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# SA Earth Observation Strategy

Humbulani Mudau
Department of Science and Technology
GEO User Interface Committee
Washington DC
August 2007

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# Outline

SAEOS Objectives

Phase 1: Earth Observation Data Centre (EODC)

Phase 2: SAEOS Architecture

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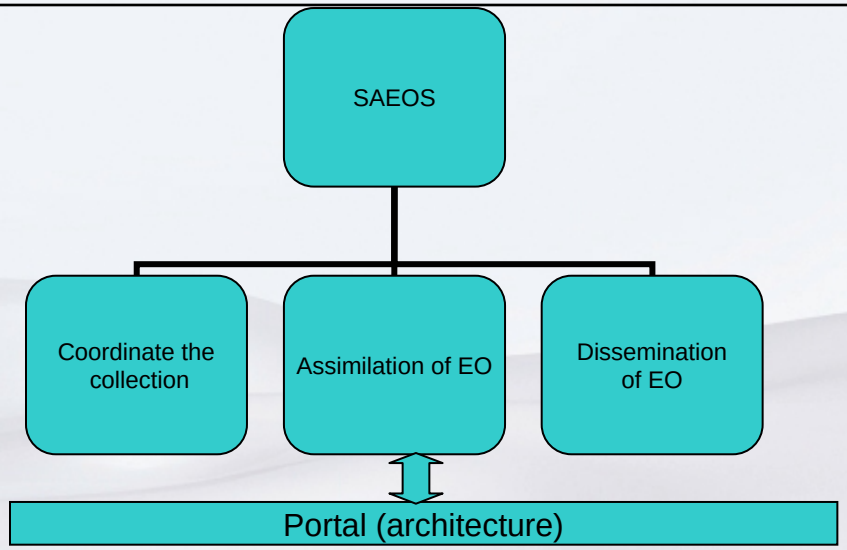
# Objectives

Need to develop a common, synergised information platform for Earth Observation to inform and support decision-making

Through co-ordination of collection, assimilation and dissemination of earth observation data and information



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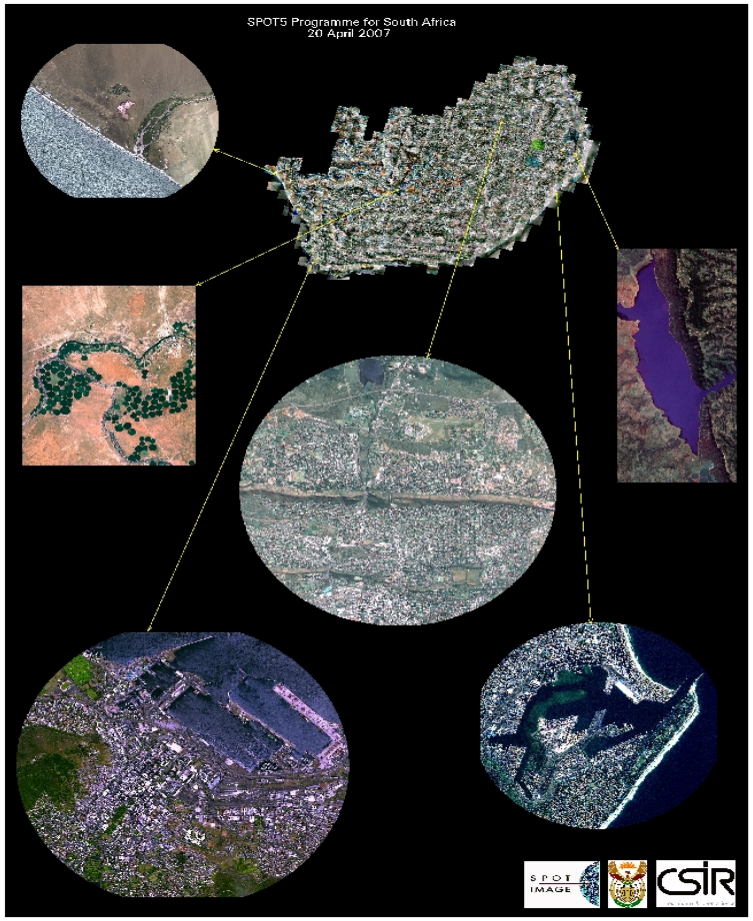
# RSA SPOT 5 Mosaic



