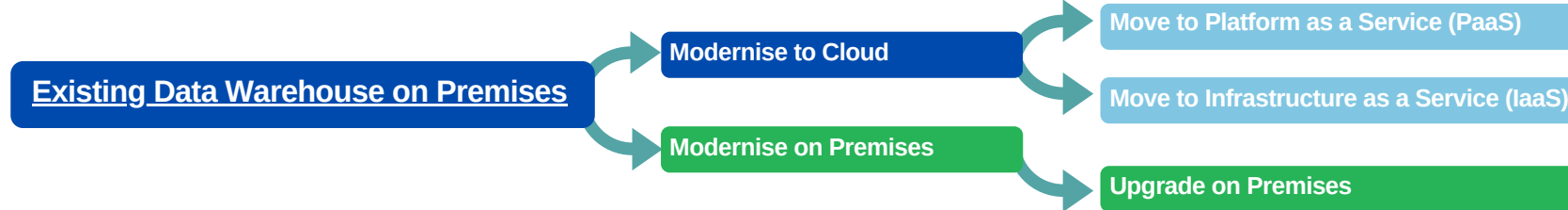


DATA WAREHOUSE MODERNISATION: DRIVING SCALABLE AND RESILIENT INTELLIGENT BUSINESS

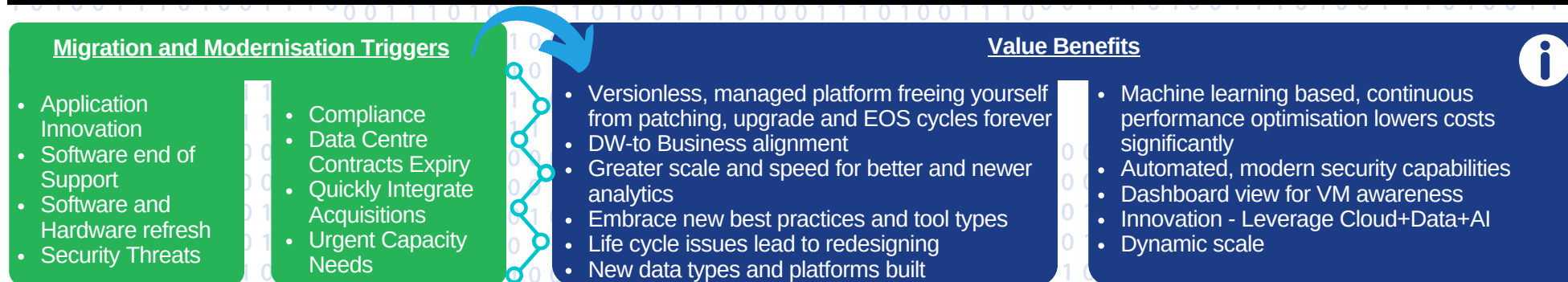
What is Data Warehouse Modernisation?

- The average data warehouse is today evolving, extending, and modernising, to support new technology and business requirements, as well as to prove its continued relevance in the age of big data and analytics.
- Brings together all data at any scale easily, and gives insights through analytical dashboards, operational reports, or advanced analytics for all users.
- Modernisation can include a combination of a data warehouse and data lake to manage and analyse structured and unstructured data.
- Can be done on-premise, on the cloud or as a hybrid.

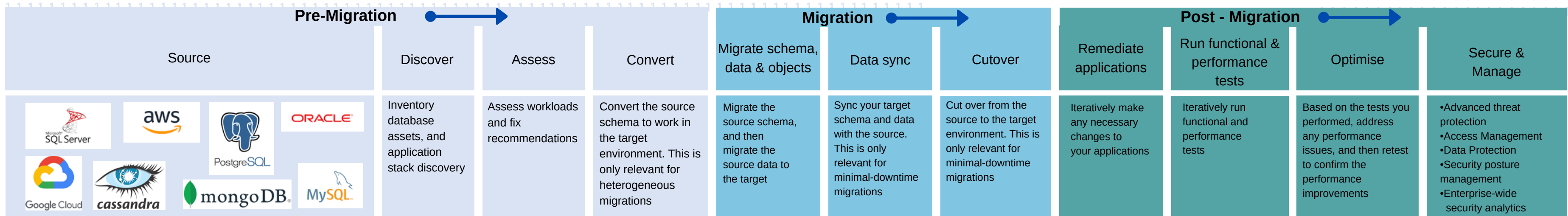


| Managed BY: | Threat Detection, Risk Management | Performance Management | Applications & Data | High availability /DR/Backups | Database Provision/ Patch/ Scaling | O/S Provision/ Patching | Virtualisation | Hardware | Data Center Management |
|--------------|-----------------------------------|------------------------|---------------------|-------------------------------|------------------------------------|-------------------------|----------------|----------------|------------------------|
| On Premises: | Customer | Customer | Customer | Customer | Customer | Customer | Customer | Customer | Customer |
| IaaS | Customer | Customer | Customer | Customer | Customer | Customer | Cloud Provider | Cloud Provider | Cloud Provider |
| PaaS | Either | Either | Customer | Cloud Provider | Cloud Provider | Cloud Provider | Cloud Provider | Cloud Provider | Cloud Provider |

What is the Triggers & Value Benefits of Data Warehouse Modernisation?



Application: Migration & Modernisation



Top 12 Priorities for Data Warehouse Modernisation

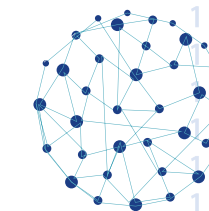
- Embrace change
- Make realignment with business goals a top priority
- Make Data Warehouse capacity a high priority on the technology side
- Make analytics a priority too
- Consider related systems and disciplines that also need modernisation
- Don't be seduced by new, shiny objects – think cost vs. benefit
- Assume that you'll need multiple manifestations of modernisation
- Know the tools and techniques of the modern Data Warehouse environment
- Adjust the large-scale architecture of the Data Warehouse environment
- Reevaluate the current Data Warehouse platform
- Consider Hadoop for various roles in the Data Warehouse environment
- Develop plans and recurring cycles for Data Warehouse modernisation

Exotic Data Types in the Modern Data Environment

- Social media data (blogs, tweets, social networks)
- Real-time data (messages, events)
- Internet of Things (IoT) data
- Unstructured data (human language, audio, video)
- Web logs and clickstreams
- Semi-structured data (XML, JSON, similar standards)
- Application logs
- Machine-generated data (sensors, devices, vehicles)
- Spatial data (long/lat coordinates, GPS output)
- Demographic data and other third-party data
- Complex data (hierarchical or legacy sources)
- Scientific data (astronomy, genomes, physics)
- Structured data (relational, tables, records)

Common Categories of Modernisation

- System modernisation
- Arbitrary modernisation
- Non-Data Warehouse modernisations
- Optimisation modernisation
- Continuous modernisation
- Disruptive modernisation



The average Data Warehouse manages 3–10 TB today, increasing to 10–100 TB in three years.