

XBRL Guidance and Taxonomy Development Handbook Public Review

January 14, 2020

Agenda

Mission of XBRL International and XBRL US	Campbell Pryde, President and CEO, XBRL US John Turner, CEO, XBRL International
Importance of Guidance Now	Michelle Savage, VP, Communication, XBRL US
Review of Guidance Materials	Scott Theis, Chairman, XBRL US Domain Steering Committee (DSC), and CEO, Novaworks LLC John Turner, XBRL International
Next Steps	

Mission of XBRL International and XBRL US

XBRL International:

Our purpose is to improve the accountability and transparency of business performance globally, by providing the open data exchange standard for business performance.

XBRL US:

Our mission is to support the implementation of XBRL business reporting standards through the development of taxonomies for use by U.S. public and private sectors, with a goal of interoperability between sectors, and by promoting XBRL adoption through marketplace collaboration.

Standards Development Materials

- Guidance articles (XBRL International)

- In-depth topical content for developers

Format

- Deep dive articles on specific topics, e.g., “designing a list of allowed values”, “multilingual language”, “Formula Rules tutorial”.
- Some content open to public, some available for members only

- Taxonomy Development Handbook (XBRL US)

(and supporting materials: Style Guide, Approval Metrics)

- Education and training for those new to XBRL
 - Take the mystery and complexity out of taxonomy development
 - Encourage creation of new taxonomies
 - Get regulators engaged
- Make taxonomy development and implementation easy (or as easy as possible)
- Ensure good quality taxonomies and data

Format

- Sequential walk-through of the process to build a good quality taxonomy
- Open to the public

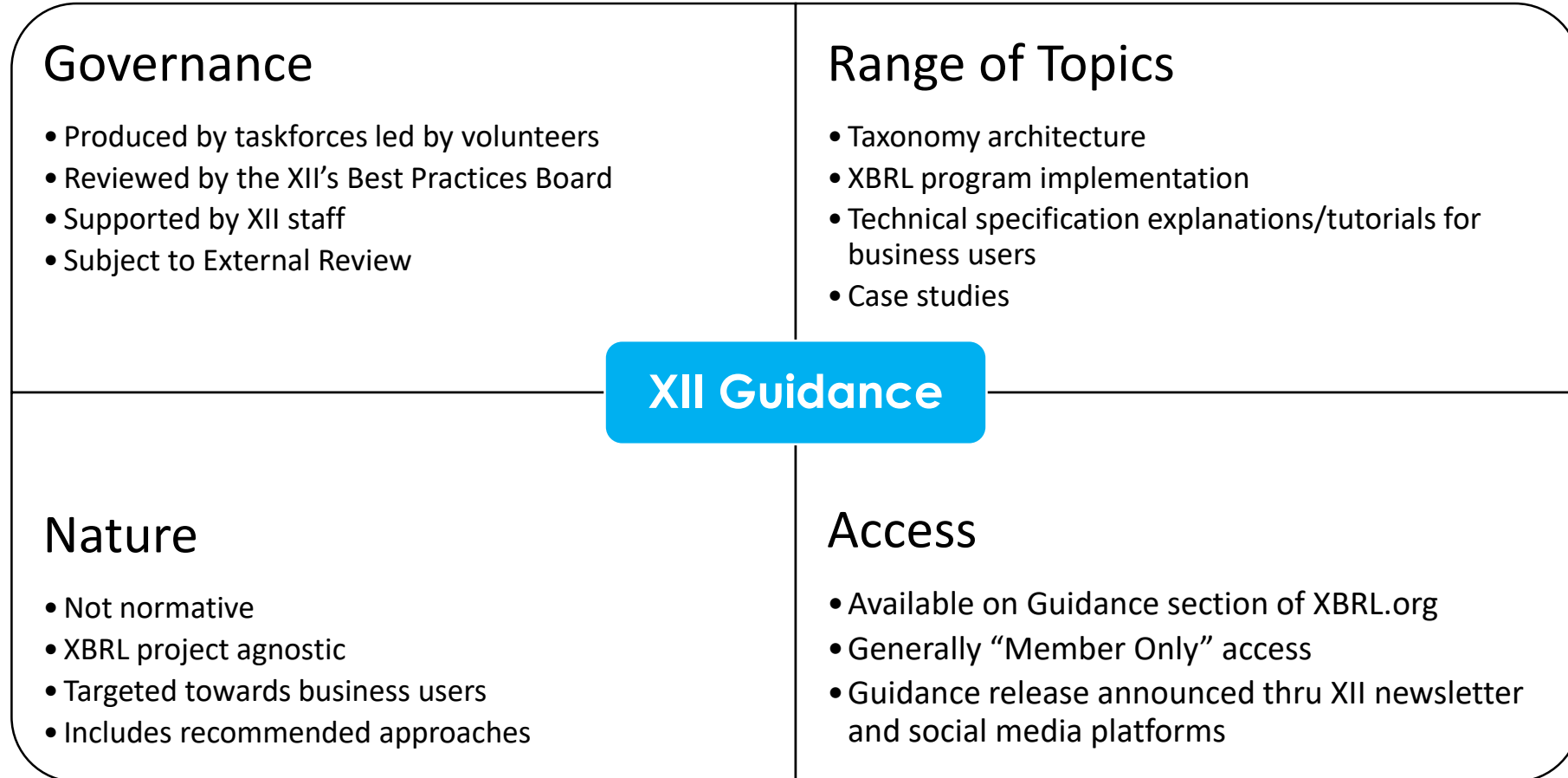
Why now?

