Joint Working Group for Interoperability

Industry Digitalization Meeting

Houston, TX

November 16, 2017

AGENDA

- Joint Working Group – Overview and Background
- Joint Working Group – Identification and Mission
- Current Activity – ISDD/RDL Mapping Work
- Discuss Next Steps

JWG - Identification

- **Name:** Standards-based Interoperability & Lifecycle Information Management Joint Working Group (JWG)
- **Chartering Organizations:** Fiatech and MIMOSA
- **Names of JWG Co-Chairs:**
  - ✓ **Fiatech:** Barbara Migl
  - ✓ **MIMOSA:** Alan Johnston
- **Structure:**
  - ✓ **Core Team:** Responsible for main JWG technical deliverables
  - ✓ **Advisory Board:** Provides input to shape, guide and improve the communications to the business communities being addressed

Standards-based Interoperability JWG

- **Objectives**
  - ✓ Life Cycle Information Management
  - ✓ Interoperability

- **Methods**
  - ✓ A supplier-neutral digital business ecosystem-The OIIE
  - ✓ Defined by standard use cases and a group of existing standards
  - ✓ Direct cooperation with standards organizations
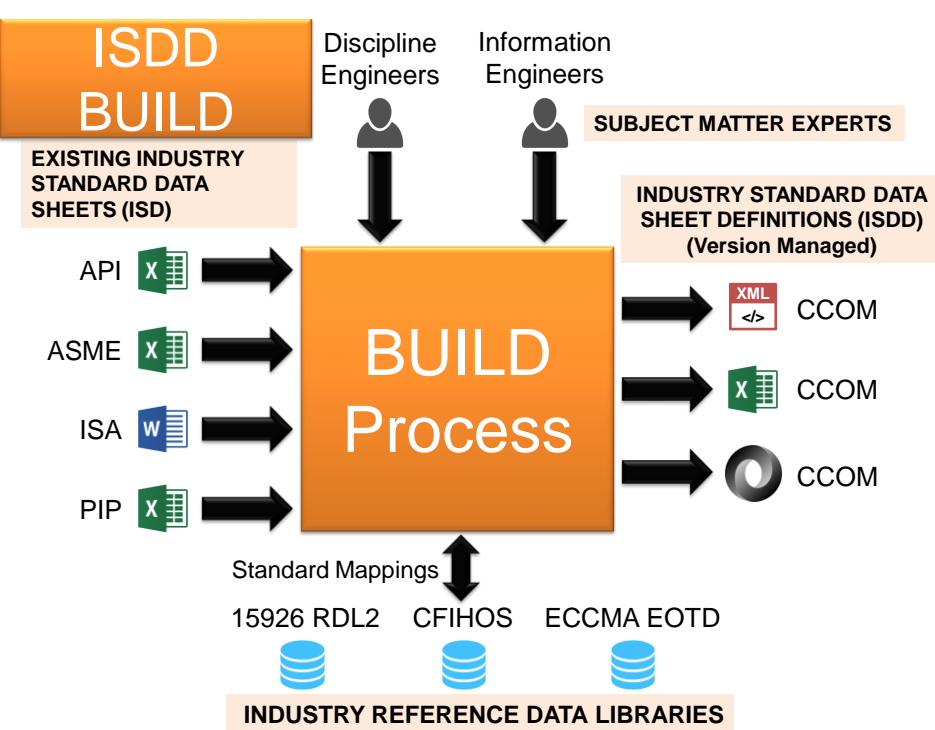 - ✓ Owner/Operator Leadership

- **Business Value**
  - ✓ Economics modeled by Fiatech PATs
  - ✓ "Low Hanging Fruit" can be achieved in the next 12-18 months **in real projects**

JWG - Mission

- Explain <u>what</u> Standards-based Interoperability and Lifecycle Information Management are.

- Explain <u>why</u> both Standards-based Interoperability and Lifecycle Information Management are important, in alignment with the Fiatech Performance Advancement Target Models.

- Explain <u>how</u> to achieve Standards-based Interoperability and Lifecycle Information Management, in alignment with the Open Industrial Interoperability Ecosystem (OIIE), which is developed by MIMOSA in cooperation with Fiatech and other industry organizations.

