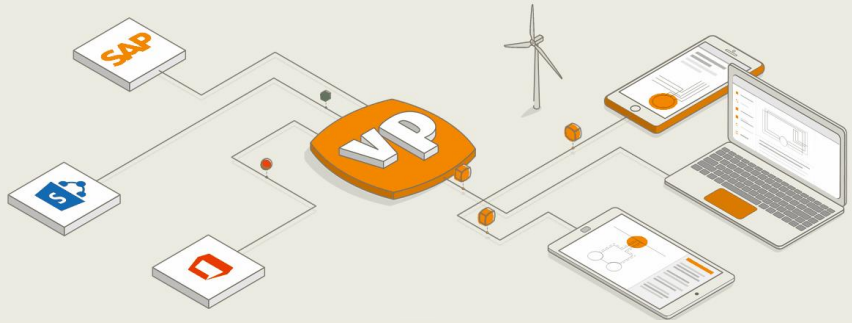
Viewport Safety Solution

AI-powered software that creates a single view of all your data



Information Management Challenges

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Process Industry Information Challenges

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- Process industry is continuously looking for ways to **optimize** its **operational processes** by **adapting technology**
- Plant & site operators and engineers **struggle** to find **the right information** in order to do perform their job **safely** & **efficiently**
- **Compliance** and **safety** are key in order to operate the business and to secure a License to Operate
- **Risk management** is changing due to the **increasing amount** of (real-time) **data** being available, whereas decision making is becoming more complex
- A lot of these problems are related to **information management**.

Our philosophy

- Asset information is stored in **fit-for-purpose** systems that are primarily meant for **managing data**, not finding and viewing data.
- To design, operate, and maintain an asset safely and efficiently, you need information from **multiple source systems**.
- To ensure data integrity, you need a single **360° view** that highlights issues with duplication, completeness, and consistency.
- A key success factor is the ability to **integrate unstructured data** in **(near) real time**

One 360° view of asset information across source systems

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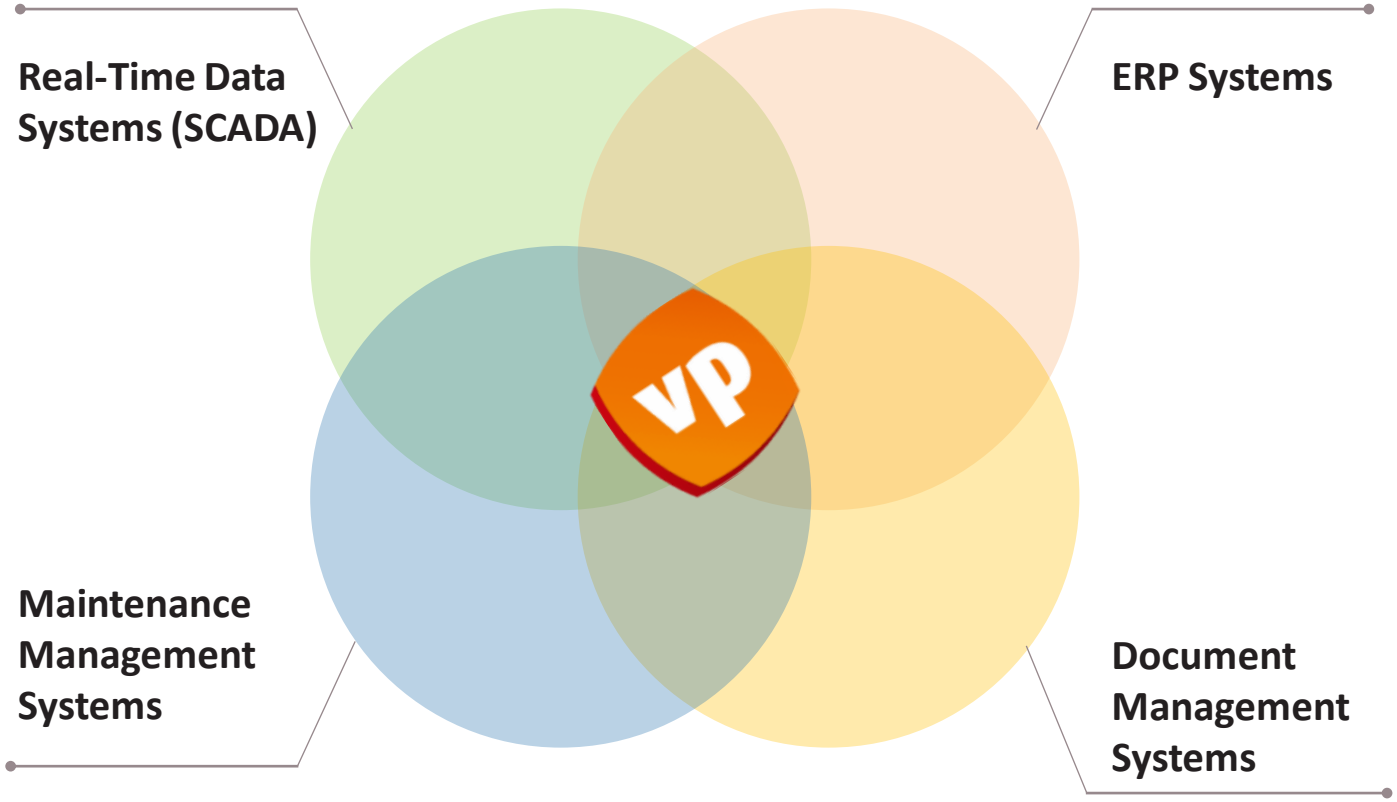

