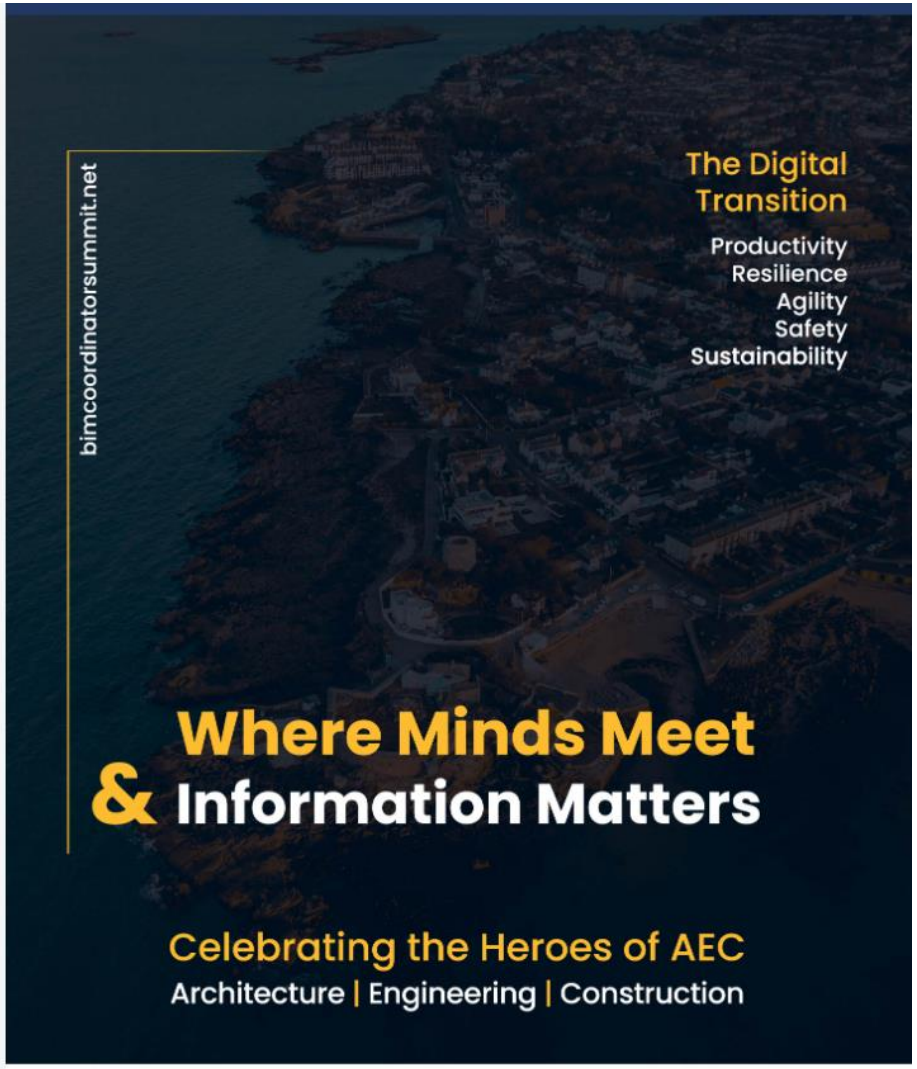

Roadmap for Next Generation Infrastructure

K. Dixon Wright
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The "I" in BIM

The biggest challenge for BIM is getting the “I” – Information – to be interoperable with all the stakeholders without the barrier of multiple siloed data standards.