- Establish guidelines for <u>when</u> various aspects of Standards-based Interoperability and Life-cycle Information Management can be safely adopted to gain business value
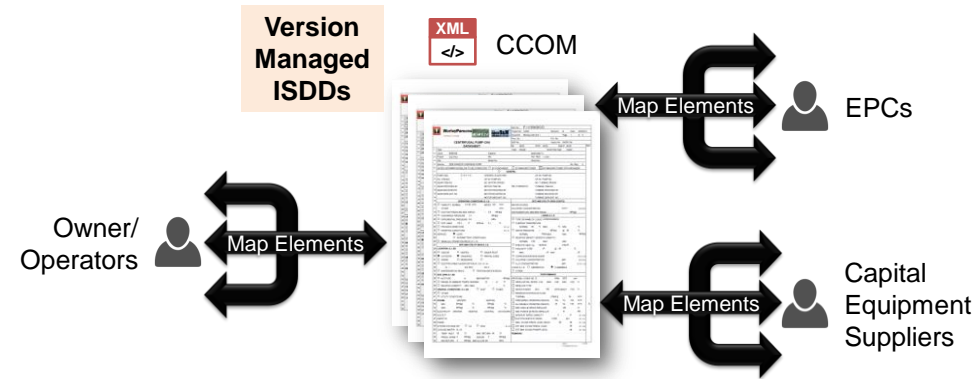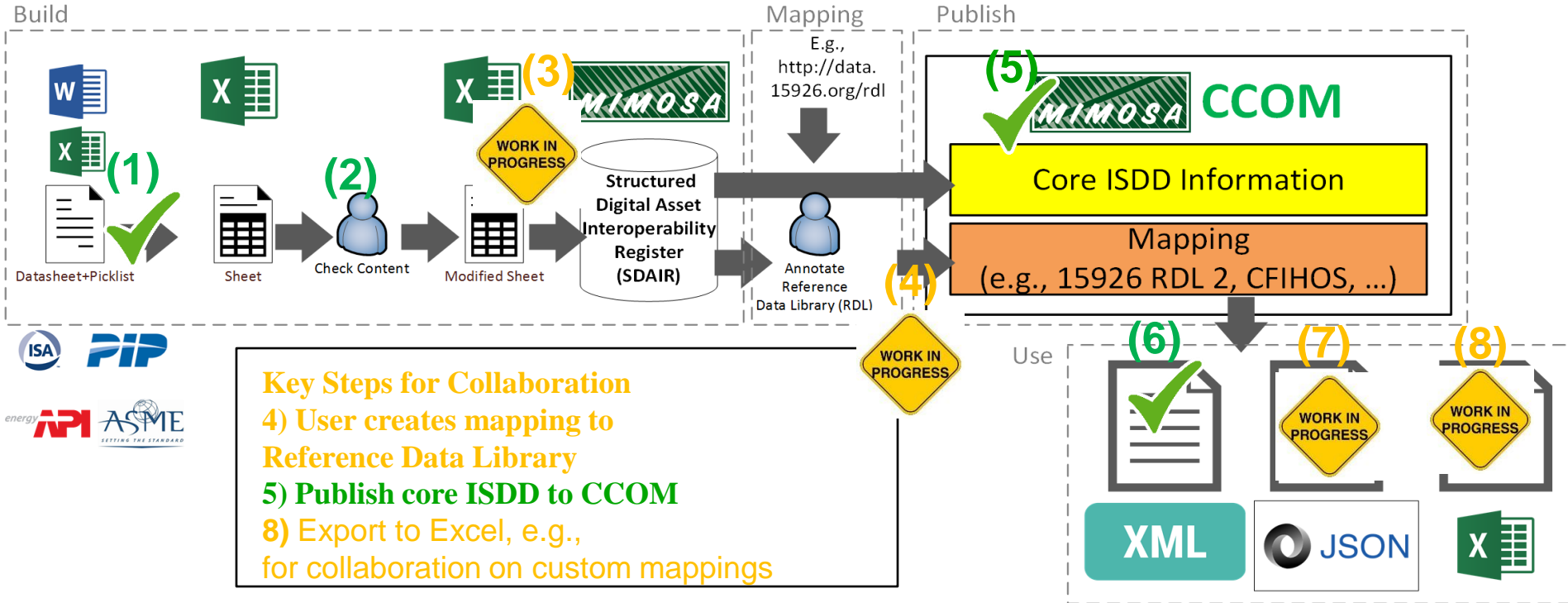
Current JWG Activity - ISDD Development

ISDD BUILD

Discipline Engineers

Information Engineers

SUBJECT MATTER EXPERTS

ISDD USE

An Industry Rosetta Stone

Custom Mappings which enable normalization for property sets "on the wire" in M2M exchanges

EXISTING INDUSTRY STANDARD DATA SHEETS (ISD)

INDUSTRY STANDARD DATA SHEET DEFINITIONS (ISDD) (Version Managed)

API

ASME

ISA

PIP

BUILD Process

XML CCOM

CCOM

CCOM

Standard Mappings

15926 RDL2   CFIHOS   ECCMA EOTD

INDUSTRY REFERENCE DATA LIBRARIES

Version Managed ISDDs

XML CCOM

Owner/ Operators

Map Elements

Map Elements   EPCs

Map Elements   Capital Equipment Suppliers

MIMOSA™

Fiatech™

ISDD RDL Mapping Status

- Developed a workflow/pipeline to increase automation

Key Steps for Collaboration
4) User creates mapping to Reference Data Library
5) Publish core ISDD to CCOM
8) Export to Excel, e.g., for collaboration on custom mappings

ISDD Mapping Deliverables

- Core ISDD Information
  - ✓ Finalized script for import into Common Interoperability Registry (CIR)
  - ✓ Published ISDDs on Mimosa Website
- ISO 15926/RDL 2 Mappings
  - ✓ Published draft mapping in Excel sheet
  - ✓ Agreed on mapping process with core Fiatech IIMM team

JWG Next Steps

- Group Discussion