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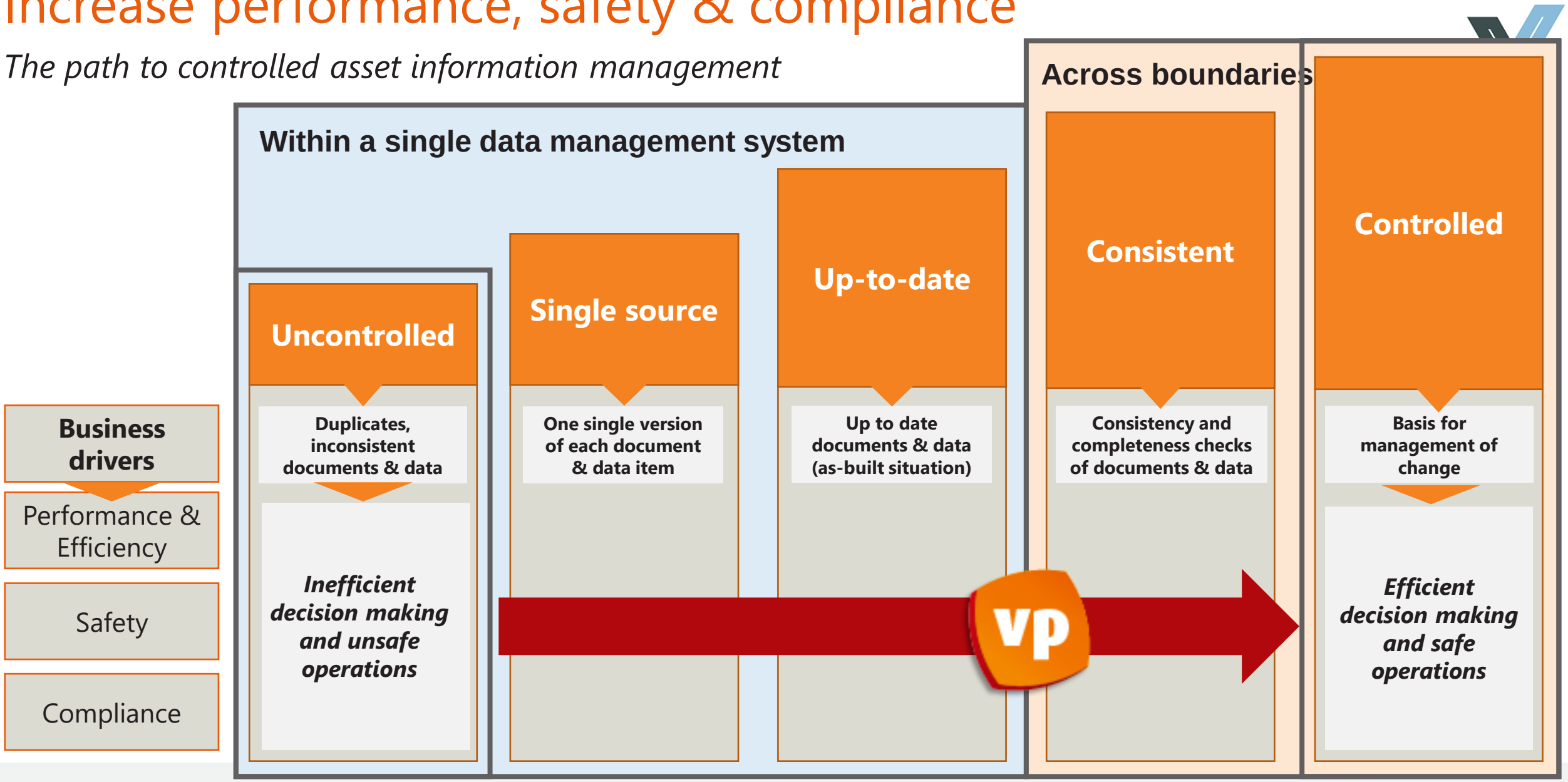
Increase performance, safety & compliance

The path to controlled asset information management



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Where Viewport can improve safety to your business

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Asset Operations & Maintenance

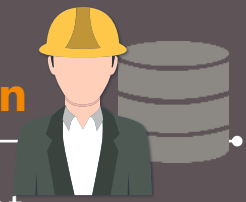
- Work planning
- Management of Change
- Inspections & maintenance execution

Risk, Safety & Compliance

- Process Safety
- Risk Management
- Standards, DEPs & Legislations

Asset Engineering

- Commissioning
- Decommissioning



Data Quality & Migration

- Data Quality improvement
- System & Data Migration

DEMO

Link to YouTube animation video:
https://www.youtube.com/watch?v=hVEvWDRli3w

Take aways

- What did you get out of this presentation?

