



Managing Emissions Data in the Supply Chain

February 2021

Webinar

ANTI-TRUST REMINDER

PIDX, Inc is committed to compliance with all applicable Anti-trust laws

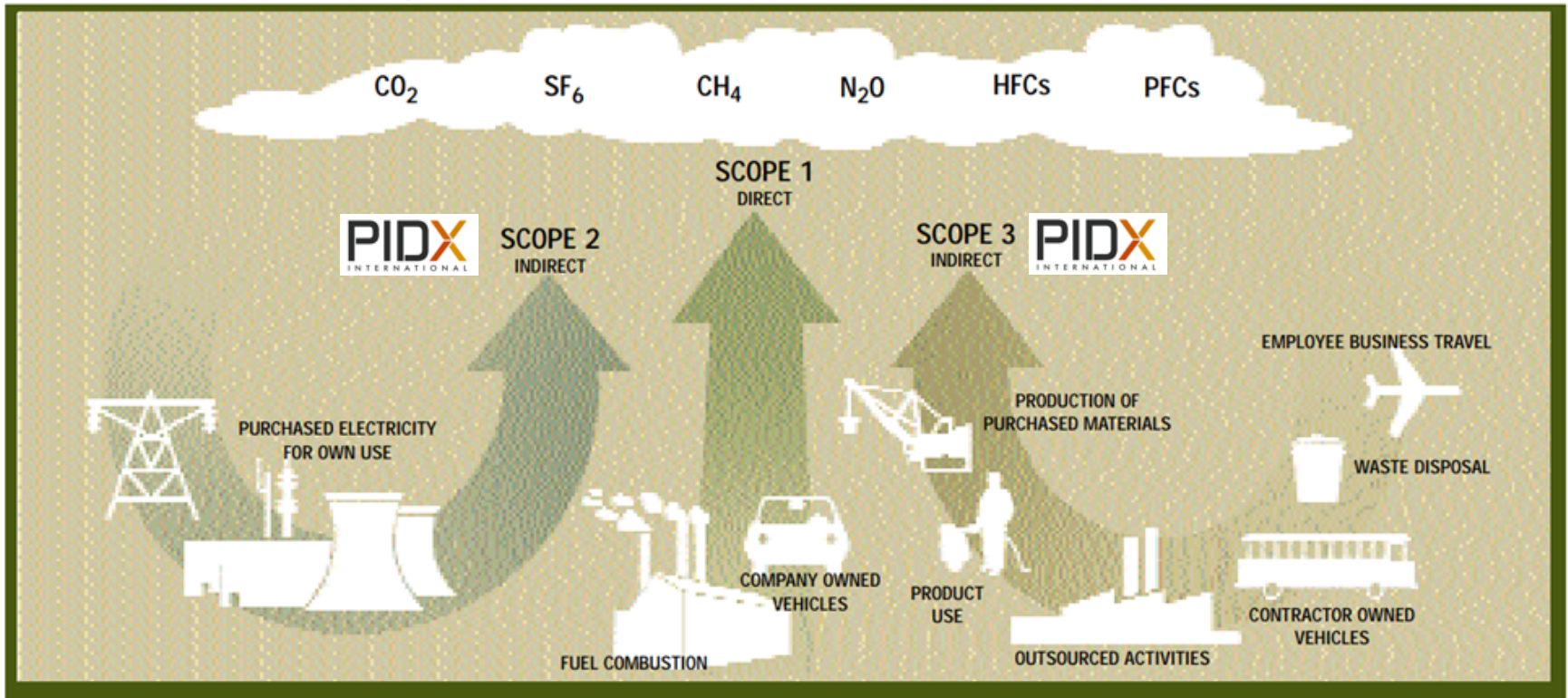
Conversations must be **related to PIDX's mission**, which is the development and publication of technology, process and information standards that **facilitate the adoption of efficient and effective standards for electronic business** in the oil and natural gas industry and its trading community

Conversations should not include Members' prices, terms of commercial contracts, bids or similar competitively sensitive information



Let's talk Scope

FIGURE 3. Overview of scopes and emissions across a value chain



Adopted from NZBCSD, 2002

Source: GHG Protocol Org: <https://ghgprotocol.org/sites/default/files/standards/ghg-protocol-revised.pdf>

PIDX current standards and schemas can be used and extended to support Scope 2 and 3 efforts.

e.g. Extending PIDX Catalog Schema with Emission data

What are some of the hurdles

Lots of industry efforts occurring – just do a google search on “energy transition”

Methodology has not been locked down

Focus is cross industry not just within a certain sector due to the interdependencies related to Scope 2 and Scope 3

Resource challenges – most efforts highly dependent on volunteer resources who are stretched thin due to current industry environment

Current State of PIDX Emissions Transparency Data Exchange (ETDX) workgroup

Participants include: Baker Hughes, BP, Chevron, Independent Data Services, Microsoft, OFS Portal, Sullexis

Developed “straw-dog” on how existing PIDX schema could be extended to support transfer of Emissions data from Supplier to Operator and vice/versa.

