

# We All Know the Benefits of Standards: Let's Apply That Knowledge to Publishing Standards

Todd Carpenter  
Executive Director, NISO  
ANSI Joint Member Forum  
World Standards Week, Washington, DC  
October 19, 2017

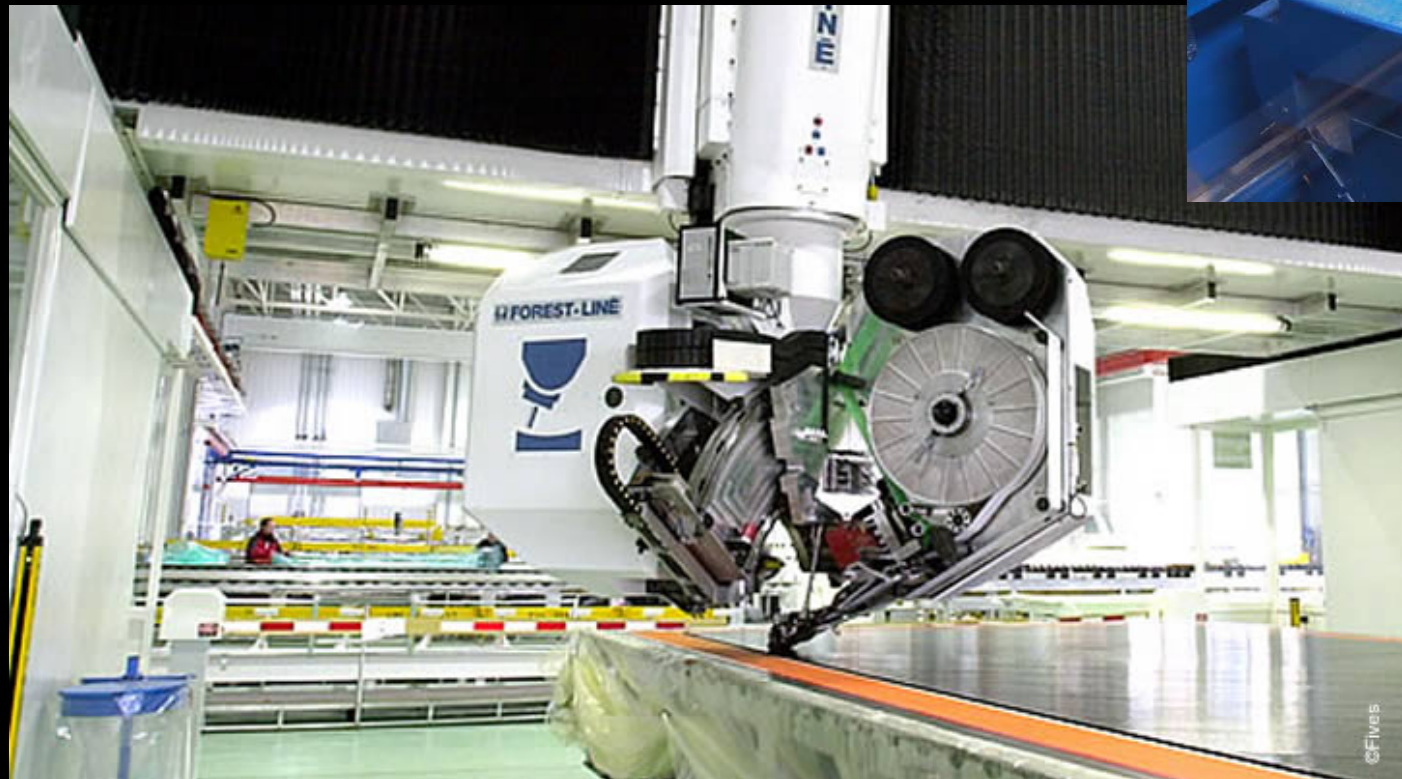
# About NISO

How the information world  
CONNECTS

- Non-profit trade association SDO accredited by ANSI
- Mission of developing and maintaining technical standards related to information, documentation, discovery and distribution of published materials and media
- Volunteer driven organization: 230+ members and 500+ contributors spread out across the world
- Responsible for standards like ISSN, DOI, Dublin Core metadata, DAISY talking books, OpenURL & MARC records
- US Technical Advisory Group to ISO TC 46 (Information & documentation) & its five SCs and also serves as ISO TC46/SC9 Secretariat