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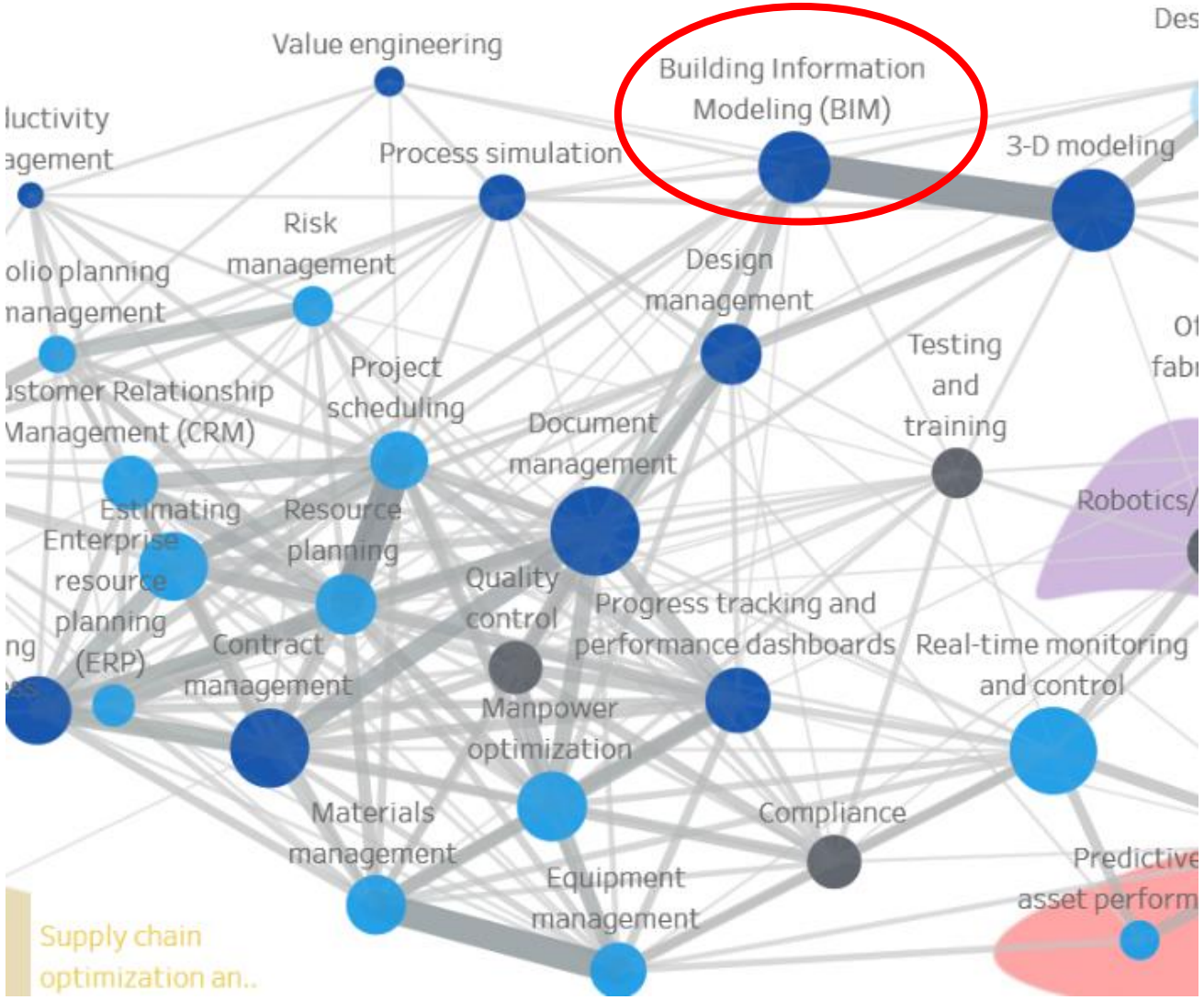
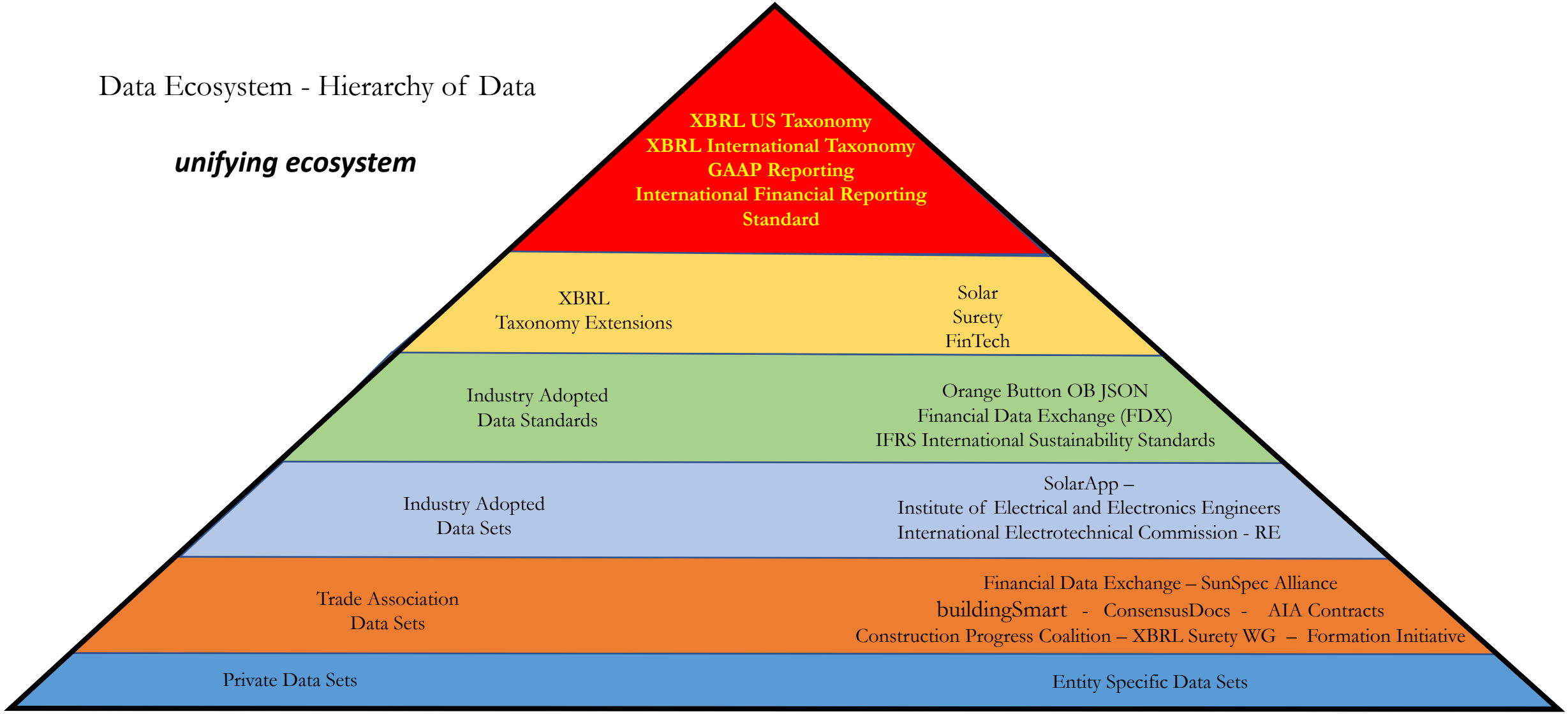