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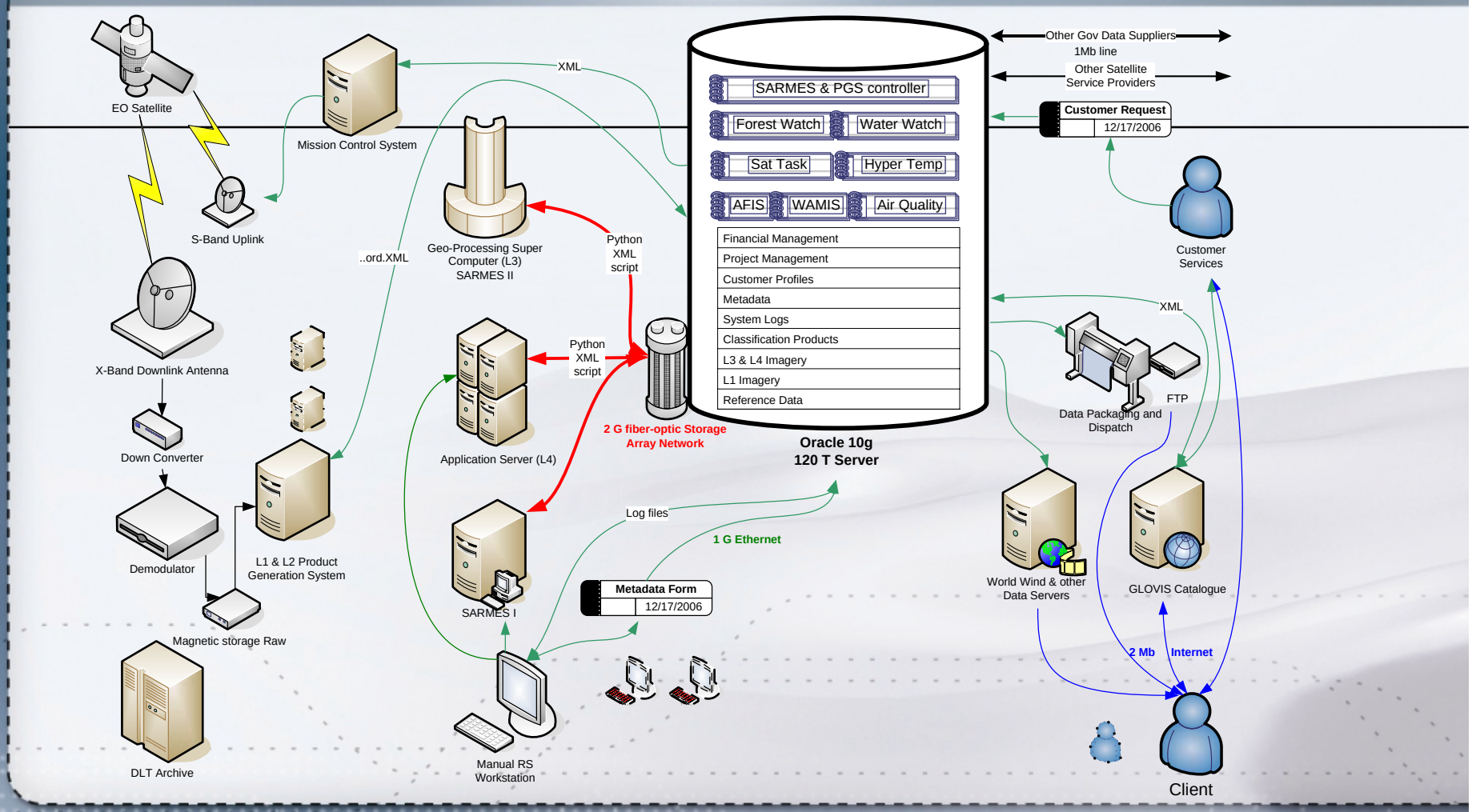
# Phase 1: Earth Observation Data Centre Architecture (EODC)



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## Wide Area Monitoring

- Regional surveillance of the African sub-continent
- Serve the following GEOSS societal benefit areas:
  - Climate change
  - Disaster management
  - Sustainable agriculture
- Operational applications:
  - Advanced Fire Information System (AFIS)
- Planned applications
  - Vegetation Condition Assessment
  - Flood Mapping Tool

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## Land Cover Change Analysis

- Development of sensor- and scale- independent land cover mapping tool
- Emphasis on fully automating the land cover mapping process using Artificial Intelligence (AI) techniques
- Include temporal and contextual analysis in classification process

