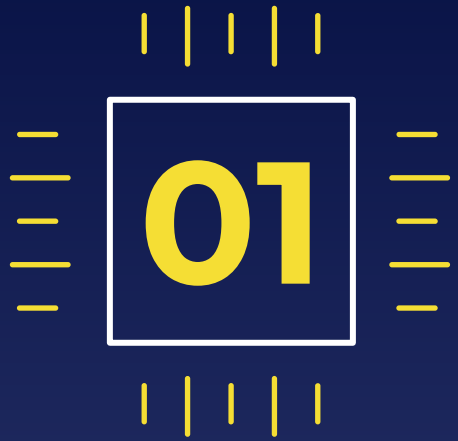
Data Engineering

Here is where your presentation begins



What is Data Engineering?

Business Use Case

Stakeholders involved:

- Directors: Know the **overall performance** of the global subsidiaries and the organization's financial health to make **important business decisions**
- Senior Manager: Better understanding of the teams' productivity and performance, in order to **better manage the team / division.**

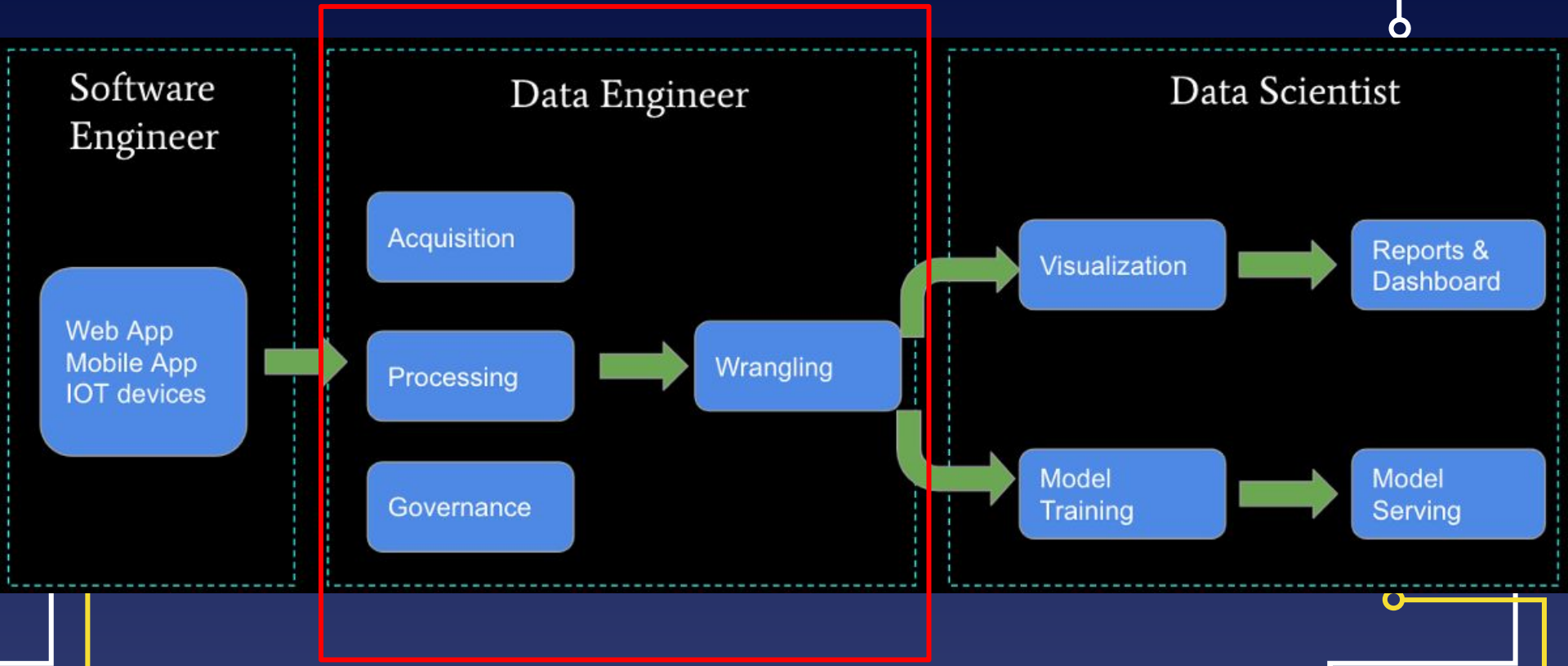
Current problem:

- Data is scattered across the **different source systems**, hence there is no single source of truth. This impacts business decision making, as the data across the organization is not properly captured / harmonized to facilitate that.
- In addition, reporting measures for different levels of management across different departments across the world **do not have the same metrics measure**.

Solution:

- **Harmonize data** across different source systems and **align all reporting metrics** to be the same, hence encouraging **data democracy**. Directors and C-suite management can then have an accurate view of the organizations current performance, financial health and operations management.
- This enables a smoother and **accurate business decision making process**

Role Differences



Source: https://towardsdatascience.com/voicing-for-data-engineering-the-unsung-hero-b91b6ef39dcd

Why Data Engineering?

Definition: Practice of designing and building systems for **collecting, storing, and analyzing data**.

Why is it important?

- Accesses the **quality of data** before any analysis can be done (e.g. supports data scientist)
- Allows businesses to optimize data towards **usability and accessibility**, whereby inquiring common business problem may require complex solutions and processing

How it facilitates the solution:

- Technological innovation has made a big impact on the vitality of data. These encompasses cloud technology, open-source projects, and the **growth of data in scale**.
- Hence, the engineering skills are crucial when it **comes to organizing huge amounts of data**.
    - Data must not only be comprehensive but coherent

Data Engineer Role