



# Working Group Meeting

Strategic Topics - February 24, 2015

# Meeting Objectives

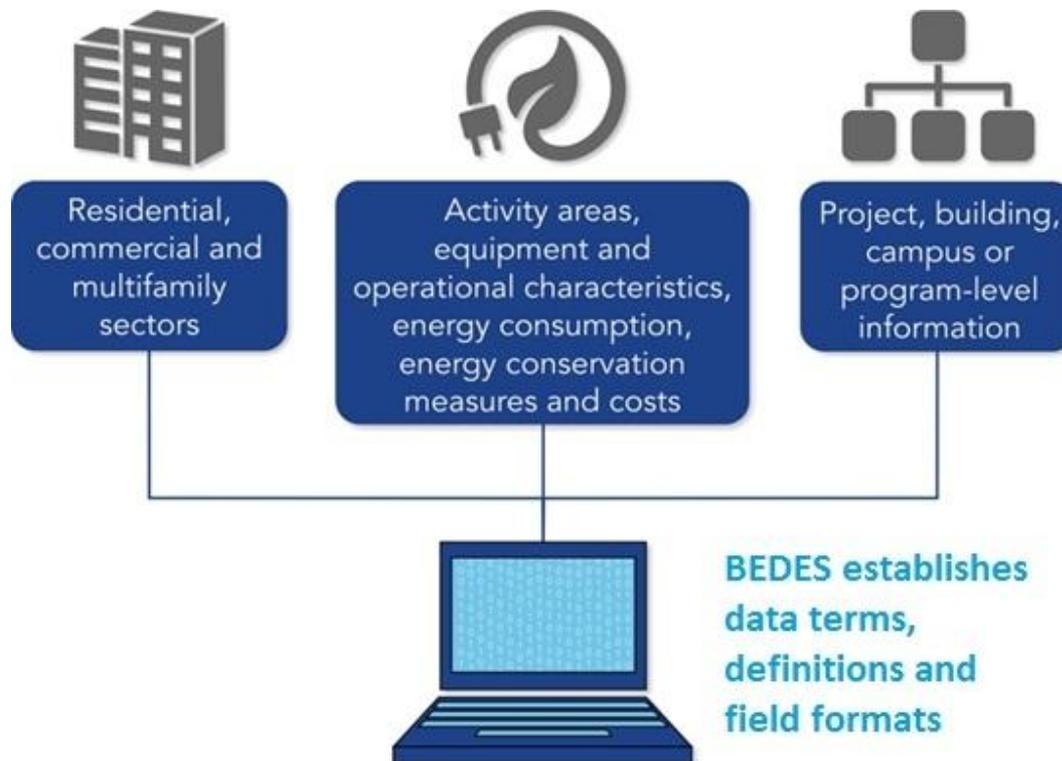
1. Apprise stakeholders of current status of development and adoption.
2. Obtain input on BEDES compliance paths and what it means to be a BEDES-compliant product.
3. Obtain input on increasing adoption - likely barriers and how to overcome them.
4. Obtain input on proposed changes for V1.1, including new areas! (*day 2*)

# Agenda - Day 1

1. BEDES development - brief review
  - History and current status
2. BEDES compliance paths and what it means to be a BEDES-compliant product
  - Current compliance approach
  - Discussion
3. BEDES adoption
  - Current efforts underway or planned
  - Brainstorm ideas to increase adoption
  - Searchable tool for BEDES dictionary

# What is BEDES?

BEDES provides a common set of data terms, definitions and field formats that can be used by public and private software tools, data schemas and databases working within the building energy performance sector.



# BEDES Use Cases - Initial

## **ENERGY EFFICIENCY INVESTMENT DECISION-MAKING**

Owners and managers use building energy performance information to assess capital and operational opportunities in individual buildings, develop energy strategies across portfolios, and identify trends in local real estate markets.

## **BUILDING PERFORMANCE TRACKING**

The implementation of disclosure policies for public or private buildings requires public officials to collect, clean and analyze massive amounts of data, then share portions of it with the public.

## **EFFICIENCY PROGRAM IMPLEMENTATION EVALUATION**

Energy efficiency programs often provide incentives or technical assistance to support owners' data collection and analysis activities. They also use data to conduct program design and outreach, track project performance, and evaluate programs.

