



ShareAspace

Digital transformation – time to roll up your sleeves

Rob Bodington – presented by Torbjörn Holm

PLM Road Map™ EMEA & PDT Europe 2022
*Digital Transformation and PLM – a call for PLM professionals to
 re-define and re-position the benefits and value of PLM*
 CIMdata 18 & 19 October **-eurostep-**

-eurostep-
 © Eurostep Group



ShareAspace

The ShareAspace suite comprising the ShareAspace server, ShareAspace Design to Manufacturing and ShareAspace Export Control, including both software and associated documentation, is the intellectual property of Eurostep Group AB and is subject to copyright protection. Infringement of copyright can give rise to civil and criminal penalties.

Such protection is applicable whenever the ShareAspace suite is presented or demonstrated. The information presented has been provided in confidence for discussion. It should not be shared with third parties without prior consent from Eurostep Group AB. Eurostep Group AB reserve the right to change any product roadmap and functionality presented.



computing

Latest Topics Tech Impact Diversity in Tech Deskfix Events Whitepapers

Data centres blamed for London's electricity crisis, but the problem is a bigger one

John Leonard
29 July 2022 • 3 min read

Developers in three West London boroughs are being told of limits to new building because **the grid is full to capacity**. This is likely to be the first of many such announcements.

Property developers in three west London boroughs have been told of limitations on new building because the local electricity infrastructure cannot cope, with part of the blame being **placed on data centres**.

<https://www.computing.co.uk/news/4053991/centres-blamed-londons-electricity-crisis-bigger>

© Eurostep Group | 3 -eurostep-

computing

Dark data: "The dirty secret of the ICT sector"

Tom Alle
27 June

More than half of the world's data going unused? It's a startling figure - especially when you consider how storage is growing. Since 2016 the total amount of data stored worldwide has climbed from 2 exabits (Eb) to 6Eb in 2022, and is on track to reach 11Eb by 2025.

Foley and her colleagues found that only around 14% of stored data is critical - that is, bank records, online inventory management, and healthcare data. But to get to it, organisations are **forced to wade through the sludge of dark data clogging up their servers**.

Storing unstructured and unused data generates millions of tonnes of greenhouse gases every year, as well as consuming huge amounts of water and taking up vast swathes of land; but businesses and data centres can make a major and immediate difference with one simple step: taking control of data storage.

"Dark data accounts for about 54% of data that's stored around the world," says Aoife Foley - IEEA senior member and a reader in the School of Mechanical and Aerospace Engineering at Queen's University Belfast. "We're talking about emails, customer calls, video recordings - a whole load of junk that's never used."