McKinsey & Company
September 5, 2018

[Seizing opportunity in today's construction technology ecosystem]

Data Ecosystem - Hierarchy of Data

unifying ecosystem



Source of Data Standard

Examples of Data Sets

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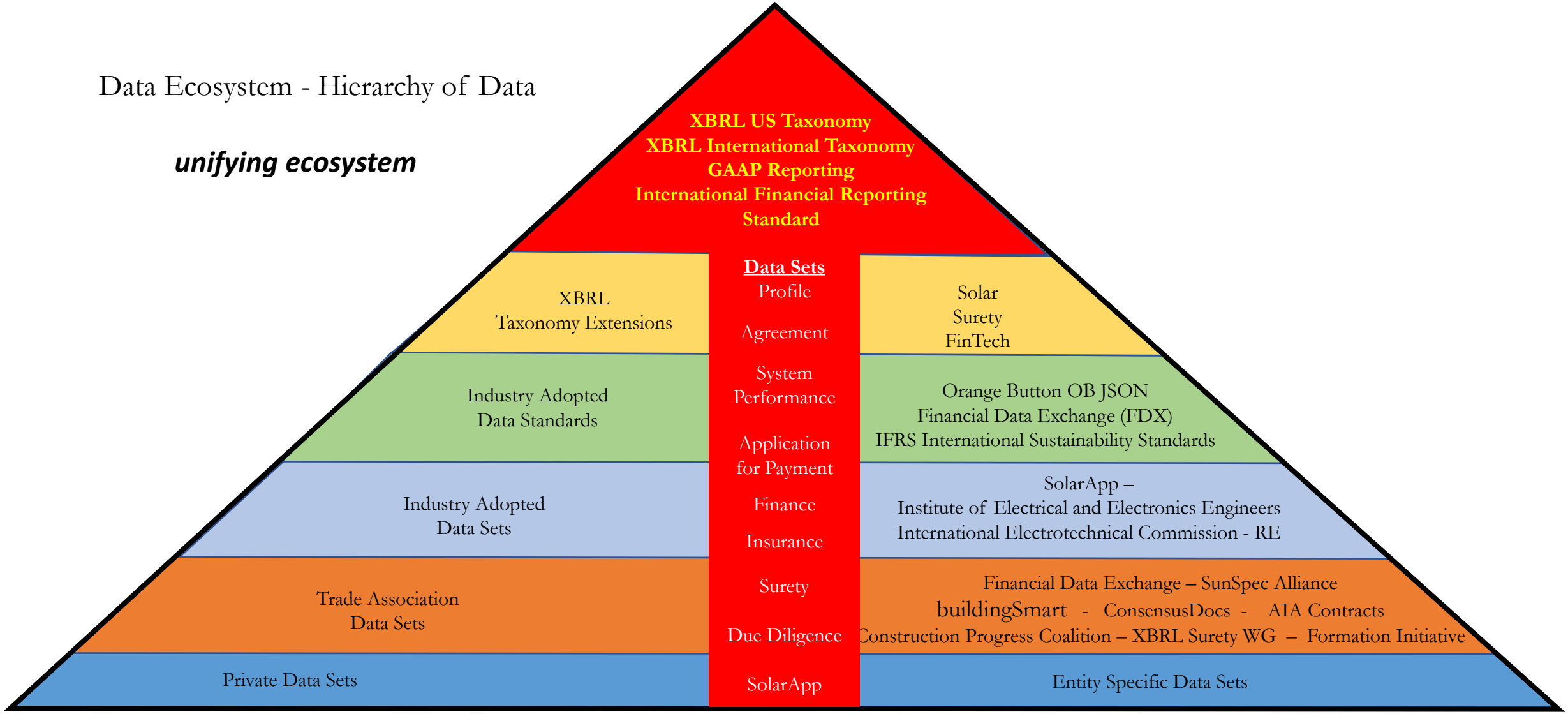