- Global activities
 - European Securities Markets Authority (ESMA)
- U.S. government activities
 - Open Government Data Act
 - President's Management Agenda
 - GREAT Act
 - Financial Transparency Act
 - FERC standards development
 - State-level adoption
 - More SEC use of standards

Collaboration

- Ensure consistent content
- Jointly reference both sets of guidance
- (TDH) Link to freely available content; refer to member-only content

XBRL International Guidance



XBRL International Guidance

XBRL
THE BUSINESS REPORTING STANDARD

Guidance

Home > Guidance [LOGIN](#)

PREPARE & PLAN DESIGN & DEVELOP MANAGE & MAINTAIN CREATE & CONSUME

Prepare & Plan (11 Articles)

Building a business case, identifying and organizing stakeholders, understanding reporting frameworks, defining and identifying business needs, setting up the programme team, looking at deployment options, getting market buy-in and building awareness about the value of XBRL.

[View all](#)

Design & Develop (15 Articles)

Understanding the modelling requirements and data architecture, considerations for XBRL taxonomy design/architecture, development of the reporting platform, and guidance around data use for business intelligence and analytics.

[View all](#)

Manage & Maintain (3 Articles)

Knowledge transfer and readiness, programme monitoring, communications to stakeholders, training and stakeholder support, XBRL change management, and adopting market changes.

[View all](#)

Create & Consume (4 Articles)

Guidance around creation and filing of reports/instances, creating and maintaining the filing environment, and consuming XBRL structured data.

[View all](#)

Guidance Categories

- [Prepare & Plan](#)
- [Design & Develop](#)
- [Manage & Maintain](#)
- [Create & Consume](#)

Find a topic by browsing the project life-cycle or use the simple search text box

Explainer Guide for Creating an iXBRL Report

- XII's [iXBRL guide](#)
 - explains transforming the human-readable view into the format required for XBRL
 - provides examples to demonstrate specific iXBRL features along with technical tagging details.
- A useful resource for anyone involved with iXBRL report creation.

XBRL or iXBRL? Make the right choice!

- One of the key decisions for data collectors when planning to implement or upgrade their XBRL platform.
- The [XII guidance](#) helps in choosing the right solution.
- The guidance discusses the characteristics of open and closed reporting, and how they match the features offered by iXBRL and XBRL.

Filing Rules guidance

- Filing rules are crucial for reporting program as they define the specific technical requirements of the filing system.
 - XII guidance on [preparing and publishing filing rules](#) explains
 - the need for filing rules in an XBRL program,
 - provides a list of common classes of filing
 - provides recommendations on how to publish filing rules consistently.
 - XII's [Checklist for XBRL report filing rules](#)
 - describes filing rules for different categories,
 - such as those related to submission, use of Inline XBRL, report contents and built-in dimensions.
 - provides examples of the types of rule that should not be included within filing rules.

XBRL Formula Tutorial

- XBRL Formulas - ability to embed sophisticated business rules for validation into a taxonomy.
- [XBRL Formula tutorial](#) walks through the implementation of many common types.
- Uses a new prototype text-based version of the formula language known as “XF”.
 - XF much easier to read and write.
 - Same functionality as the existing syntax for XBRL formula.

