SWISS™

WEAVING DIGITAL STANDARDS DATA INTO ENGINEERING WORKFLOW

SWISS IS NOT...

- Standards aggregator
- Standards reseller
- Standards publisher
- Replacement for PDF

SWISS IS...

- Linked data platform
- Semantic Web
- Digital Thread
- Model Based Enterprise
- Web 3.0
- Industry 4.0
- IoT for Documents

First introduced

1991

1996

First industry standards in PDF format

Becomes ubiquitous for standards delivery

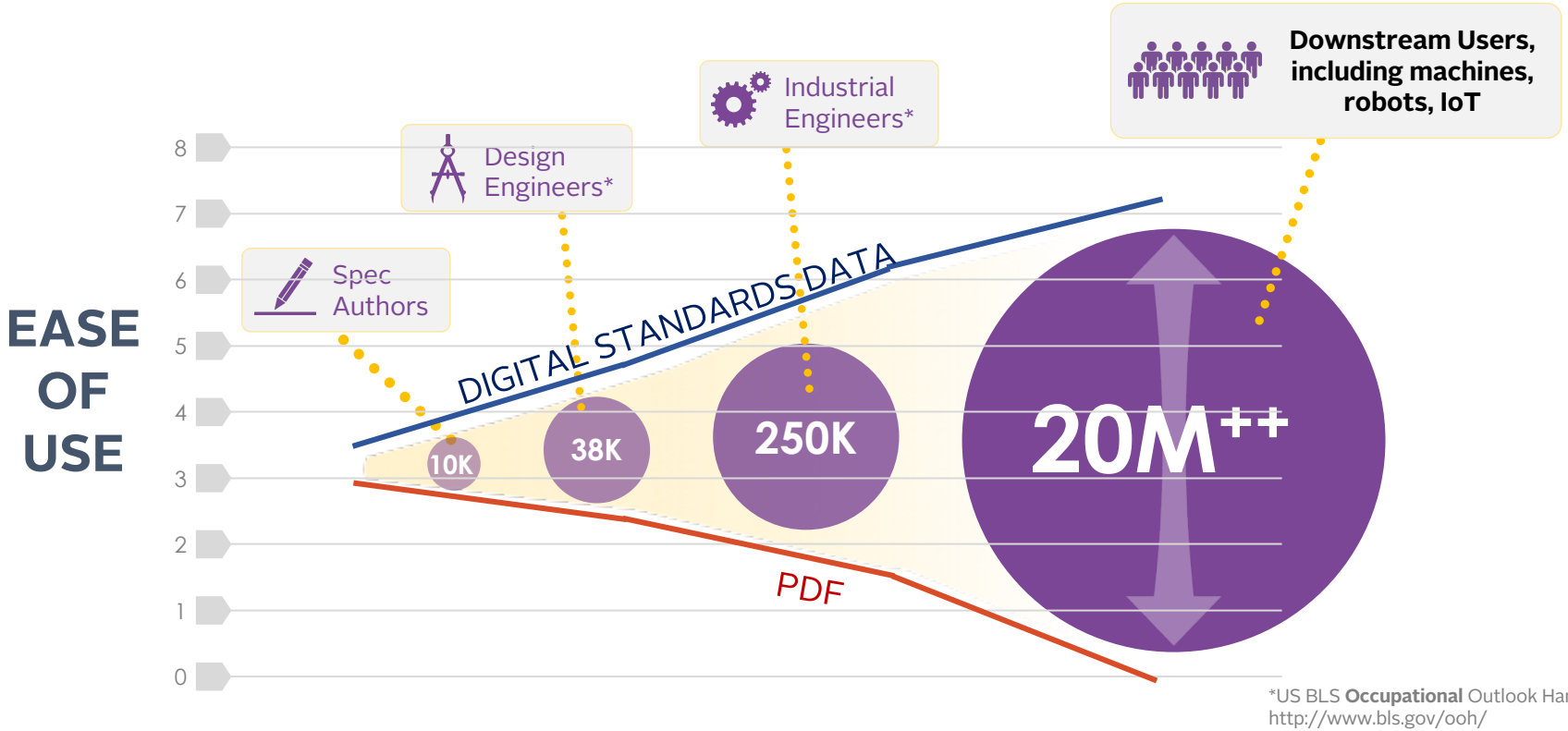
2001

2017