# BEDES Background

Originally developed to improve interoperability of DOE's software tools and data collection efforts

DOE scoping study confirmed that BEDES would be useful to stakeholders outside DOE

Lawrence Berkeley National Lab led a technical working group process to develop BEDES Beta

After 9 months of extensive review and feedback, BEDES 1.0 was released in October 2014

# Current work

- Encourage Adoption

- Support 6-8 key early adopters by helping them to develop BEDES-compliant mappings and schemas.
- Provide technical support to more adopters as budget allows.
- Publish BEDES compliant products.

**Any questions on background or current work?**

- Evolve BEDES

- Publish two major updates to BEDES (Spring and Fall of 2015) with the support of BEDES WG
- Ongoing error catching and fixing.

**Have you tried to use BEDES? Or aware of others who have?**

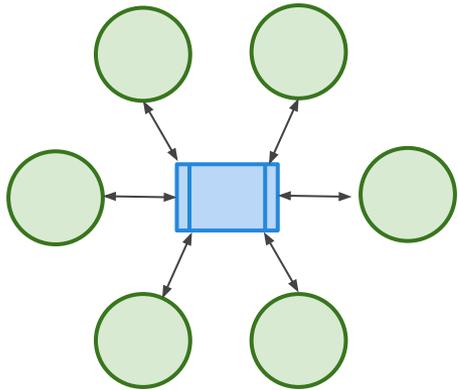
- Better Resources

- A new website with searchable Dictionary.

**What does it mean to be a BEDES  
compliant product?**

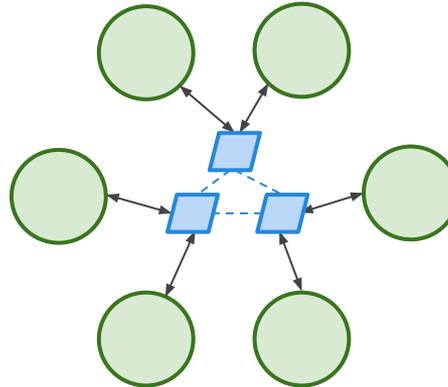
# Think big, start small, act now...

Perfect world...



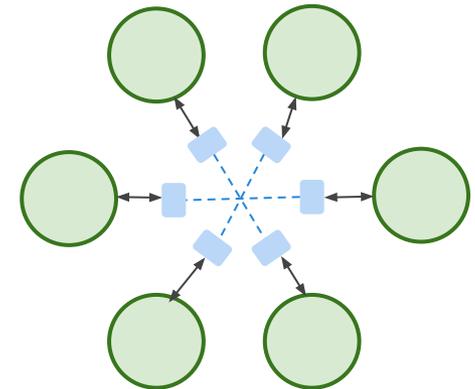
*A single universal exchange schema*

Almost perfect world...