Few other XII Guidance

XII Glossary terms

Defines terms for concepts that are commonly referenced when discussing XBRL and electronic business reporting implementations.

Standard Labels, Label Roles and Multi-Lingual Label

Guidance covering usage and creation of standard label other label roles and multi-lingual labels.

Anchoring extensions

When and how to anchor entity-specific concepts to ESEF taxonomy concepts.

Taxonomy Publication and accompanying Documentation

Describes best practices for publishing XBRL taxonomies, focusing on the guidance information that should be provided as part of a taxonomy package.

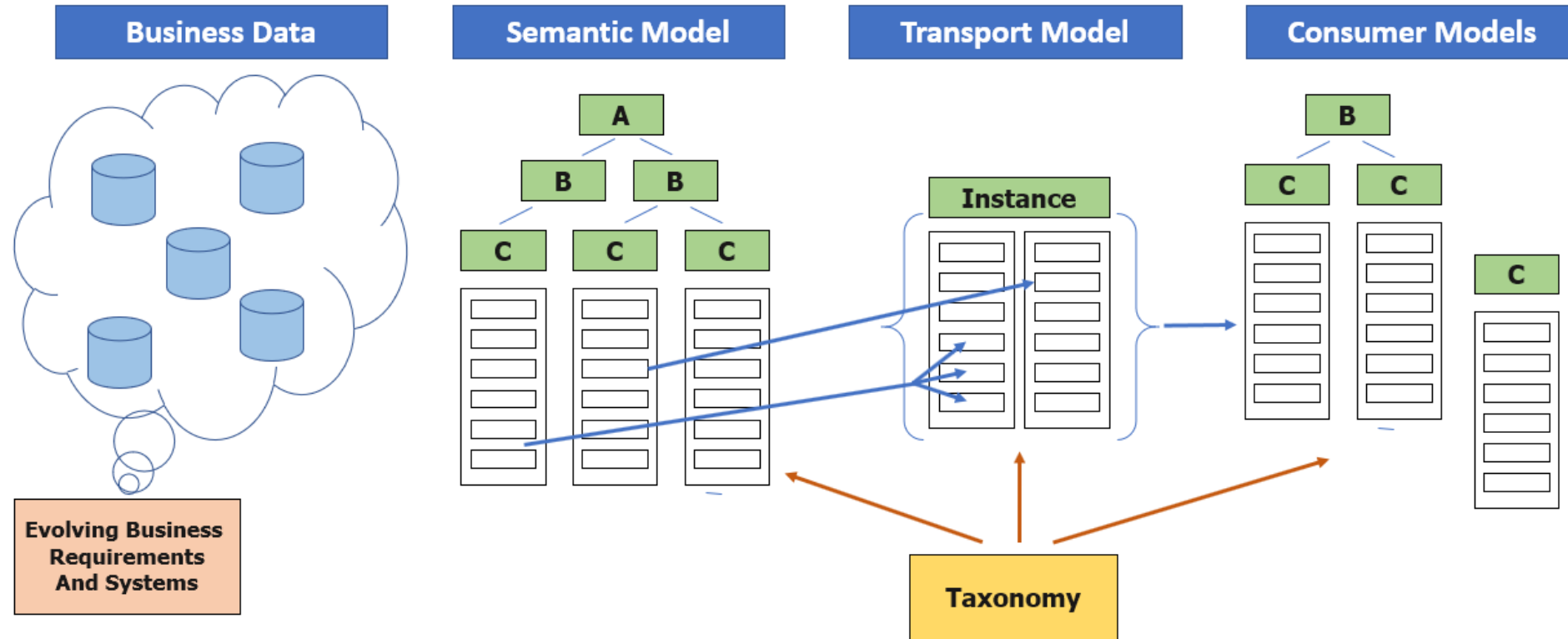
XBRL US Taxonomy Development Materials

Materials:

- Style Guide, September 2017
- Taxonomy Approval Metrics & Process, May 2018
- **Taxonomy Development Handbook (TDH):**

“... a comprehensive guide that directs regulators, industry experts, and businesses through a practical, consistent roadmap to building high quality data standards using XBRL.”