Still the de facto standard ;-(

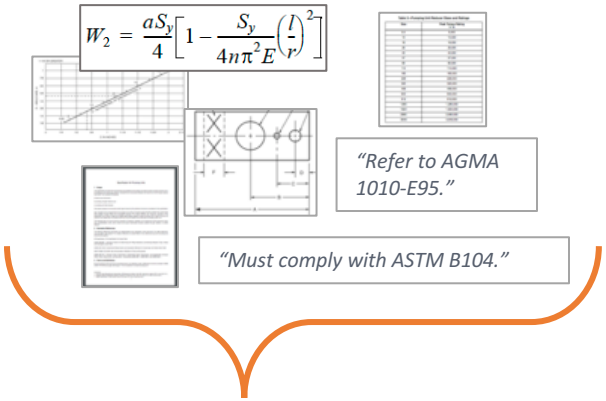

“Work instructions with change management”
iStock Photo522144912 thomas-bethge

USABILITY OF PDF vs DIGITAL DATA



*US BLS **Occupational** Outlook Handbook
http://www.bls.gov/ooh/

SEARCH VERSUS USAGE



Workflow & Time

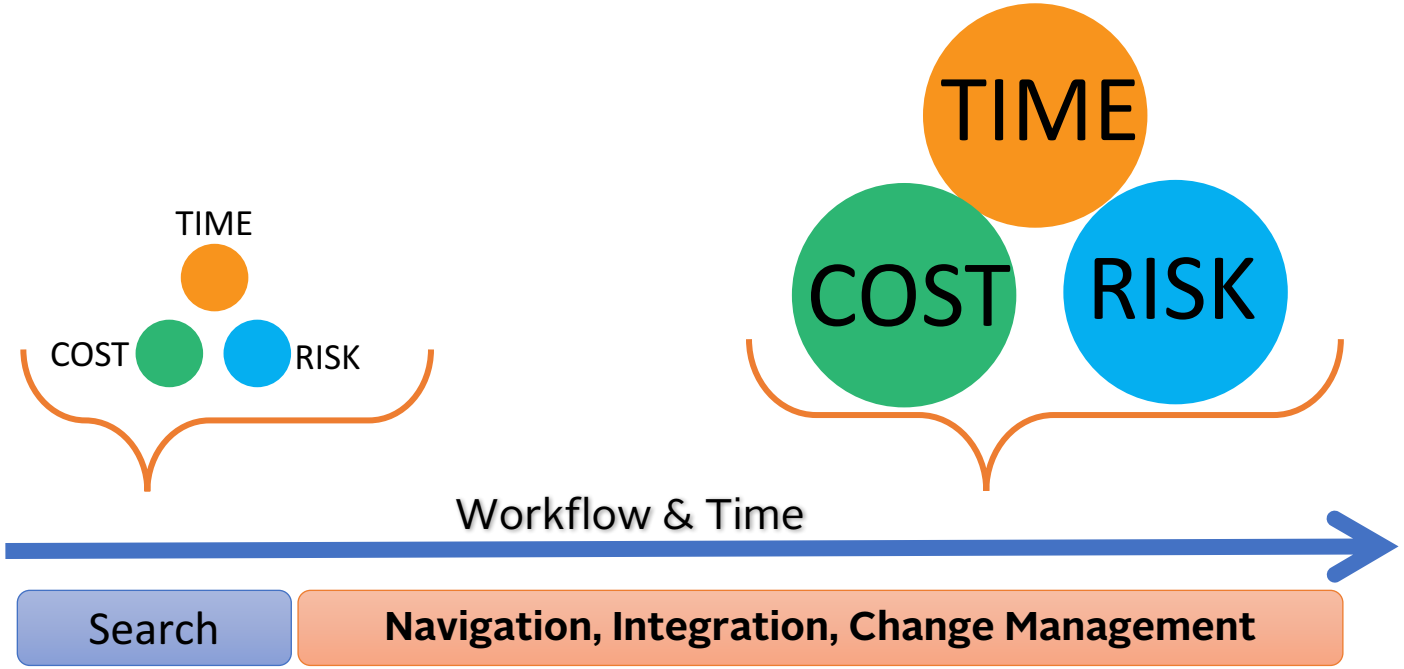
Search

Navigation, Integration, Change Management

Finding documents

Using the information in the documents

SEARCH VERSUS USAGE

