

Integrating Earth Observation Data via a Collaborative GIS

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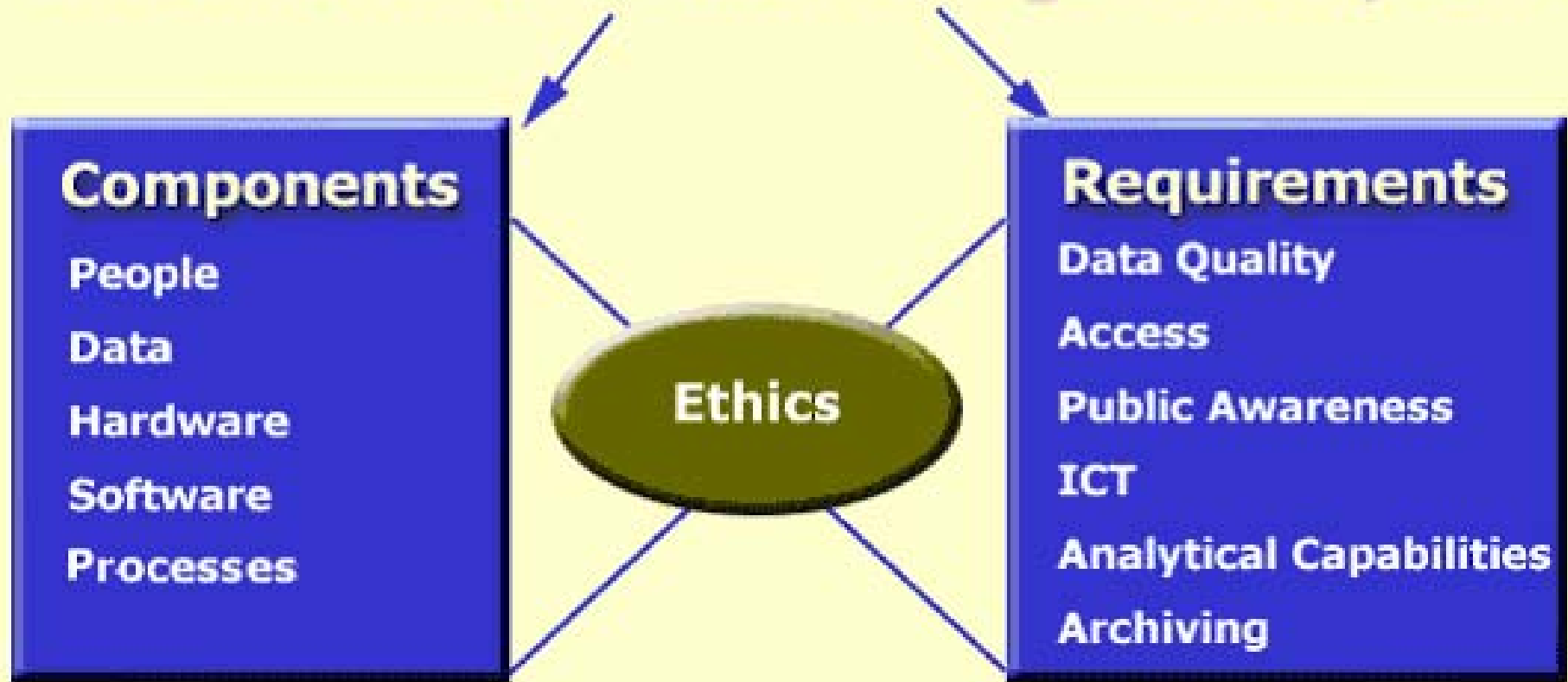
Talk Outline

- **Information and Data Management Principles**
- **Data Ethics**
- **Proposed Node Architecture**
- **Collaborative GIS Network**
- **Stakeholders**
- **Organisational Infrastructure & Costs**