1 exabit = 10¹⁸ bits

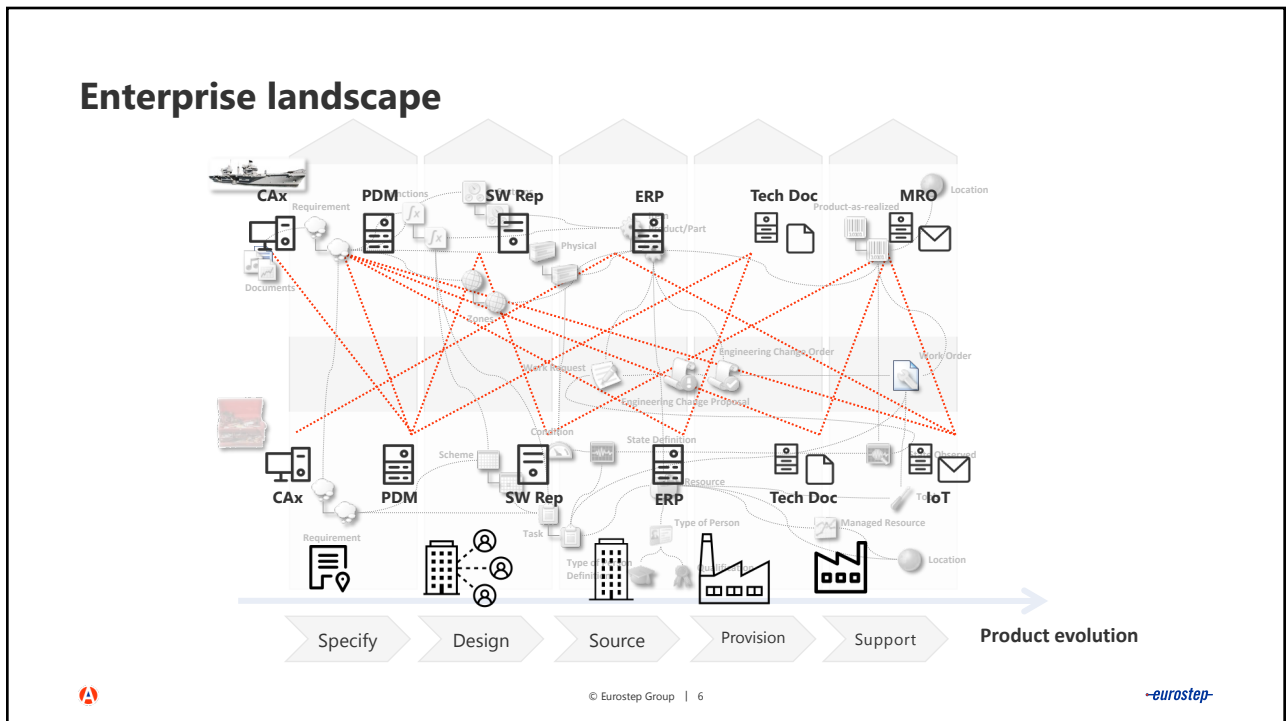
-eurostep-

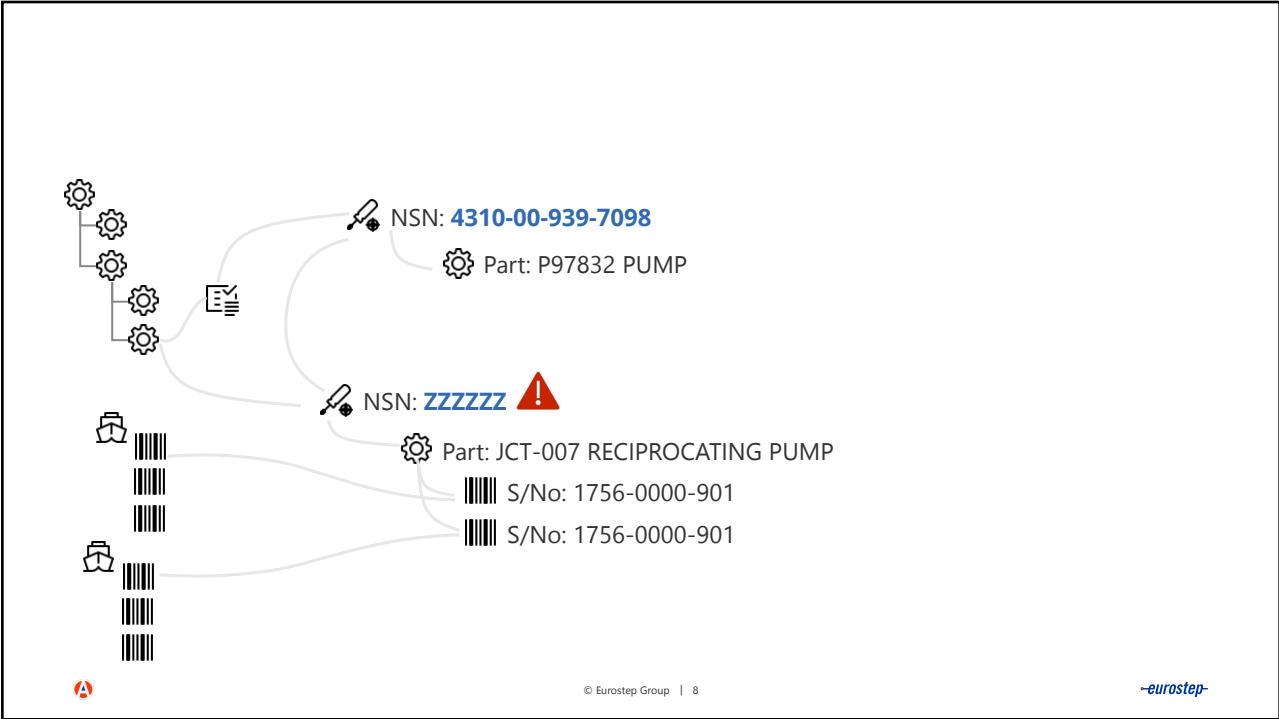
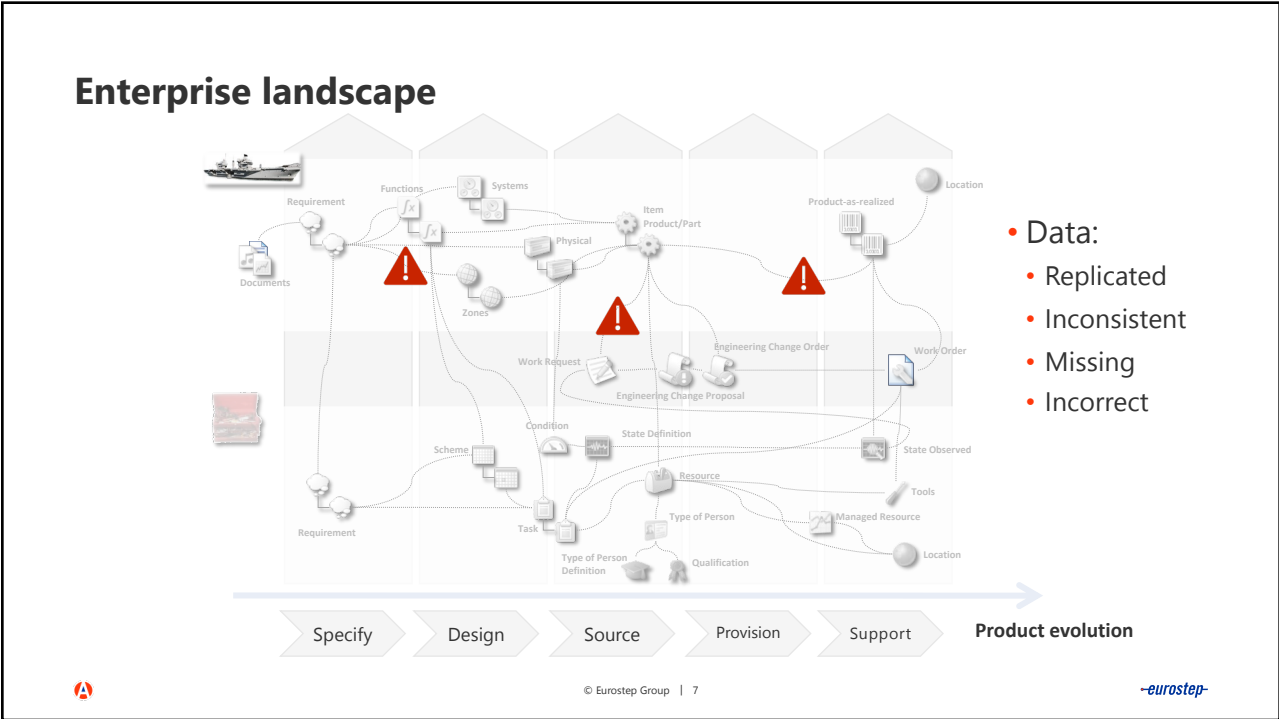


is the solution

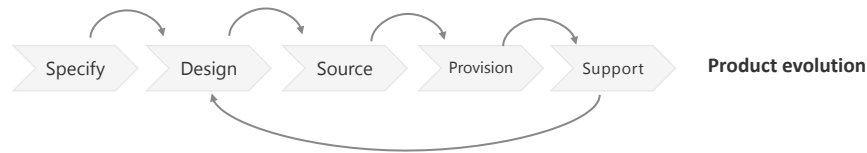
- **But without**
- **accurate data**
- **contextualized data**
- **... AI is pointless**

 © Eurostep Group | 5 





Areas of conflict



- Handover of information
- Acquisition
- Between disciplines



Approach

- **Information acquisition**
 - Acquire the right information
- **Information coherence**
 - Manage / Contextualize the information
 - ... so that it can be accessed
 - ... so that it can be exploited
- **Information curation**
 - So that it is up to date and accurate



Information acquisition

Owner operator (represented by a ship icon)

Supplier (represented by a factory icon)

CONTRACT

INTERNATIONAL STANDARD ISO 10303-242:2019(E)

Data clauses

- Conformance class
- DEX
- MVDs

Quality clauses

- Data quality KPI

Contract for information smartly

What is the business need?
Therefore what data is needed?

