

D&A TRANSFORMATION TALES

Precision Data Visualization of Financial & Accounting Data with Impeccable Data Management



BACKGROUND

Our client is a large US based solar and energy storage enterprise. They approached Aspire to seamlessly migrate their high magnitude of data from Google Sheets to Google Cloud Platform with minimal disruption to day-to-day work and data loss. The decision to migrate to a cloud-based storage platform was due to the following challenges:

- All business logic was built on Google Sheets
- Knowledge was heavily vested on one subject matter expert
- Lack of a fully functional IT Team



BACKGROUND

To overcome these challenges our data and analytics experts suggested migrating their data to Google Cloud Platform that would enable the client to:

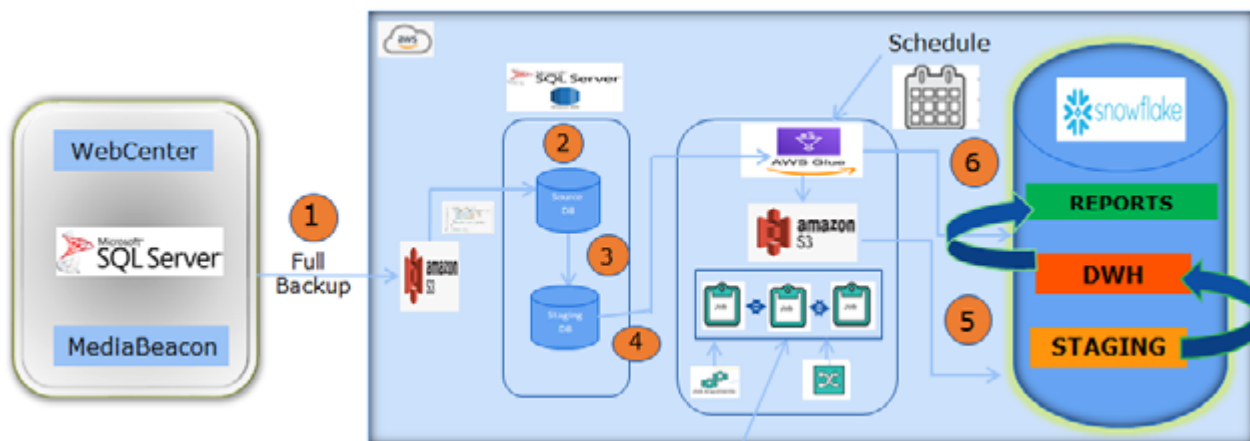
- Consolidate all data from different enterprise source system into GCP Big Query platform
- Create several self-serve reports and CEO dashboards for visualizing their financial and accounting data



THE SOLUTION

After taking the client's needs and challenges into consideration, Aspire's Data and Analytics team curated a well-crafted plan to build and deploy Data Warehouse that would help the client process, store, clean, share, analyze, model and monetize their datasets using BI and ML solutions. The solution involved:

- Building the data platform on Google Cloud
- Using Dell Boomi Data Integration platform to ingest data and dumping the load in Google Cloud Storage
- Performing data transformations using Google data flow pipelines on Apache beam and python
- Preserving master data in Firestore Nosql database
- Persisting analytics data in GCP Bigquery
- Building all dashboards in Tableau Online





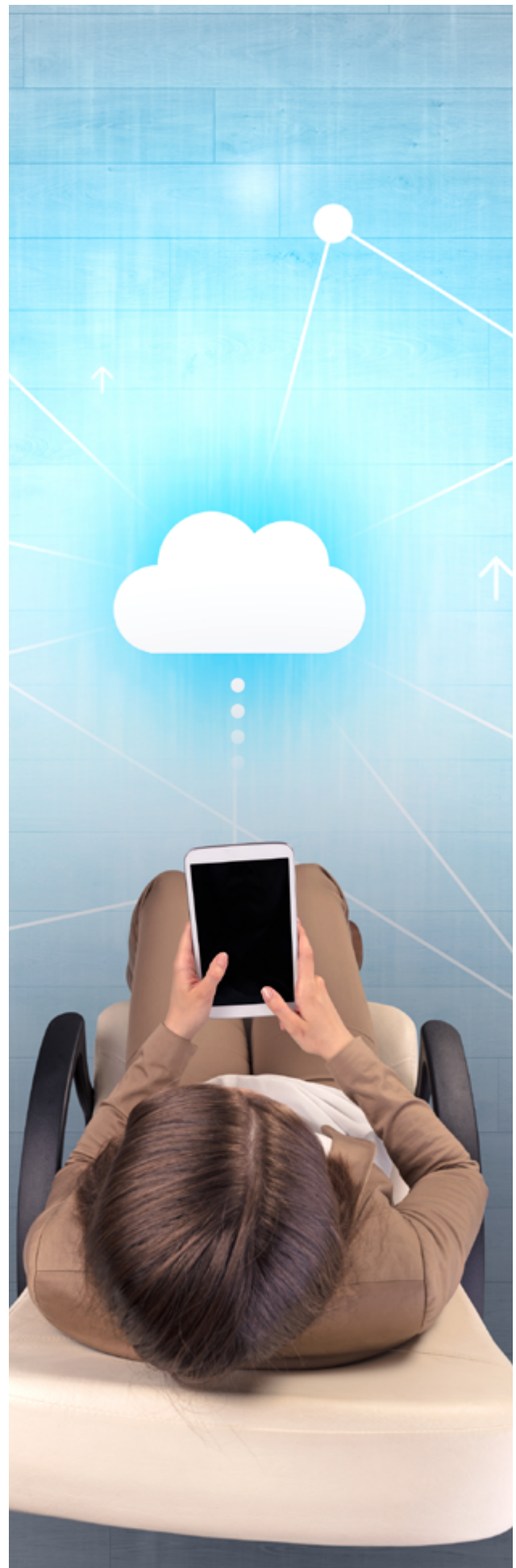
TECHNOLOGY SNAPSHOT

- Enterprise Cloud Platform – Google Cloud Platform
- Enterprise Data Warehouse – Big Query
- Enterprise DB – Firestore
- Enterprise Visualization - Tableau



BUSINESS BENEFITS

- Interoperates with on premises and Cloud data as hybrid model.
- Improves resource utilization.
- Enhanced data quality and consistency.
- Higher query performance and improved historical insight.
- Involved heterogeneous sources to produce powerful reports in milli seconds.
- High return on investment with quality reports.
- EWD and single version of truth for all reporting requirements.





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For more info contact: info@aspiresys.com or visit www.aspiresys.com

USA

+ 1 630 368 0970

SINGAPORE

+65 3163 3050

INDIA

+91 44 6740 4000

BELGIUM

+ 32 3 204 1942

NETHERLANDS

+ 31 (0)30 800 92 16

POLAND

+48 58 732 77 71

MEXICO

+52 222 980 0115