

THE BANFF PROTOCOL

for Emissions Reporting

Responsible, harmonized, investment grade
emissions reporting for the planet.



EXECUTIVE SUMMARY

The PPDM™ Association is the global not-for-profit professional society that provides leadership, best practices for data, and competency development for data professionals.

THE NEED

The cost of climate related disclosure is massive, but the diversity of regulatory, corporate and social expectations make process optimization almost impossible. Only by working together can we put processes in place that benefit everyone.

THE CHALLENGE

The content, context, meaning and derivation of data must be transparent and trusted at all levels, from corporate head office to advanced technical systems. In a world of diverse regulatory, industry and social expectations this is almost impossible to achieve, but the need is clear: **To become more emissions efficient, we must become more data efficient!**

THE OPPORTUNITIES

Optimize emissions reporting and clarity for greater efficiency.

Business optimization resource library to support those who work with emissions data.

Human resource development to build and supplement data literacy and competency.

Data preparedness to support data governance, stewardship and management.

Technology support to ensure that emissions reports from various sources and methods of calculations can be reliably integrated or harmonized.

THE ASK

The overall project cost, spread over two years, is estimated at about \$4.5 M USD. A shared investment (\$250,000) will yield practical deliverables is expected to help offset the cost of participation in one year.

Participate in the project.

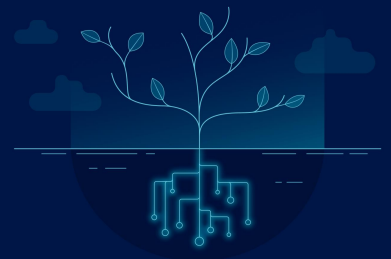
THE BENEFIT

Ensure your influence is felt, and product deliverables have value to you.

Global exposure about the commitment to “Green Data” that is meaningful.

Access to deliverables early, enabling early adoption.

OUR VISION



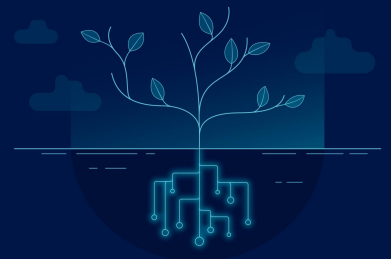
In a landmark statement at COP28, President Sultan Al Jabar stated that the world is committed to *“transitioning away from fossil fuels in energy systems, in a just, orderly and equitable manner”*, a need that underscores the critical necessity of a common global language for emissions systems and quantifications. COP 28 was the launch point for the Oil and Gas Decarbonization Charter commitment to net zero by 2050, currently signed by 50 oil & gas companies representing more than 40% of global production. A key point of charter agreement states that *“Increasing transparency, including enhancing measurement, monitoring, reporting and independent verification of greenhouse gas emissions and their performance and progress in reducing emissions*.”*

PPDM’s Banff Protocol for Emissions Reporting recognizes that investment grade data that is trusted, integrated and useful is a critical strategic asset for everyone. This is particularly true of emissions data, because only data will inform investors, regulators, industry and citizens about how well Greenhouse Gas reduction programs are working.

The **Banff Protocol for Emissions Reporting** will serve as a shared, trusted resource for the development of competencies and industrial capability critical to trusted emissions reporting.

Through open, publicly available resources, the **Banff Protocol for Emissions Reporting** will create value by leading the way to more consistent, responsible, and transparent data in the global energy economy.

OUR CHALLENGE



*"...on average corporate issuers are spending **\$533,000** annually on climate-related disclosure, while institutional investors are spending an average of **\$1,372,000** annually to collect, analyze, and report climate data to inform their investment decisions" (ERM Sustainability Institute).*

Effective, trusted, consistent emissions data is the critical path to success in our rapidly changing economy. Accurate, standardized emissions quantification is needed to substantiate the benefits of major new commitments made at COP28, including the UAE's US \$30 billion in pledged climate finance and the World Bank's commitment to increase sustainable financing \$9 billion to 45% of its total lending (Reuters).