Viewport helps to improve on

- Validation
- Data quality
- Time saving
- Make informed decisions
- Proving or verifying Compliance

And Further:

- Viewport is easy to implement
- It uses existing information and does not re-invent information, it leaves your current sources intact

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THANK YOU!

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More Info or Questions

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Information Slides

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Laura the HSE Team Lead

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Jeopardy Chem has failed the first pass of a safety audit due to undocumented safety valve maintenance procedure – Jeopardy Chem license to operate is at risk.

Laura

Another week of sleepless nights! Now I'm worried what other safety critical elements are not included in my regular maintenance programs. It takes my team weeks to cross-refence the maintenance procedures with the P&IDs, is there not a faster way?

Viewport.ai finds all cross references automatically, so you can pull-up a report of equipment not known by the maintenance system.

With Viewport searching is history, finding the future!

Super! Viewport.ai, now we can put **6 FTE** from my team to better use!

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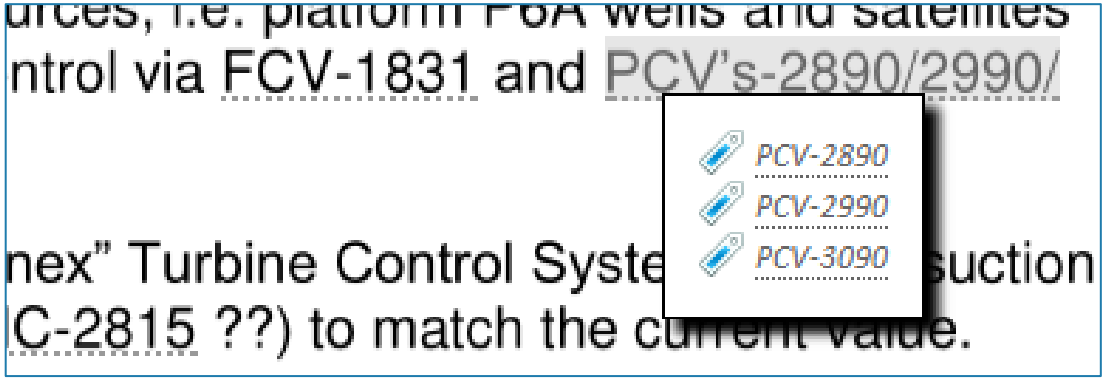
Cross-References

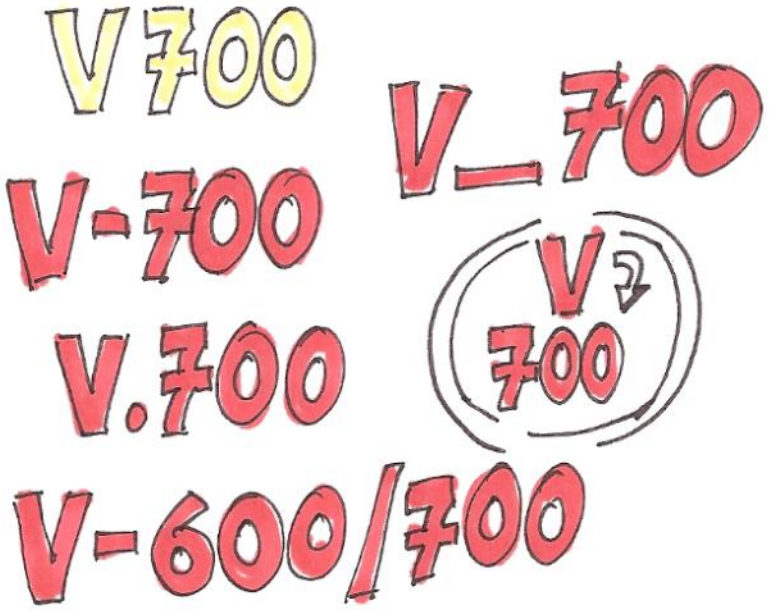
Find e.g. V-700 in:

- Drawings
- Excel Sheets
- Manuals
- Reports
- Database records
- etc.

