



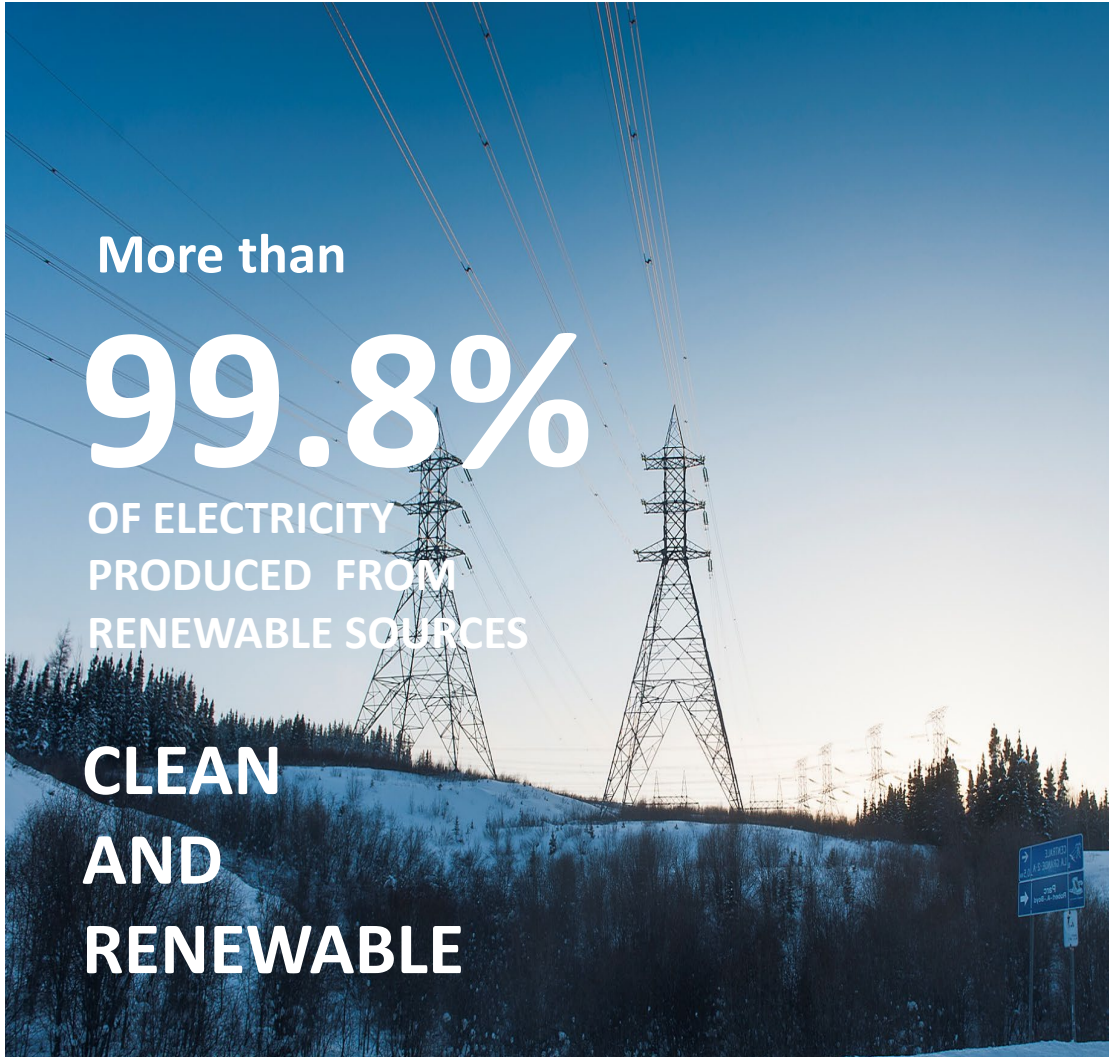
# Data Management and Asset Management

*Laying the foundation for success*

***Frédéric Cantin***