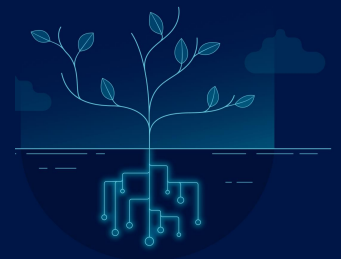
To achieve this, the content, context, meaning and derivation of data must be transparent and understandable at all levels, from citizens to advanced technical systems.

In a recent study, the ERM Foundation revealed the concerning cost of climate-related disclosure. The need is clear.

To become more emissions efficient, we must become more data efficient!

Investors ... need data they can trust. They need data reflecting companies' real ESG performance, not just their intentions or commitments. They need data they can audit, data they can verify and data that demonstrate clear results that they can show their customers. In short, they need "investment-grade" data they can believe in." (Forbes).

A COMMON GLOBAL LANGUAGE FOR EMISSIONS DATA



Meeting and exceeding the ambitious climate goals of COP28 means that diverse technologies, systems, and jurisdictions need to effectively communicate and share complex data on emissions and reductions.

WHO WE ARE

PPDM is leading a multi-disciplinary coalition of industry, government, and other partners who work collectively to develop best practices, competency-based programs and key resources for the benefit of all.

DRIVING FACTORS

The way emissions data is represented and described is not standardized and varies widely between governments, sectors, and companies. Translating this data results in high costs, frequent errors, and barriers to digital technology adoption and effective collaboration on emissions reductions.

2024 STRATEGY

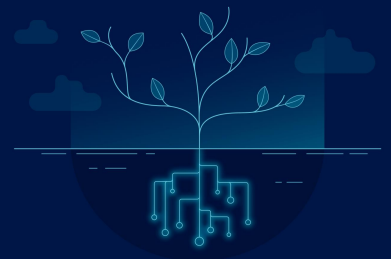
The next year is a critical turning point for keeping the Paris Agreement's 1.5C target within reach. PPDM and partners are moving quickly to address barriers to emissions data trust, affordability, digitalization, and interoperability.

Data collection and reporting has started already, but its full potential may remain unrealized unless a common, global language and best practices for creating, curating and reporting are adopted. Read on to discover more.

HOW TO PARTICIPATE

- ✓ Support the program financially
- ✓ Contribute Committee participants

WHY DATA?



Too much diversity in expectations about data creates confusion and results in data dissonance.

A host of diverse, often overlapping or conflicting regulations and emissions standards initiatives have emerged to support reporting transparency, each developed to support a specific spectrum of economic, environmental, social, jurisdictional, or technical needs.

CONSUMER
MISUNDERSTANDING

Errors or incorrect interpretation of emissions data result from too much diversity, particularly as data democratization brings data to the fingertips those not yet equipped to fully understand it.

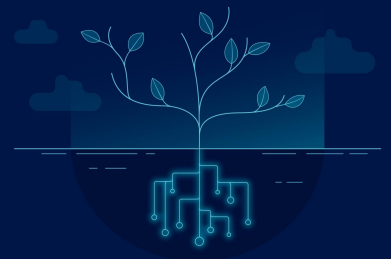
POOR DATA
HARMONIZATION

Confusion mounts as emissions standards and regulatory or financial reporting obligations proliferate without clear mechanisms for harmonizing data stores with the diverse, conflicting requirements these present.

INTEGRATION
CHALLENGES

Ensuring that data in all platforms for everyone can be aggregated to an accurate global representation of emissions requires planning and clear guidelines.

THE OPPORTUNITIES



EMISSIONS REPORTING OPTIMIZATION

To ensure that emissions reports from various sources and methods of calculations can be reliably integrated or harmonized for a true local or global reflection.

- ✓ Initial phases focus on Scope 1, 2 and 3 emissions as they relate to the energy industry. Other industries will be considered for context and future development.
- ✓ New and emerging emissions reporting (such as Scope 4) will be considered will be considered when feasible.