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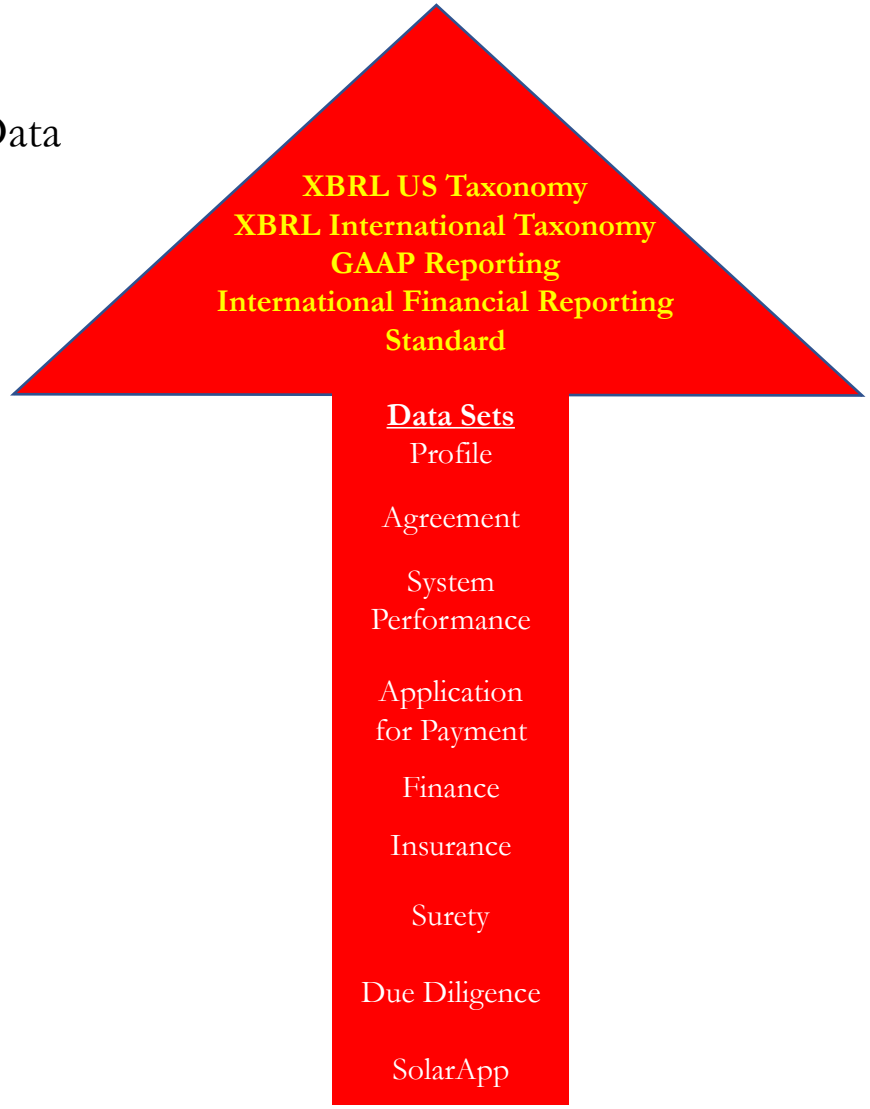


Source of Data Standard

Examples of Data Sets

What to expect during the event

- How the United States is driving open data standards with eXtended Business Reporting Language (XBRL) synergized with the International Financial Reporting Standard (IFRS). Enabling data interoperability across all borders and languages for establishing an International Data Ecosystem Architecture (IDEA).
- How the Orange Button is reducing project costs.
- How the private sector is implementing digital ecosystems for monitoring and improving risk management on a large portfolio of EV Charging Stations, multi-state underground energy transmission tunnels and surety backed energy loans.
- Learn how to recommend to public and private construction platform administrators how they can enable stakeholders to retrieve the digital “Key Performance Indicators” (KPI) data elements utilizing the IDEA for the benefit of project stakeholders.
- How to utilize the IDEA for your projects.

How the United States is driving open data standards with eXtended Business Reporting Language (XBRL) synergized with the International Financial Reporting Standard (IFRS). Enabling data interoperability across all borders and languages for establishing an International Data Ecosystem Architecture (IDEA).