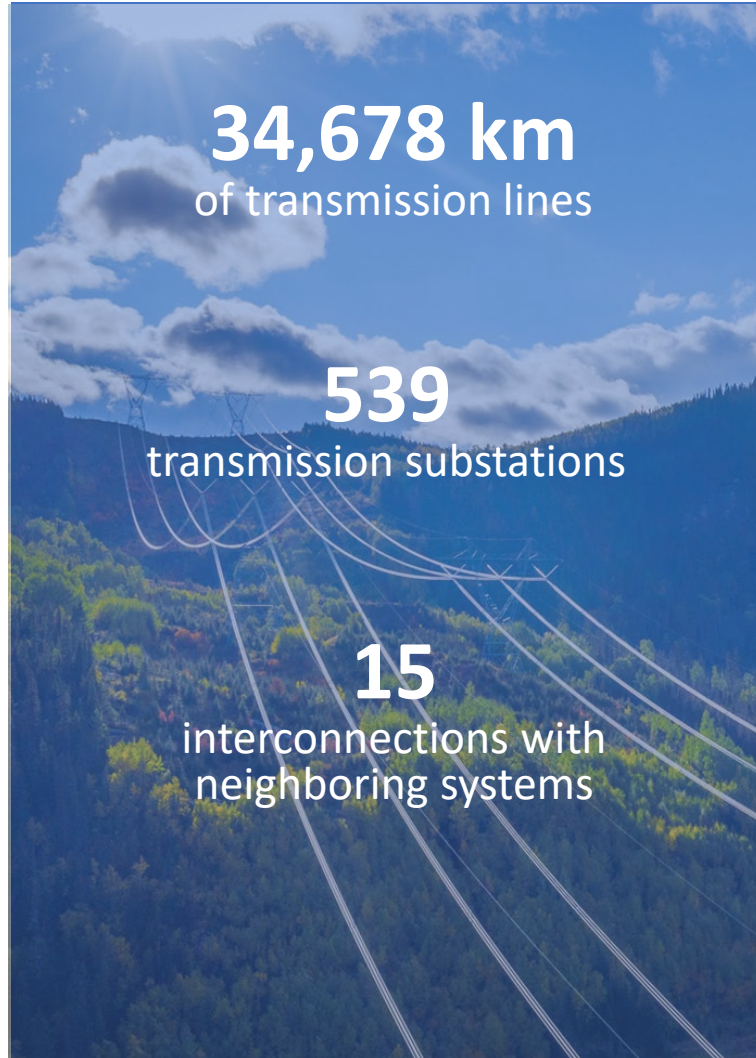
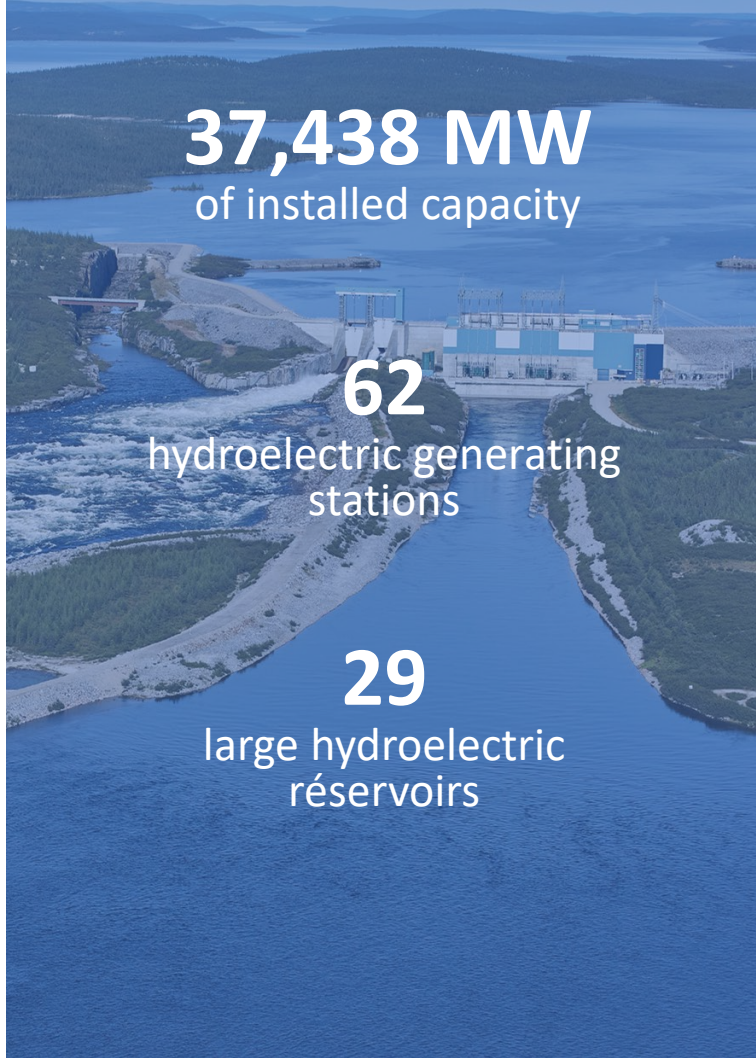
*Manager – Data Inventory, Data Quality and Analytics  
Asset Management Group - Hydro Québec*