Cross-References: Detection

- Detecting items should work regardless of spelling
- Group letters/digits visually
- Consider “hidden” references
  - “V-600/700” contains “V-700”
  - “TT-600-A..C” contains “TT-600-B”

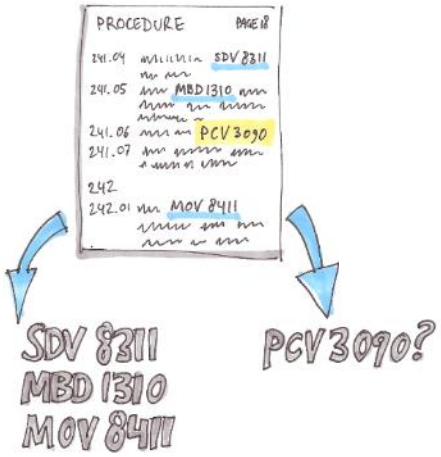


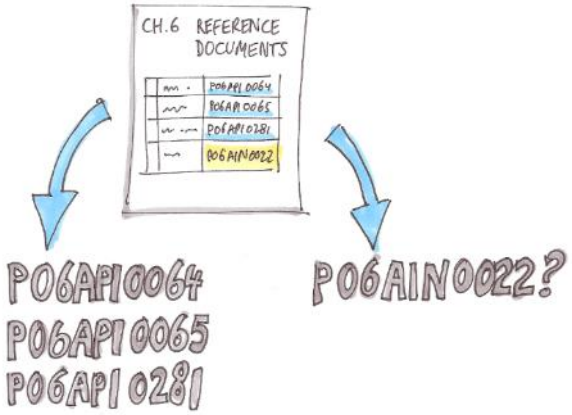


Cross-References: Consistency Checks

Using patterns Viewport finds document numbers, tag numbers, line numbers, etc. in drawings and documents…

Also those that do not exist in any source system

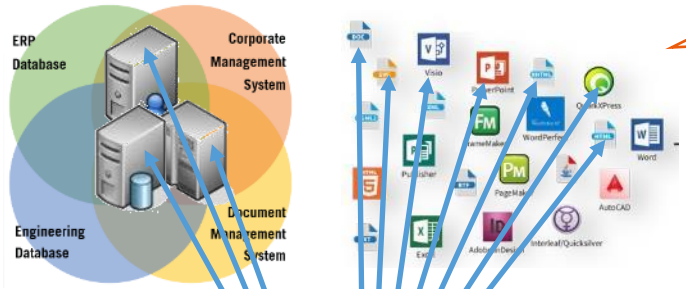




Viewport Operations Solution

Supports 30+ source systems and 140+ file formats

Office 365
MERIDIAN
SAP
opentext
SharePoint
OSIsoft.
IBM maximo
ULTIMO
VAULT



Viewport Operations

Office, PDF, Tiff, CAD, point clouds, databases, real time data, 3D models…

Connects to source systems using standard APIs / Viewport SDK to ensure content is up-to-date

Supports any device running a modern browser (Chrome, Edge, Firefox, Opera…)

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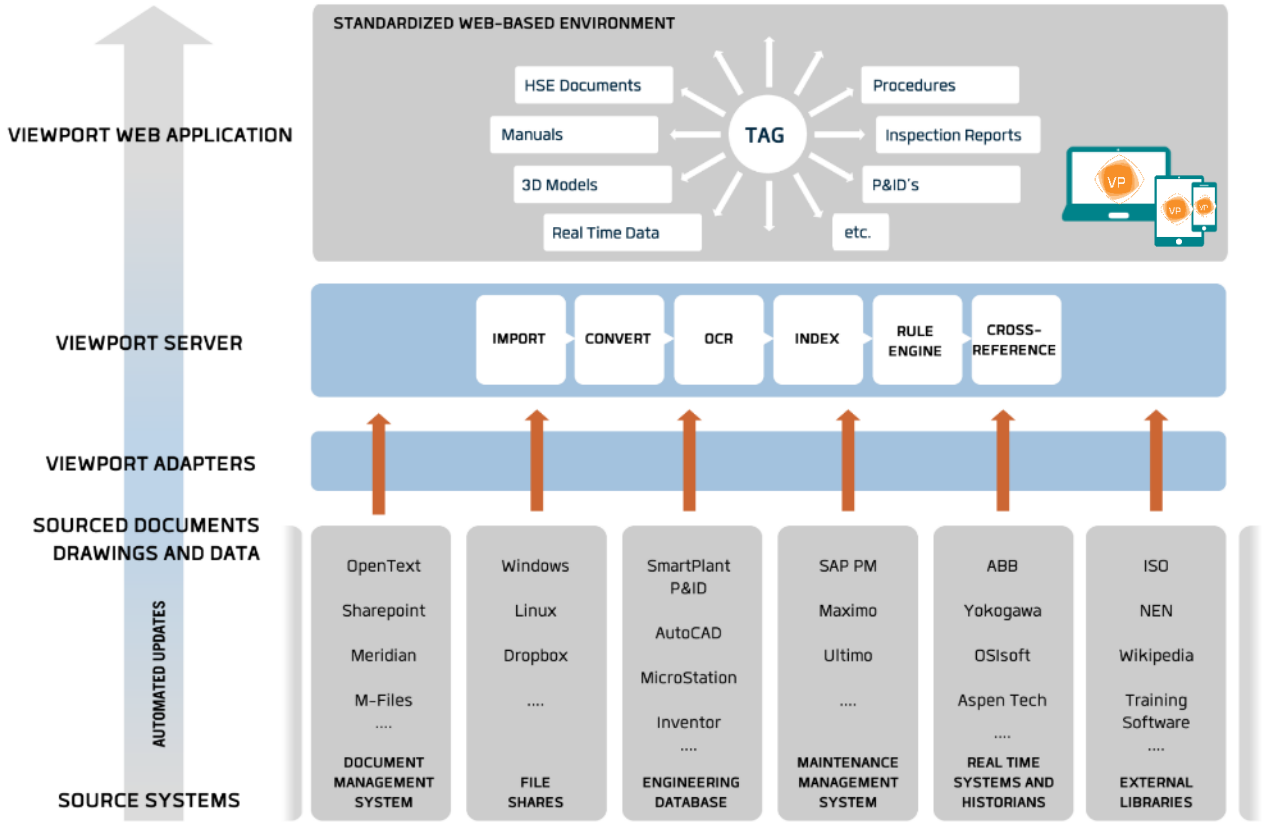
Architecture