We don't think twice about  
efficiencies of manufacturing

# You wouldn't want to build one of these machines every time!







UPPER-CASE

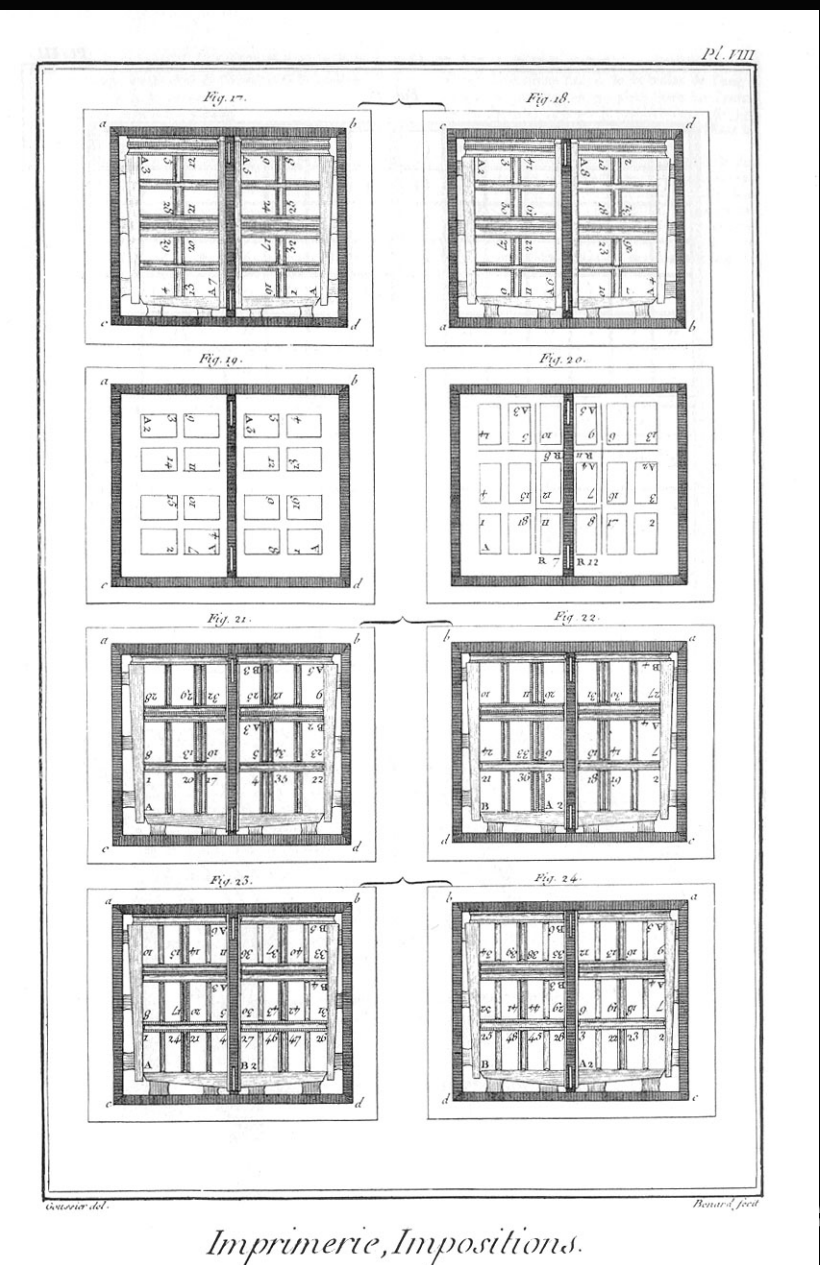
lower-case

Page Numbering

Photo: [Maggie McCain](#)  
[Flickr](#) [PB103474](#)

Ben Franklin's *A Scheme for a new Alphabet and a Reformed Mode of Spelling*:

“Color” is how you spell “colour”