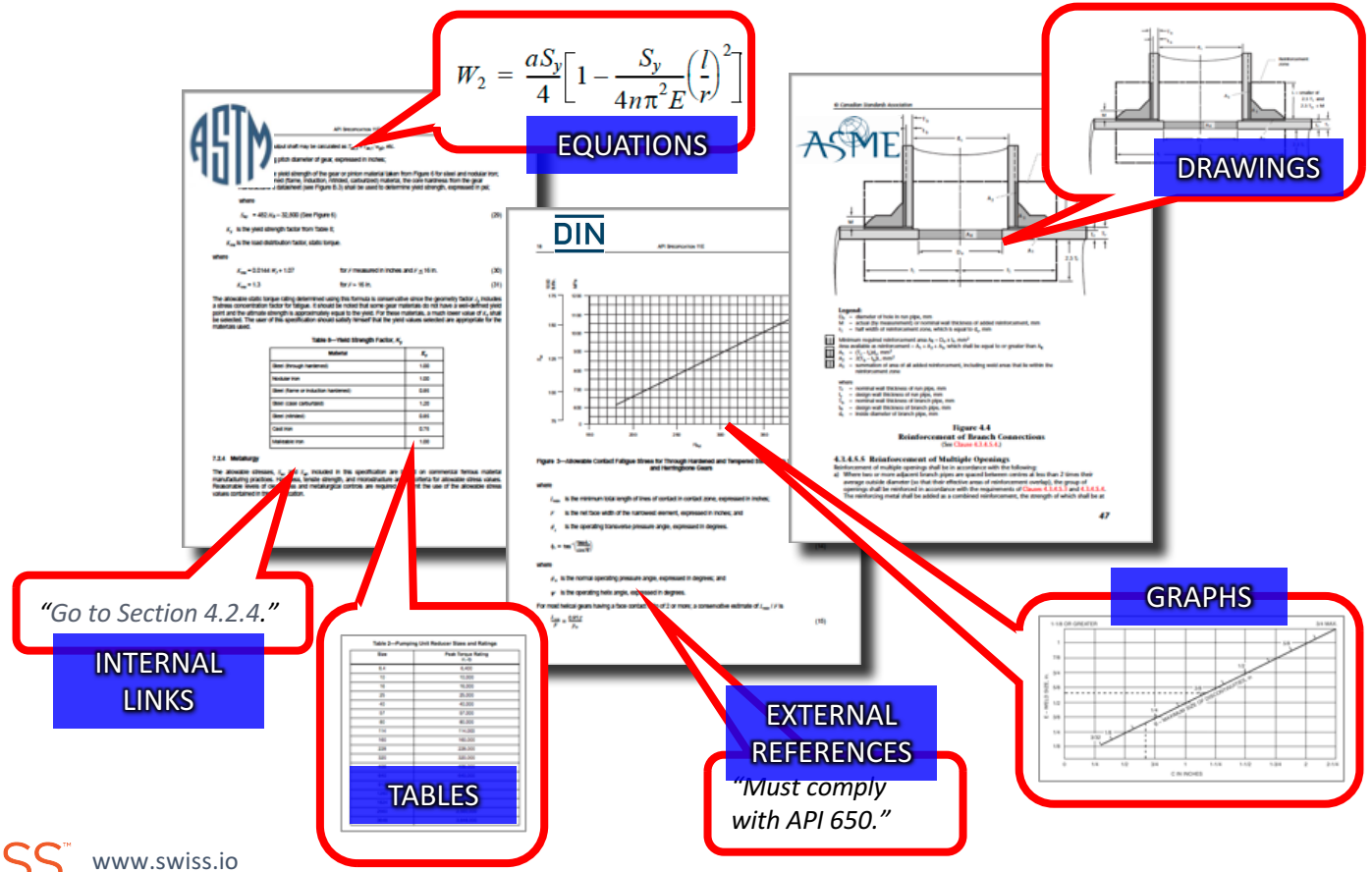


CURRENT PARADIGM: PRINT & PDF

Standards are published, distributed, stored, and shared as individual documents…

iStock Photo522144912 thomas-bethge

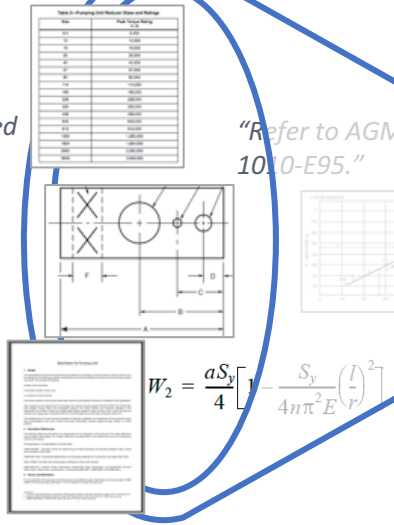
BUT STANDARDS ARE USED LIKE DATA



DATA IS INTEGRATED DOWNSTREAM

Copy/Paste

"Do not exceed weight limits expressed in ASTM B104."



"Refer to AGMA 10[illegible]0-E95."

$$W_2 = \frac{aS_y}{4}\left[1 - \frac{S_y}{4n\pi^2 E}\left(\frac{l}{r}\right)^2\right]$$