Data Cleansing & Migration

Viewport

Viewport is a web-based portal where you can import documents and data and can efficiently work with (technical) data. It can run in the cloud or on premises.

Document and Tag Listing with Metadata

Viewport creates a complete listing of all documents and tags. Metadata can be carried over from existing sources or extracted from the files themselves (e.g. author, title, modification date, document numbers, etc.)

Validate and OCR Documents

Documents are checked for validity and cleaned up/scanned (OCR) if needed. A rule-based engine can be used to organize the data by document type, discipline, etc.

Web-Enabled

Documents are transformed to PDF and made available in our web viewer, saving time when sifting through the documents and eliminating the need for specialized viewers (e.g. CAD, Visio, etc.)

Key Facts and Figures

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High Quality

Viewport was built for robust processing of gigabytes of poor quality data: scanned documents, duplicates, multiple file formats, lacking metadata...

140+ Formats

Viewport supports all the regular file formats, including Office, TIFF, PDF, Visio, DWG, DGN, Geo data, etc. The web viewer stays fast even for documents with 1000s of pages!

User Acceptance

Viewport has extremely good user acceptance. The intuitive user interface can be learned in 15 minutes

High level Solution benefits

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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"

FAQ

1. How is Versatec related to Viewport?
2. What systems can Viewport connect with?
3. What is the average implementation time for Viewport?

Viewport clients - shortlist

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Gate terminal
Gas Access To Europe

TRONOX

Cargill

Westlake Chemical

ENGIE

PNM

ABB

one dyas

النفط والغاز
PETROGAS
E&P-NL

NAM

SPIRIT ENERGY

centrica storage

Statoil

NRG

AVR.

BASF
We create chemistry

Petrofac

urenco
The Energy to Succeed

TOTAL

TenneT
Taking power further

Oil - Gas – Chemical – Utilities – Pharma – Energy – Mining – Food – Maritime – Construction – Discrete Manufacturing