**Can we create standards  
that are native to this  
digital environment?**

# Publishing isn't what it used to be



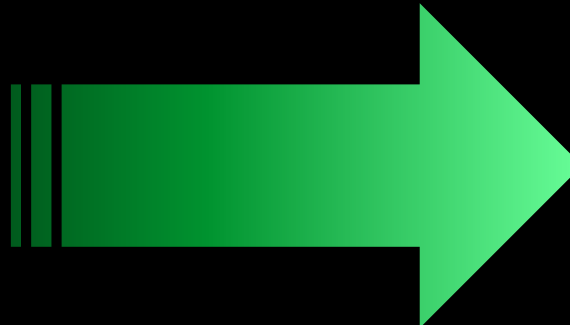
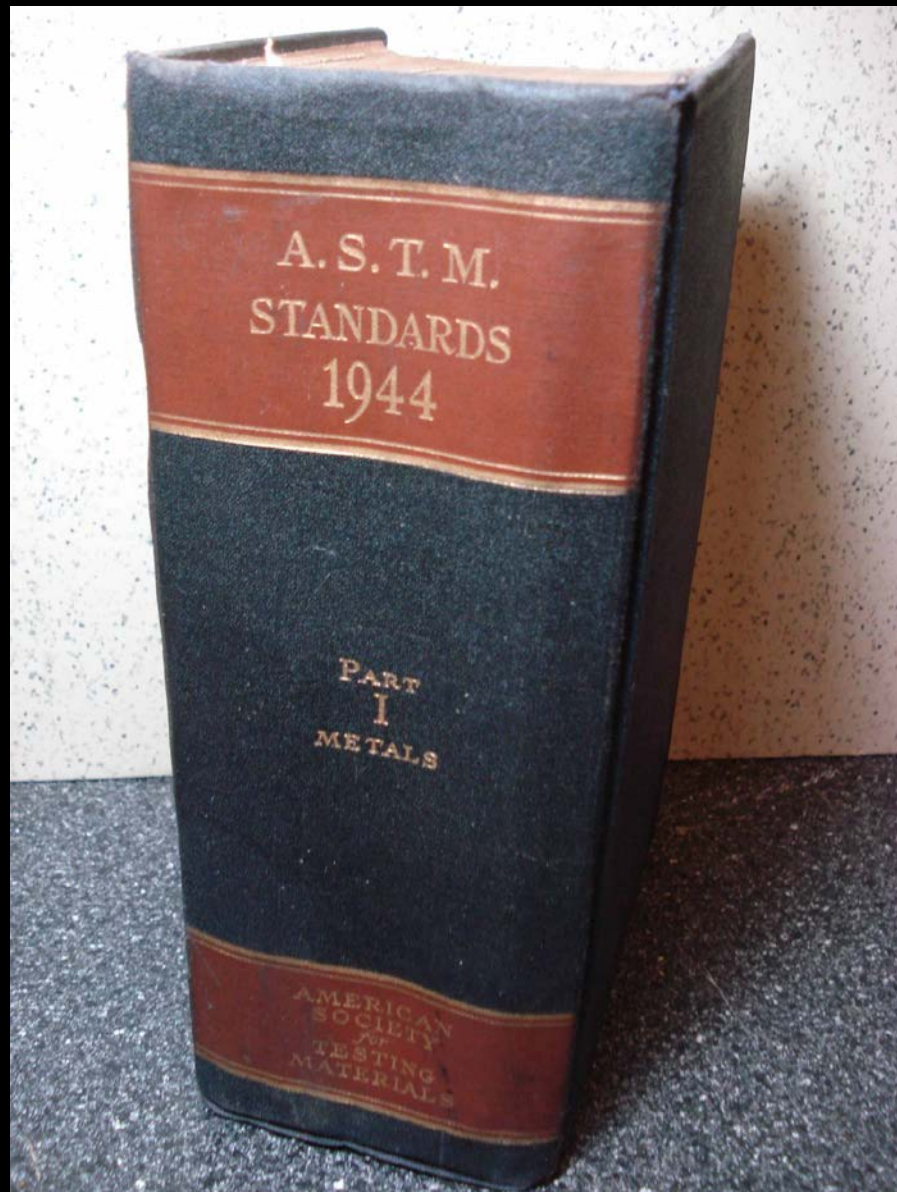
Walters Art Museum





Domenico, Caron, Davis, et al.



# Skeuomorph



**Designation: A105/A105M – 10**

**PDF**

**Standard Specification for Carbon Steel Forgings for Piping Applications<sup>1</sup>**

This standard is issued under the fixed designation A105/A105M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of revision. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

*This standard has been approved for use by agencies of the Department of Defense.*

**1. Scope\***

1.1 This specification<sup>2</sup> covers forged carbon steel piping components for ambient- and higher-temperature service in pressure systems. Included are flanges, fittings, valves, and similar parts ordered either to dimensions specified by the purchaser or to dimensional standards such as the MSS, ASME, and API specifications referenced in Section 2. Forgings made to this specification are limited to a maximum weight of 10 000 lb [4540 kg]. Larger forgings may be ordered to Specification A266/A266M. Tubesheets and hollow cylindrical forgings for pressure vessel shells are not included within the scope of this specification. Although this specification covers some piping components machined from rolled bar and seamless tubular products (see 4.2), it does not cover raw material produced in these product forms.

1.2 Supplementary requirements are provided for use when additional testing or inspection is desired. These shall apply only when specified individually by the purchaser in the order.

1.3 Specification A266/A266M covers other steel forgings and Specifications A675/A675M and A696 cover other steel bars.

1.4 This specification is expressed in both inch-pound units and SI units. However, unless the order specifies the applicable "M" specification designation (SI units), the material shall be furnished to inch-pound units.

The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.5 The values stated in either SI units or inch-pound units are to be regarded separately as standard. Within the text, the SI units are shown in brackets. The values stated in each

system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

NOTE 1—The dimensionless designator NPS (nominal pipe size) has been substituted in this standard for such traditional terms as "nominal diameter," "size," and "nominal size."