RFP

PLM

ROBOTICS, MACHINERY

WORK ORDER

INTERNAL STANDARDS

PPT

CAD DESIGNS

SOFTWARE

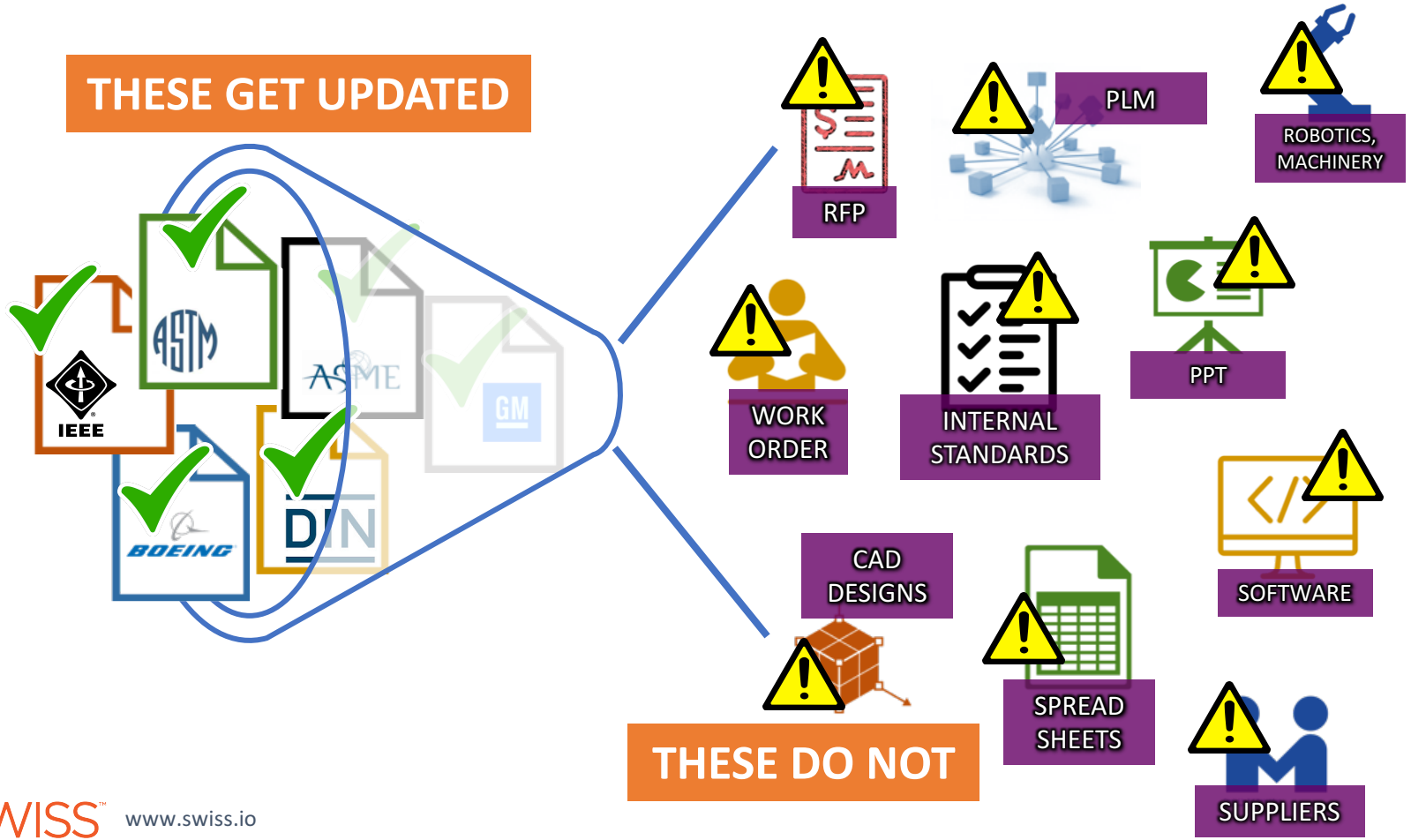
SPREAD SHEETS

SUPPLIERS

Manually Rekey

SWISS™ www.swiss.io

CHANGE MANAGEMENT IS INEFFICIENT



LOTS OF REFERENCES, NO LINKS

4.7.4 Burst pressure

Burst pressure testing shall be conducted in accordance with ASTM D380 on the test samples that were subjected to the leakage test (see 4.7.3). The test samples shall be observed throughout the test for evidence of leakage or failure. Requirements shall be as specified in 3.7.3 .

4.7.5 Low temperature flexibility

The low temperature flexibility test shall be determined in accordance with the low temperature test described in ASTM D380 (see 4.7.2). Requirements shall be as specified in 3.7.4 .

4.7.6 Over-tightening torque

Two adapter assemblies of each size shall be tested in accordance with SAE-ARP908 . Requirements shall be as specified in 3.7.5 .

4.7.7 Verification of fitting plating thickness for aluminum-nickel, cadmium, or zinc (see 3.5.1)

Verification of under plating and finish plating shall be measured in accordance with ASTM B499 , ASTM B567 , or ASTM B568 . A cross-sectioning method, such as that specified by ASTM B487 or ASTM B748 , can also be used as a referee method to confirm the precision when thicknesses of 30 microinches (0.76 μm) or above are used. The zinc plating thickness may also be measured in accordance with ASTM B633 or ASTM B695 as applicable. The plating requirements shall meet the requirements of 3.5.1 . The following details shall apply:

a. When applicable a minimum of three points shall be measured on the fitting surface. The fitting may be rotated, but measurement points shall be progressively further from the last point.

b. Readings shall not be averaged. Measurements shall be as follows:

One measurement shall be taken at a point on the front and rear.