BUSINESS OPTIMIZATION RESOURCE LIBRARY

To support organizations and the people who report or use emissions data to reduce the risk of over or under reporting emissions, duplicate reporting or unclear allocations.

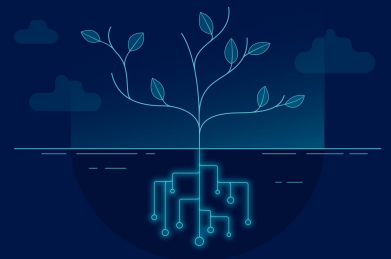
- ✓ Minimize complexity and overlap, support synchronization between companies and agencies to reduce challenges of sharing of data and processes.
- ✓ Support financial and equity relationships, including those of investors and indigenous equity partnerships to maximize the usefulness and usability of emissions data.

HUMAN RESOURCE DEVELOPMENT

To support emissions literacy for everyone and advanced opportunities to reskill or upskill human resources who create, publish, and use emissions data.

- ✓ Develop and promote Emissions Literacy and Competency
- ✓ Develop a Competency and Capability framework and learning materials to upskill or reskill data users.
- ✓ Develop relevant Certification or (micro)credentialing programs

THE OPPORTUNITIES



DATA PREPAREDNESS

To support the auditability, accountability, and defensibility of reported emissions data.

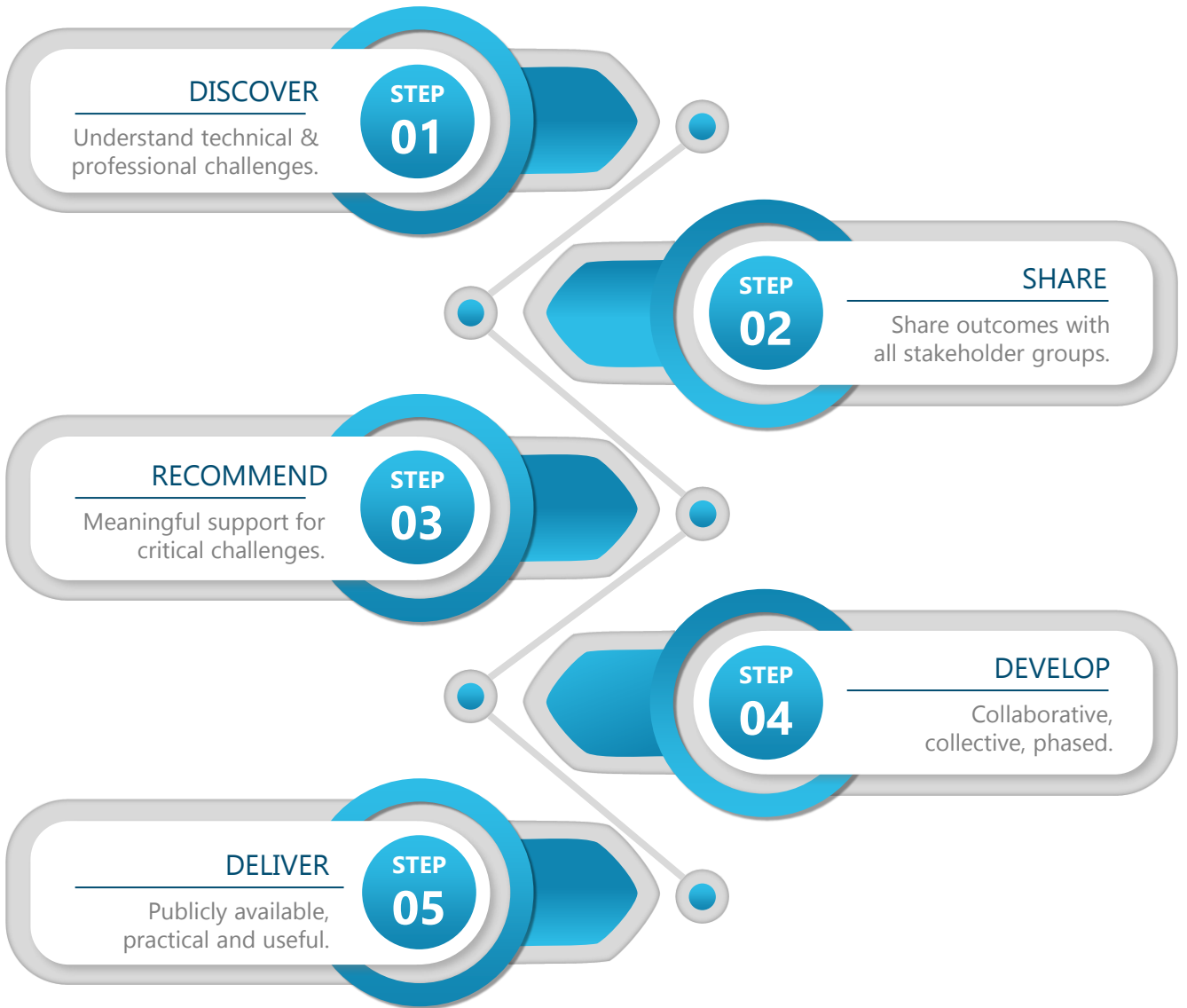
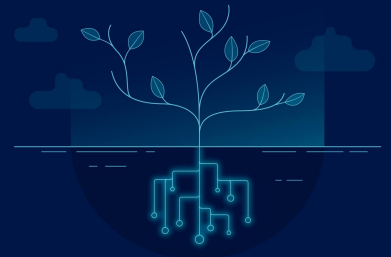
- ✓ Develop a Data Framework based on international emissions reporting standards that maps and clarifies how to manage overlapping data centric elements.
- ✓ Recommend Data Governance, Data Mastering and Data Management methods for auditable emissions data.
- ✓ Publish a publicly available Technology Neutral Resource Library.