Scenario



Purpose

- To promote the implementation of XBRL as a structured data format throughout the US
- To provide the basic tools and understanding to potential developers
- To make it as easy as possible for developers to source materials for taxonomy development

Audience

- This document is written as an introduction to XBRL, it's structure, capabilities and application to projects
- We expect readers to be SMEs, analysts, developers and a general cross section of those that might be involved in the decision process and eventual development of a private or public taxonomy
- Compliance and specification aspects of development are left to supporting documents from XII and XBRL US

What it is NOT

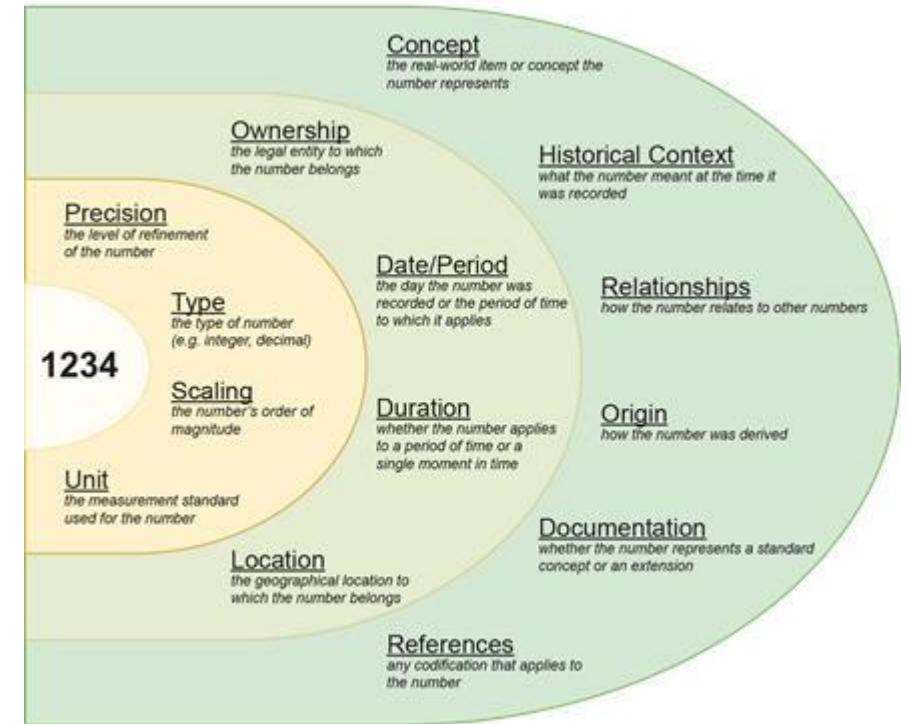
- This is not meant as a specification or reference
- We specifically avoid the use of “SHOULD” or “MUST” etc. (as specified by RFC-2119)
- Information within the document references published standards from XII and XBRL US

Breakdown

- Introduction to XBRL
- Discussion of how to frame a project to develop a taxonomy
- Step-by-step on how to use Excel and Arelle to create a taxonomy set
- Documentation breakdown including outline documents to assist developers
- Methods of implementing and governing a taxonomy
- Success Stories

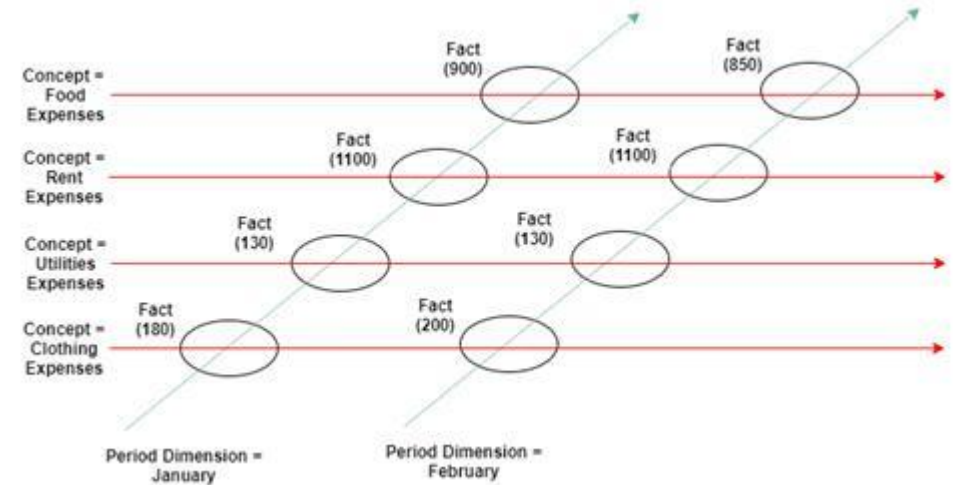
Chapter 1 — Introduction

- A synopsis of the Taxonomy Development Handbook and XBRL
- A brief background about XBRL, including a high-level overview of how it represents data
- A brief discussion of XBRL's history and proliferation as a reporting standard
- An overview of the Handbook's chapters and the specifications it references