(2) Three measurements shall be taken in the middle areas.

DISCONNECTED SILOS

GOALS OF NEXT GENERATION SOLUTION

1. **Interoperability** – Seamlessly move between content
2. **Seamless and Trackable Integration –** Move data anywhere
3. **Omni-Fidelity, Change-Aware –** Always current data
4. **Contextual Intelligence** – Data linked at concept level
5. **Comparison-Capable** – Knows differences between A and A.1

GO FROM THIS...

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...TO THIS

4.7.4 Burst pressure

Burst pressure testing shall be conducted in accordance with ASTM D380 on the test samples that were subjected to the leakage test (see 4.6.3). The test samples shall be observed throughout the test for evidence of leakage or failure. Requirements shall be as specified in 3.6.3.

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b. Readings shall not be averaged. Measurements shall be as follows:

(1) One measurement shall be taken at a point on the front and rear.

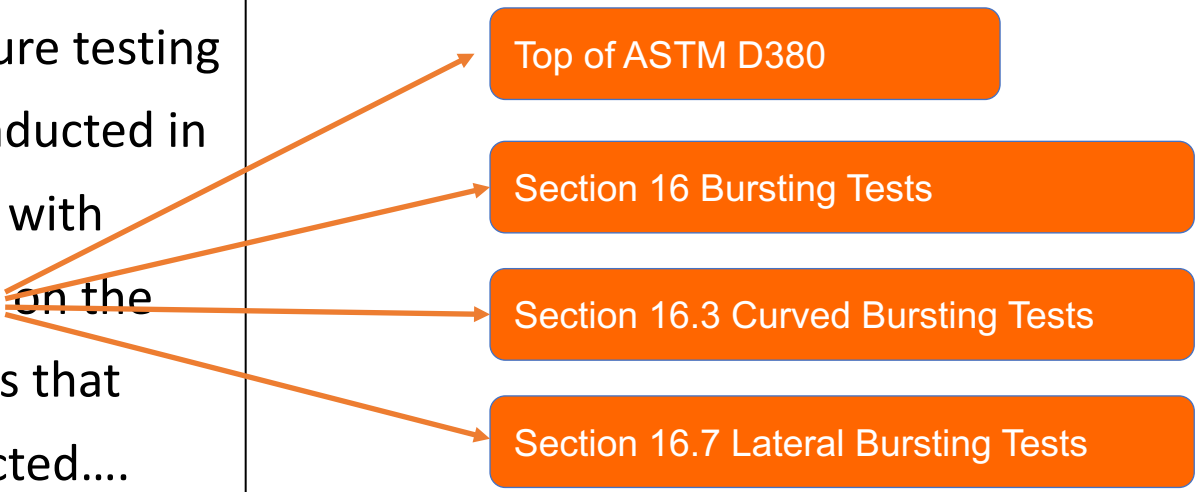
(2) Three measurements shall be taken in the middle areas.

