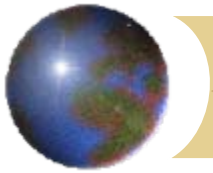


Regional Transportation District

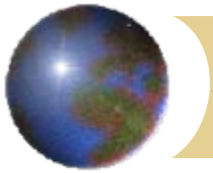
GIS Data Server

Dan Jackson – Idea Integration



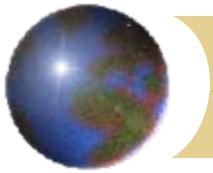
Overview

- Introduction/History
- Goals
 - Enhance RTD's mission "Providing public transportation"
 - Distribute Accurate and Current Information
 - Educate Internal User Base



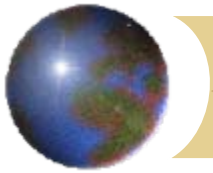
Business Case Needs

- Track buses spatially in real time
- Spatially visualize routes and stops
- Query and report on feature attributes
- Geocode customer addresses
- Overlay Director District boundaries



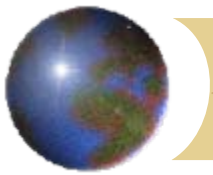
Methodology

- Conduct Needs Assessment
- Acquire the appropriate Hardware, Software and Data
- Design and Development the Database
- Develop/Customization Applications
- Promote GIS Awareness – “*Training*”