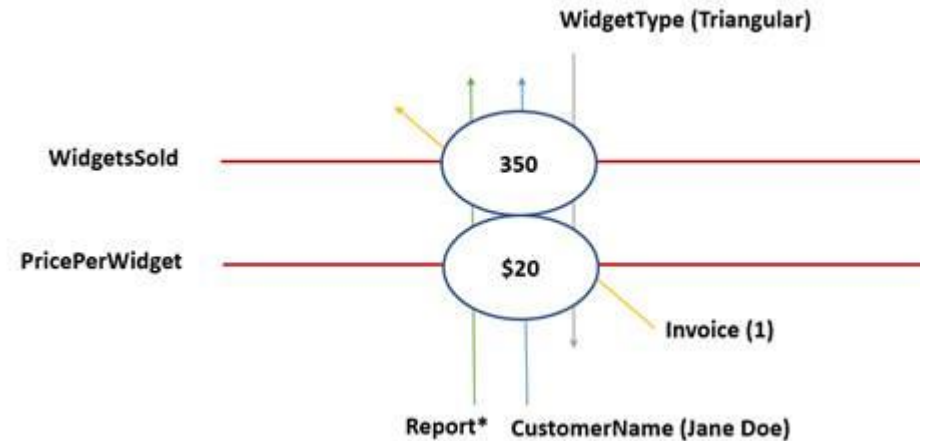
Chapter 2 — An Introduction to XBRL

- An overview of XBRL as a transport data model
- An in-depth discussion of the basic constructs of XBRL, including:
 - Facts
 - Concepts
 - Core Dimensions
 - Taxonomy-defined Dimensions
- An overview of the basic constructs of an XBRL taxonomy, including:
 - Schema files
 - Linkbases



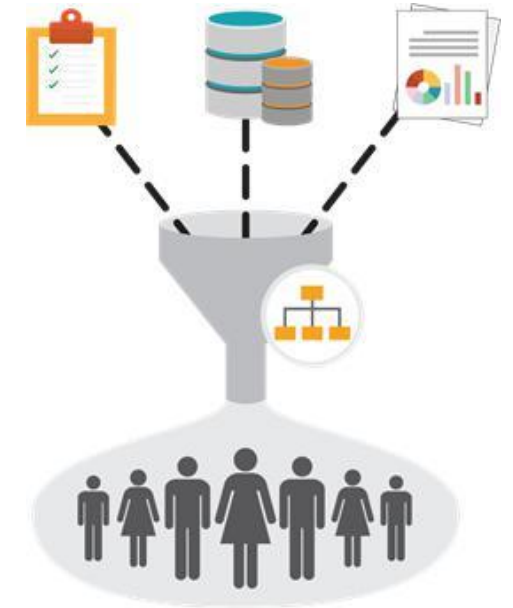
Chapter 3 — Structuring Data

- Illustrates a sample dataset: widget sales
- Defines a relational data model, including:
 - Independent dimensions
 - Dependent dimensions
 - Data point relationships (one-to-one, one-to-many, etc.)
 - Maintaining data point uniqueness
- Explores XBRL constructs to represent that model
 - Concepts and other core dimensions
 - Taxonomy-defined dimensions (explicit vs. typed)
 - Hierarchical relationships (presentations, linkbases)



Chapter 4 — Assessing Overall Project Scope

- Defining project goals and determining requirements for taxonomy
 - Functional vs. non-functional
 - Regulatory
 - Use cases for both preparers and consumers
- Engaging necessary stakeholders
- Determining necessary resources (software development, personnel, etc.) and how the taxonomy will build upon or fit into pre-existing systems
- Developing governance structures and rubrics for success