CONTEXTUAL INTELLIGENCE

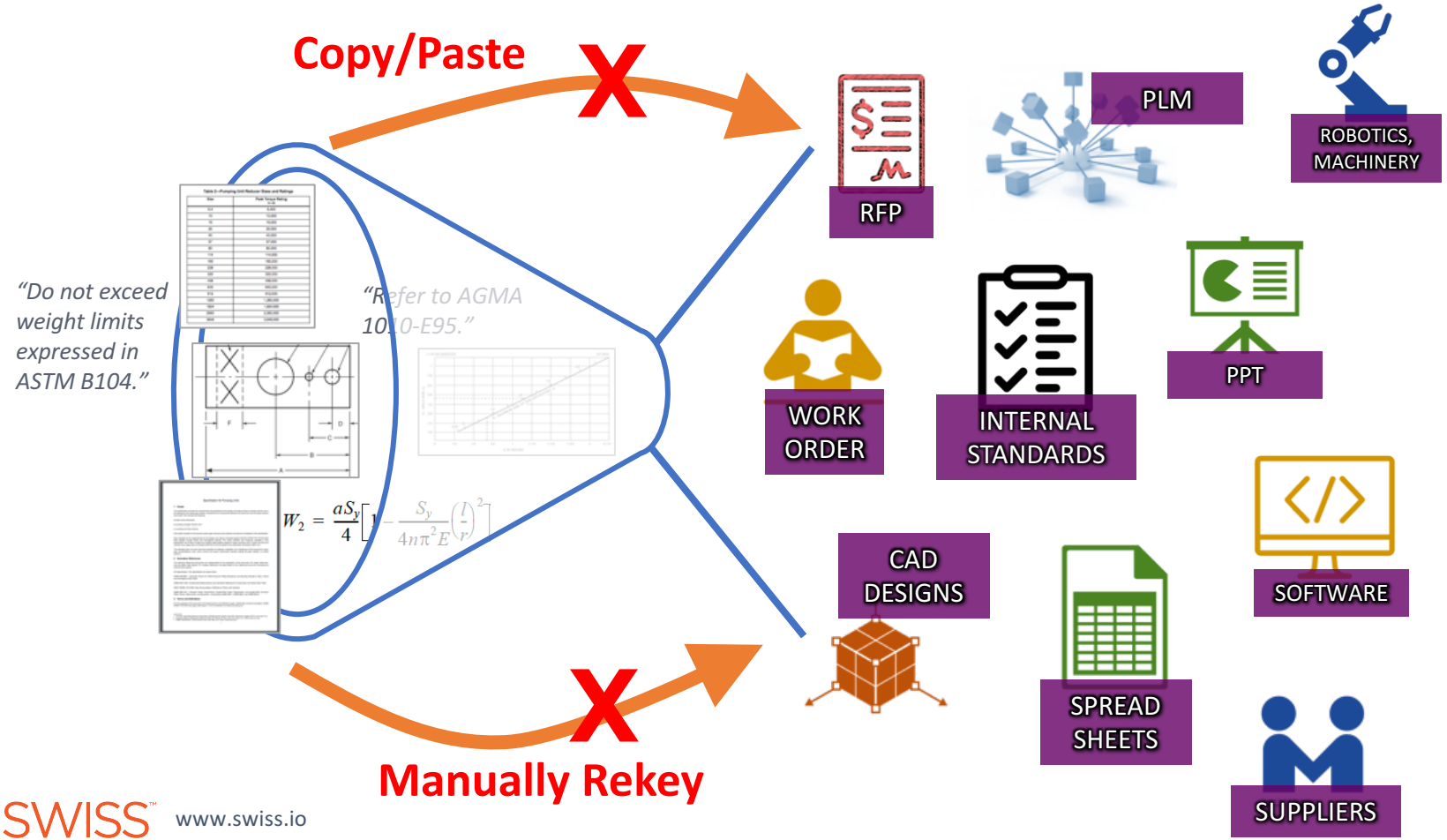
Take users exactly where they need to go.

4.7.4 Burst Pressure

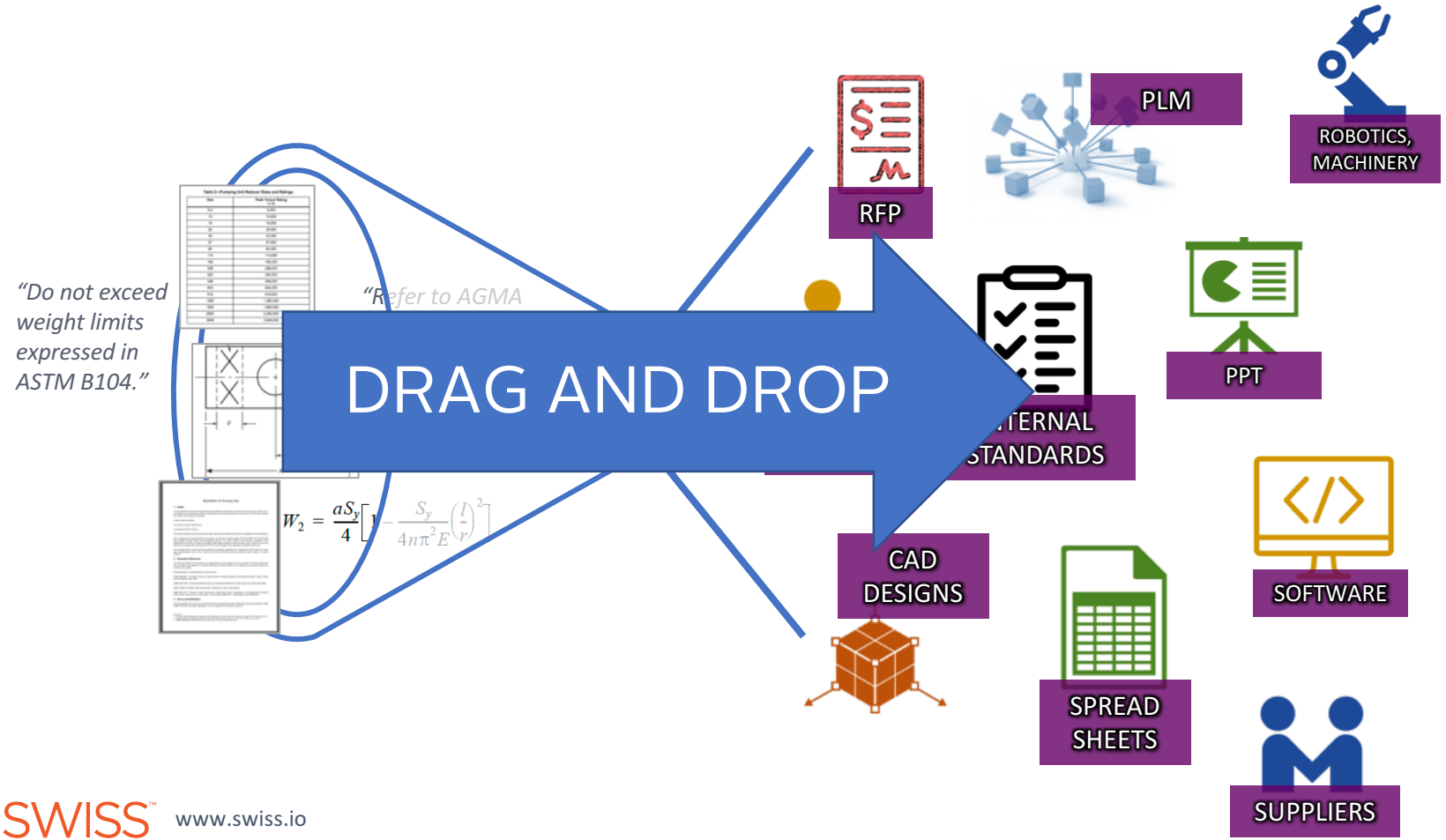
Burst pressure testing shall be conducted in accordance with ASTM D380 on the test samples that were subjected….