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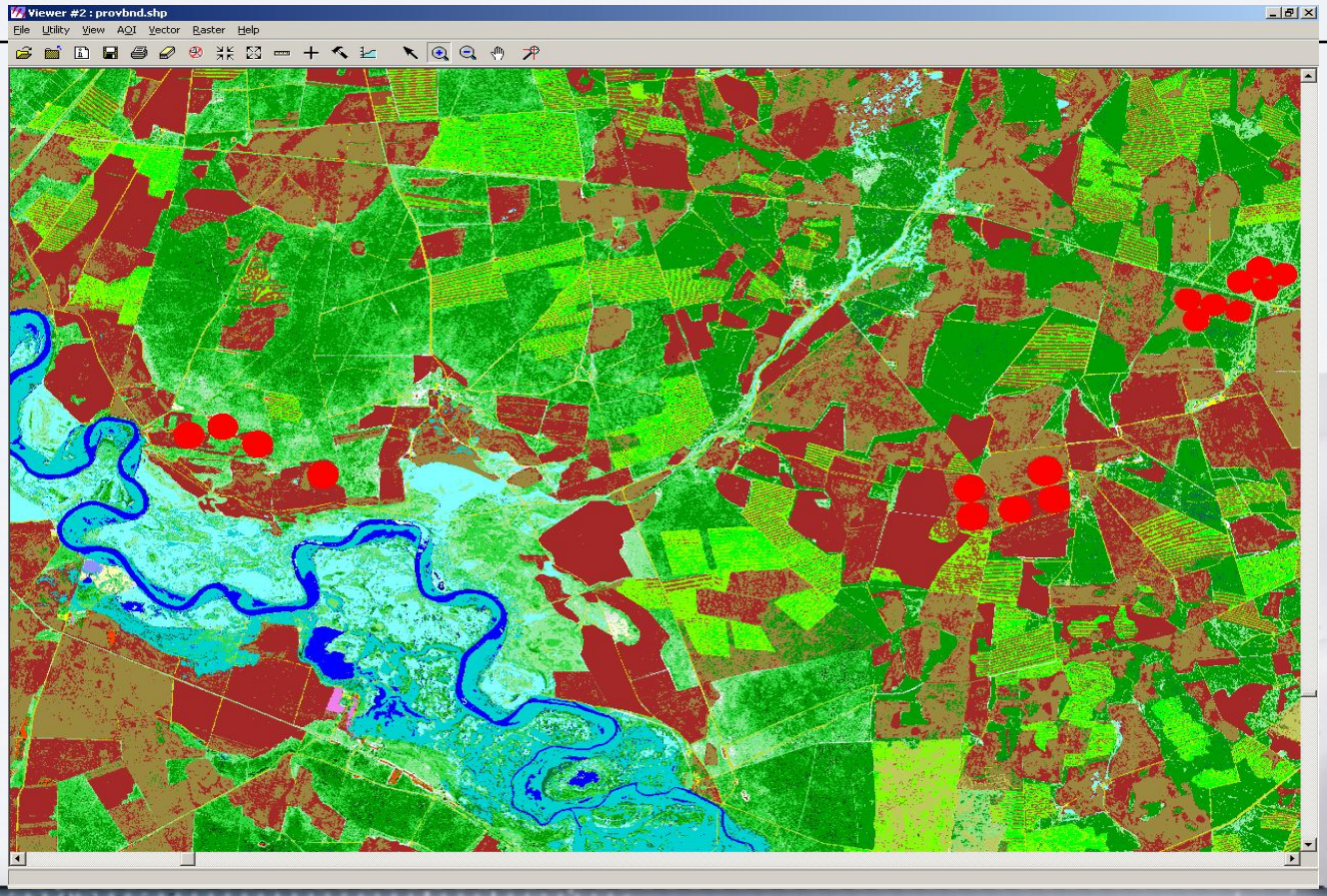
# Land Cover with SPOT 5



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# Field demarcation for crop yield estimates