TECHNOLOGY READINESS

To ensure that emissions reports from various sources and methods of calculations can be reliably integrated or harmonized for a true local or global reflection and analysis.

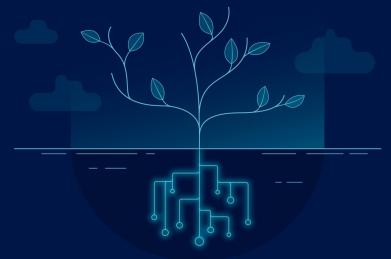
- ✓ Prepare protocol documentation and develop implementation data centric use cases based on today's technology tools.

OUR STRATEGY



The PPDM Association's powerful "PPDM Way" methodology delivers practical helpful results.

OUR WORK PLAN



Work Plan (by quarter)	1	2	3	4	5	6	7	8
Startup	█							
Investigate	█	█	█	█				
Finalize Project Plans			█	█				
Emissions Literacy			█	█	█	█	█	
Competency Framework			█	█	█			
Learning Programs					█	█	█	█
Data Framework			█	█	█	█		
Data Mapping			█	█	█	█	█	
Data Governance			█	█	█	█	█	
Technology Neutral Resources							█	█
Technology Use Cases							█	█

TIME FRAME

- ✓ With adequate resources, the project is intended to complete primary work in about two (2) years.

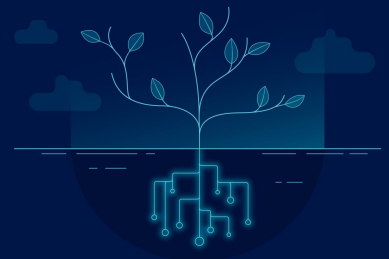
MAINTENANCE

- ✓ The plan does not accommodate maintenance and updating the Resource Library over time. This will be assessed as the scope, complexity and volatility of the deliverables are determined.

METHODOLOGY

- ✓ PPDM Projects leverage the proven track record of its core methodology “the PPDM Way”.