Examples: The DOE Orange Button and DOT Accelerating Advanced Digital Construction Management Systems Program

Orange Button supports the creation and adoption of industry-led open data standards for rapid and seamless data exchange across the solar value chain from origination to decommissioning.

U.S. DEPARTMENT OF ENERGY

ORANGE BUTTON INITIATIVE

The Bipartisan Infrastructure Law highlights the potential of accelerating advanced digital construction management systems to improve how transit agencies deliver capital construction projects by providing a digital platform that tracks all phases of the construction lifecycle.

Federal Transit Administration

How the Orange Button is reducing project costs.

There are 43,096 agencies (Authority Having Jurisdiction - AHJ) that issue permits for solar projects, each with their own legacy system for administering the permit process. Each with similar data requirements, but each slightly different enough so stakeholders had to work with multiple data requirements that had to be individually administered for each AHJ.

SolarApp to provides a single standardized permitting data set for all 43,096.

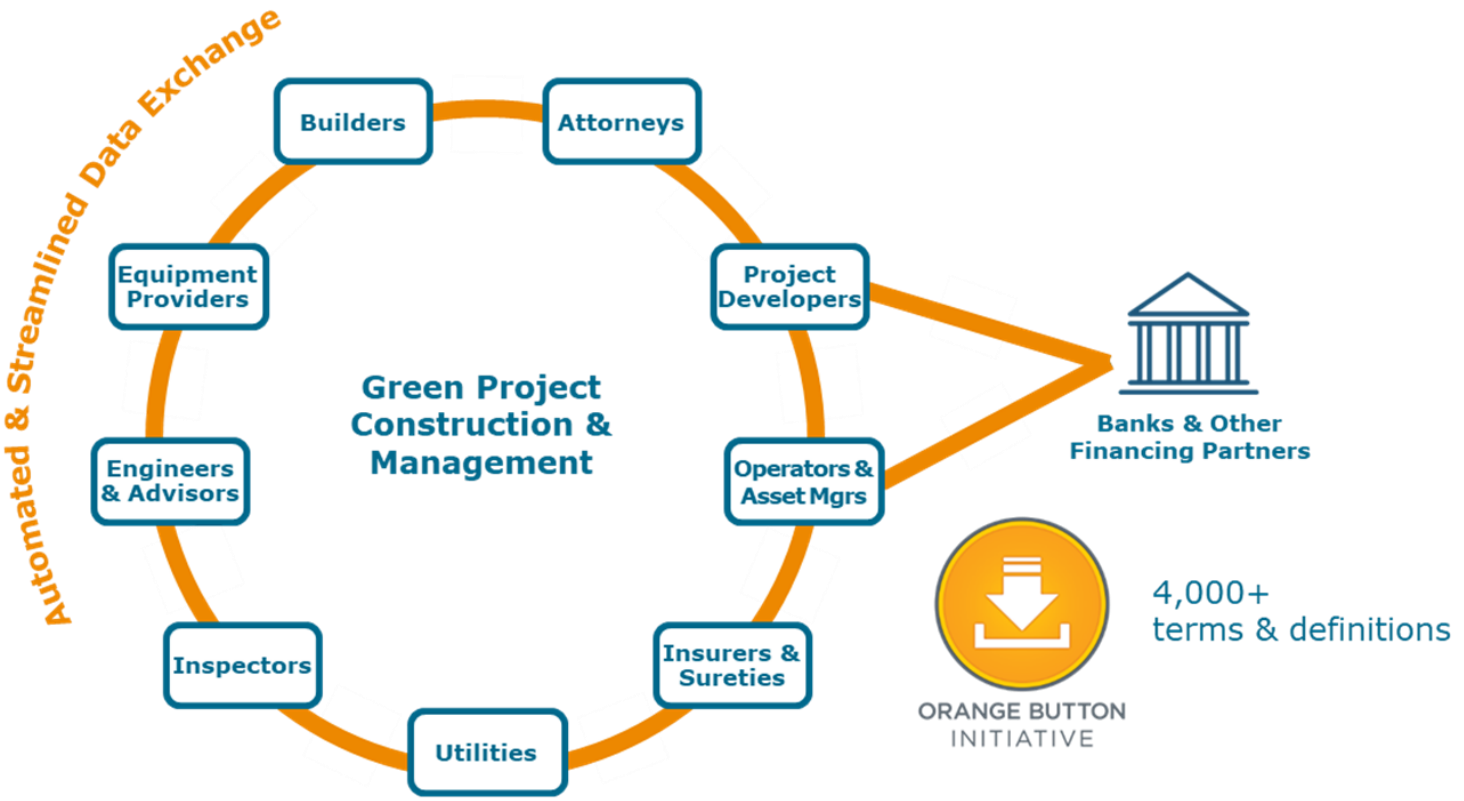
Launched in 2021, SolarAPP+ now serves (as of 2023) more than 62 communities across the nation, with more than 22,000 permits issued, 127,000 kilowatts approved, and 22,000 estimated hours saved in review time.