**2. Referenced Documents**

2.1 In addition to those reference documents listed in Specification A961/A961M, the following list of standards apply to this specification:

2.2 *ASTM Standards:*<sup>3</sup>

- A266/A266M Specification for Carbon Steel Forgings for Pressure Vessel Components
- A370 Test Methods and Definitions for Mechanical Testing of Steel Products
- A675/A675M Specification for Steel Bars, Carbon, Hot-Wrought, Special Quality, Mechanical Properties
- A696 Specification for Steel Bars, Carbon, Hot-Wrought or Cold-Finished, Special Quality, for Pressure Piping Components
- A788/A788M Specification for Steel Forgings, General Requirements
- A961/A961M Specification for Common Requirements for Steel Flanges, Forged Fittings, Valves, and Parts for Piping Applications

2.3 *MSS Standards:*

- SP 44 Standard for Steel Pipe Line Flanges<sup>4</sup>

2.4 *ASME Standards:*

- B16.5 Dimensional Standards for Steel Pipe Flanges and Flanged Fittings<sup>5</sup>
- B16.9 Wrought Steel Butt Welding Fittings<sup>5</sup>

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee A01 on Steel, Stainless Steel and Related Alloys and is the direct responsibility of Subcommittee A01.22 on Steel Forgings and Wrought Fittings for Piping Applications and Bolting Materials for Piping and Special Purpose Applications. Current edition approved May 1, 2010. Published June 2010. Originally approved in 1926. Last previous edition approved in 2009 as A105/A105M-09. DOI: 10.1520/A0105\_A0105M-10.

<sup>2</sup> For ASME Boiler and Pressure Vessel Code applications see related Specification SA-105 in Section II of that Code.

<sup>3</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

<sup>4</sup> Available from Manufacturers Standardization Society of the Valve and Fittings Industry (MSS), 127 Park St., NE, Vienna, VA 22180-4602, <http://www.mss-hq.com>.

<sup>5</sup> Available from American Society of Mechanical Engineers (ASME), ASME International Headquarters, Three Park Ave., New York, NY 10016-5990, <http://www.asme.org>.

**\*A Summary of Changes section appears at the end of this standard.**

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**What does a digital native  
document require?**



Good quality metadata  
Interoperable  
Standard formats  
Accessible design  
Multimedia (if appropriate)  
Transformable  
Adaptive design  
Atomizable  
Preserve-able  
Linkable & Trackable



# Reflecting back on SES Conference in 2010

## Standards for Standards

What structures/items/properties do standards share?

What do standards share in common with other publications

What are unique to standards publications:

- Reference styles

- Linking structures


Can we build upon these commonalities to develop:

- A common DTD? Common references? Interlinking?


What do users demand/need regarding standard publication that they are not getting now?





Have we made  
progress since 2010?



# What can we do with that?




Online Browsing Platform (OBP)


 Sign in ▶ Language ▶ Help Search

 Search  Search results x  ISO 3720:2011(en) x  ISO 3720:2011(ru) x



20 results for Tea milk  


Sort by: Relevance ↓ Results per page: 10 

See 1 more






**ISO 22935-1:2009(en)**  
**Milk and milk products — Sensory analysis — Part 1: General guidance for the recruitment, selection, training and monitoring of assessors**  
8.2 References  
H 8 NNaO 4 + 1 l water Table 25 Suggested training references for selected milk and milk ...

 Buy  
 Follow





**ISO 3720:2011(en)**  
**Black tea — Definition and basic requirements**  
Introduction  
Tea is grown and manufactured in numerous countries of the world and is blended or drunk... ...in numerous countries of the world and is blended or drunk in many more. Black tea may be produced from ...

 Buy  
 Follow




**ISO 5765-1:2002(en)**  
**Dried milk, dried ice-mixes and processed cheese — Determination of lactose content — Part 1: Enzymatic method utilizing the glucose moiety**


 Buy  
 Follow










# What can we do with that?




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 Search  Search results x  ISO 3720:2011(en) x  ISO 3720:2011(ru) x

ISO 3720:2011(en) Black tea — Definition and basic requirements  Buy  Follow 

 Table of contents


Foreword

Introduction

1 Scope and field of application

2 Normative references

3 Terms and definitions


 4 Basic requirements

4.1 General requirements

4.2 Chemical requirements



5 Sampling

6 Methods of test

 7 Packing and marking

7.1 Packing

7.2 Marking

Available in:  

their previous experience or tea from the producing area and their knowledge of national or regional conditions, and preferences in the consuming country. Account may be taken of characteristics such as the appearance of the tea before preparation of a liquor, the appearance of the infused leaf and the appearance, odour and taste of the liquor. An expert tea taster can assess whether a tea would be unlikely to comply with the chemical requirements. Thus, in practice, time and expense can be saved by submitting teas for chemical analysis only if the tea is considered “suspect” by a tea taster.


## 1 Scope and field of application

This International Standard specifies the parts of a named plant that are suitable for making black tea for consumption as a beverage and the chemical requirements for black tea that are used to indicate that tea from that source has been produced in accordance with good production practice.


This International Standard also specifies the packing and marking requirements for black tea in containers.





This International Standard is not applicable to scented or decaffeinated black tea.

# What can we do with that?



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ISO 3720:2011(en) Black tea — Definition and basic requirements  Buy  Follow 

Table of contents

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Introduction

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7 Packing and marking

7.1 Packing

7.2 Marking

Tables

Only informative sections of standards are publicly available. To view the full content, you will need to purchase the standard by clicking on the "Buy" button.

For the purposes of this document, the following terms and definitions apply.