R4D

Files Customize

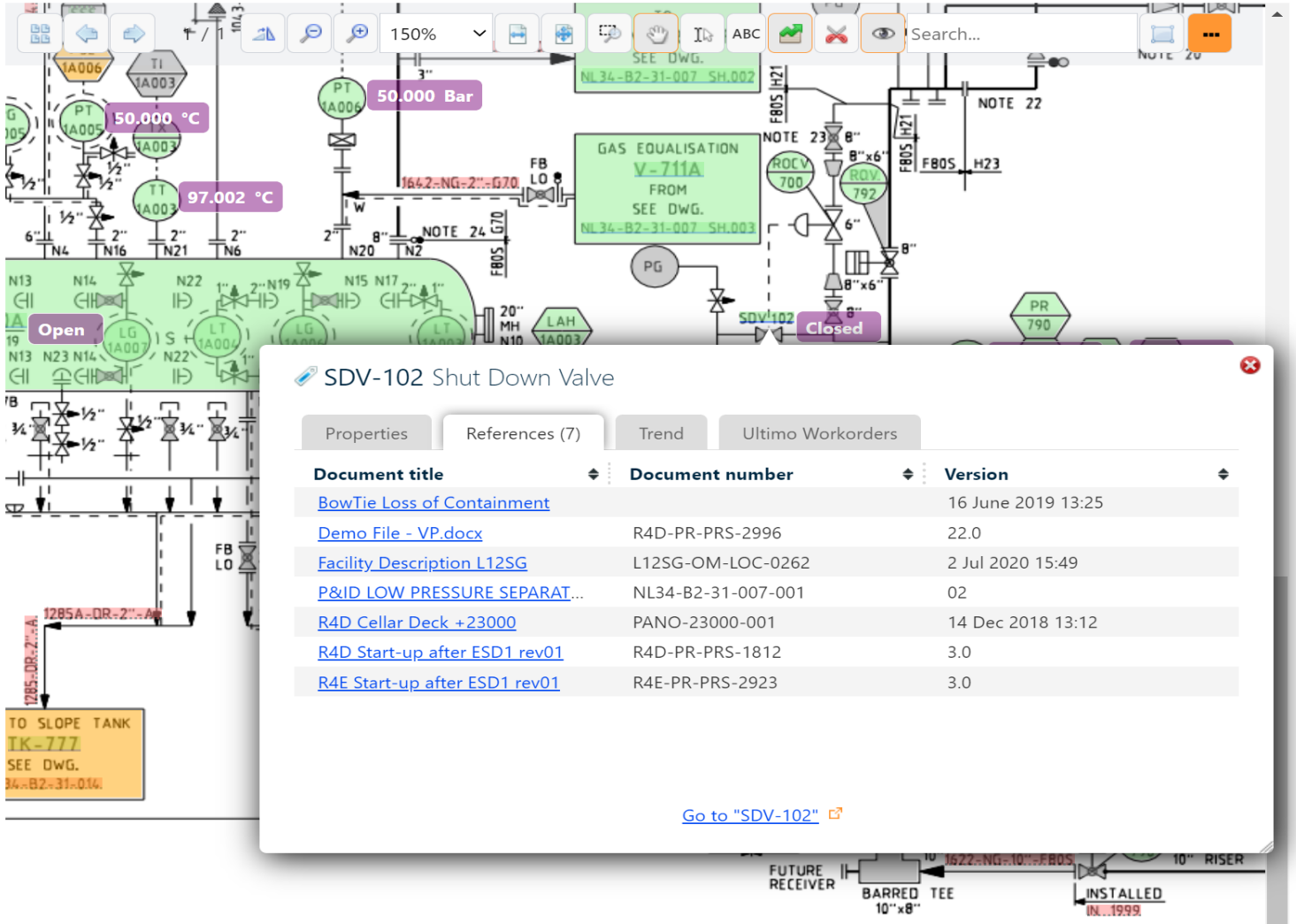
- Operating Manual
- Procedures
  - Demo File - VP.docx – R4D-PR-PRS-2996
  - R4D Power Supply Switching Job Instructio
  - R4D Start-up after ESD1 rev01 – R4D-PR-PI
  - R4E Start-up after ESD1 rev01 – R4E-PR-PR
- Drawings
  - Layouts
  - P&IDs
    - P&ID HIGH PRESSURE COALESCER V-71
    - P&ID HIGH PRESSURE SEPARATION V-7
    - P&ID LOW PRESSURE COALESCER V-71
    - **P&ID LOW PRESSURE SEPARATION V**
    - P&ID Pump 2 – NL34-B2-31-006-002
    - P&ID Pump 3 – NL34-B2-31-006-003
    - P&ID Pump 4 – NL34-B2-31-006-004
    - P&ID Pump 5 – NL34-B2-31-006-005
    - P&ID Pump 6 – NL34-B2-31-006-006
  - PFDs
  - Red-Blue Markups
- Lists
- Reports
- Pictures
- Vendor
- Work Orders
- Safety Datasheets
- RATS List
- 3D Models
- Movies
- Manual List
- R4D Dashboard
- Uncategorized

Tag Numbers

Workfolders

P&ID LOW PRESSURE SEPARATION V-700A NL34-B2-31-007-001

Version: 02



SDV-102 Shut Down Valve

Properties | References (7) | Trend | Ultimo Workorders

Document title	Document number	Version
BowTie Loss of Containment		16 June 2019 13:25
Demo File - VP.docx	R4D-PR-PRS-2996	22.0
Facility Description L12SG	L12SG-OM-LOC-0262	2 Jul 2020 15:49
P&ID LOW PRESSURE SEPARAT...	NL34-B2-31-007-001	02
R4D Cellar Deck +23000	PANO-23000-001	14 Dec 2018 13:12
R4D Start-up after ESD1 rev01	R4D-PR-PRS-1812	3.0
R4E Start-up after ESD1 rev01	R4E-PR-PRS-2923	3.0

Go to "SDV-102"

In folder R4D / Drawings / P&IDs, contains 0 items, last updated 27 Oct 2021 11:03 in SharePoint .PDF show more

References (80)

- HSE (0)
- Operating Manual (0)
- Procedures (0)
- Drawings (6)
- Lists (0)
- Reports (0)
- Pictures (0)
- Vendor (0)
- Work Orders (0)
- Safety Datasheets (0)
- RATS List (0)
- 3D Models (0)
- Movies (0)
- Manual List (0)
- Uncategorized (0)
- Tag Numbers (74)
  - EB-640B
  - ESDV-790
  - FI-700
  - FQI-700
  - FR-700
  - HC-700
  - LAH-1A003
  - LAL-1A003
  - LCV-714-A
  - LG-1A006

Possible references (68)

