



Data Governance Post-COVID Assessment

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The **Pegasus Data Governance Post-COVID Assessment** provides a portrait of Brookfield's current data governance sophistications and delivers guidance for a path to achieve strategic data management capabilities and goals



Overview

- ▶ Brookfield Asset Management is an alternative asset management firm founded in 1899 with over \$500B in assets under management
- ▶ Purpose: to generate long-term value for clients and stakeholders through the form of risk-adjusted investments
- ▶ Vision: become a global leader in asset management through investments in long-life, high-quality assets and businesses that comprise the backbone of today's economy
- ▶ Over 150,000 employees
- ▶ Public company within the financial services industry
- ▶ Specialists: alternative assets (real estate, renewable power, infrastructure)



Why Data Governance is Required

Asset management companies require a structured data management framework provided by implementing data governance

- ▶ Having a framework mitigates risks in managing data within the organization
- ▶ COVID-19 -> massive surge of online data that requires management
- ▶ Better communication tools
- ▶ Digitization of services
- ▶ Information security

Brookfield's Four Core Values:



Resilience



Adaptability



Growth



Impact



Addressing Problems & Needs

Resilience

- Remote Employees (MDM, Security/Privacy)
- Transaction Data (Security/Privacy)
- Client Engagements (MDM)

Adaptability

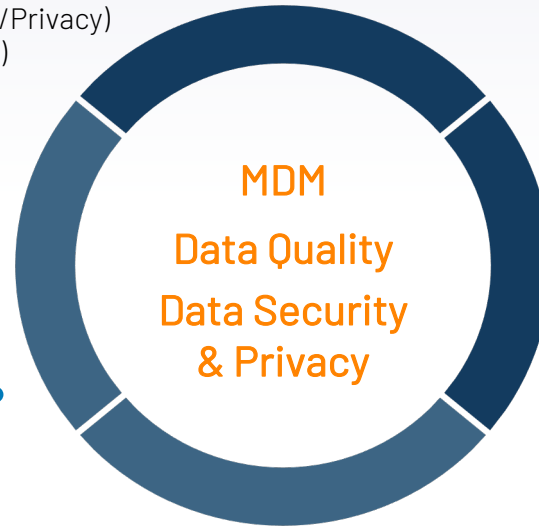
- Investment Strategy (Quality)
- Surge in demand for alternative data (Quality, Security/Privacy)

Growth

- Finding Opportunities (Quality)
- Data Consistency (Quality)
- Digital Transformation (MDM, Security/Privacy)

Impact

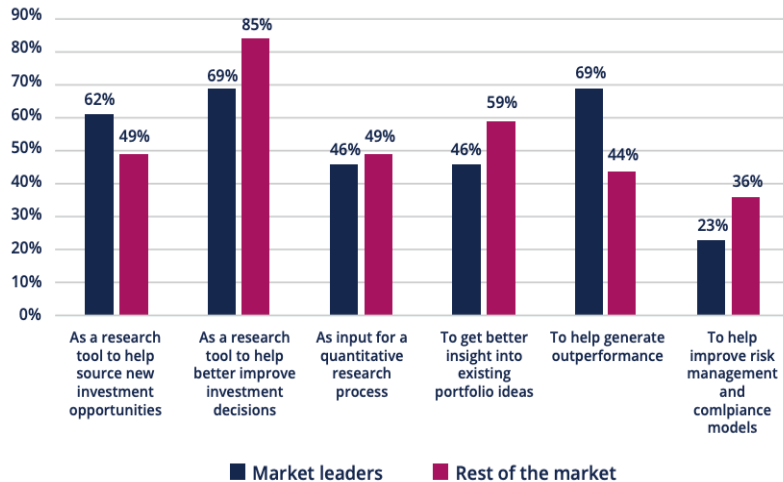
- Global Impact (Quality)
- Environmental, Social, and Governance (ESG) Practices (Quality)