Chapter 5 — Building a Transport Data Model

- Translating functional and non-functional requirements into a minimum data set
- The stages of data model development: conceptual data model -> logical data model -> physical data model
- Apply data model development steps to widget example (Chapter 3) to build widget taxonomy, including:
 - Deciding on relationships between data points
 - Developing concepts and data types
 - Deciding between explicit and typed taxonomy-defined dimensions

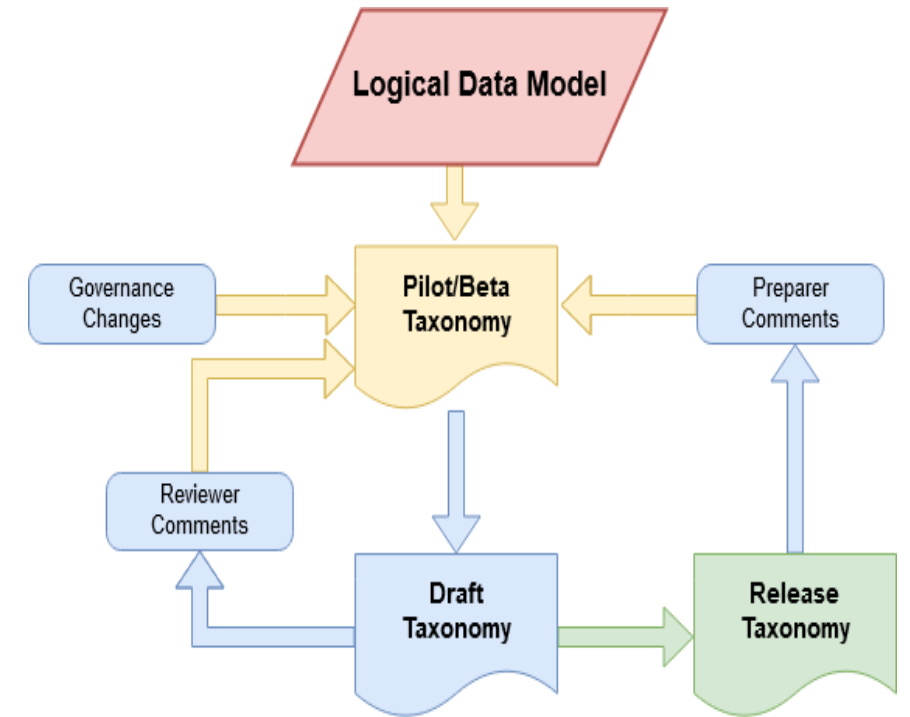
Chapter 5 — Building a Transport Data Model

(continued)

- Development choices
 - Transport format (XML, Inline XBRL, JSON, CSV)
 - Preparer extensibility and its impact on report comparability
 - Report display methods
- Validation
 - Basic validation provided by the XBRL format
 - Validation added through custom software solutions
 - Industry or regulatory requirements

Chapter 6 — The Mechanics of Taxonomy Development

- The workflow of taxonomy development
- Using a spreadsheet and Arelle to develop the taxonomy files
 - Concepts sheet lists concepts and their properties
 - Discoverable Taxonomy Set (DTS) sheet lists properties of the taxonomy itself, including linkbase relationships
- Use Arelle’s “Load from Excel” plug-in to convert the spreadsheet into taxonomy schema (.xsd) and linkbase (.xml) files