Memo of Understanding with “Shell sponsored” Open Group/Open Footprint forum to understand emissions data architecture as an input to extend PIDX standard schemas.

Reference: <https://www.opengroup.org/openfootprint-forum>

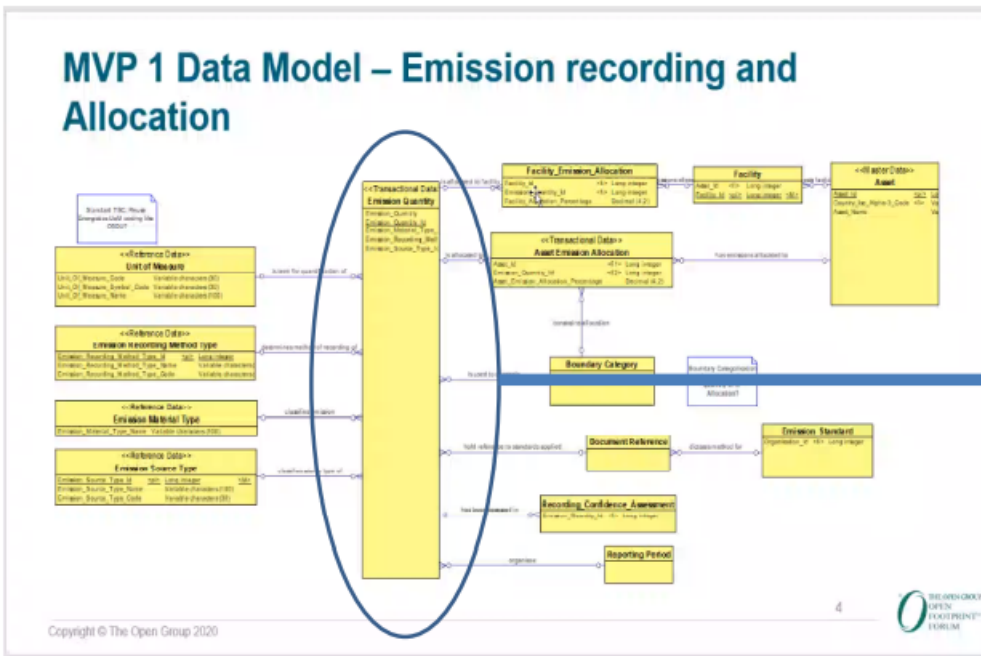
Investigating other forums for mutual collaboration in developing an MVP

Benefits of Collaboration: Example of Enhancing PIDX Standards with Open Group/Open Footprint Data Model

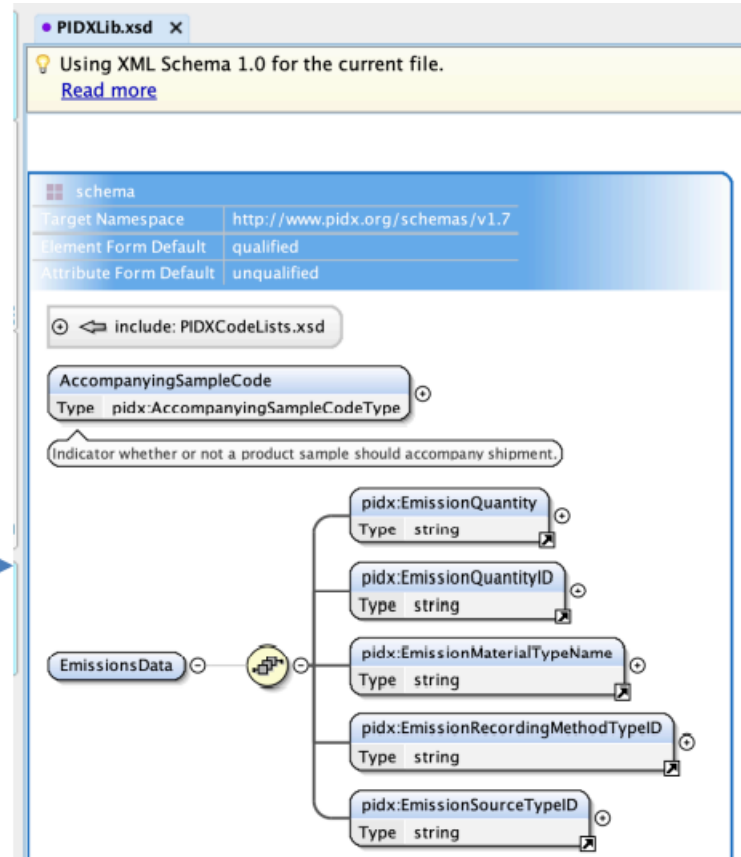
Emissions Transparency Data Exchange – ETDx