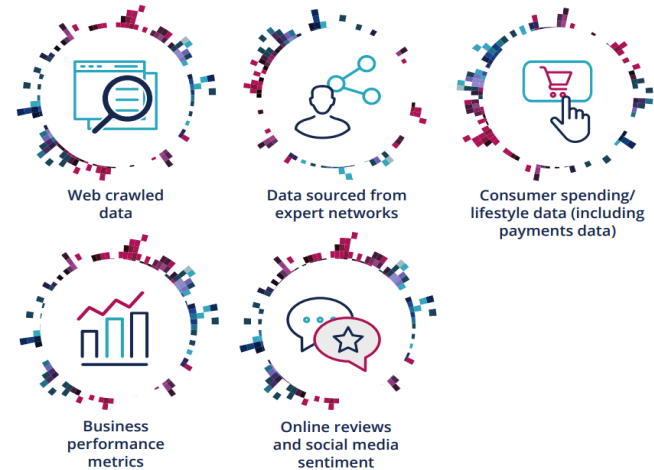
Adaptability

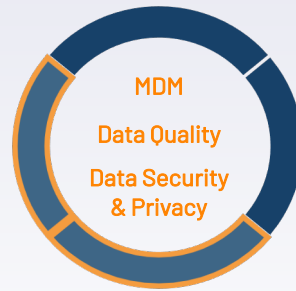
MAIN USES OF ALTERNATIVE DATA



TOP 5 ALTERNATIVE DATA SETS USED BY "MARKET LEADERS"

From left to right the most used alternative data sets





Growth

- Finding Opportunities (Quality)
- Data Consistency (Quality)
- Digital Transformation (MDM/Security/Privacy)

Impact

- Global Impact (Quality)
- Environmental, Social, and Governance (ESG) Practices (Quality)



Brookfield Asset Management

- ▶ 1000 financial professionals globally
- ▶ 150,000 operating employees
- ▶ 2,000 assets across 30 countries
- ▶ Large Scale Capital
- ▶ Operational Expertise
- ▶ Businesses in real estate, infrastructure, renewable energy, and private equity





Leadership Structure

Board of Directors

Four Standing
Committees:

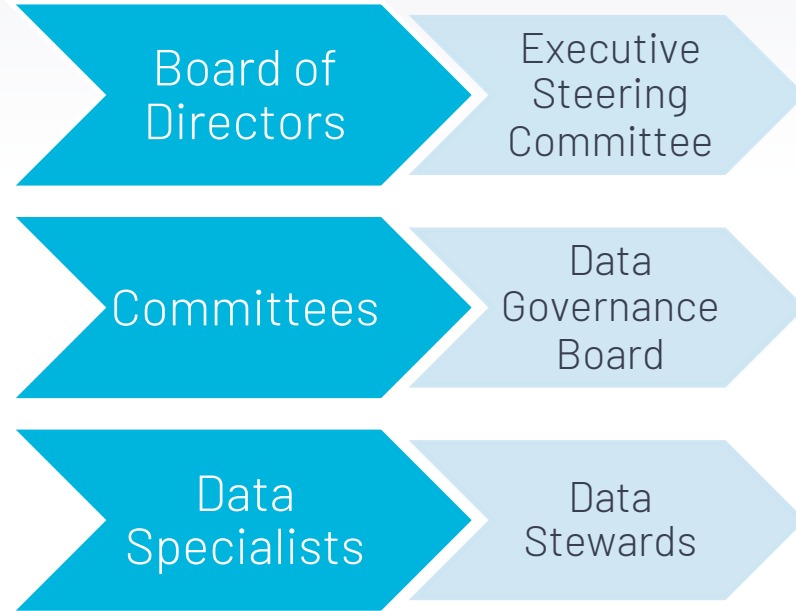
Audit

Management
Resources and
Compensation

Governance and
Nominating

Risk
Management

Data Governance Organization Proposal





Data Governance Challenges

- ▶ The varied and evolving nature of data protection **regulations** across geographies and countries.
- ▶ Data locality in multiple **geographies**.
- ▶ A **lack of centralized monitoring** for data privacy compliance and data governance.



Technology

- ▶ Data quality
- ▶ Data security
- ▶ Data privacy
- ▶ Master Data Management
- ▶ Meta Data Management



► Data Quality



- Proposed technology: Mysql

It is the most secure and reliable database management system (DBMS), have automatic input data validation and data integration feature.





Data Security

- ▶ Proposed technology: Oracle Database Firewall

Oracle Database Firewall is an active, real-time database firewall solution that provides white list, black-list and exception list policies, intelligent and accurate alerts, and monitoring with very low management and administrative costs.



Data Privacy

- ▶ Proposed technology: two-factor authentication

It is an authentication method in which the database access request is granted access only after successfully presenting two or more pieces of evidence to an authentication mechanism.



▶ Meta Data Management

- ▶ Proposed technology: IBM InfoSphere Metadata Workbench

The technology provided by IBM enable users to explore relationships between information assets and metadata repository





► Master Data Management

- Proposed technology: informatica

It offers a modular, comprehensive MDM solution designed for flexibility. A complete view of all interactions and all the relationships between data from different sources are available.

It also leverages the power of AI and machine learning to ensure customer can locate, access, and utilize data when needed.





Artifacts Post-COVID Assessment

- Build a consistent and institutionalized data governance approach across your enterprise.
- A common terminology.
- A shared understanding and vision among stakeholders.