# Hydro Québec



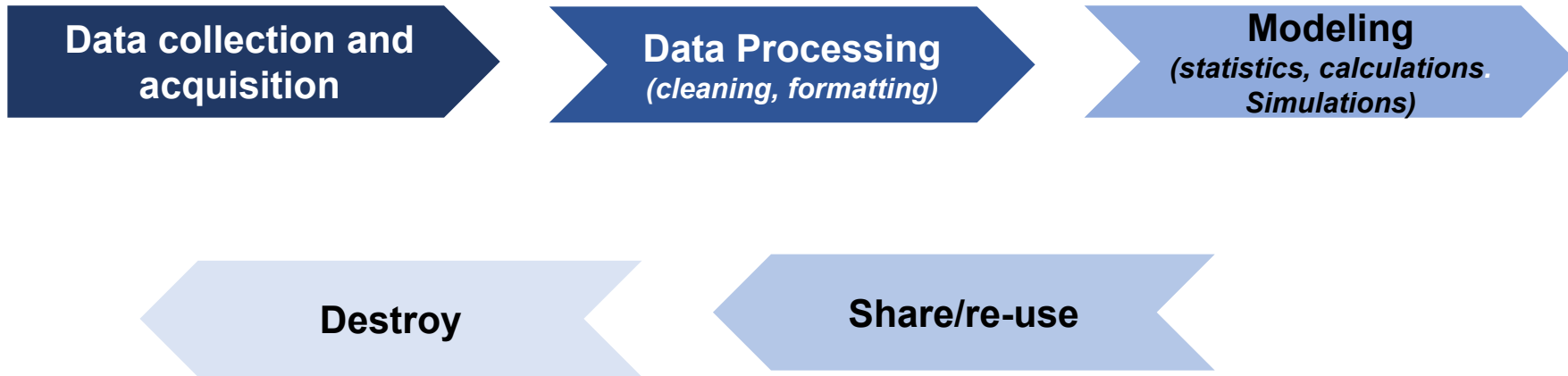


# Hydro Québec in numbers



# Analytics Value Chain

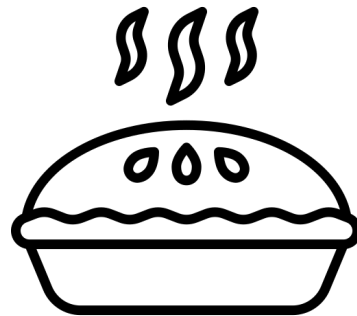
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How to structure Data used the Analytics Value Chain

# Analogy with « Apple Pie Value Chain »

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# What is Data Management



Garbage in / Garbage out



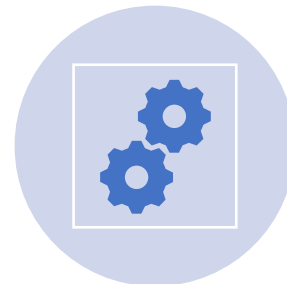
Structures unstructured data



Provides common language for an organization



Maintains a single source of truth



Asset Management :  
must cover **entire asset lifecycle**

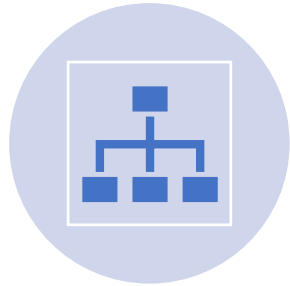


# Assessing your Company' Data Culture



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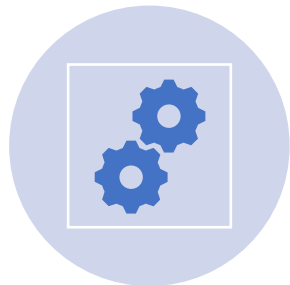
## Digital Transformation requires Data Management