SAEON

Information and Data Management System



DATA ETHICS

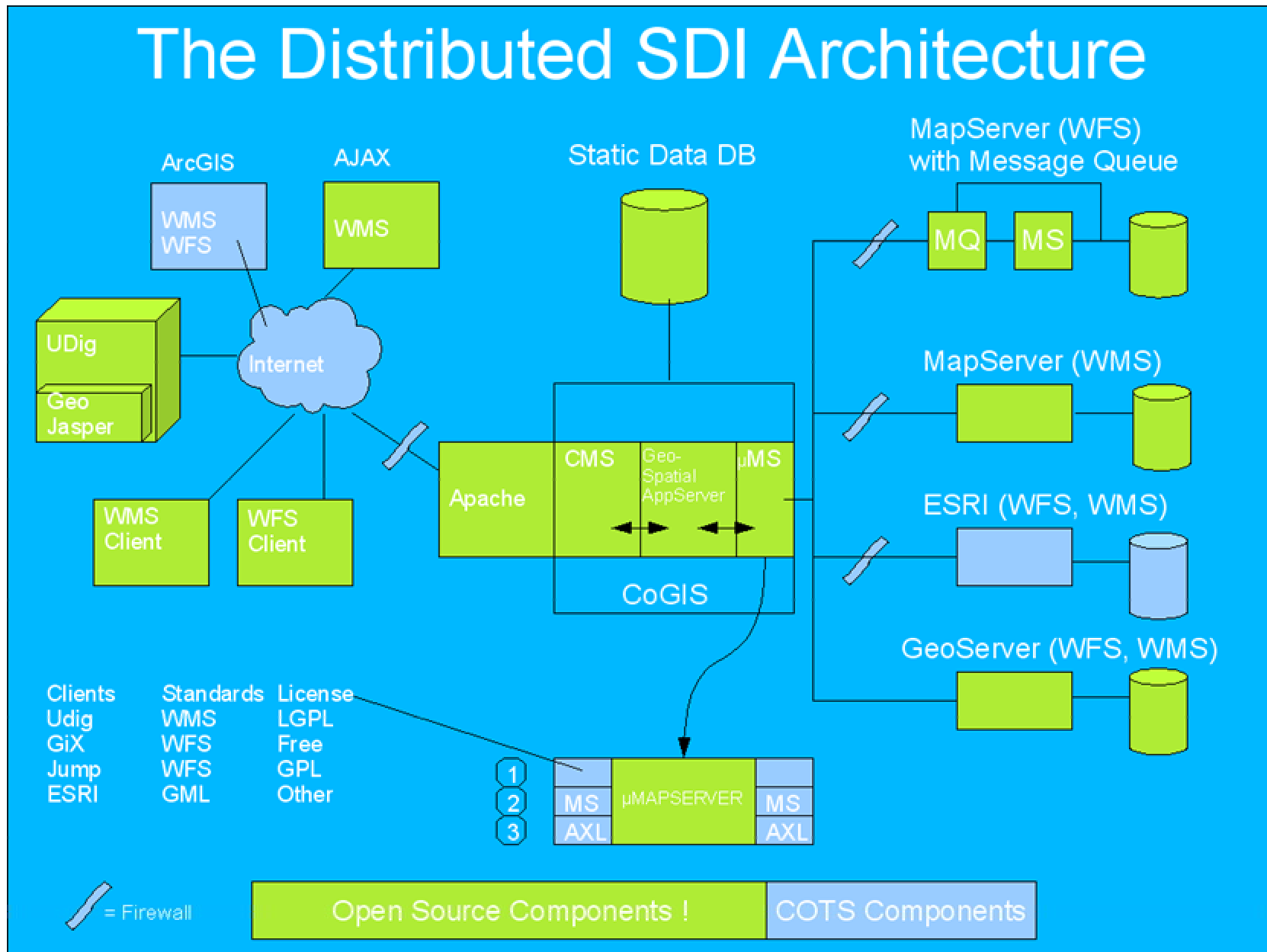


- **Data Policy vs Data Ethic**
- **Data should generally be freely accessible to users**
- **Data stored for future use by generations of researchers**
- **Entrenched ownership rights**
- **Acknowledgement of data sources**
- **Basic information products**
- **Quality of data & metadata**
- **User information database**
- **Sensitive data restricted**

Proposed Node Data Architecture

- Platform – Postgress
- Metadata – Morpho, Metacat, EML
- Spatial Data
 - Mostly ArcView 3
 - Arcview 9
- Security and Firewalls???
- Open Source - Collaborative Spatial Analysis and Modeling Platform (CoSAMP)

Collaborative GIS Network



A photograph of several ducks swimming in a pond. The ducks are brown and white, and the water is a deep blue-green color. The ducks are scattered across the frame, with some in the foreground and others in the background. The text is overlaid on the image.

Stakeholders

- **CoGIS Funders**
 - SAEON
 - Dept. Mineral and Energy Affairs
 - CSIR
- **Hosting Agreement**
 - Innovation Hub
 - SAEON
 - ARC – AGIS
 - DME
 - Development Bank of SA
 - CSIR

Organisational Infrastructure & Costs

- **Development of CoGIS**
 - 3 Funders
 - R 1 050 000 (U\$ 155 000)
- **Hosting (Quote to be finalised)**
 - 5 Stakeholders
 - R100 000 (U\$ 15 000) once-off
 - R50 000 (U\$ 7 500)
- **Hosting Environment**
 - Server (2-4 CPU)
 - 7 TB SAN
- **Supercomputer (Modeling)**
 - Superdome at Innovation Hub
 - 16 CPU
- **Potential Facility????**
 - South African Earth Observation Strategy??



THANK YOU