3.1  
black tea

tea derived solely and exclusively, and produced by acceptable processes, notably withering, leaf maceration, aeration and drying, from the tender shoots of varieties of the species *Camellia sinensis* (L.) O. Kuntze, known to be suitable for making tea for consumption as a beverage

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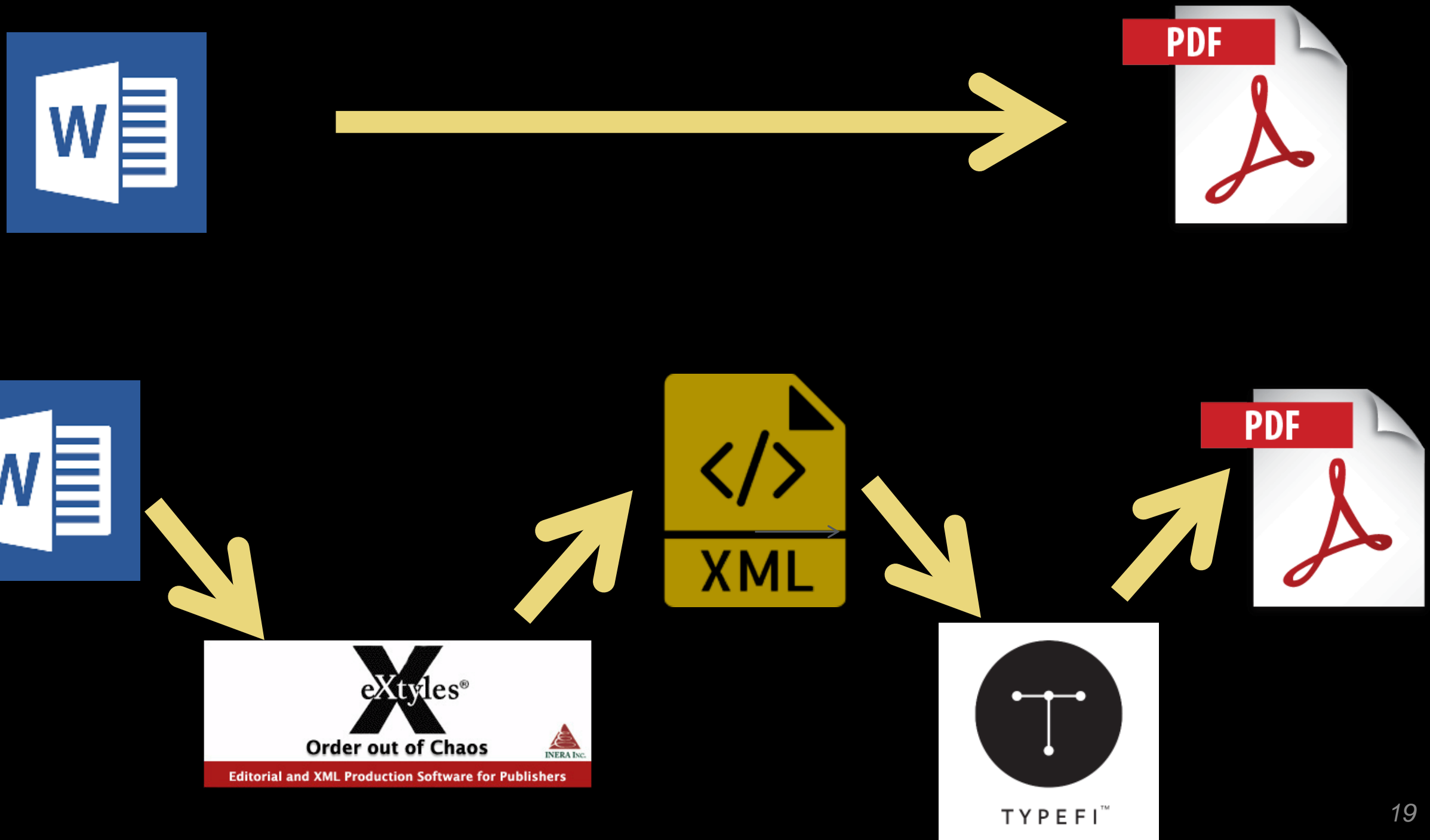
**How can others  
make this happen?**



# How many organizations use this workflow?



# Why is this change in workflow better AND cheaper?



# Rather than building your own

### Table of Contents

Components | Resource Hierarchy

- crossref4.3.4.xsd
  - common4.3.4.xsd
  - JATS-journalpublishing1.xsd
  - mathml3.xsd
  - fundref.xsd
  - AccessIndicators.xsd

XML Schema documentation generated by **<Oxygen/>** XML Editor.

