Data Platform & Analytics
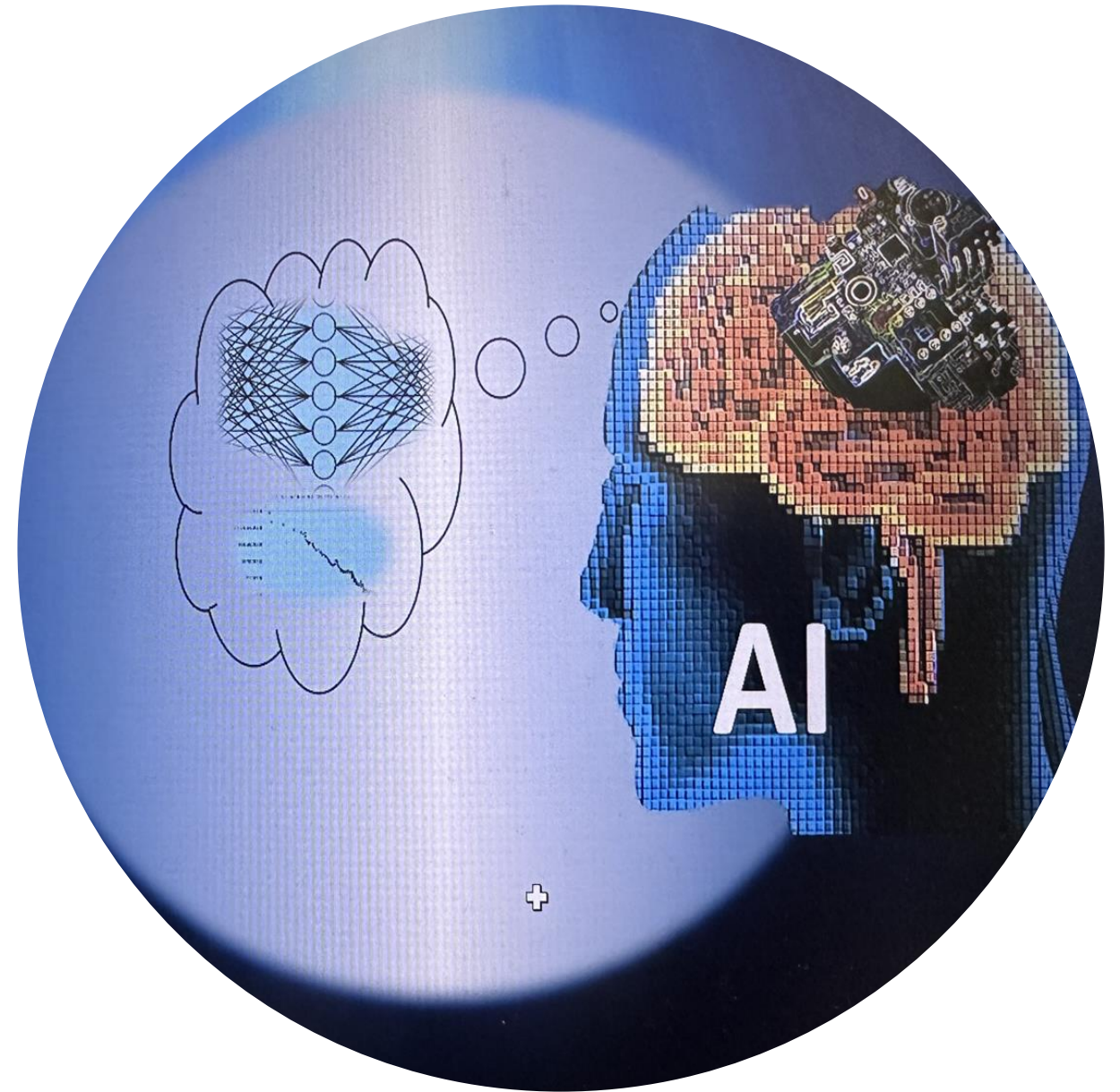
(Rethink all the Analytics)

by

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Data Analytics Leadership Model

Strategic Vision: Developing a clear vision for how data analytics can support the organization's goals. This includes identifying key areas where data can provide insights and drive decision-making.

Technical Proficiency: Understanding data analytics tools, methodologies, and best practices. While a leader may not perform technical tasks daily, having a strong grasp of the field is essential for guiding the team and making informed decisions.

