



## Case Study Healthcare:

### Data Lake, Symptoms Analysis and ROI Analysis

The healthcare industry has been known to hold a vast amount of valuable patient's data. Be it their personal information, demographics and medical history. However, due to the lack of awareness, the advancement in data processing technology has been hidden from the healthcare industry in Indonesia. Little did they know that these pile of unused data would be very crucial in determining the improvement or optimization of services.

A public hospital in Surabaya has entrusted a Big Data initiative to us. We were assigned with the massive task of not only integrate the hospital's vast data, but also several data analytics use cases that when executed properly, will surely impact the hospital's performance.



Data Lake



Symptoms  
Analysis



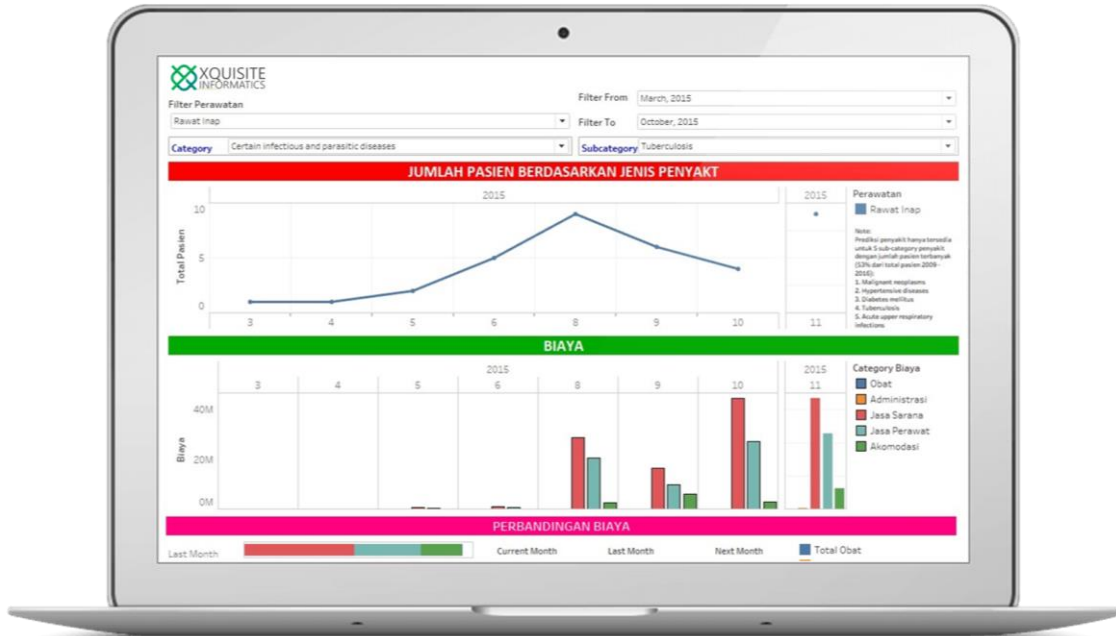
Resource  
Analysis



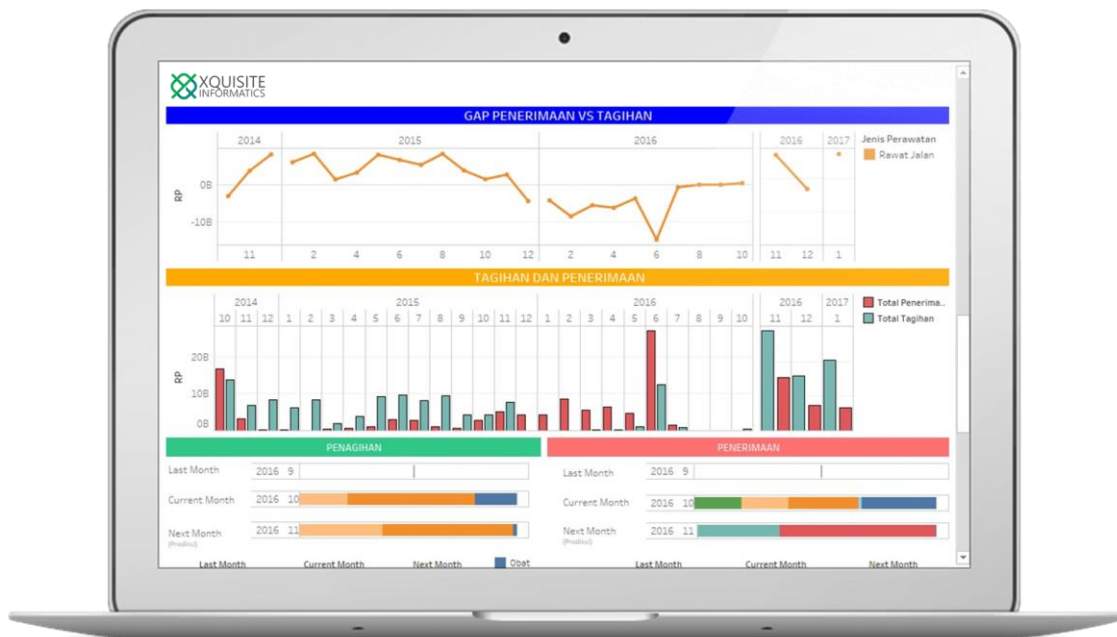
ROI Analysis

During the course of the project, XQ has been able to develop data lake to integrate multiple data sources, analyze current symptoms based on multiple variables, build predictive analysis for hospital resources that includes staffing and medicines, and analyze ROI for BPJS insurance claims.





The Big Data initiative for the hospital has been able to pinpoint the issues that troubled the hospital. In addition, the project enabled the hospital to optimize its schedules, services and inventory stock with the help of symptoms and resource analysis.



Does your health institute have a Big Data initiative as well? Contact us and let your data become valuable insights for you.

For more info, contact us at [hi@xqinformatics.com](mailto:hi@xqinformatics.com)