Element Form Default: **qualified**

### Element contrib-group

Namespace: No namespace

Diagram

Properties

Content: **complex**

Used by

Elements: **article-meta, collab, front-stub, journal-meta, sec-meta, supplement**

Model

Children

Instance

Showing:

- Annotations
- Attributes
- Diagrams
- Facets
- Instances
- Properties
- Source
- Used by

Close

```
<contrib-group content-type="" id="" specific-use="">
  <contrib actuate="" contrib-type="" corresp="" deceased="" equal-contrib="" href="" id="" rid="" role="" show="" specific-use="" title="" type="">{1,unbounded}</contrib>
  <address content-type="" id="" xml:lang="" specific-use="">{1,1}</address>
  <aff content-type="" id="" xml:lang="" rid="" specific-use="">{1,1}</aff>
  <aff-alternatives id="">{1,1}</aff-alternatives>
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  <role content-type="" xml:lang="" specific-use="">{1,1}</role>
  <uri actuate="" content-type="" href="" xml:lang="" role="" show="" specific-use="" title="" type="">{1,1}</uri>
  <xref alt="" id="" xml:lang="" ref-type="" rid="" specific-use="">{1,1}</xref>
</contrib-group>
```



**How much would it take to  
develop your own DTD from  
scratch?**

**How much would it take to  
develop your own DTD from  
scratch?**

**\$400,000-500,000+  
(10 years ago)**

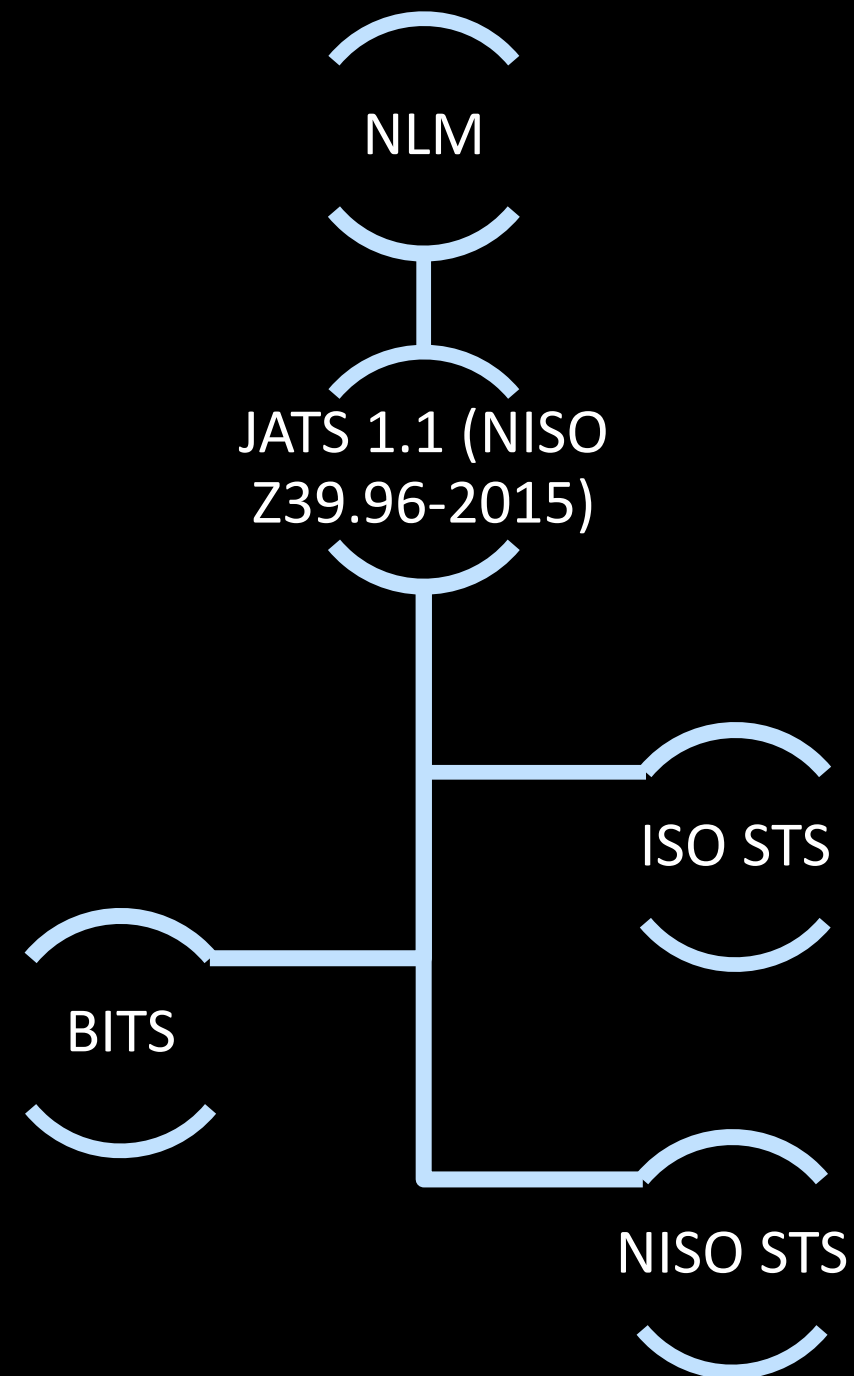
We all want our own



# NISO STS Project



# NISO Tag Suite Family



# *ISO Standards Tag Set (ISOSTS)*

Originally developed by ISO in 2011

Based on NISO Z39.96 – JATS

“Wherever possible closely aligned with JATS with minimal changes to tags or definitions”