OUR BUDGET



Total	\$	4,505,000
Fund raising and awareness	\$	300,000
Administration and Management	\$	400,000
Office resources and space	\$	120,000
Communications (phone, mailing, internet)	\$	75,000
Equipment and SW Licenses	\$	75,000
Stakeholder Engagement and Promotion	\$	600,000
Materials Printing and Publications	\$	50,000
Legal	\$	65,000
Project management	\$	300,000
Meeting organization and hosting	\$	180,000
Business analysis	\$	400,000
Travel	\$	150,000
Learning development	\$	1,250,000
Learning Platform and Admin	\$	100,000
Graphic Design	\$	140,000
Web Development and site	\$	100,000
Sustainment and Evergreen Costs	\$	200,000

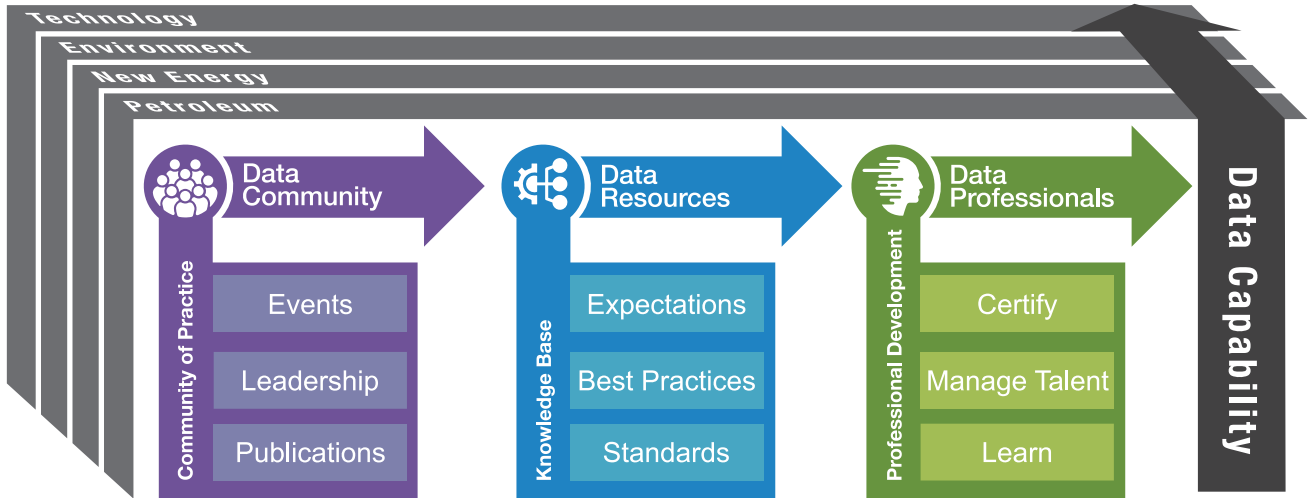
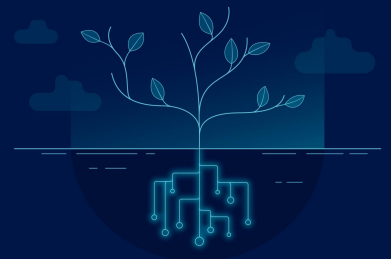
COST ESTIMATE CONDITIONS

- ✓ Cost estimates assume that the work will be managed and overseen by the PPDM Association – the Global Energy Data Professionals.

COLLABORATION WITH INDUSTRY

- ✓ Significant portions of the work will be completed collaboratively and collectively by industry volunteer experts.

ABOUT THE PPDM ASSOCIATION



The PPDM Association is the not for profit, global society that enables the development of data professionals, engages them in community, and endorses a collective body of knowledge for data capability across the energy and natural resources industry.

The PPDM Association supports the entire energy value chain (Petroleum, New Energy, Environment, and Technology).

We leverage the PPDM Way to expand our circle of influence and develop data standards, enable knowledge sharing, and provide professional development for data professionals and data consumers across the energy industry.