- Business Glossary/Data Taxonomy.
- Assess the Business, Technical & Administrative Metadata.
- Master Data Management.
- Standards: DevOps, ITIL.
- Big Data Lifecycle

Data Governance Organizational Structure

Processes, Policies & Procedures

- Assess the policy lifecycle.
- Regulatory Compliance.
- Communication protocols & SLAs
- Process Documentation.

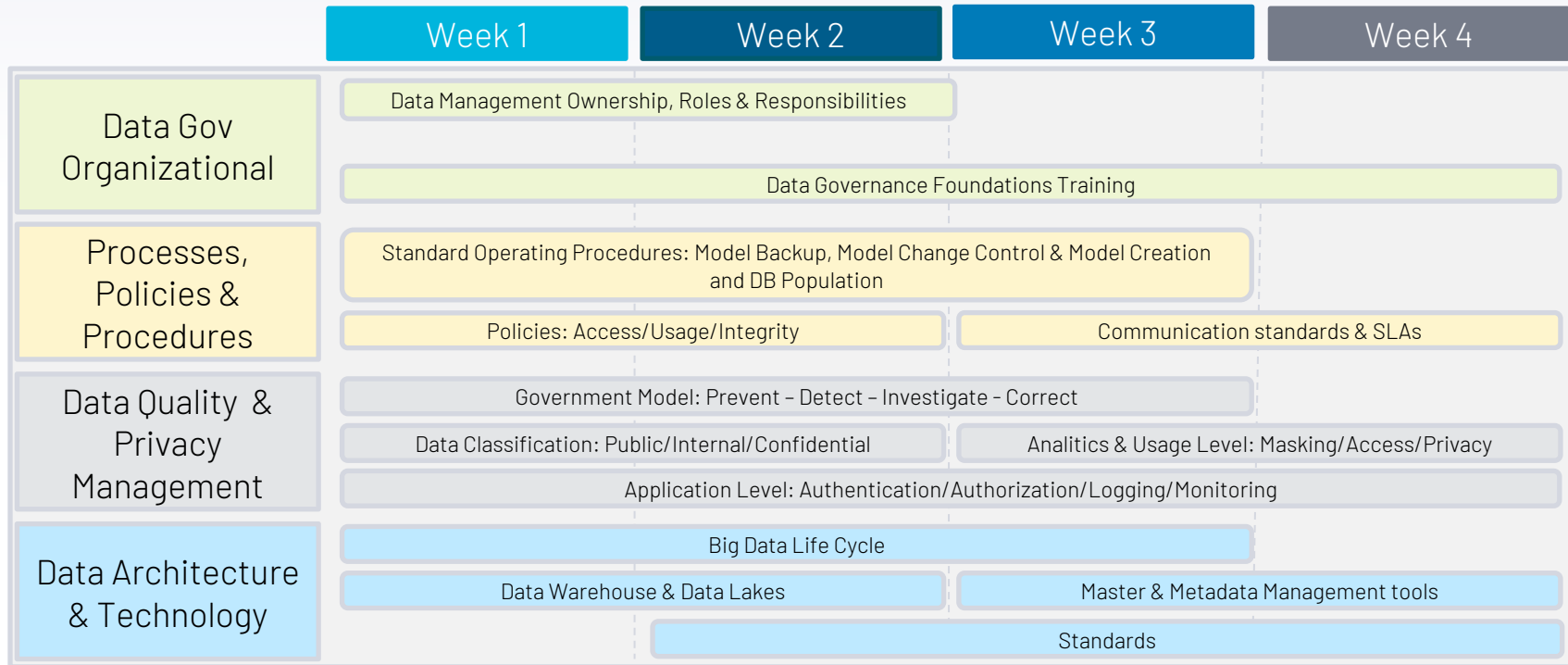
Data Architecture & Technology

Data Quality & Privacy Management

- Assure that the organization has appropriate access to trusted verifiable data.
- Measurement of data quality against strategies and goals based on business objectives for critical data elements.
- Access Protocols
- Monitoring Internal/External Threats
- Role based security



Roadmap Post-COVID Assessment (one-month version)





Key benefits

The Post-COVID assessment identifies the steps your company can take to accomplish the desired data governance goals, such as modifying, enhancing, or adding to Brookfield's existing data management ecosystem. Among the benefits we have:

- ▶ Data Governance Program Office, Roles, and Responsibilities, Measures and Metrics, Business Terms, and Policies.
- ▶ Understand the landscape to centralize and manage their key policies, procedures, and standards.
- ▶ Have a consistent and institutional data governance approach across the company.
- ▶ An evaluation of the current level of data quality and security.

THANK YOU

Any questions?

You can find us at:

- ▶ pegasusdt.com
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