# Launch of NISO STS in 2015

Recognized the need to maintain alignment between JATS & STS

Move maintenance of STS to a neutral 3<sup>rd</sup> party organization

Participation by a variety of SDOs

# An open and trustworthy process

Meeting Minutes - National Information Standards Organization

**NISO**  
How the information world  
CONNECTS

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- [Roster - Steering Group](#)
- [Roster - Technical Working Group](#)
- [Meeting Minutes](#)

## Meeting Minutes

All STS group meeting minutes will be posted here following approval to be made public. [You may subscribe to a mailing list](#) to alert you to appearance of new minutes.

### Steering Group

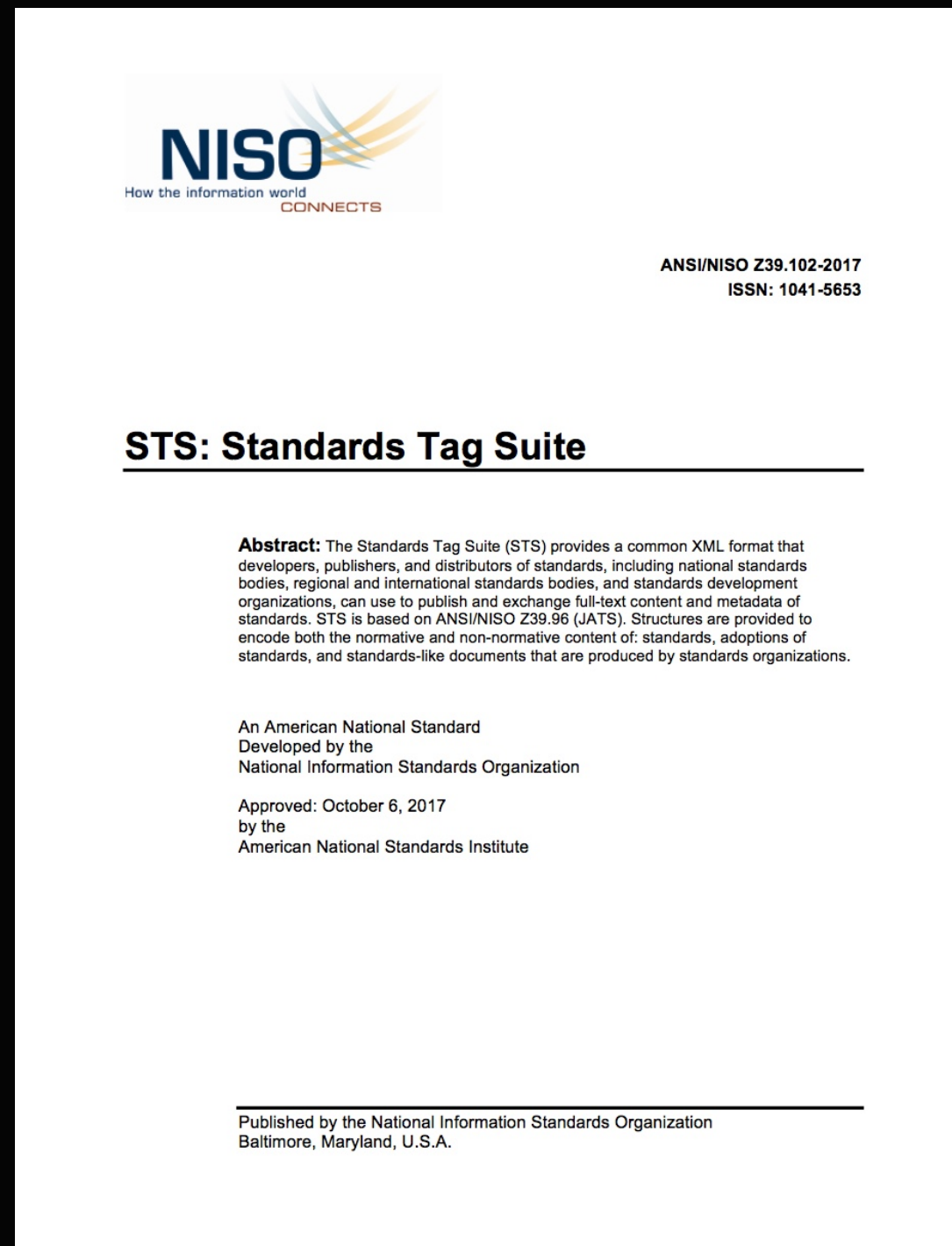
- [May 10, 2016](#)
- [April 5, 2016](#)
- [March 8, 2016](#)
- [February 9, 2016](#)
- [January 12, 2016](#)
- [December 9, 2015](#)
- [November 16, 2015](#)
- [October 6, 2015](#)