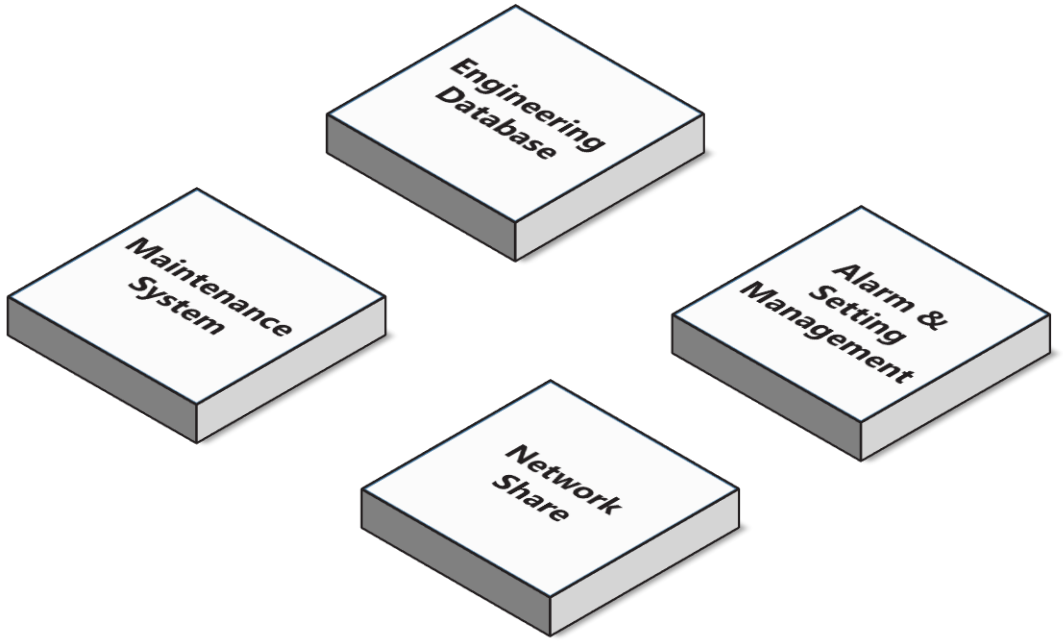
Versions (2)

Markup (1)

QC (0/228)

Viewport as Basis for Management of Change

Changes happen in isolation, only safeguarded by procedures / workflows



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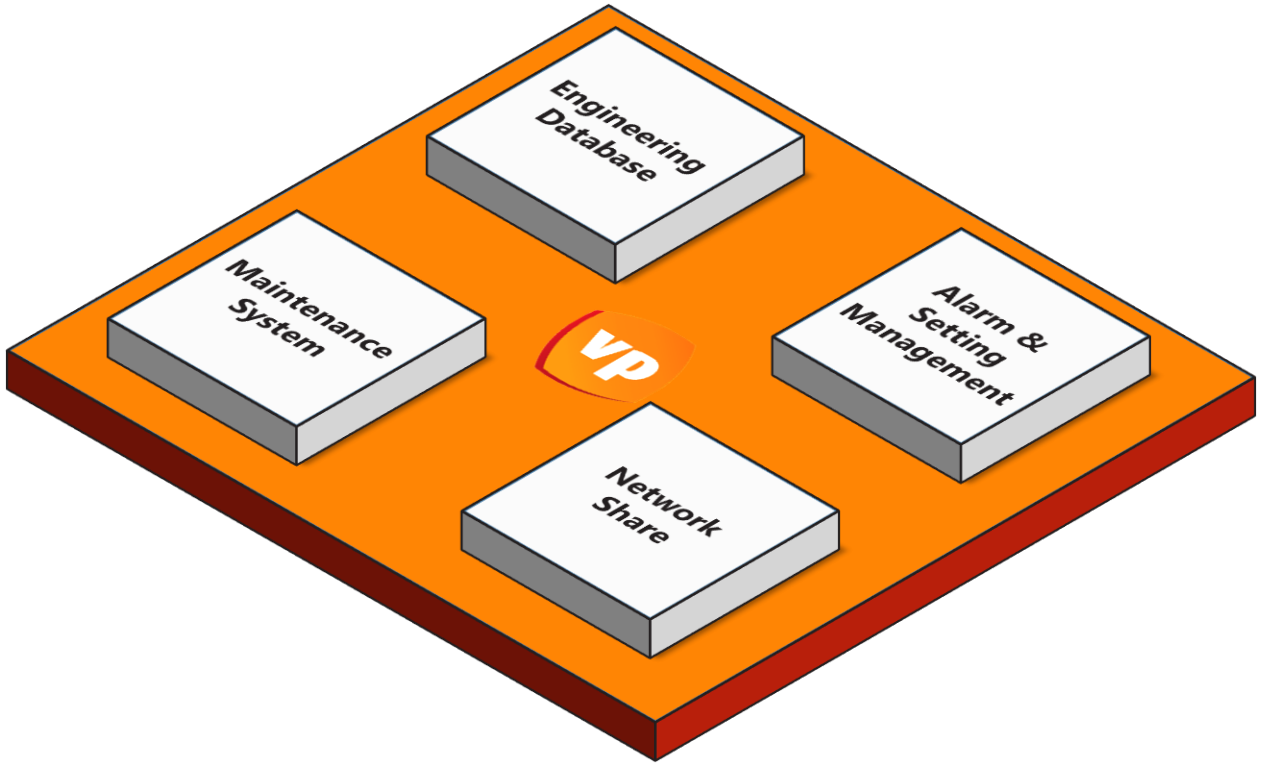
Viewport as Basis for Management of Change

