Case Study

Tamkeen Employability Skills Portal (ESP) –

A platform that provides the public with general statistics about the state of the labor market to aid informed decision making

Executive Summary

This program is to collect and analyze labor market information for guiding policy making and decision making, as well as informing citizens on the choices they need to consider and to improve employment opportunities in the market. The analysis will bring together both qualitative and quantitative data and information to look at trends over time.

Tamkeen ESP's core feature is the unattended collection where the data to be gathered is from multiple stakeholders/ministries to the Data Lake (Bahrain Data Lake). These data shall be analyzed across multiple dimensions in order to give a comprehensive picture of the current situation and trends through time.

The ESP will:
- Assist the citizens, the government and the private sector to reduce unemployability in both short and long terms
- Allow higher education sectors to take a more active role into adapting their programs for the market needs to bridge the skills gap. Additionally, employability data helps them in measuring and enhancing the effectiveness of their programs.
- Allow startups and SMEs to account for the skills market in their business planning, and effectively reducing their risks

Customer Challenge

1. **Cost of Technology:** Startup cost of standalone data lakes & continuous investment in latest technologies
2. **Cost of Multiple Data Lakes:** Exacerbated cost of operating multiple data lakes.
3. **Lack of Skilled Resources:** Lack of data lake specialized resources
4. **Buy in from Data Providers:** Increased resistance for buy-in from data providers
5. **Demand on Security Hardening:** Exponential increase of demand on Security Hardening

About the customer

Tamkeen is a public authority that was established in 2006 to reform the labour market. The main aim is supporting the development of the private sector to be the main engine of economic and sustainable growth.

Tamkeen offers programs for individuals and enterprises, while focusing on supporting the employment of Bahrainis. This comes as part of the ongoing mission of making Bahrainis the employee of choice in the labour market. The program will provide wage support for Bahraini job seekers and fresh new graduates registered within the Ministry of Labour and Social Development for a period of up to 36 months.

Cloudwick

About Amorphic

Amorphic is a fully managed self-service data lake platform that simplifies AWS analytics for IT and non-IT users. The platform is offered as both a Software-as-a-Service and a managed subscription for AWS that automates, orchestrates and simplifies **AI services**, **Machine Learning,** and **Analytics** for engineering, business and data science teams. It extends and enhances the power of cloud data warehouse and business intelligence for all data and users by providing one unified analytics platform to **Ingest**, **Analyze,** and **Visualize** data natively.

Technologies/Services Used

Amazon Glue

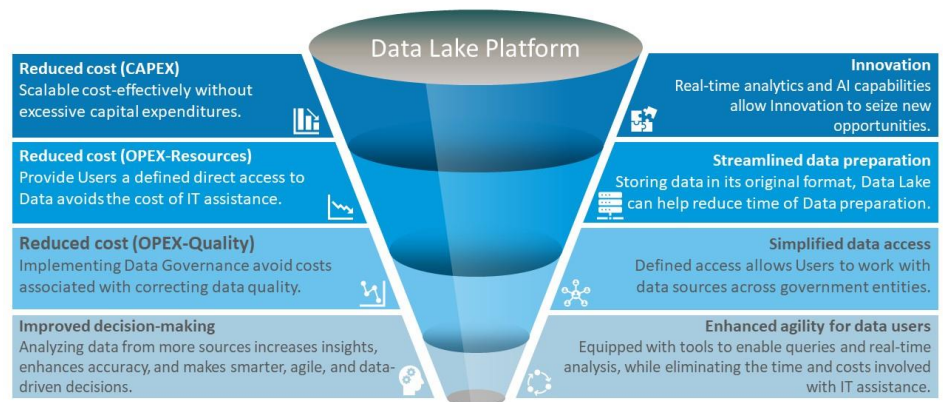Amazon Aurora

DMS

Amazon S3

Amazon Athena

Amazon Lambda

Why did Tamkeen choose AWS and Cloudwick?

Bahrain government chose Amorphic (by Cloudwick) for enabling a national data lake. With Amorphic, they are able to build multiple use cases as data across ministries is available in data lake. It also offers 'build and support' for custom User Interface (UI) portals for data consumption. With a team of specialized resources in data analytics, Cloudwick has built a robust data platform.

Tamkeen was already using AWS, so they went ahead to extend AWS for this project as well. Most of entities (data providers) are already on AWS and connect through Government secured data network.

Cloudwick solution on AWS

What benefits did Tamkeen get from the solution?

- Easy connectivity options to bring data from multiple sources to the data lake
- Simple & Robust Data Management & access controls
- Out of the box solutions for designing & scheduling ETL pipelines
- Support for custom UI Portals for data consumption using reports
- Minimal dependency for cloud infrastructure team
- Compliance with IGA security standards
- Provide scalability with AWS
- Support for ML for data analytics

About Cloudwick:

Cloudwick is an AWS certified Advanced Consulting Partner that specializes in building native data lakes that power faster, cheaper and more agile cloud analytics for IT, business users and data scientists.

Whether you need to migrate your analytics to the cloud, add decision automation to your business intelligence, improve customer experience with machine learning or want to build or buy a data lake, Cloudwick has a complete portfolio of services and solutions.

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