

# WALSAIP Visual Terrain Explorer

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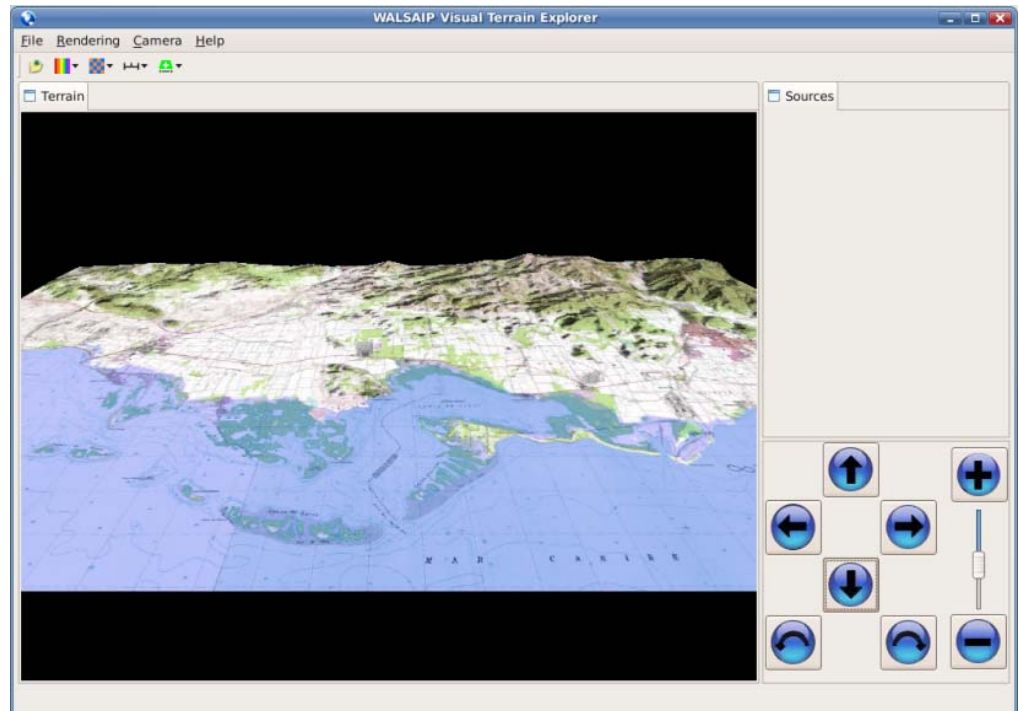
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# WALSAIP-Visual Terrain Explorer

- A terrain visualization tool which will integrate diverse data acquired through remote sensing techniques in order to complement environmental monitoring and analysis.



# Data Management for Scalable Terrain Rendering

- **Level-of-detail** allow improved rendering by regulating the amount of detail used during the rendering.
- **Out-of-core operation** allow working with data sets that surpass main memory capacity.
- **Data streaming techniques** allow working with data sets that surpass disk storage capacity.



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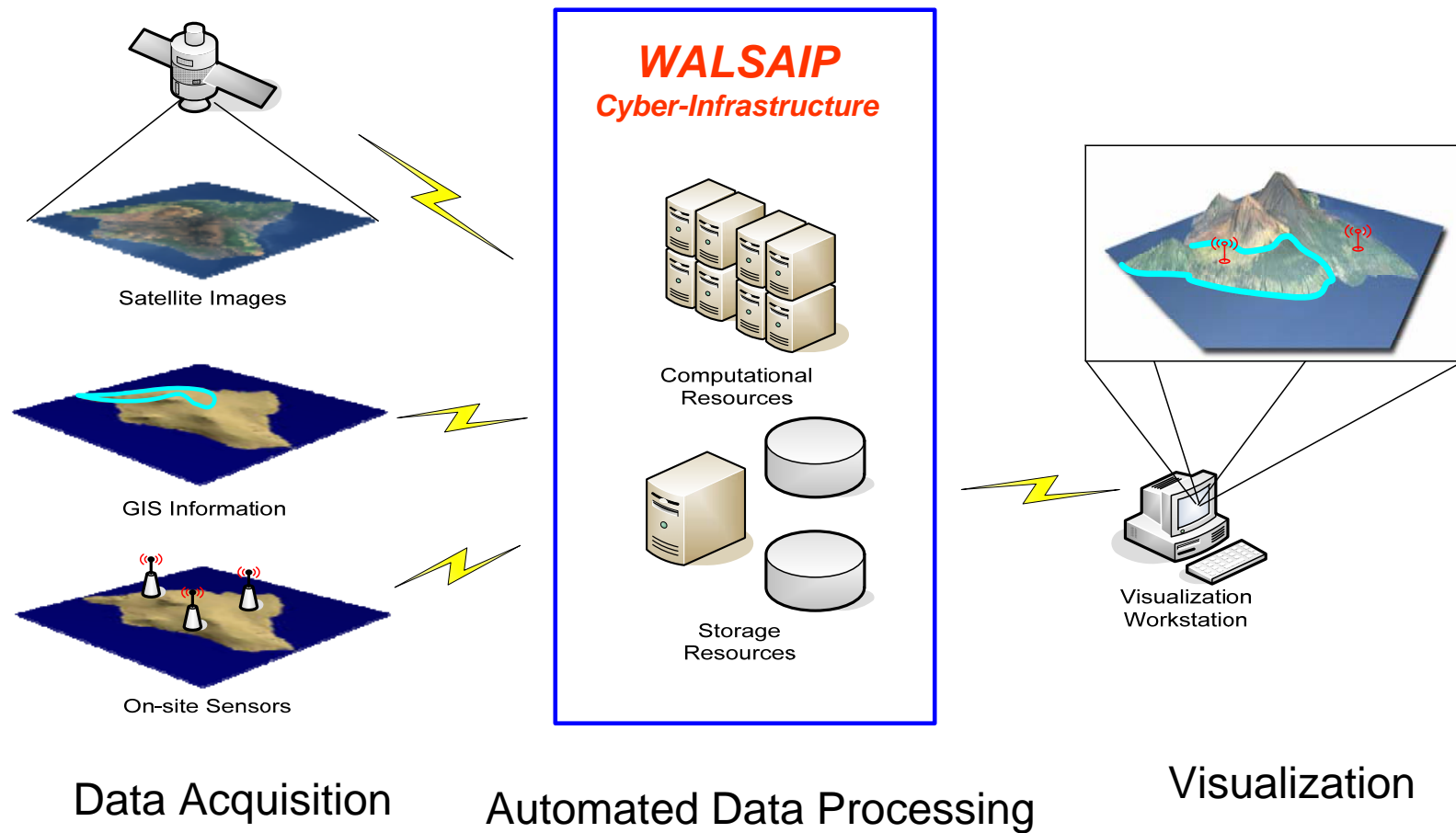


# Technology and Implementation

- Implementation based on **Java** using **Eclipse Rich-Client Platform** and **OpenGL** for cross-platform deployment with hardware accelerated rendering.
- Current Implementation Supports:
  - Multiple data formats
  - Level-of-Detail management.
  - Out-of-core operation (currently in development)



# Conceptual Model



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