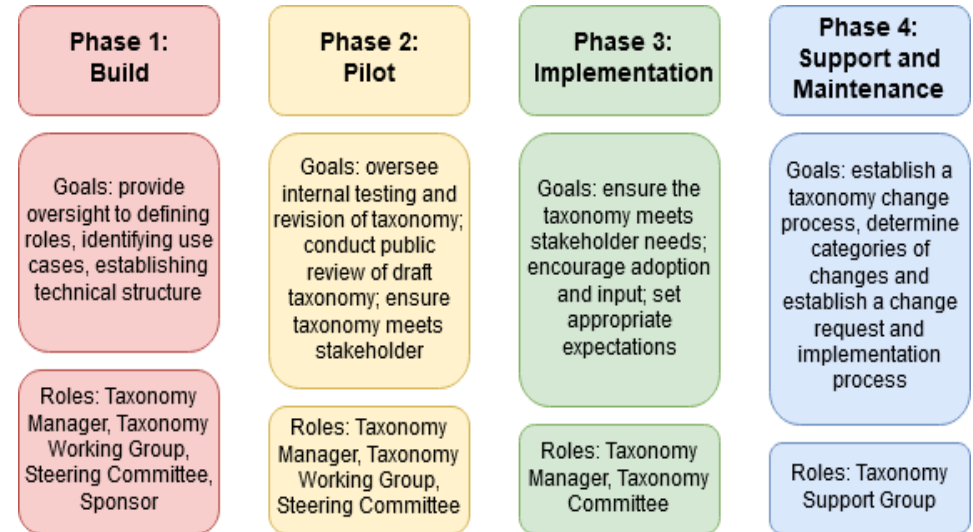


Chapter 7 — Documenting a Taxonomy

- Discussion of the basic types of taxonomy documentation
- *Taxonomy Guide* explains the taxonomy and its design choices in detail. Audience: taxonomy managers, software developers
- *Preparer Guide* explains how to create robust XBRL reports using the taxonomy. Audience: report preparers
- *Consumer Guide* explains how to extract data from the taxonomy data model to analyze it in various popular use cases. Audience: analysts, regulators, various data consumers
- Templates available for download from XBRL US

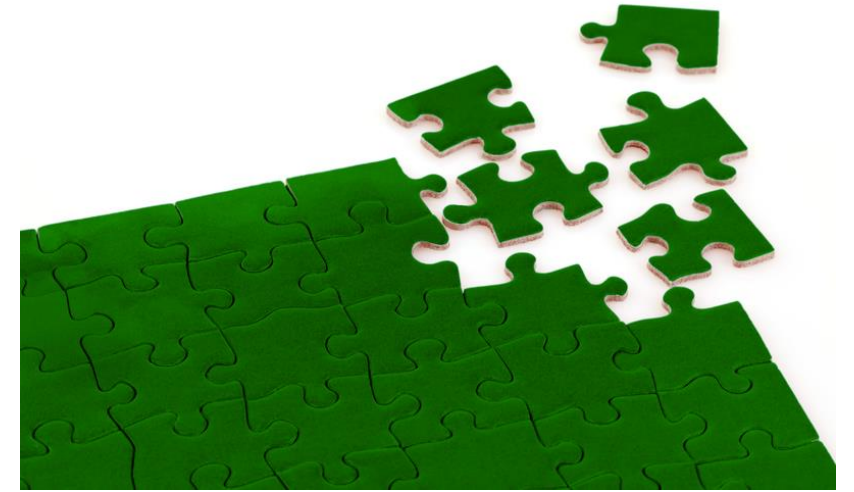
Chapter 8 — Taxonomy Governance

- Governance required to maintain and update a dynamic taxonomy
 - *Phase 1* – Taxonomy development and Build (TDH focuses on this step)
 - *Phase 2* – Pilot Stage, where taxonomy is thoroughly tested and reviewed publicly as necessary. Data quality committees can be formed
 - *Phase 3* – Implementation, where the finished taxonomy is released for use. Supporting systems must be implemented as needed
 - *Phase 4* – Support and Maintenance, where necessary changes and updates are implemented



Chapter 9 — Success Stories

- Thoroughly investigate numerous success stories and example development choices
- Banking in the US – closed reporting regime
- Business to Government Reporting – streamlining regulatory requirements
- WIP Reporting for Surety Underwriting – industry-led standards development
- Public Company Reporting in the US – regulatory sponsor support and maintenance



Appendices — XBRL Information

- Appendix A — XBRL and XML Supporting Information
A collection of technical information to aid in understanding and using XBRL.
- Appendix B — Taxonomy Creation Checklist
A basic checklist of "to do" items for creating a taxonomy.
- Appendix C — Taxonomy White Paper Outline and Template
Information to aid in the creation of a project "white paper" to aid in the process of developing a taxonomy.

Appendices — Aiding in Documentation

- **Appendix D — XBRL Overview Template**
An example XBRL Overview section to be included in taxonomy documentation.
- **Appendix E — Taxonomy Guide Outline and Template**
An outline for a consolidated Taxonomy Guide to be used by users of a taxonomy including preparers, consumers and software developers.
- **Appendix F — Preparer Guide Outline and Template**
An outline for a separate Preparer Guide aimed to aid preparers in using the developed taxonomy.
- **Appendix G — Data Consumer Guide Outline and Template**
An outline for a separate Data Consumer Guide aimed to demonstrate to data consumers how the information in the taxonomy can be applied to common use cases.

