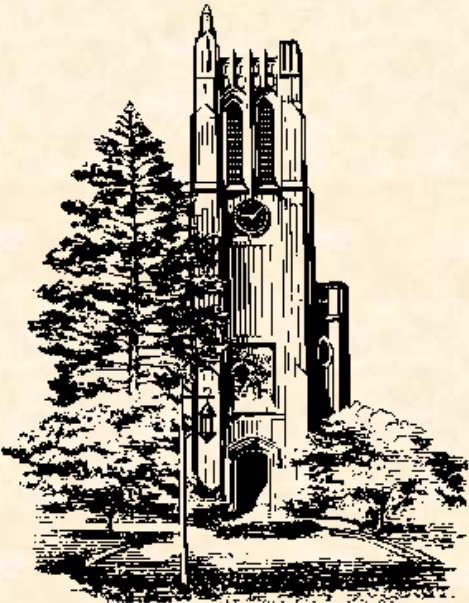# Technical Specification / Schedule FlightViz 2007

Team #3: Boeing
CSE 498, Collaborative Design

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Spring 2007

Project Overview

- Improve upon FlightViz 2006
  – Add New Application: top down Master Viewer of network simulation data
  – Support simulation of more models: tanks, missile, etc…
  – Beautify the simulation
  – Increase performance
  – Support HLA architecture
  – Add functionally to current DIS network
  – Error handling

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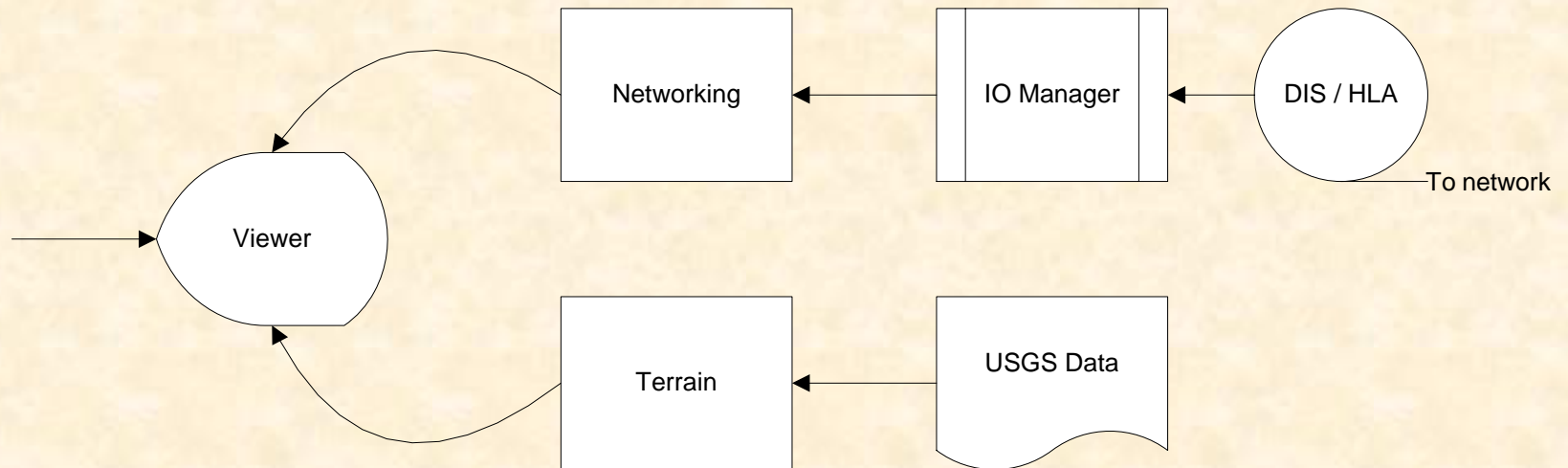
Architecture Components

- Hardware Platforms
  - Windows based machines
- Software Platforms / Technologies
  - C#
  - Visual Studio .NET 2005
  - Direct X 9.0c
  - .Net Framework 2.0
  - Higher Level Architecture (HLA)
  - Distributive Interactive Simulation (DIS)

