



**TRANSWATER**  
*Engineers of Integrated Solutions*

# **ENVIRONMENTAL DATA MANAGEMENT SYSTEM**



# What is Environmental Data Management System

1

Information system tool that gives the authorities the data they need for strategic planning and decision making in the area of environmental quality based on scientific knowledge.

2

User-friendly system environment that provides data in the form of an interactive map.

3

Makes the decision-making process transparent by providing information on environmental quality and planned actions for the general public.





# Key Features

1

## Automation –

Configurable workflows and alert triggers save time and resources.

2

## Prompt Exceedance Alerts –

Provides alerts that can be sent to user via email, text messages (SMS) & mobile application alerts.

3

## Accessibility –

Validated data can be accessed through tablets and smartphones anytime, anywhere

4

## Regulatory Compliance –

Customized reporting for a variety of environmental quality thresholds, limit values, and standards.

5

## Quality Assured –

Uses advanced data analysis tools to support checking, verification, and validation of large volumes of measurement data.

6

## Demonstrable Transparency –

Data changes & user activity are captured, resulting in transparent audit trails, & providing ideal evidence logs for use in compliance assessments..

7

## Tailorable Data Collection Frequencies –

Data collection frequency and timing can be programmed to meet user needs.

8

## Near Real-Time Data & System Updates –

It ensures accuracy and latest high-quality data.

# Conceptual Process & Data Flow Diagram for Data Management System

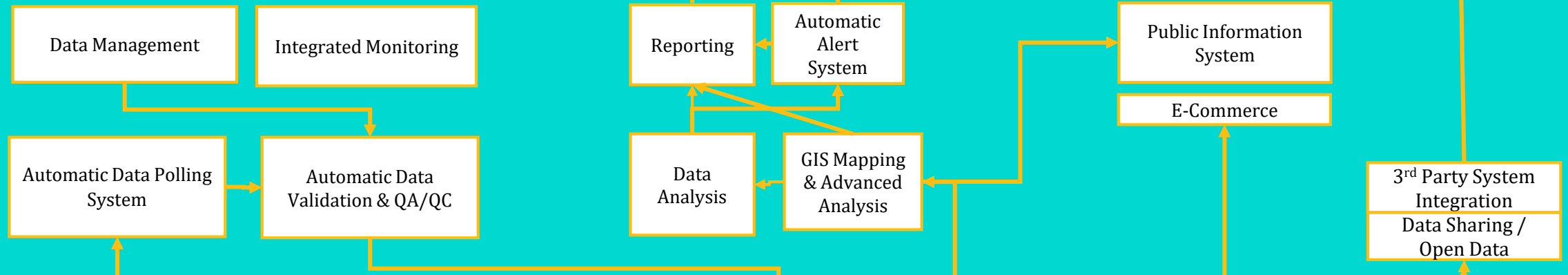


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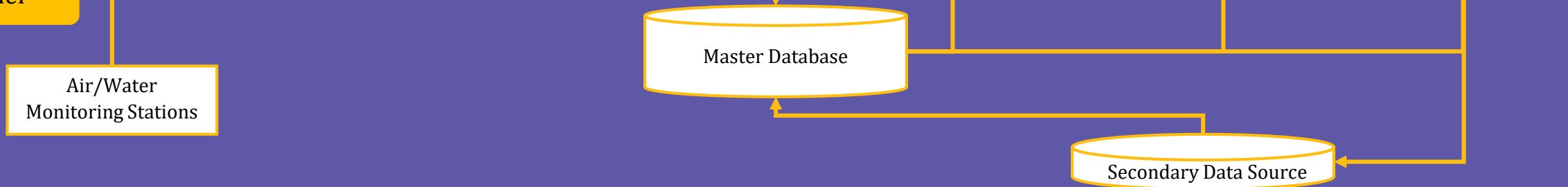
## Client Tier



## Application Tier



## Data Tier



# Conceptual Process & Data Flow Diagram for Data Management System



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- Rules
1. Calibration Check
  2. Daily QC Check
  3. Maintenance
  4. Power Failure
  5. Data Exceed Analyser Range (DOR)
  6. QCOR (QC data out of range)

- Rules
- Outliers, Cross-examination with field verification

- Rules :
- Cross examination with Instrument Operational parameters





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