Stakeholder Communication: Effectively communicating insights and recommendations to non-technical stakeholders. This includes translating complex data findings into actionable business strategies.
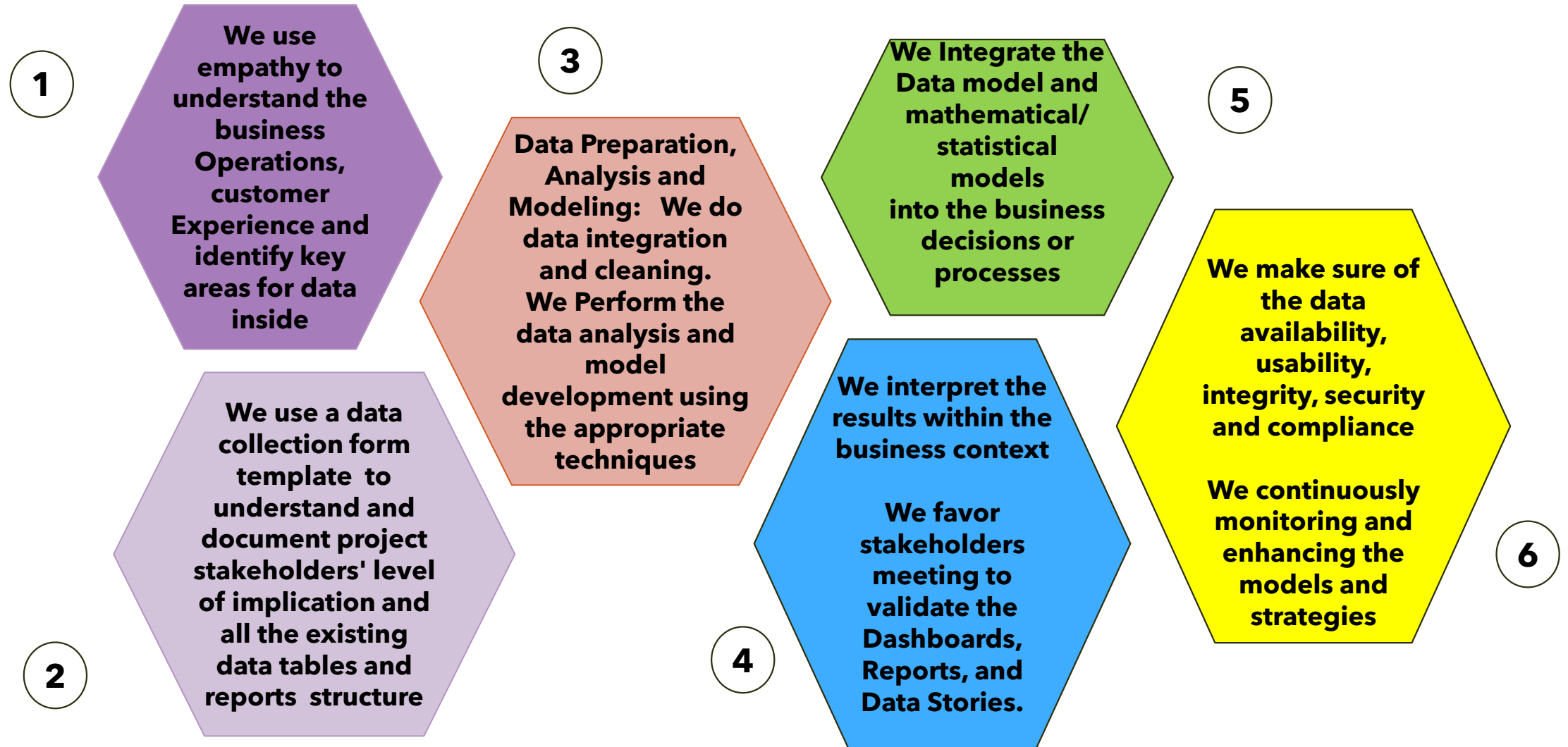
Ethical Considerations: Promoting ethical use of data and ensuring that analytics practices respect privacy and other ethical standards.

Data Governance: Ensuring data quality, security, and compliance with relevant regulations. Implementing policies and procedures for data management and usage is crucial for maintaining trust and integrity.