*A set of standard exchange schemas for different use cases*

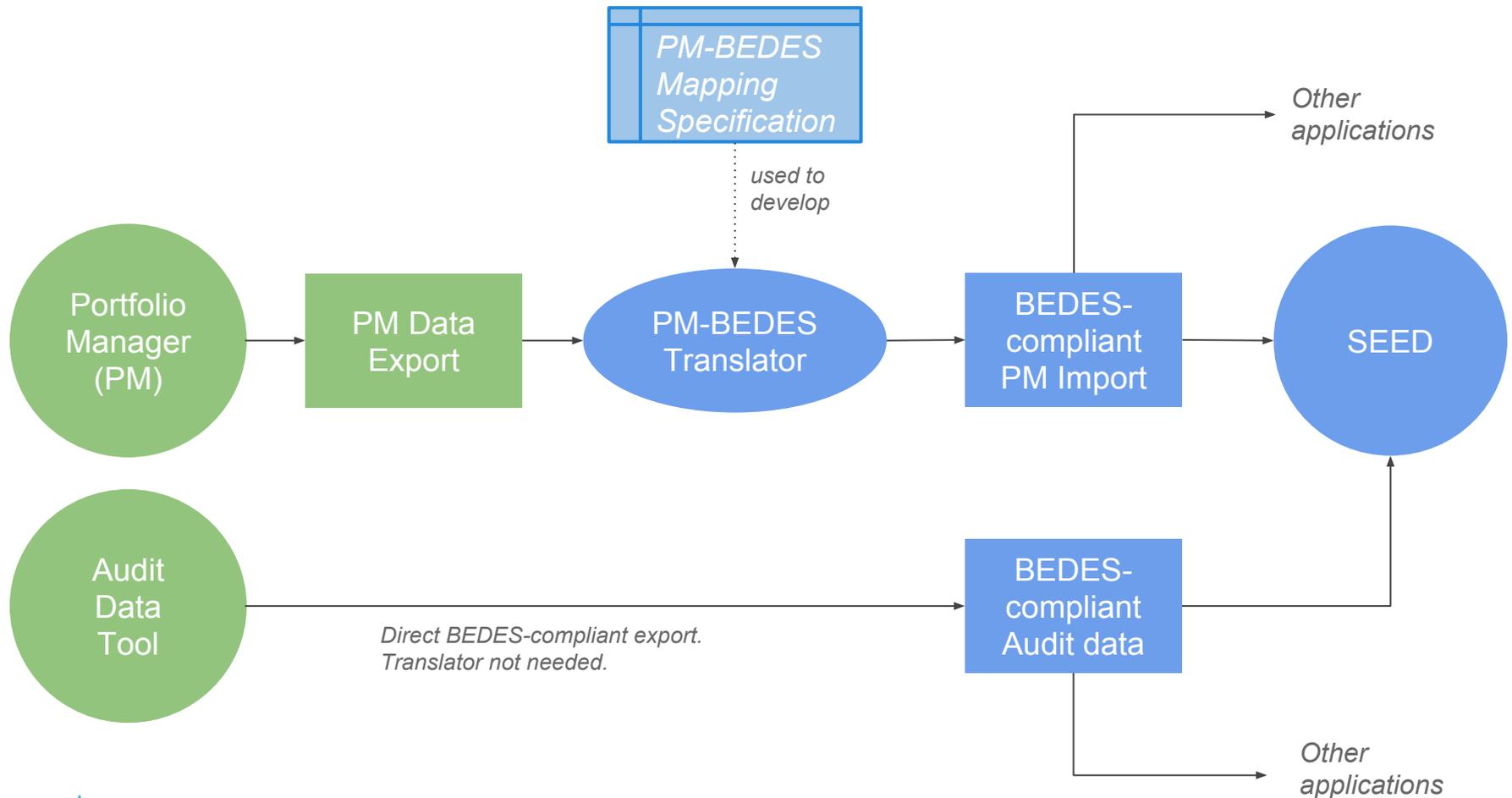
Somewhat less perfect world....



*Standard terms and definitions*

utopia ←————→ reality

# Using BEDES



# Initial compliance approach

Criteria	Mapping Compliance	Exchange Compliance
Product	Document showing mapping to BEDES terms	Schema with BEDES terms
Applicability	Software tools, schemas, databases, data forms, etc.	Schemas
Map to BEDES terms	Yes	Yes
BEDES team approves mapping	Yes	Yes
BEDES team approves schema	Not Applicable	Yes
Public publishing on BEDES website	Yes	Yes
Right to use “BEDES” in product marketing	Yes	Yes
Examples	Mapping of CEUS, CBECS, Portfolio Manager	BuildingSync, HPXML GreenButton

**Is this compliance approach reasonable?**

**Is there value in mapping compliance?**

# BEDES Adoption

# BEDES Adoption - Current Efforts

Product	BEDES compliance status
Building Energy Asset Score (Asset Score)	Planned
Building Performance Database (BPD)	In place
BuildingSync	In place
ENERGY STAR Portfolio Manager	In development; Draft mapping completed.
eProject Builder	Planned
Green Button	Planned
Home Performance XML (HPXML)	Planned
Real Estate Standards Organization (RESO)	Planned
Real Estate Transaction Standard (RETS)	Planned
Standard Data Dictionary (SDD)	In development
Standard Energy Efficiency Data Platform (SEED)	In place

# Ideas to increase BEDES adoption

- More outreach? To whom?
- Technical support for developing mappings or implementing BEDES?
- What are main near-term barriers we need to address?
- Other?

# BEDES searchable website

Search for BEDES terms and definitions by:

- Keywords in terms, definitions
- Sources used for terms & definitions
- Applications/use cases
  - e.g. Portfolio Manager, audit use case
- Area
  - e.g. windows, controls, HVAC

**What other resources  
would be helpful to ease  
adoption and use of  
BEDES?**

**How would you want to  
search for BEDES terms  
and definitions?**

# Stay Involved!

- Share your thoughts on the Forum
- Tell us how you're using BEDES
- Develop BEDES-compliant products - we can help!
- Develop terms & definitions for new areas
- Become an Endorser
- Spread the word!

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