Development of PIDX Library Data Elements

MVP 1 Data Model – Emission recording and Allocation

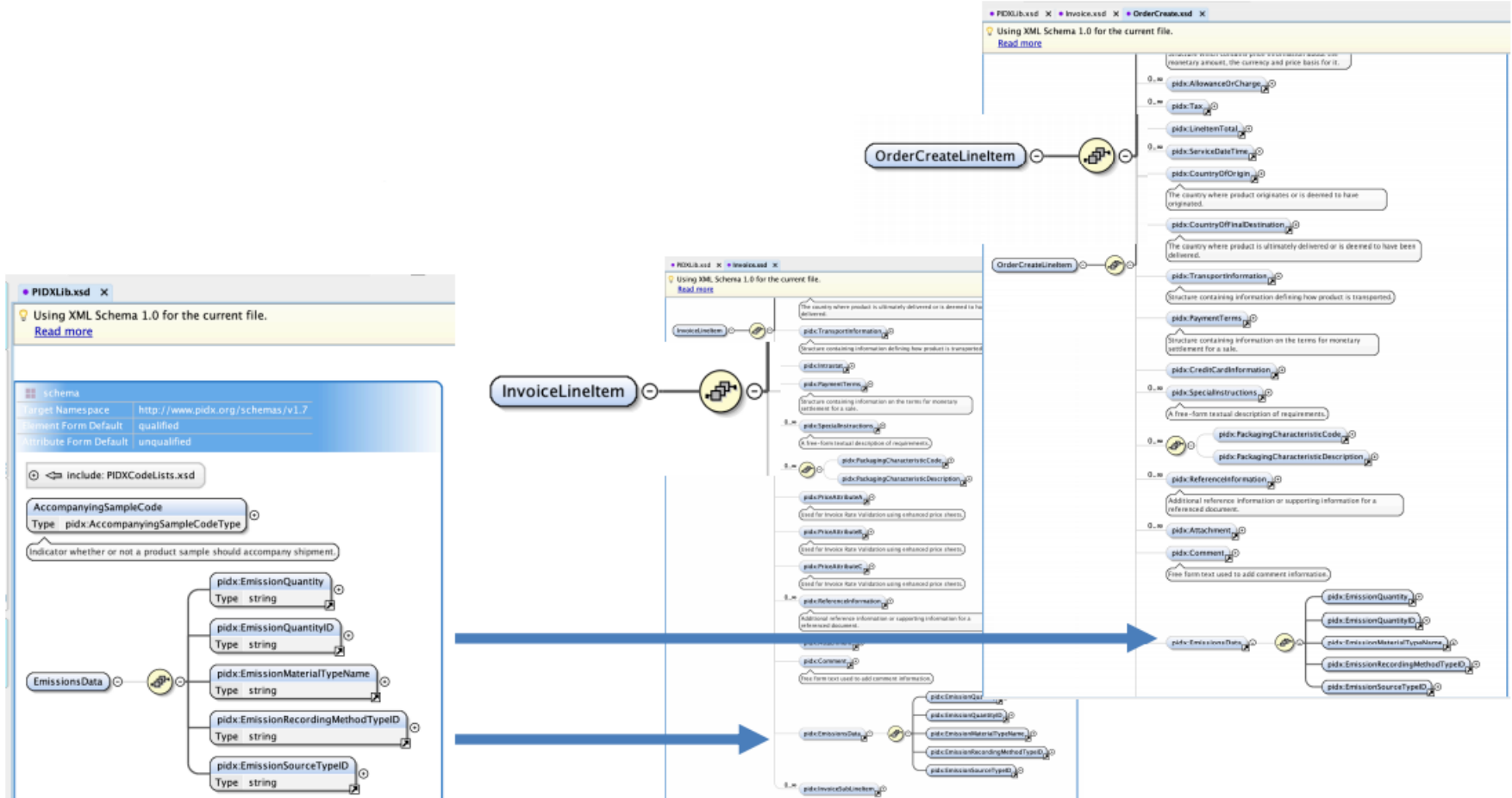


Open Footprint



PIDX Data Element

Benefits of Collaboration: Example of Enhancing PIDX Standards with Open Group/Open Footprint Data Model



PIDX Data Element

PIDX Invoice and Purchase Order Standards

Benefits of Collaboration: Example of Open Group/Open Footprint Data Model leveraging PIDX Reference Data

DOWNSTREAM CODES

PRODUCT CODES

COMPANY CODES

TERMINAL CODES

REGIONAL CODES

ADDITIVE BLEND INDICATOR CODES FOR FUELS

REGULATORY CODES

REGULATORY CODES

REFERENCE

The Petroleum Industry Data Dictionary (PIDD) has over 4,100 templates made up with a Noun:Modifier (think Bearing:Ball) and related attributes (such as inside and outside diameter).

The Petroleum Industry Glossary (PING)