That single data set can now be used to secure financing, insurance and surety.

Roadmap for Next Generation Infrastructure

September 12, 2024

How the private sector is implementing digital ecosystems for monitoring and improving risk management on a large portfolio of EV Charging Stations, multi-state underground energy transmission tunnels and surety backed energy loans.



Data Sets

Profile

Agreement

System Performance

Application for Payment

Finance

Insurance

Surety

Due Diligence

SolarApp

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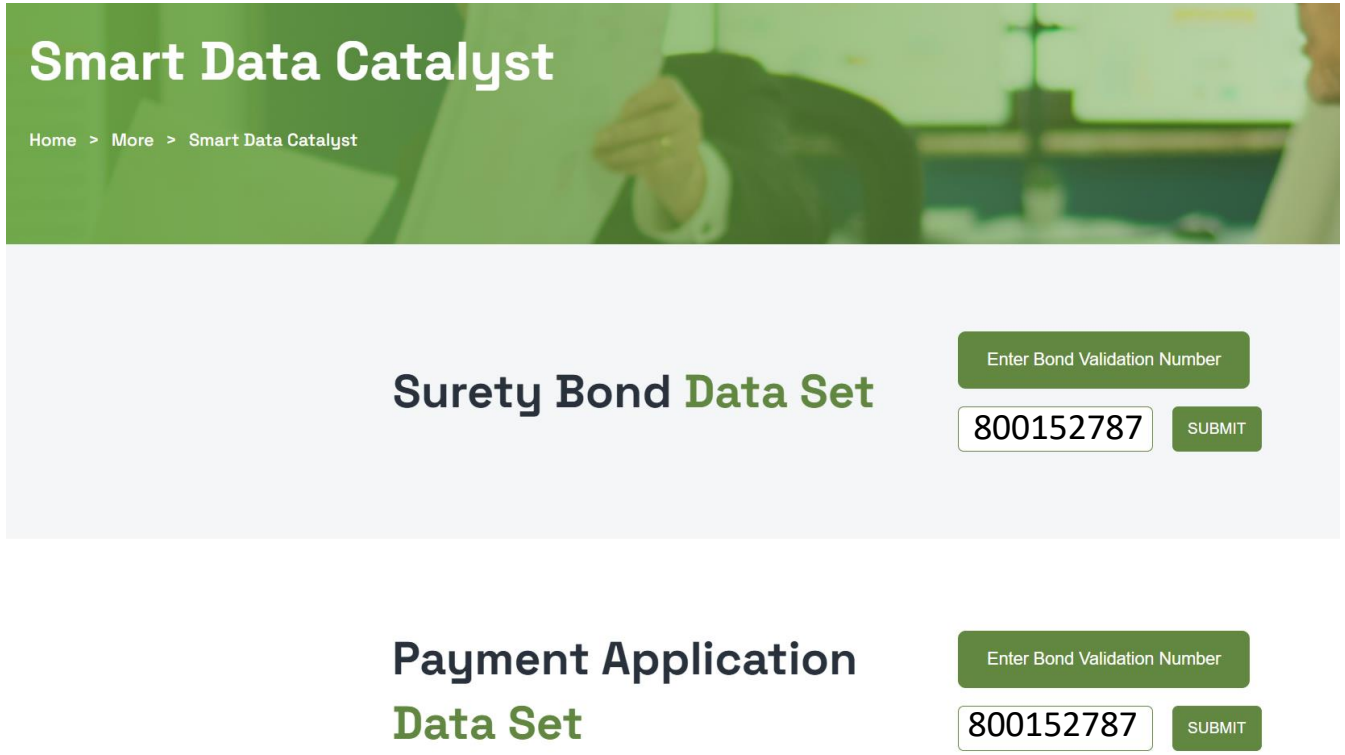