Connect systems to Viewport to automatically determine references across systems



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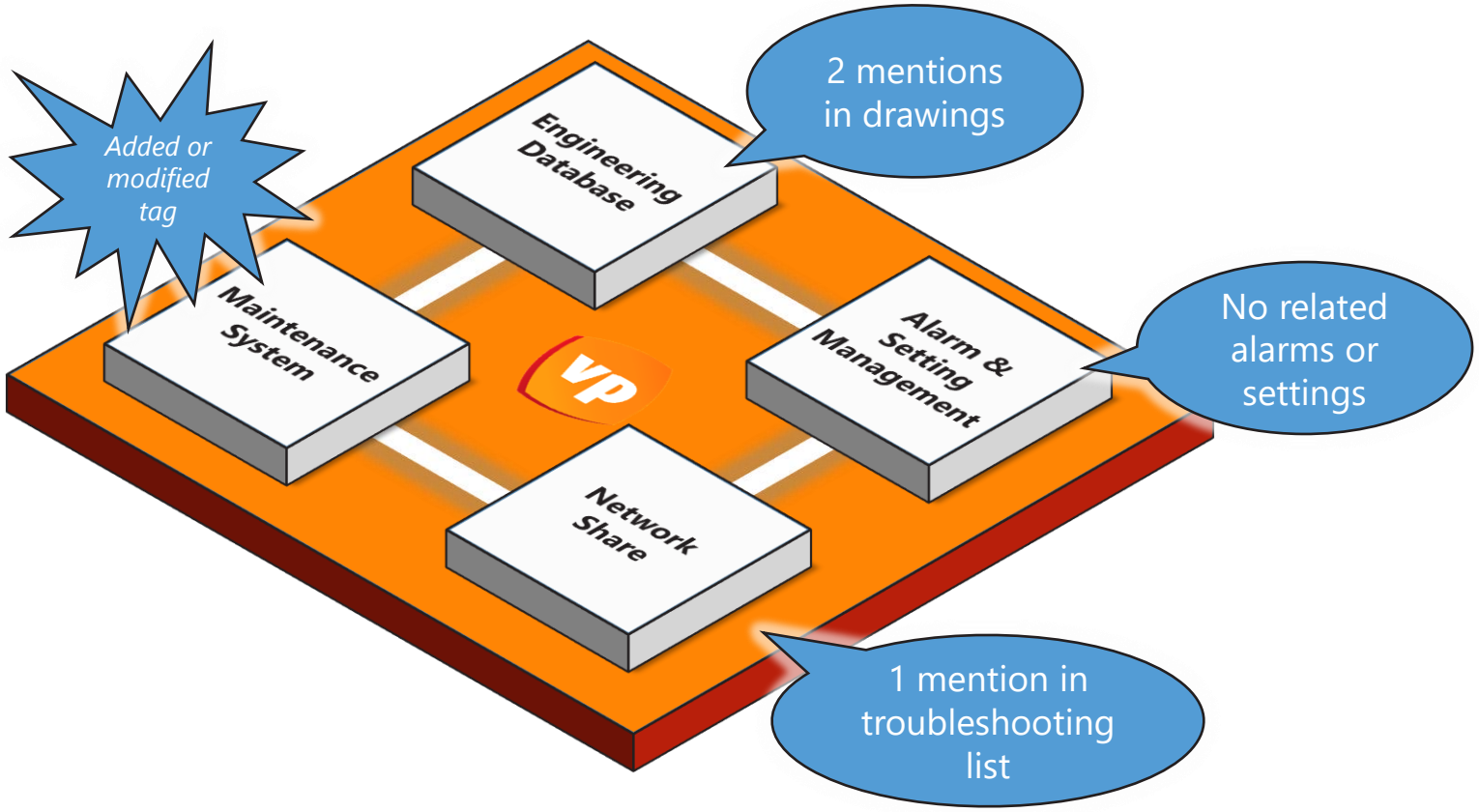
Viewport as Basis for Management of Change

Automatically determine impact of change



Fast Implementation

- Typically measured in weeks, not months or years
- Does not require Data Cleansing
  - Load unstructured data and use the Viewport rule engine to create structure
  - Use Excel sheets / Access databases etc. to enrich
  - Extract tags and drawing numbers regardless of spelling
  - Extract titles, document numbers, revisions from drawing boxes and cover sheets (without using metadata)
- Quick Wins
  - Publish important asset information first, e.g. P&IDs, procedures, maintenance data, manuals
- Great user acceptance!