



The importance of Data Management in the Digital age

By Nerson Tjelos

BI Dynamics Pty Ltd,
Scientific Society Building,
112 Robert Mugabe Avenue,
+264 61 259 530

info@bi-dynamics.com

www.bi-dynamics.com

- Bill Gates Or the Database?
- Whatever is happening today should have been picked up 5-10 years ago.
Agree?

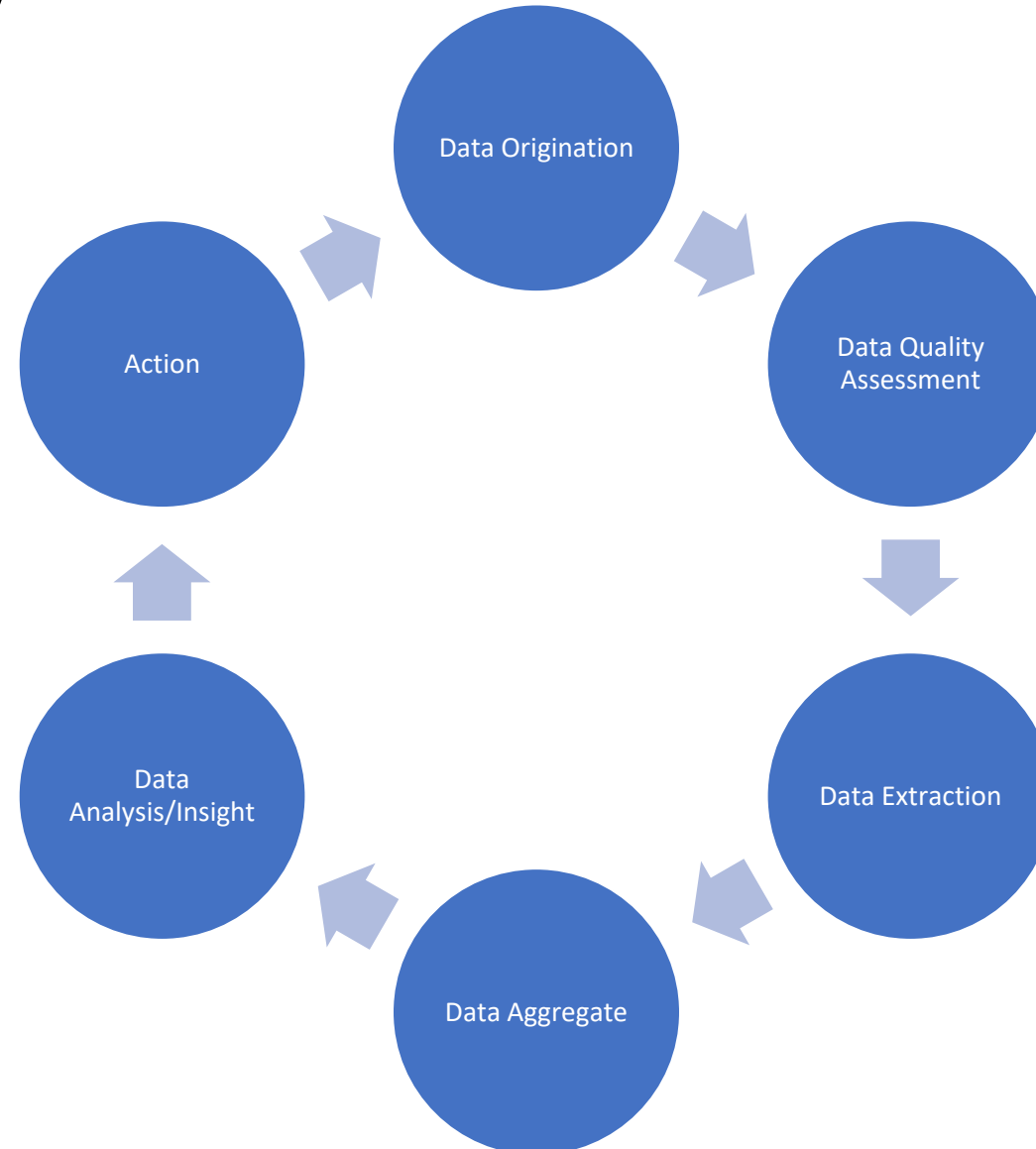
Data Management?