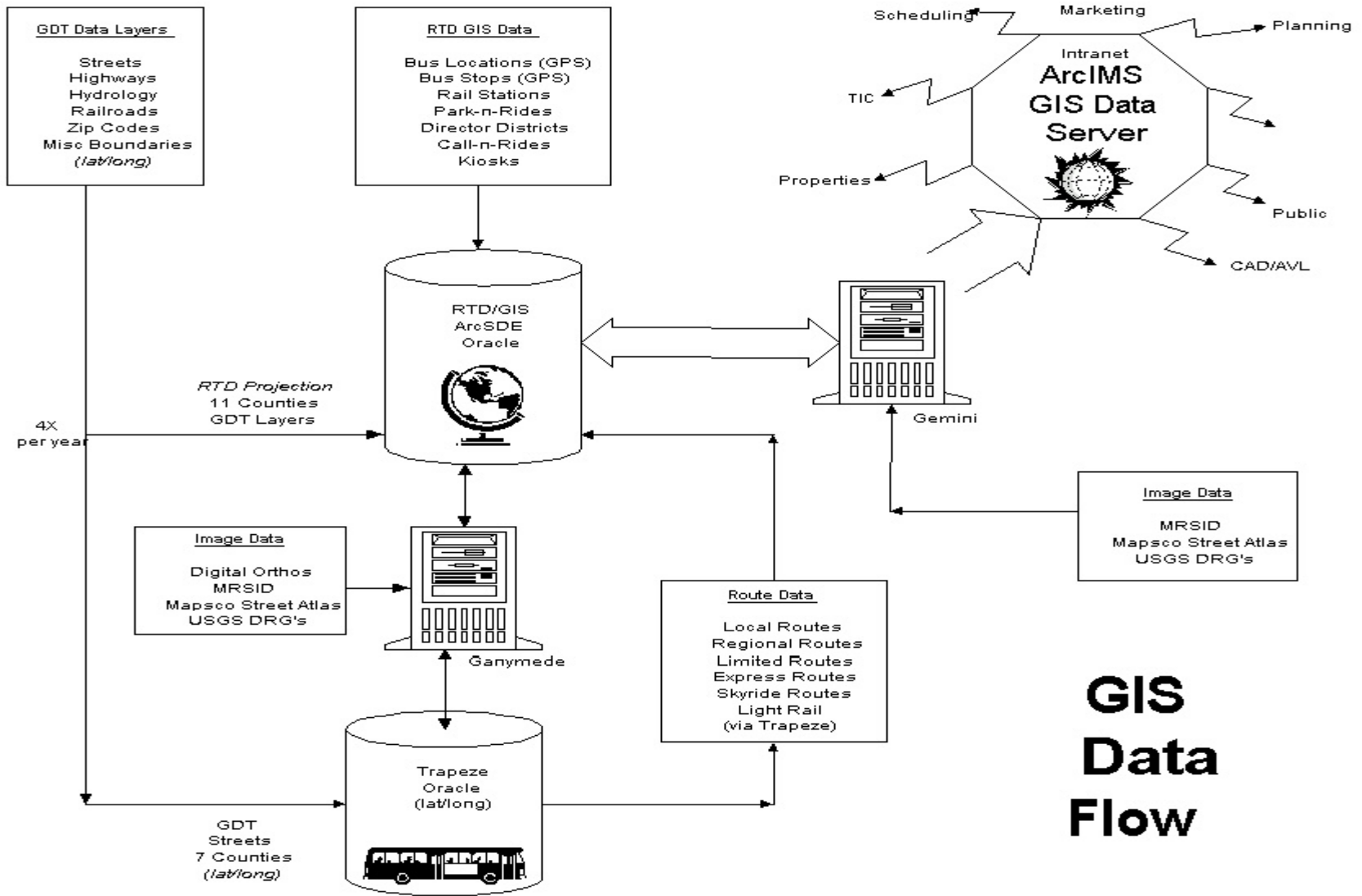
External Data Sources

- Street Centerlines: GDT (Quarterly)
- Digital Orthos: Pixxures (Bi-Annual)
- Street Atlas Imagery: MapsCo (Annual)
- Topography/DRG: USGS
- Misc Boundaries/Basemap: GDT

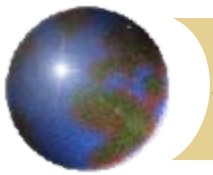


Internal Data

- Bus Locations – GPS receivers on buses
- Bus Stops – GPS (Fall 2002)
- Bus Routes – Exported Quarterly from Internal software & snapped to GDT
- Director Districts – (Spring 2002)
- Park-n-Rides, Kiosk locations
- Light Rail/Rail Stations