How do you rank your organization's data culture on a scale of 1 to 5?



Data Management is a critical enabler to promote data culture



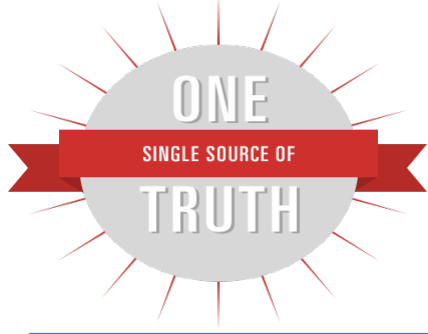
Digital Transformation is about adoption of digital technology to transform your customer experience, processes and operations



Data Management will maximize Digital Transformation benefits

# Master Data Management or « MDM »

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The MDM is a company's lighthouse in an ocean of data

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Critical milestone of Data Management

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Asset definitions and representation

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Unique data source (table) and who can Create, Maintain and Use data

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The MDM allows interoperability

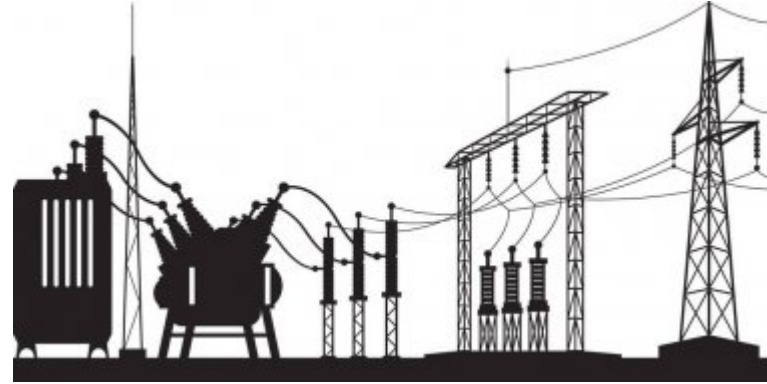
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No MDM: inconsistency in reporting, business decisions and strategies



# MDM example: High Voltage Circuit Breaker

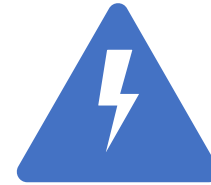
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Meta Data