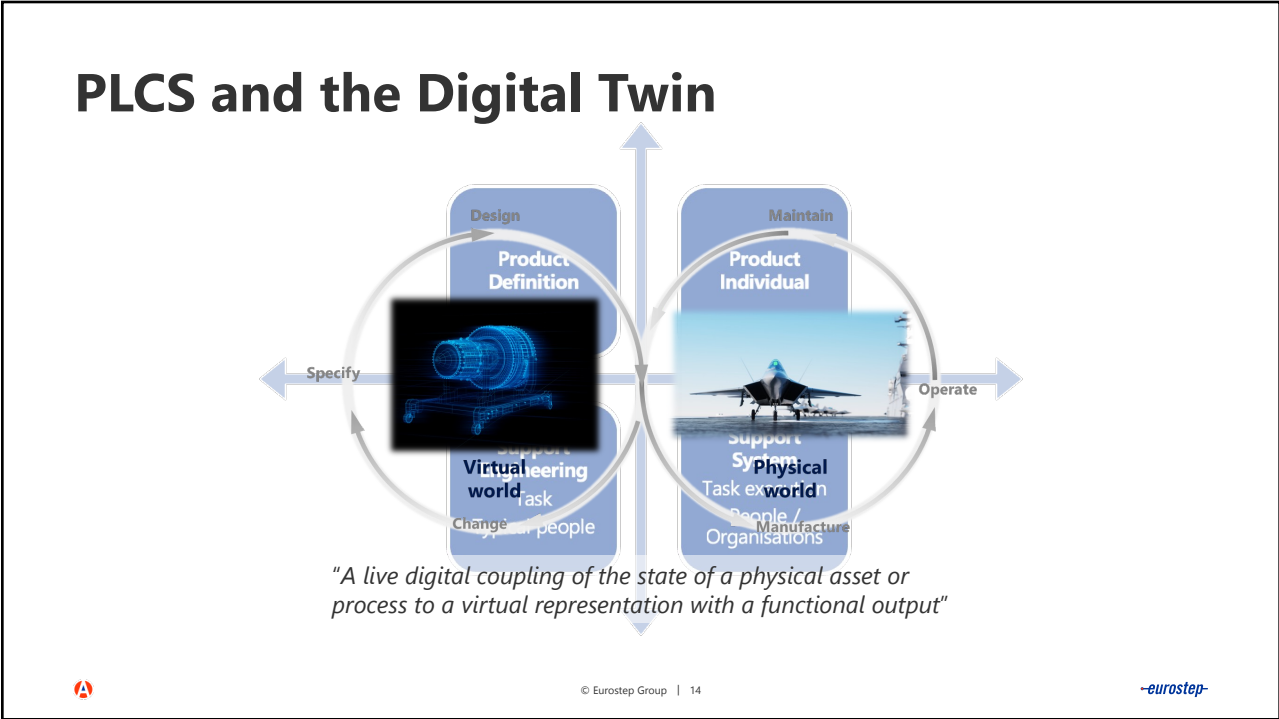
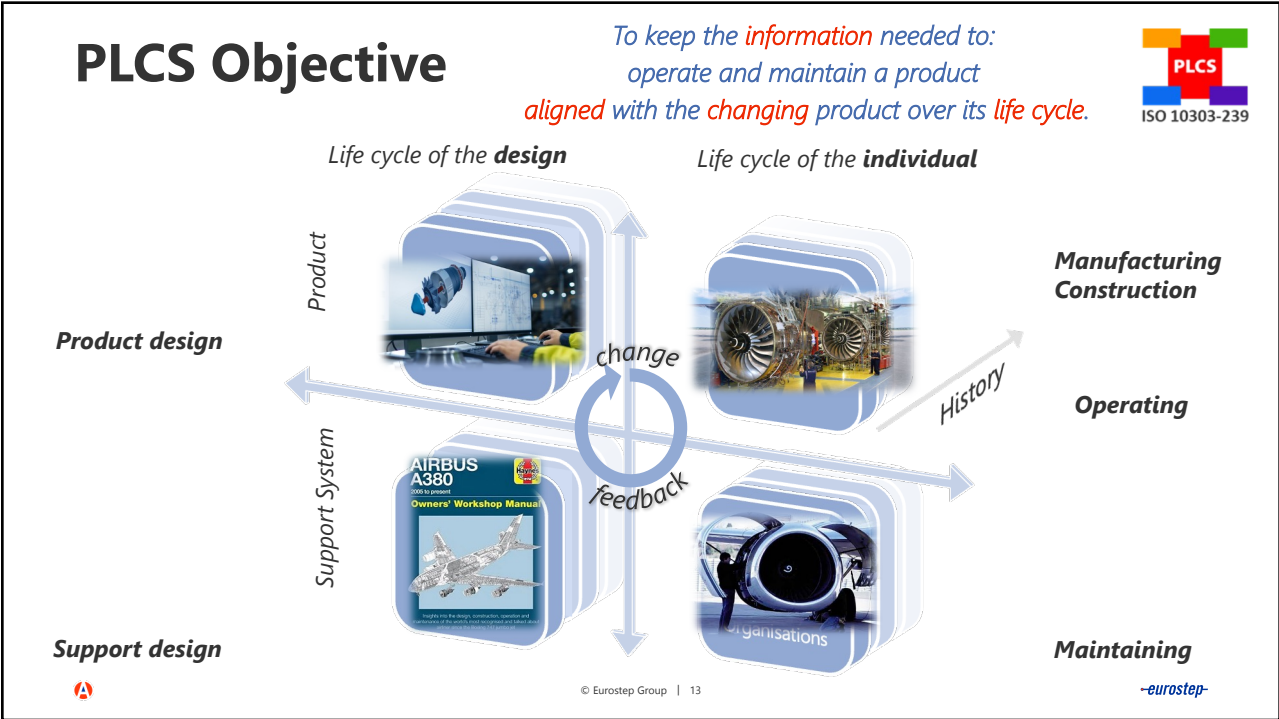
Information coherence