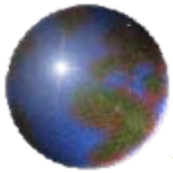


GIS Data Flow

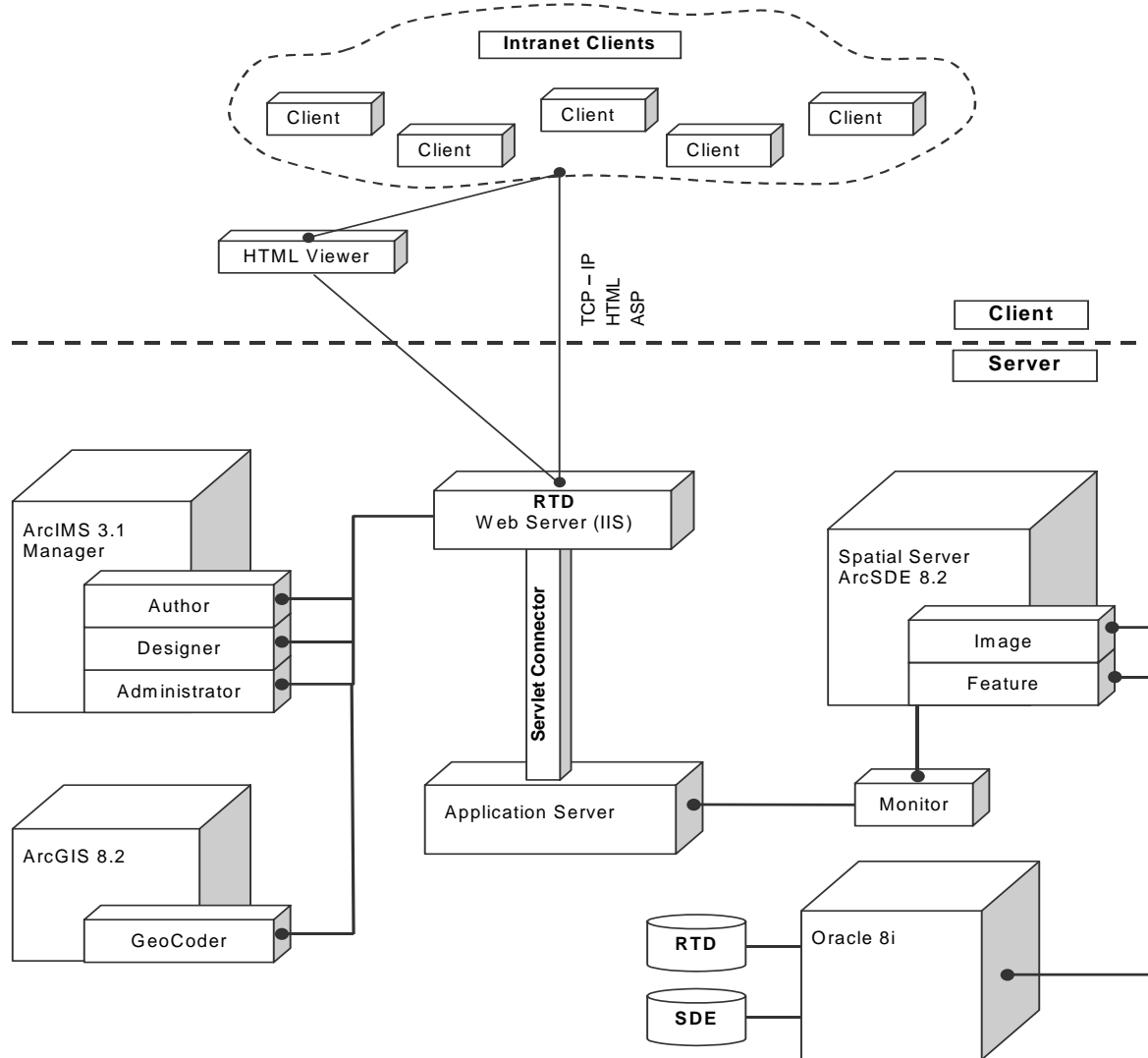


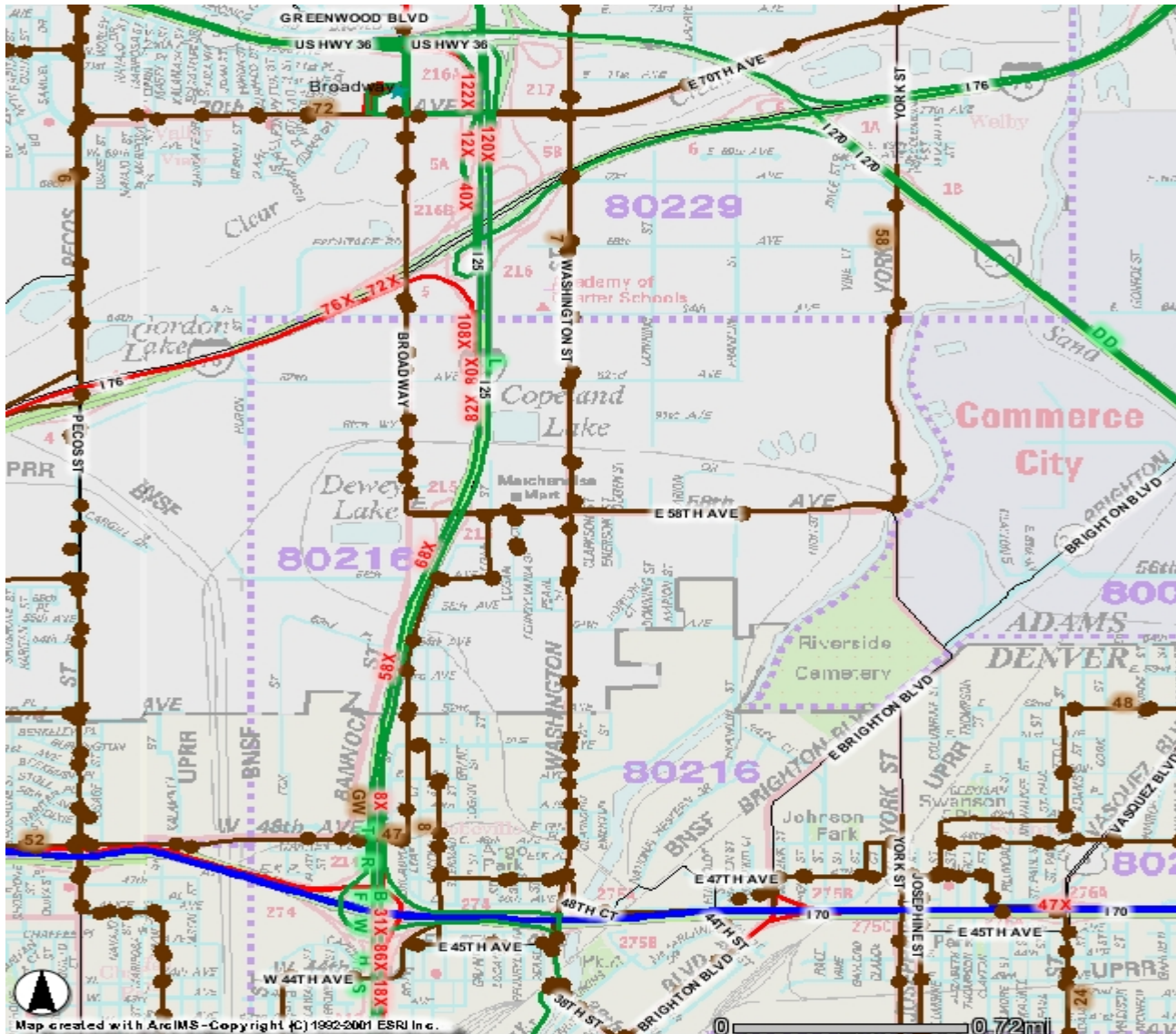
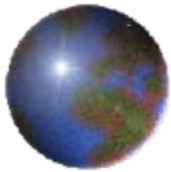
Architecture

- ArcIMS 3.1
- NT 4.0 Server: Using IIS & ServletExec
- HTML and JavaScript
- Oracle 8i
- ArcSDE 8.2
- ArcGIS 8.2



GIS Data Server Design





Map created with ArcIMS - Copyright (C) 1992-2001 ESRI Inc.