Data Sets

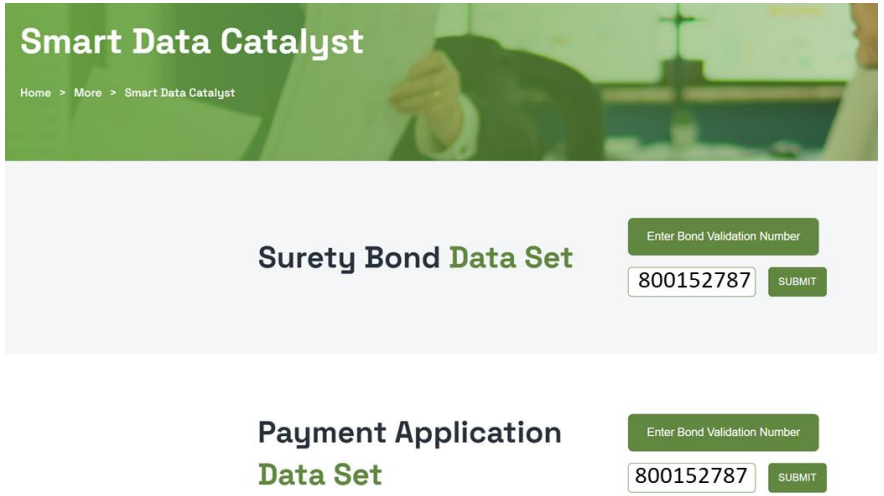
Application for Payment

Surety

www.src-digital-insurance-services.com/sbrm

Learn how to recommend to public and private construction platform administrators how they can enable stakeholders to retrieve the digital "Key Performance Indicators" (KPI) data elements utilizing the IDEA for the benefit of project stakeholders.

Example:
The Advanced Digital Construction Management Systems (ADCMS) Program solicits proposals from organizations interested in accelerating the use of advanced digital management systems in the transit industry to improve the delivery of transit infrastructure projects.



When stakeholders can easily monitor projects they are involved with they can improve administration and their risk management.

Reduction of risk is a major factor in reducing project cost

When capital markets can monitor projects small and local businesses will have improved access to financial products and services, including finance, insurance and surety.

Having data standardized and consistent will unleash innovation and AI.

How to utilize the IDEA for your projects.

Everyone
- Determine which specific data sets are reliant to your needs and where they are in the systems you use.
- Determine how to export or import those data sets.

Planning, Permitting and Procurement
- Provide project the key data set as a downable file in XBRL

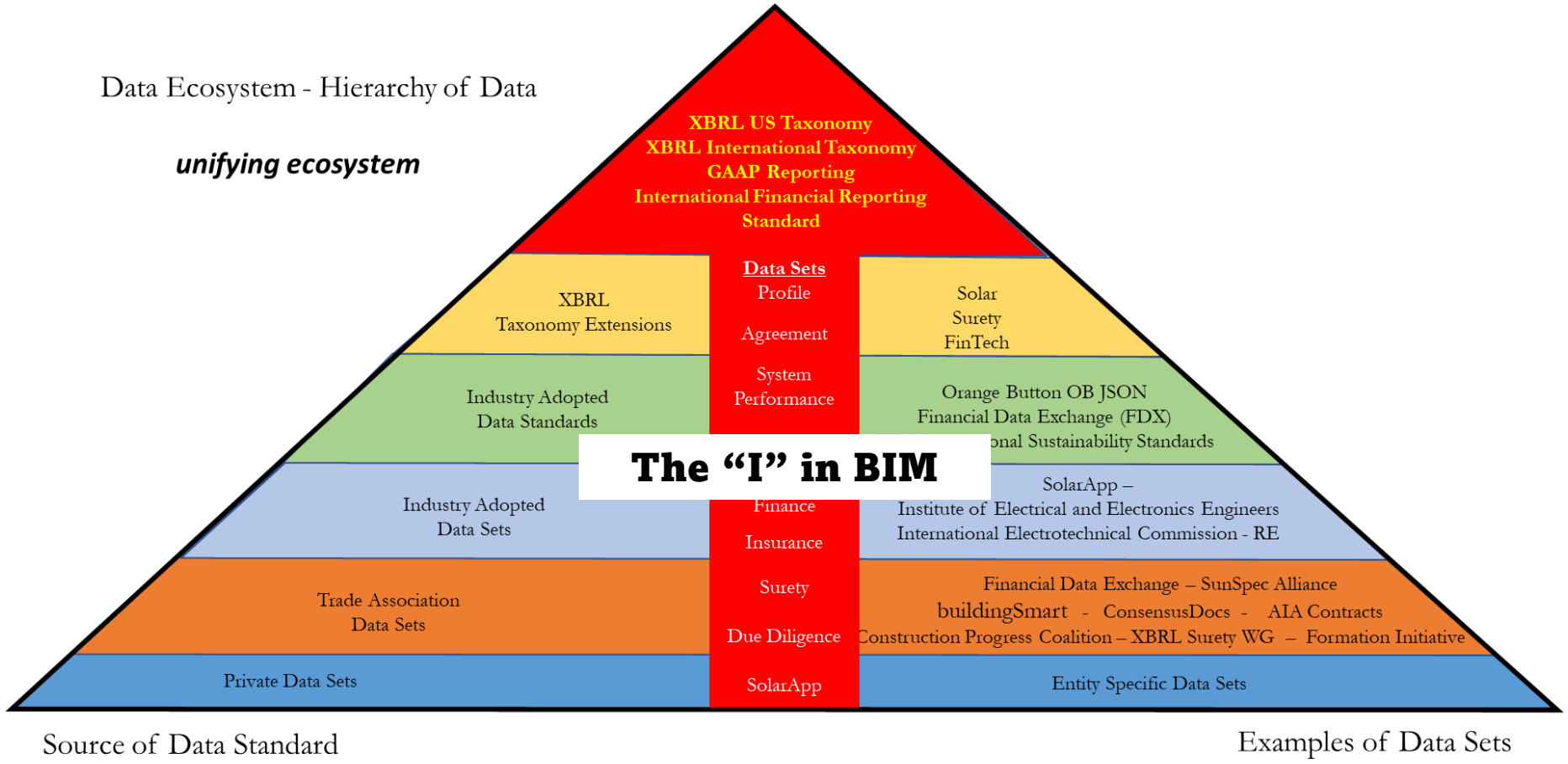
Public Agency – Project Owner - Prime Contractor
- Enable your project management platform to import/export specific data sets in XBRL
- Require prime or subcontractors to submit insurance and surety documents digitally in XBRL
- Require prime or subcontractors to submit application for payment in XBRL
- Provide access to applications for payment and surety documents to project stakeholders