Innovation and Adaptability: Staying abreast of industry trends and emerging technologies. Encouraging a culture of innovation where the team is open to experimenting with new tools and techniques.
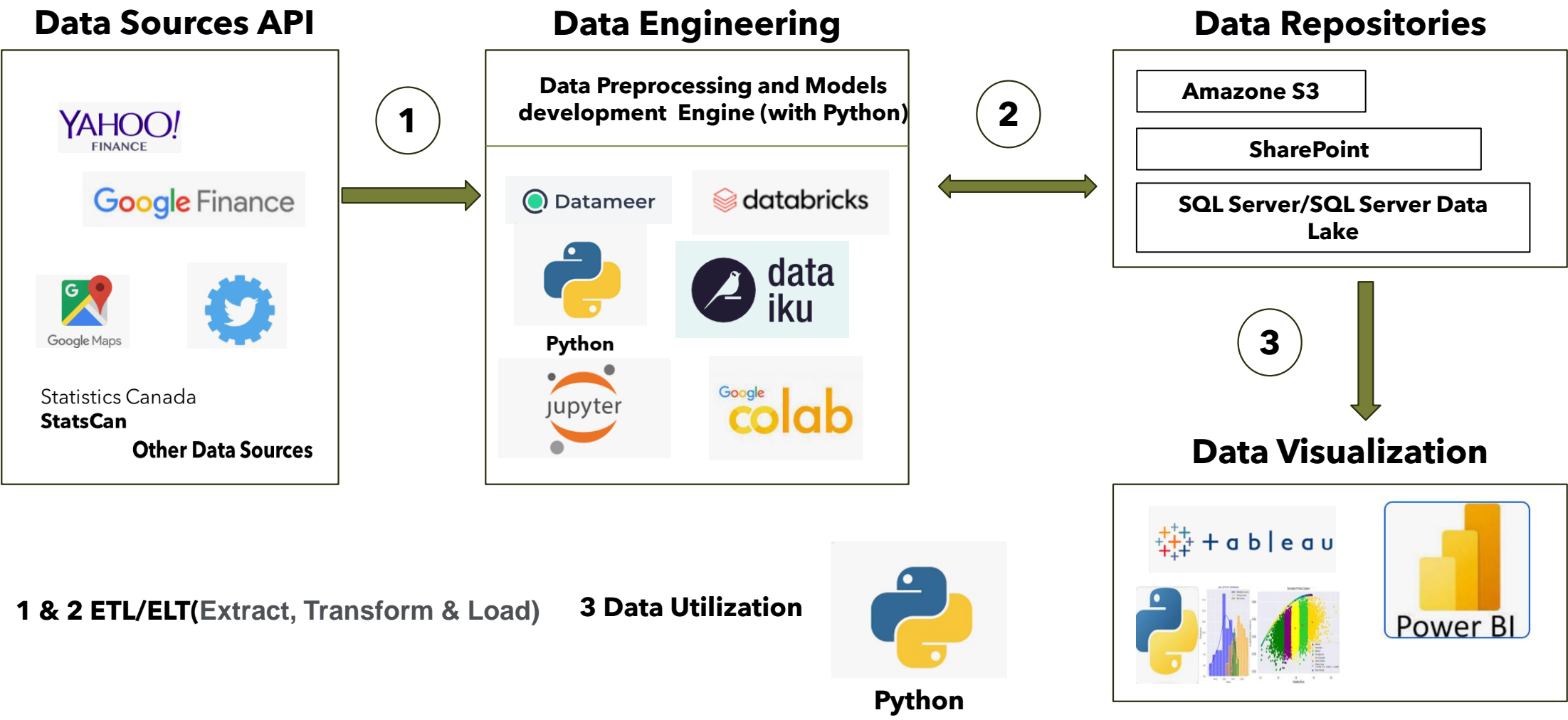
Performance Measurement: Establishing key performance indicators (KPIs) to measure the impact of data analytics initiatives. Continuously monitoring and refining strategies based on performance data.

Data Analytics Team Framework

1

We use empathy to understand the business Operations, customer Experience and identify key areas for data inside

2

We use a data collection form template to understand and document project stakeholders' level of implication and all the existing data tables and reports structure

3

Data Preparation, Analysis and Modeling: We do data integration and cleaning. We Perform the data analysis and model development using the appropriate techniques

We Integrate the Data model and mathematical/ statistical models into the business decisions or processes

5

4

We interpret the results within the business context

We favor stakeholders meeting to validate the Dashboards, Reports, and Data Stories.

We make sure of the data availability, usability, integrity, security and compliance

We continuously monitoring and enhancing the models and strategies

6

1 & 2 Client Brainstorm Meeting   3 - Prototyping 4 - Model Evaluation and Validation   5 - Deployment 6 – Data governance

Data Analytics System

Data Sources API

YAHOO! FINANCE

Google Finance

Google Maps

Statistics Canada
StatsCan

Other Data Sources

1

Data Engineering

Data Preprocessing and Models development Engine (with Python)

Datameer

databricks

Python

data iku

jupyter

Google colab

2

Data Repositories

Amazone S3

SharePoint

SQL Server/SQL Server Data Lake

3

Data Visualization

+ableau

Power BI

Python

1 & 2 ETL/ELT(Extract, Transform & Load)   **3 Data Utilization**

Python

References

https://www.ibm.com/docs/it/SS3RA7_18.3.0/pdf/ModelerCRISPDM.pdf