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Architecture Illustrated

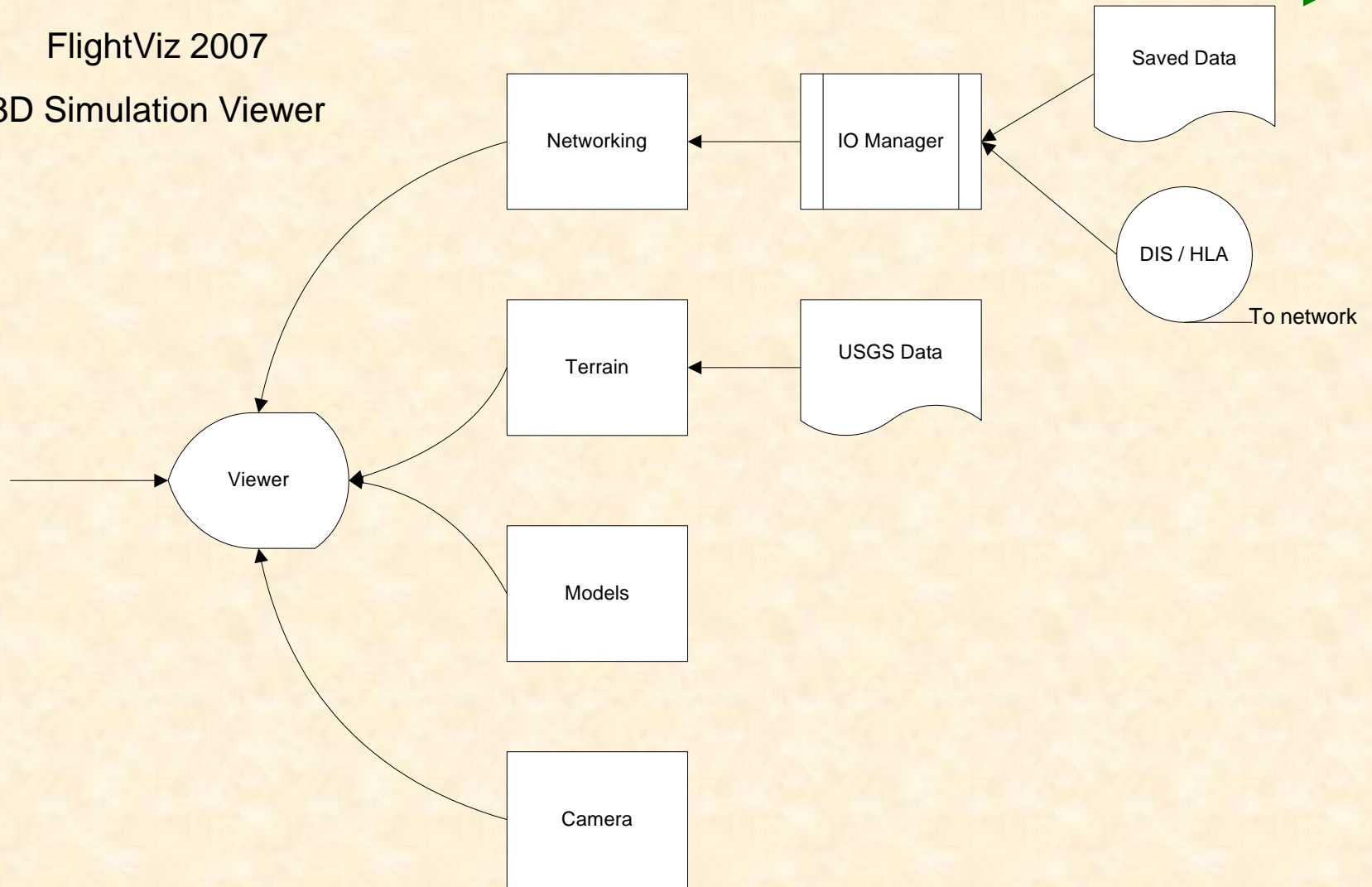FlightViz 2007

Master Viewer

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Architecture Illustrated

FlightViz 2007

3D Simulation Viewer

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Architecture Risks

- Implementation of HLA
  - Different than DIS, will be easier with restructuring of code
- Restructuring of FlightViz 2006 code
  - Creates delays in project schedule
- Beautify simulation while increasing performance
  - Adversely impact each other
- Master Viewer
  - Dependency on restructuring of code

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Project Schedule

1. **Develop Understanding of Project History**

    Goal: familiarize and review FlightViz 2006 & HLA

    Date: 01/16/07

2. **Design**

    Goal: produce charts and diagrams of all new architecture

    Date: 01/22/07

3. **Scheduling**

    Goal: detailed schedule of production goals

    Date: 01/29/07

4. **Restructuring Code**

    Goal: Have completed restructuring FlightViz 2006 code

    Date: 02/02/07

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Project Schedule

5. Master Viewer Prototype

    Goal: Have 50-70% completion of prototype goals

    Date: 02/08/07

6. Model Support

    Goal: Implement new models in basic forms

    Date: 02/08/07

7. Benchmarking Progress

    Goal: Have ~50% completion of prototype

    Date: 02/12/07

8. Prototype

    Goal: Working version of prototype in some form

    Date: 02/19/07

Project Schedule

9. Project Video

     Goal: Project Overview Video for FlightViz 2007

     Date: 04/12/07

10. Documentation

     Goal: Complete Manual for FlightViz 2007

     Date: 04/26/07

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