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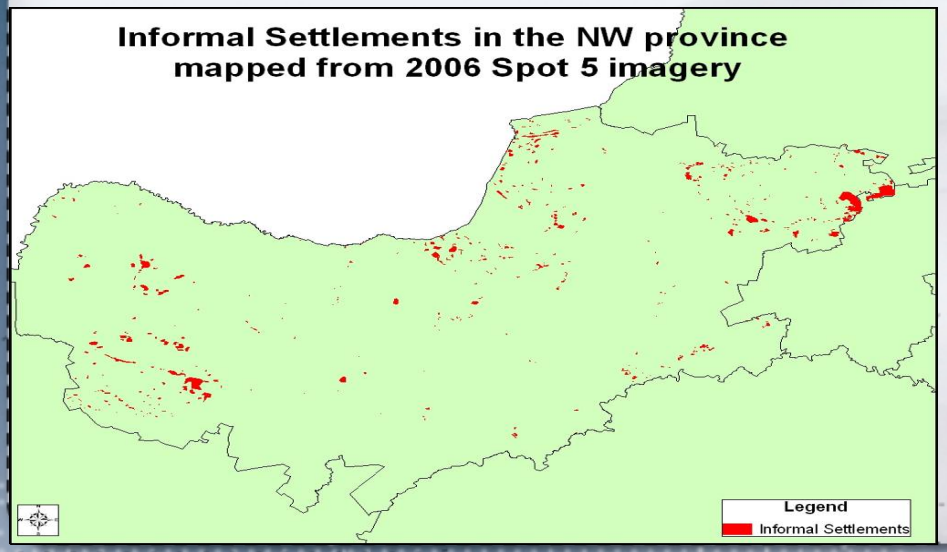

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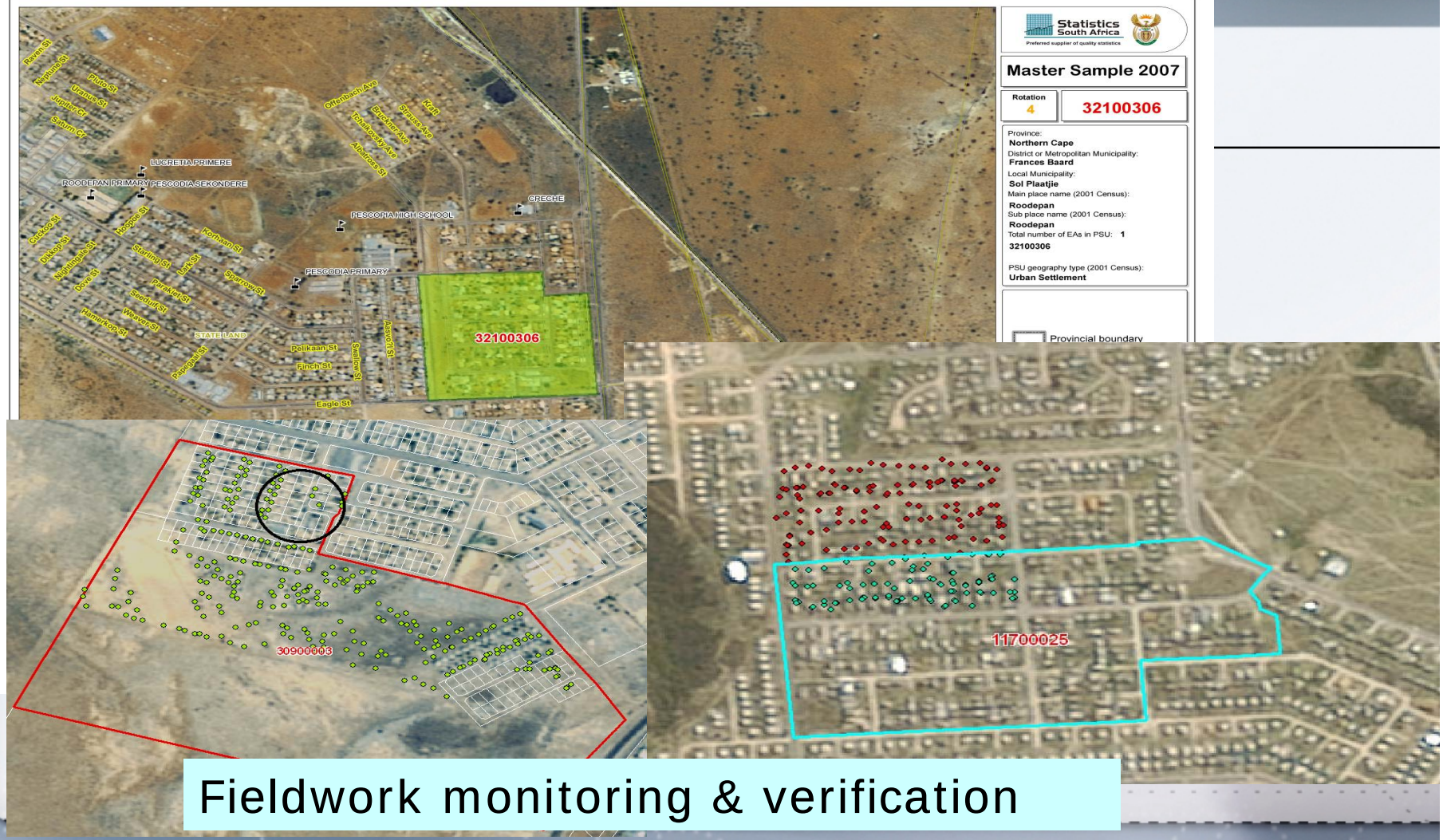