- Development and execution of processes, architecture, policies, practices and procedures – to manage an institution’s information:
 - Compliance regulations, amount of data generated vs storage space, valuable resource for business – efficiency, growth etc.

Stats from the US (National Archives & Records Administration in Washington):

- 93% of companies that lost their data center for 10 days or more due to a disaster filed for bankruptcy within one year of the disaster.
- 50% of businesses that found themselves without data management for this same time period filed for bankruptcy immediately.

The Journey



Data Origination

- The points of origin for Data have increase as a result of digitalization:
 - Websites – How many people visit your site, what do they do when they are on your site, what is drawing them to your site.
 - Weather Centres – Its very easy to know that a cyclone, heatwave, drought, rain, mist is coming with the advances in weather collection equipment.
 - Smart Watches – You can now identify irregular heart rythms, heart rates.
 - Mobile Phones/Tablets/Phablets – Now the ordinary person can carry multiple internet enabled devices collecting all types of information
 - Mobile Apps – What are peoples’ interests and what draws them to the apps
 - Television Apps – NBC launched a TV app, that means they can know more about what programs/channels are people watching or interested in. Yesterday we witnessed the defeat of the Manchesters on the phone while setting up our stand
 - Social Media – we all know what facebook and google do with the data they collect from us.



Data Quality Assessment

- So understanding that the points of origin have grown exponentially, its is vital to understand the quality of this data, prepare it, de-duplicate the data (wash it).
- Data Quality assessment is vital in ensuring that the data can be used to provide accurate and actionable intelligence.
- This involves assessment of the data identifying challenges from source/point of origin with recommendations on how to improve the point of origin.



Data Extraction

- While data may reside/originate from a variety of devices extraction is the next big question.
- Using tools such as Pentaho, Elastic, Talend, Data Stage, Jasper etc. Business can extract data from these numerous sources to converge in a single database.

Data Aggregation

- Consolidating the data into a structured data storage/warehouse is the next step in the cycle.
- Making the data accessible for users to draw insights and understanding from the data.
- Creation a single source of the truth for the business.
- If anyone needs data they must go to that one place.

Data Analysis

- Visualizing the data is the next step
- Getting new perspectives on the data and quickly getting understanding of the pain points just by a graph.

Action

- The next step is action,
- What action do you take based on the numbers?
- Do we plan for alternative sources of water since the rains will be low?
- To whom should we target our promotions? The low end customer or the high end customer?
- When is the best time to plant a crop?
- What do Namibian viewers like to watch on TV, should we buy more such programs to keep them entertained?
- What are people saying about my brand on social media, should I employ a PR company to rebrand and regain trust?

So why data management important?

- Predicting churn of customers on specific behaviors.
- As BI Dynamics we have helped a number of companies to identify churn and predict if subscribers are about to churn to the competition.
- For one client we were able to free IT from the need to prepare reports for other more value adding tasks.
- We helped a certain customer identify and retain their high value customers and increased their revenue by 12%.
- We enabled a customer to initiate a cleanup exercise in which 25% of the duplicate data were found.

In summary:

- You can easily collect data but...managing, organizing, and utilizing that data can make or the bottom line.
- Data is not today' oil because oil non renewable. Data is the soil. Treat it well and you will feed nations!

BI-Dynamics

BI Dynamics Pty Ltd,
Scientific Society Building,
112 Robert Mugabe Avenue,
+264 61 259 530
info@bi-dynamics.com
www.bi-dynamics.com

TO BE AFRICA'S
DEFINITIVE PROVIDER
OF DATA MANAGEMENT
BUSINESS INTELLIGENCE
& ANALYTICS RELATED
SOLUTIONS

SPECIALIZE
IN THE PROVISION OF
PROFESSIONAL ICT
CONSULTANCY & TECHNICAL
SERVICES


BUSINESS

www.bi-dynamics.com



WE WANT TO BE AFRICA'S
DEFINITIVE PROVIDER
OF DATA MANAGEMENT
BUSINESS INTELLIGENCE
& ANALYTICS RELATED
SOLUTIONS

Thank you!