Prioritization

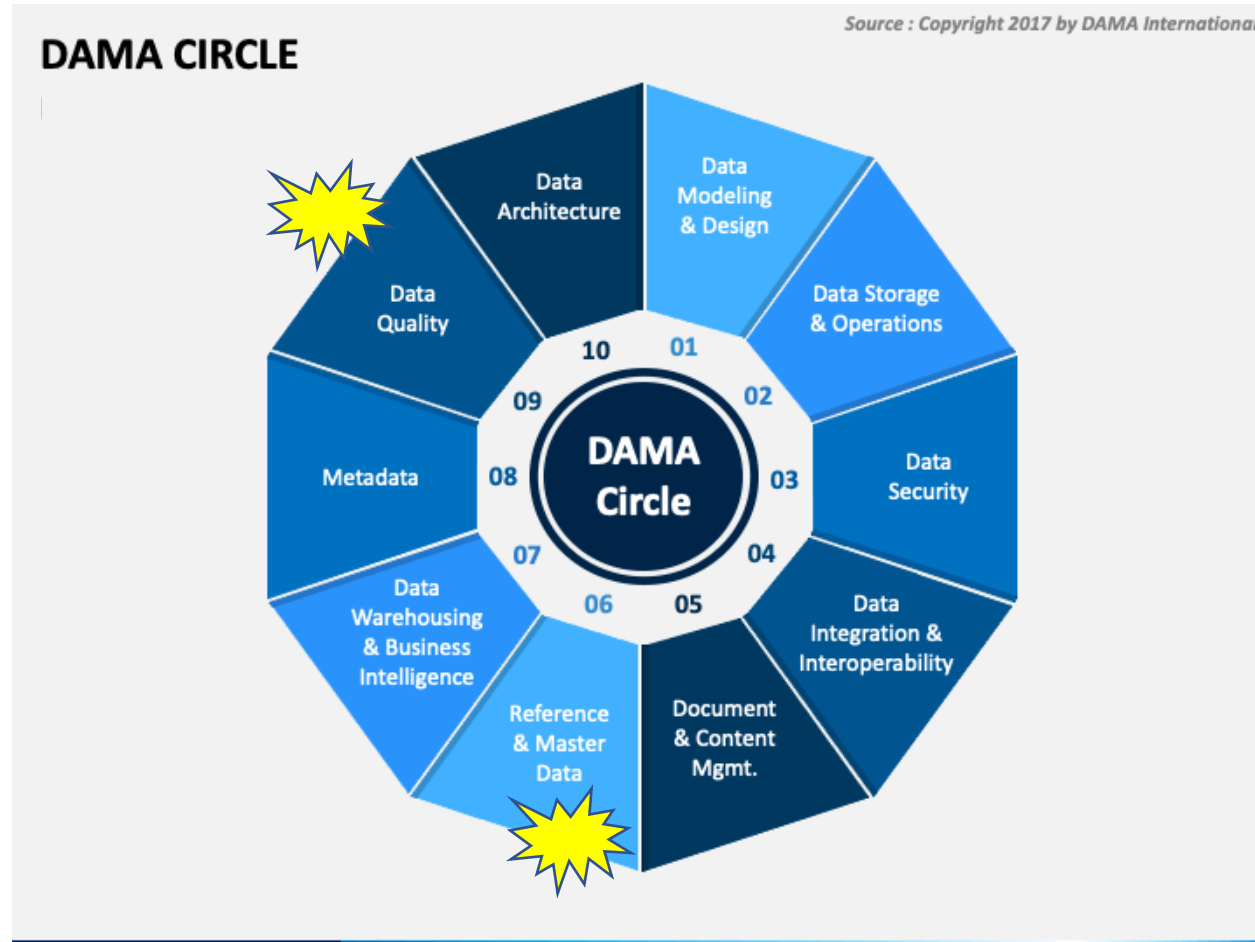


20 characteristics  
are required



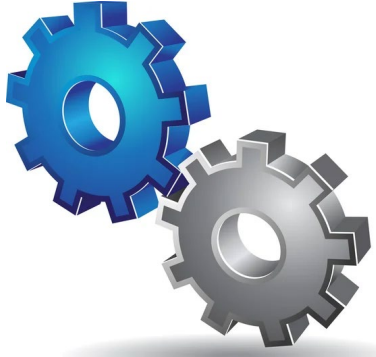
Data Lifecycle

# Data Management and Data Quality



- 10 step Program to implement Data Quality
- Data Quality is a key benefit of Data Management

# Implementing the function of Data Management



Asset Management organizations need to establish and maintain a Data Management function as part of their core activities

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Hybrid IT/business function

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Cross-company function (benefits all business stakeholders)

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Support from executives and from business stakeholders is critical

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Benefits include data quality and end-to-end lifecycle vision

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**Keywords:** cross-company function, alignment with CDO, leadership, resilience, patience

# How to start your Data Management journey

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You can start right away!



**Communications plan and  
business case**



**Start your MDM roadmap**

critical assets/critical data

data quality program:

- assets' static data
- assets' administrative data
- assets' dynamic data



# Conclusion



The discipline of Asset Management should embrace  
Data Management

Creating, growing and  
maintaining a Data  
Management function is a  
**multi year exercise**

A critical component of ISO  
55000 is Asset Information

The IT ecosystem will be  
required in your journey

As a best practices  
organization for Asset  
Management, the *Institute  
of Asset Management*  
could take a leading role in  
this area