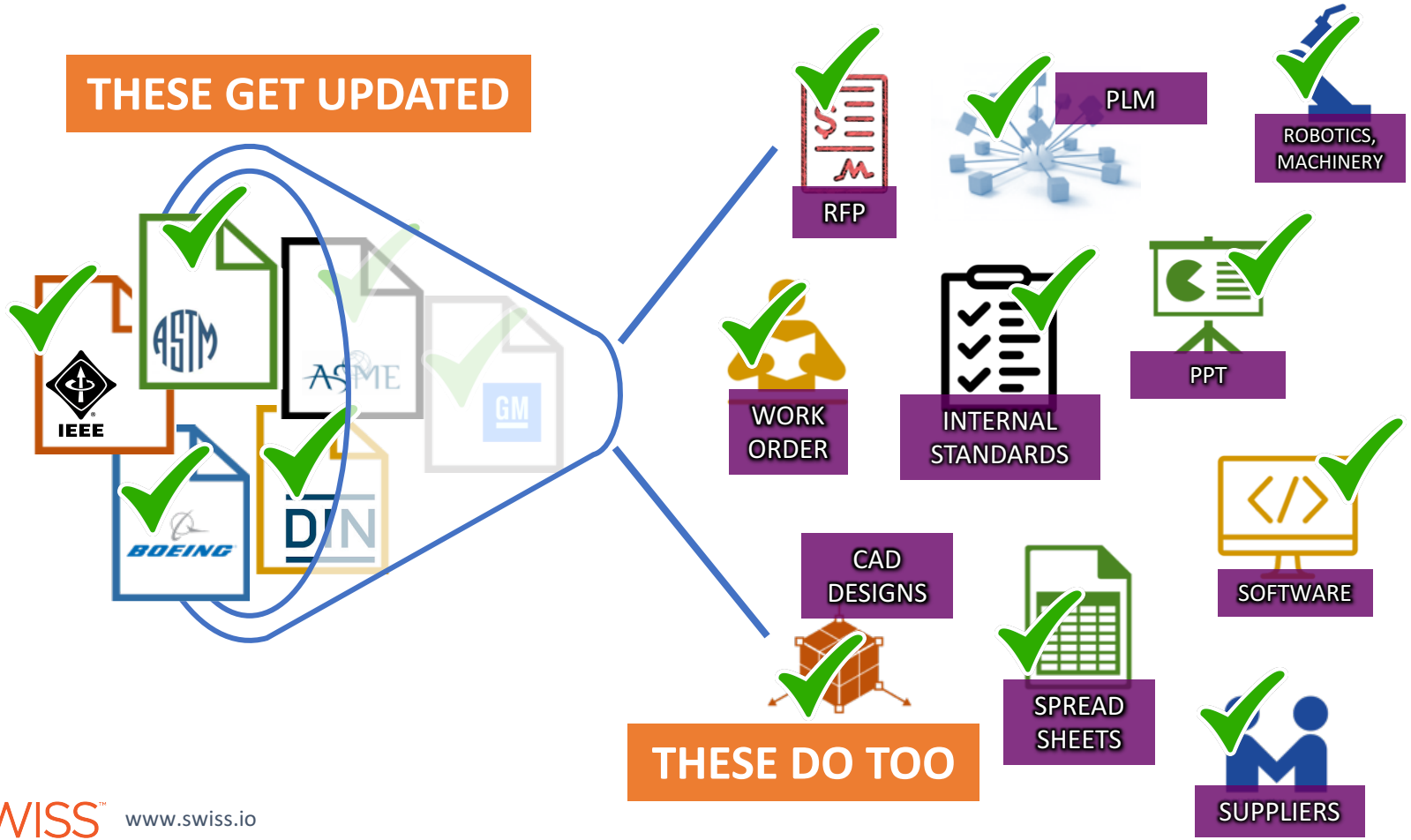
COPY/PASTE AND REKEYING ARE ELIMINATED



MOVE DATA INSTANTLY, ANYWHERE



NOW, CHANGE MANAGEMENT IS AUTOMATIC



EXPORT TO EXCEL

Right-click

Export Table to Excel

TABLE III Performance characteristics

Adapter assembly size	Operating pressure, max psi (MPa)	Proof pressure, min psi (MPa)	Burst pressure, min psi (MPa)	Bend radius (inside of bend), min inch (mm)
-2	300 (2.07)	600 (4.14)	2000 (13.79)	2 (50.80)
-3	250 (1.72)	500 (3.45)	1700 (11.72)	2 (50.80)
-4	200 (1.38)	400 (2.76)	1250 (8.62)	4 (101.60)
-6	150 (1.03)	300 (2.07)	1000 (6.89)	4 (101.60)
-8	150 (1.03)	250 (1.72)	750 (5.17)	6 (152.40)
-10	150 (1.03)	250 (1.72)	700 (4.83)	6 (152.40)

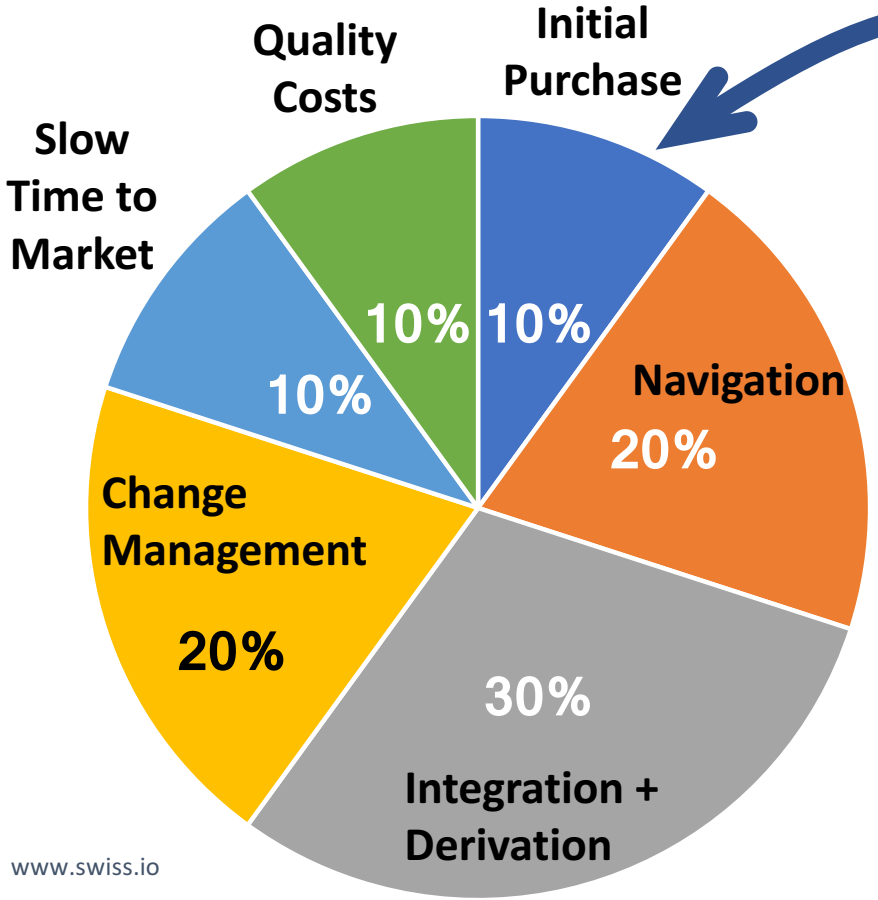
3.7.4 Low temperature flexibility

When tested as specified in 4.7.5 , there shall be no evidence of leakage from the adapter assembly.

3.7.5 Over-tightening torque

When tested as specified in 4.7.6 , there shall be no evidence of failure of the adapter assembly or difficulty in turning the swivel nut on the nipple by hand.

TOTAL COST OF OWNERSHIP (TCO)



Estimate: Initial cost of content is 10% of total

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1. Innovate
2. Enhance your content, earn incremental revenue
3. Become a one-stop source
4. Reduce dependence on resellers
5. Regain and maintain customer relationships

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THANK YOU.

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