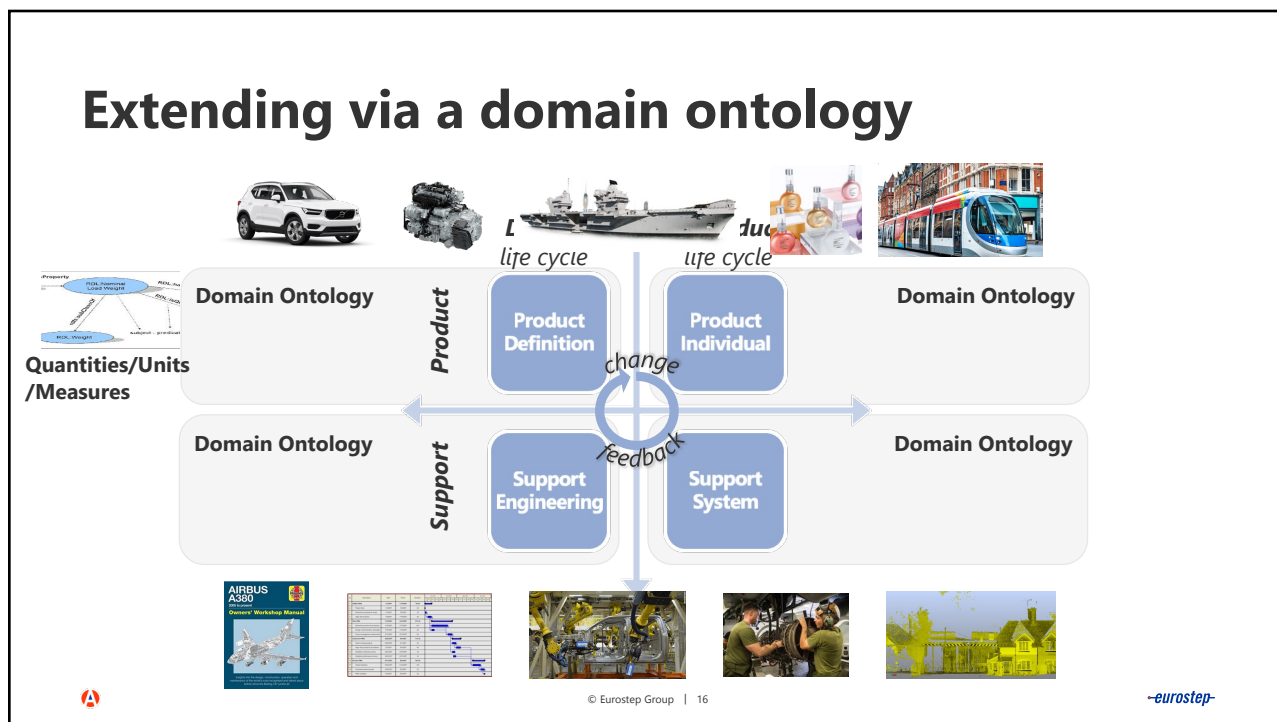
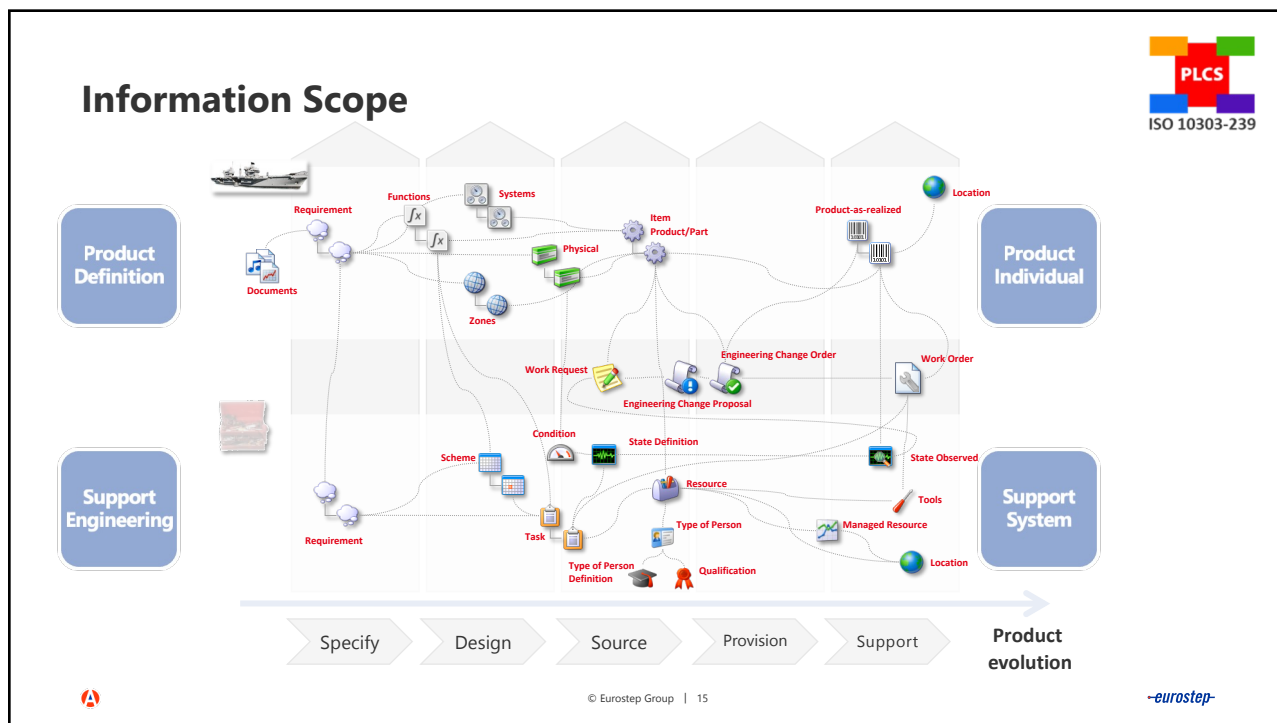
- A framework for:
 - Digital thread
 - Digital twin

