EPA Region 7 Site Mapper

An ArcView 3.1

Mapping Application Built with

Dialog Designer

EPA United States Environmental Protection Agency

Region 7

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Iowa - Kansas - Missouri - Nebraska

Affiliated Computer Services, Inc.

- EPA Region 7 Contractor
- www.acs-gsg.com
- Providing GIS Support
- Primary Software Used
  - Arc/INFO
  - ArcView 3.x

Operating Systems

- ArcView 3.1 on PC - Windows95
- Arc/INFO 7.2.1 on UNIX
- SAMBA software to connect PCs to UNIX servers
- NT is coming

In the Beginning...

- There was CERCLA Site Mapper
  - expanded to be more universal
- No dialogs
  - multiple message boxes
- Slow draw time
  - All themes were loaded each time a site was selected
- Improvements were needed!

Site Mapper was Born

- Promote GIS within EPA Region 7
- Connect people to GIS data
- Provide EPA personnel with a mapping tool
  - Little training required
  - No GIS experience needed

Why was Dialog Designer Used?

- Site Mapper needed customized dialogs
  - simplicity
  - task specific
- Already part of ArcView (extensions)

Sample Site Mapper Session

Open Extensions Dialog

Select EPA R7 Site Mapper

Open EPA Region7 Site Selection Tool

EPA Region 7 Site Selection Tool

EPA Region 7 Facility Selection Tool

Continue Mapping

Initial View

EPA R7 Site Mapper Theme Manager

Themes Are Added to View

Lessons Learned

- Trial and ~~airer~~, ~~errur~~, ERROR!
- Script Management
- Object Management
  - object tags
  - views
  - layouts
- Data Management
- Growth Capability

Script Management

- Naming scripts used in extensions
  - Sitemapr.WhatEver
- Dialog Script Names
  - Sitemapr.SMD1.Open
- Be Consistent
  - Script format

Problems Encountered

- Theme Symbol Management
- Slow Draw Time
- Geographic Convertor Tool
  - customized dialog
  - developed from user need

Theme Symbol Management

- Scripting theme symbols proved difficult
- Used individual symbol ODBs
- ODB - Object Database file
  - had to be read each time a view was created
- Produced Master Symbol ODB
  - read once when extension is loaded
  - sets global variables for each programmed theme
- Has worked with no problems

Steps for Symbolization

1. Create individual symbol ODB file.
2. Add theme name and ODB file to Master ODB script.
3. Read Master ODB file.
4. Set global variables for each symbol.
5. Other scripts that create themes access these variables.

NOTE: Required 3 short scripts.

Theme Manager Developed

Geographic Convertor Tool

GCT Continued

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