Appendices — Taxonomy Approval

- Appendix H — XBRL US Taxonomy Approval Metrics
Information as to how a taxonomy can be reviewed and approved by XBRL US.

Appendices — General Stuff

- **Appendix I — Intellectual Property Status**
An overview of Intellectual Property considerations and a sample IP statement.
- **Appendix J — Document Revision Status**
A discussion of the status of the Taxonomy Development Handbook, including pertinent revisions.
- **Appendix K — Revisions and Public Comments**
A discussion of public comments and the relevant revisions.

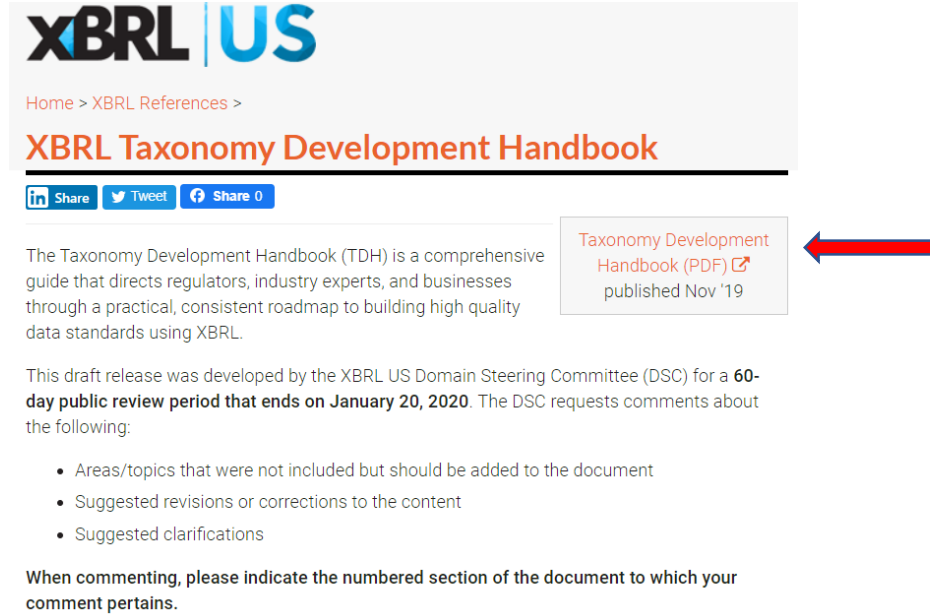
What can Members Do?

- Does this document achieve its goals? If not, why?
- If you read this without knowledge of XBRL, do you think it provides enough information to get started?
- Are there technical issues or inconsistencies?
- Is it too big? Too small?
- Obviously, bad language, typos...

What We Are Doing in the Interim

- Work on language and conforming graphics
- Appendix A needs to be completed
- Working with XII to harmonize content

How to Make Comments



XBRL | US

Home > XBRL References >

XBRL Taxonomy Development Handbook

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The Taxonomy Development Handbook (TDH) is a comprehensive guide that directs regulators, industry experts, and businesses through a practical, consistent roadmap to building high quality data standards using XBRL.

Taxonomy Development Handbook (PDF) published Nov '19

This draft release was developed by the XBRL US Domain Steering Committee (DSC) for a **60-day public review period that ends on January 20, 2020**. The DSC requests comments about the following:

- Areas/topics that were not included but should be added to the document
- Suggested revisions or corrections to the content
- Suggested clarifications

When commenting, please indicate the numbered section of the document to which your comment pertains.

Domain Steering Committee

A Guide for XBRL Taxonomy Developers

Public Comment Draft #1 (November 2019)

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How to Make Comments

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Comment

By using this form you agree with the storage and handling of your data by XBRL US. *

Participate in this conversation via email 

How can members and other stakeholders help?

- Public (members/non-members):
 - Participate in the TDH public review - Identify areas/topics that should be added, suggest revisions, corrections, clarifications
- Members
 - Participate in the public review
 - Provide input to the XII guidance
 - Join an XII or XBRL US working group – XBRL US DSC, XII standards working group
- *(Members of XBRL US are also members of XBRL International and can fully participate within either or both organizations)*

Next steps

- TDH Public Review closes February 21, 2020 (extended)
- Expect final materials to be published in first half of 2020

Questions?