### Technical Working Group

- [June 15, 2016](#)
- [May 25, 2016](#)
- [April 20, 2016](#)
- [March 9, 2016](#)
- [February 17, 2016](#)
- [January 20, 2016](#)
- [December 16, 2015](#)
- [November 24, 2015](#)



# Just Published: ANSI/NISO Z39.102-2017



May 18, 2018 Freely available at: <http://www.niso.org/standards/z39.102-2017>

**We took initial \$150,000 investment**

**We took initial \$150,000 investment**  
**Added 100+ XML expert volunteers**

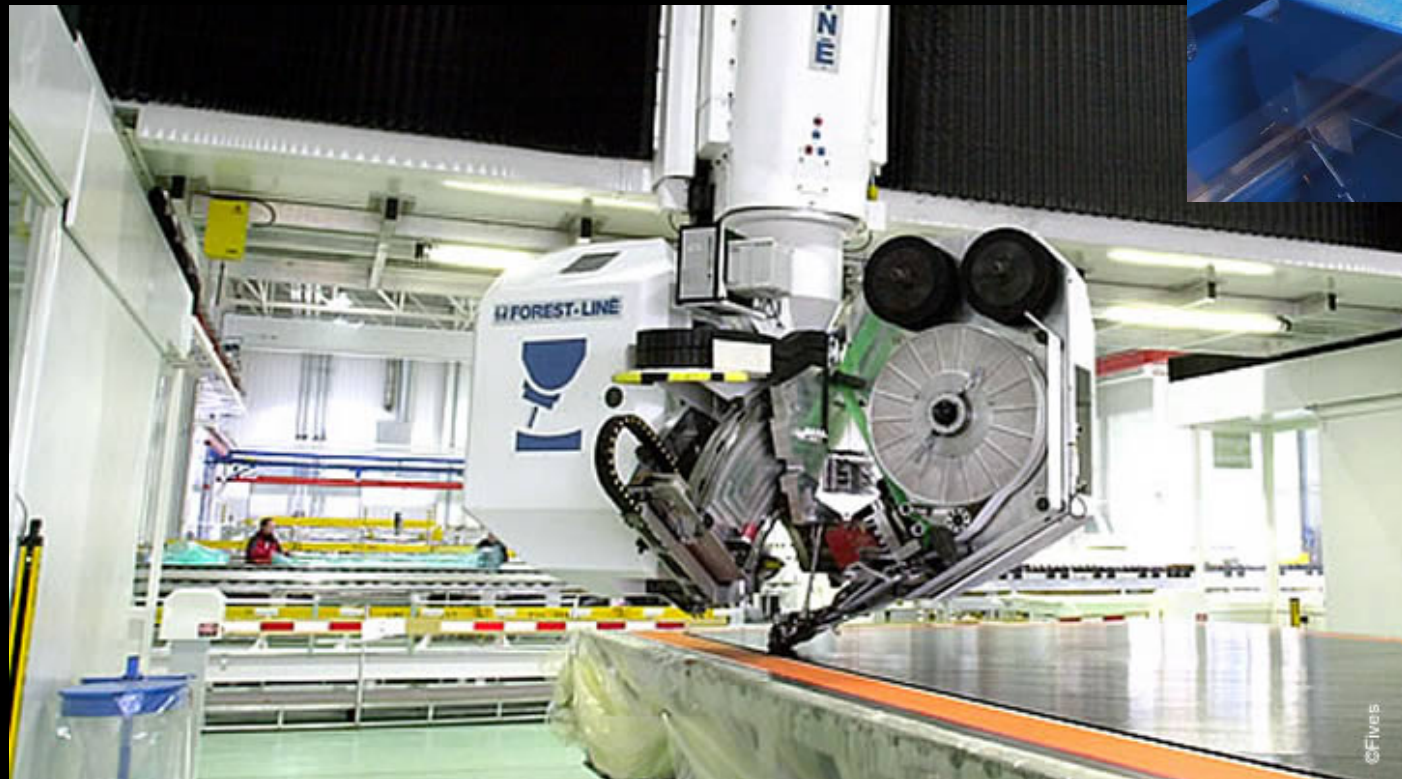
**We took initial \$150,000 investment**  
Added 100+ XML expert volunteers  
Added another fifteen years of work



**We took initial \$150,000 investment**  
Added 100+ XML expert volunteers  
Added another fifteen years of work  
Tens of thousand dollars more

**We took initial \$150,000 investment**  
Added 100+ XML expert volunteers  
Added another fifteen years of work  
Tens of thousand dollars more  
Focused it on the standards  
community

# So you don't have to build your own one of these



What can we do with all this,  
now that it's available  
and free to use



# Thank you!

Todd Carpenter, Executive Director

[tcarpenter@niso.org](mailto:tcarpenter@niso.org)

@TAC\_NISO

National Information Standards Organization (NISO)

3600 Clipper Mill Road, Suite 302

Baltimore, MD 21211 USA

+1 (301) 654-2512

[www.niso.org](http://www.niso.org)