Requirement, Functions, Systems, Physical, Item Product/Part, Product-as-realized, Location, Work Request, Engineering Change Proposal, Engineering Change Order, Work Order, State Definition, State Observed, Resource, Type of Person, Managed Resource, Tools, Location

© Eurostep Group | 12

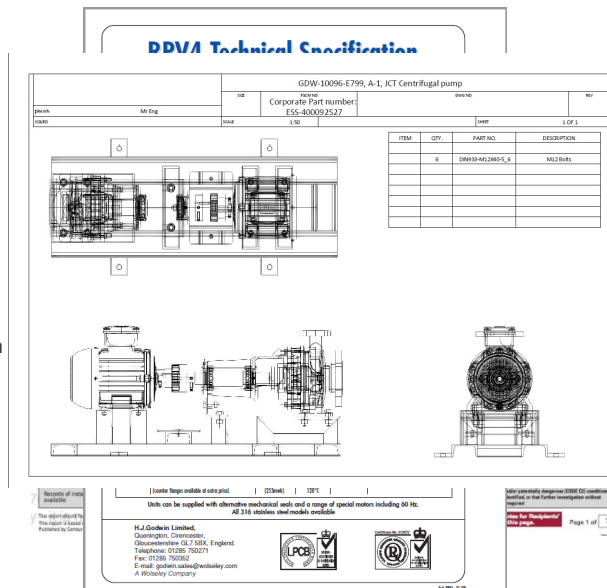
-eurostep-



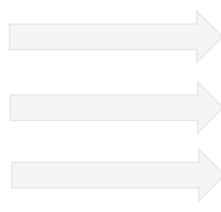
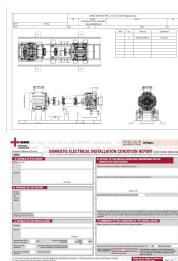


Document legacy

- Despite Digital thread/ Digital twins a significant amount of information is in documents
 - Parts catalogues
 - Product certificates
 - Safety / Inspection sign off / paper based problem reports
 - Legacy 2D drawings
 - Technical reports



Index and search



Index document content

Q 838393-L

▼ Documents

- GDW-10096, V1, GDW-10096 ...
- GDW-1601 Issue**

Product structure

- ASD-3888-1-R, D, Sub-assy-Brake_mir1
- W874-127, B, Sub-assy-Wheel-127
- W874-127, B, Sub-assy-Wheel-127
- ASD-3888-1-L, 2, Sub-assy-Brake
 - 494937, 1, Hexagon-screw-M3x15
 - 494937, 1, Hexagon-screw-M3x15
 - 84244, 2, Brake-piston
 - **838393-L, 1, Brake-cylinder**
 - 674-37X2, 1, O-ring37x2
 - 674-16X2, 1, O-ring16x2
 - 674-37X2, 1, O-ring37x2
 - 674-16X2, 1, O-ring16x2



Information curation

- Maintain quality
 - Data cleansing on ingress
 - Quality gates on the data
 - Active data management
 - Data owner/stewardship – quality processes
- Reference data
 - Organizations,
 - Properties
 - Units



Be smart about data

..... then AI can deliver benefits

..... and be green!

Dark data: "The dirty secret of the ICT sector"



Tom Allen

27 June 2022 • 8 min read

Storing unstructured and unused data generates millions of tonnes of greenhouse gases every year, as well as consuming huge amounts of water and taking up vast swathes of land; but businesses and data centres can make a major and immediate difference with one simple step: taking control of data storage.

"Dark data accounts for about 54% of data that's stored around the world," says Aoife Foley - IEEE senior member and a reader in the School of Mechanical and Aerospace Engineering at Queen's University Belfast. "We're talking about emails, customer calls, video recordings - a whole load of junk that's never used."

one simple step: taking control of data storage.





Thank you for listening!

Learn more at <https://www.eurostep.com>

-eurostep-
© Eurostep Group