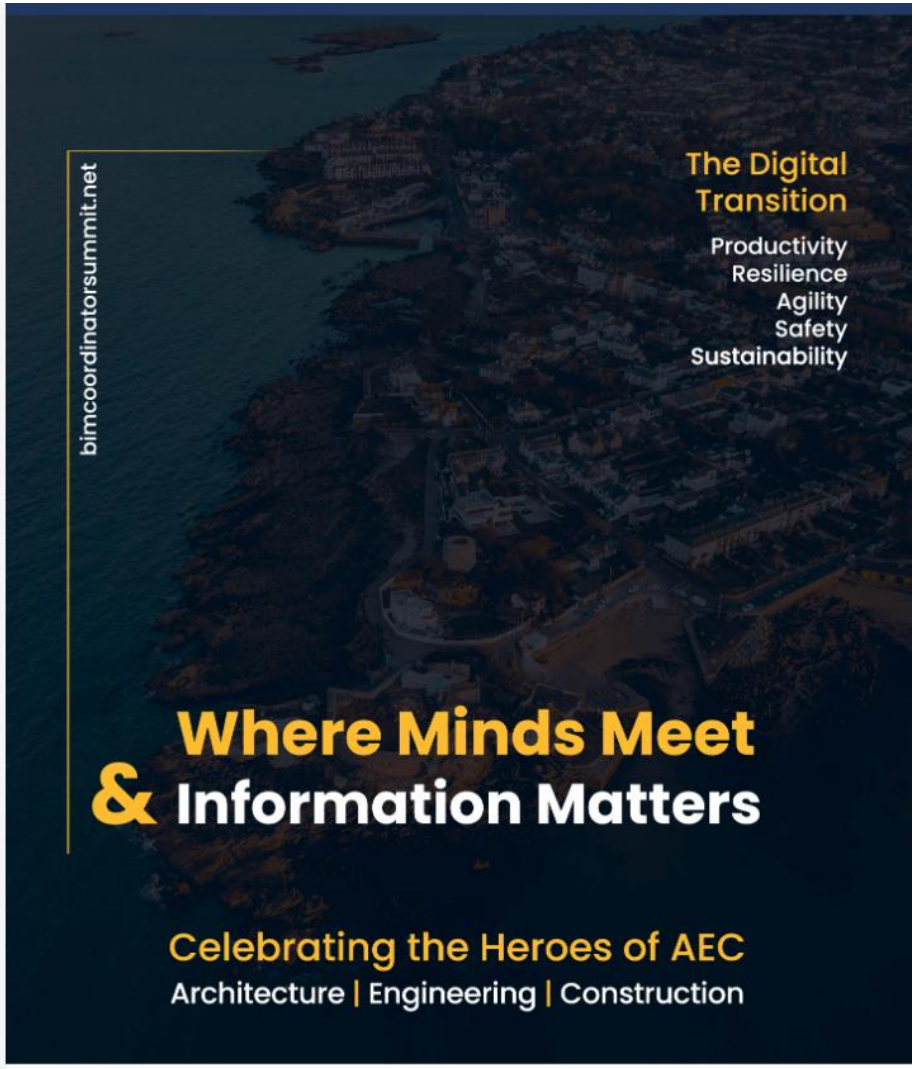
Digital Construction Management Systems
- Enable the platform to import/export specific data sets in XBRL

Vendors, suppliers and project stakeholders
- Have your project administration system import/export specific data sets in XBRL

AI developers
- Imagine what standardized and consistent data can enable for AI analytics

The biggest challenge for BIM is getting the "I" – Information – to be interoperable with all the stakeholders without the barrier of multiple siloed data standards.





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Thank you