Fieldwork monitoring & verification

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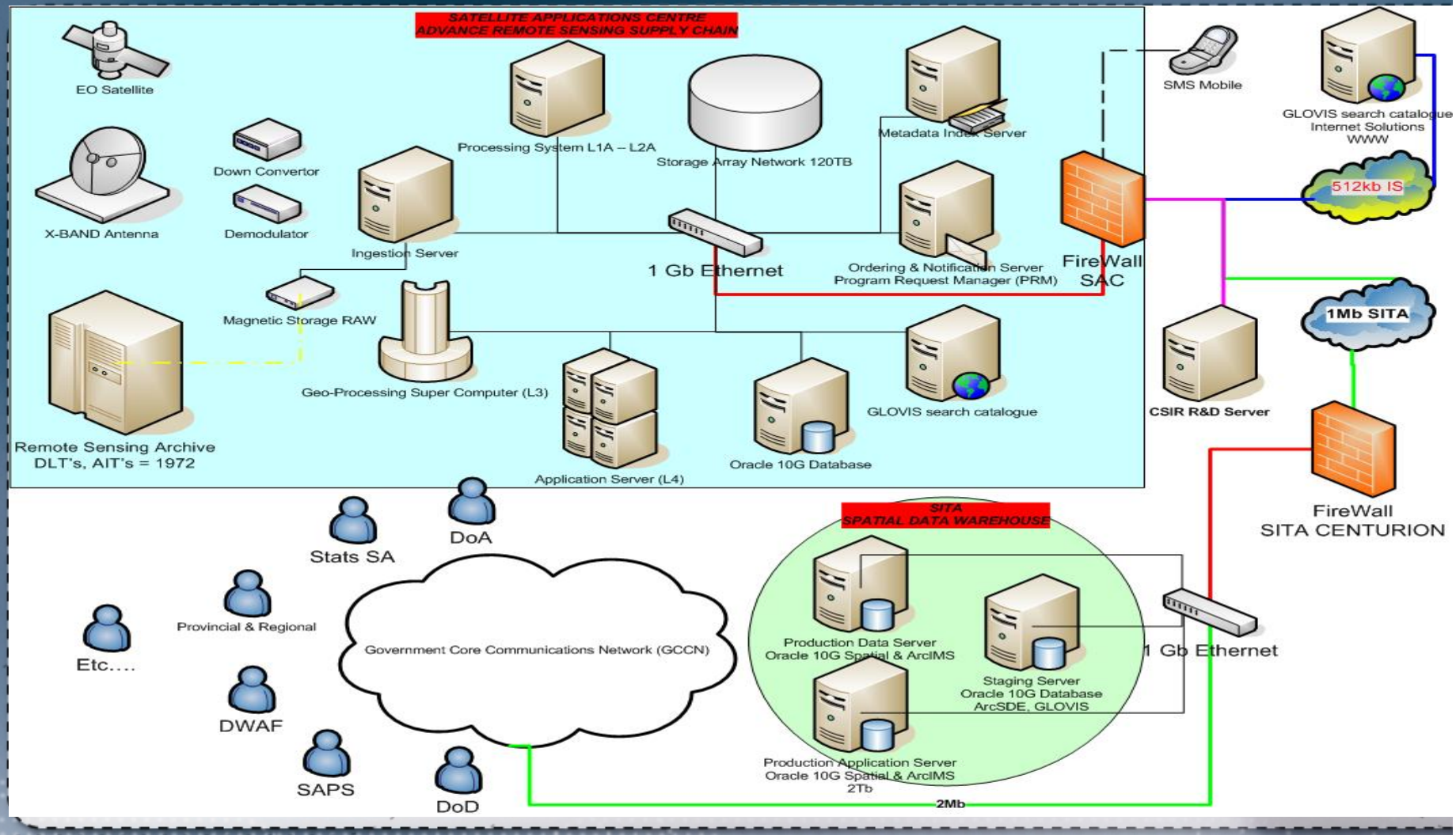
# SAEOS Architecture



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# Thank You