### **CERN**

### World's largest scientific instrument

27km (16.8 miles) circumference, 6000+ superconducting magnets

#### Fastest racetrack on Earth

Protons circulate 11245 times/s (99.9999991% the speed of light)



# Emptiest place in the solar system High vacuum inside the magnets

### Hottest spot in the galaxy

During Lead ion collisions create temperatures 100 000x hotter than the heart of the sun;

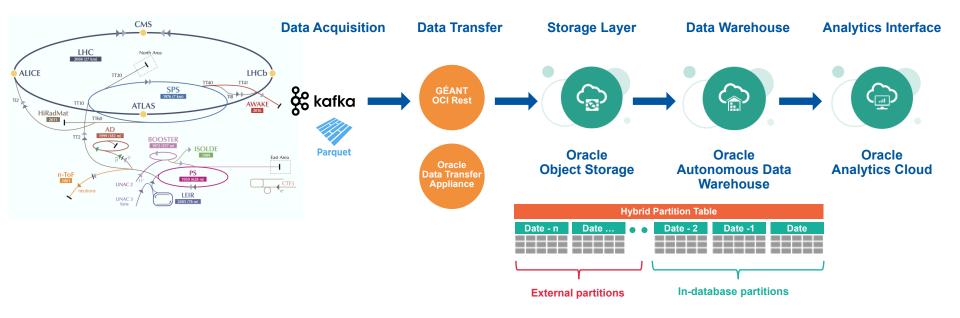
# **Autonomous Data Warehouse Our Requirements**

- Simple architecture
- Improve without disrupt
- Minimal migration and integration efforts
- Better performance on bigger datasets
- Unlock data exploration (unknowns unknowns)
- Allows to control critical systems on almost real-time
- Lowers operations and development costs



## **Autonomous Data Warehouse**

### **Architecture Overview**





### **Autonomous Data Warehouse**

# **Our gains**

- Simplified and compatible architecture
- Cost-effective solution
- Automatic access to advance optimisations.
- Transparent backups and patching.
- Scale-up and scale-down to adapt to the needs.
- Benefits of Exadata in a fully managed environment.
- No DBA expertise requires for operations.
- Time to focus on data exploration.

