

Project Setup with Python

ESRI User Conference

July 15, 2014

Introduction

- Developed to meet needs of JBR Environmental Consultants
- In May 2014, JBR Environmental Consultants was acquired by Stantec Consulting

The Problem & The Solution

- Problem: Lack of consistency due to a large variety of projects and multiple users
- Solution: Create an easy to use tool to standardize project data structure

Requirements

- Capture the following information:
 - Project name
 - Project location
 - Client
 - Map author
 - Project manager
 - GIS lead
 - Project number

Building the Tool

- Use WX Python module to create Graphic User Interface (GUI)
 - Use text inputs, drop downs, and check boxes to capture required information
 - Use button to run tool

Project Builder Tool



GIS Project - Directory Builder - Version 2.7.1

Project name:

Project location:

Choose existing client:

Or enter new client name:

Map author:

Project manager:

GIS lead:

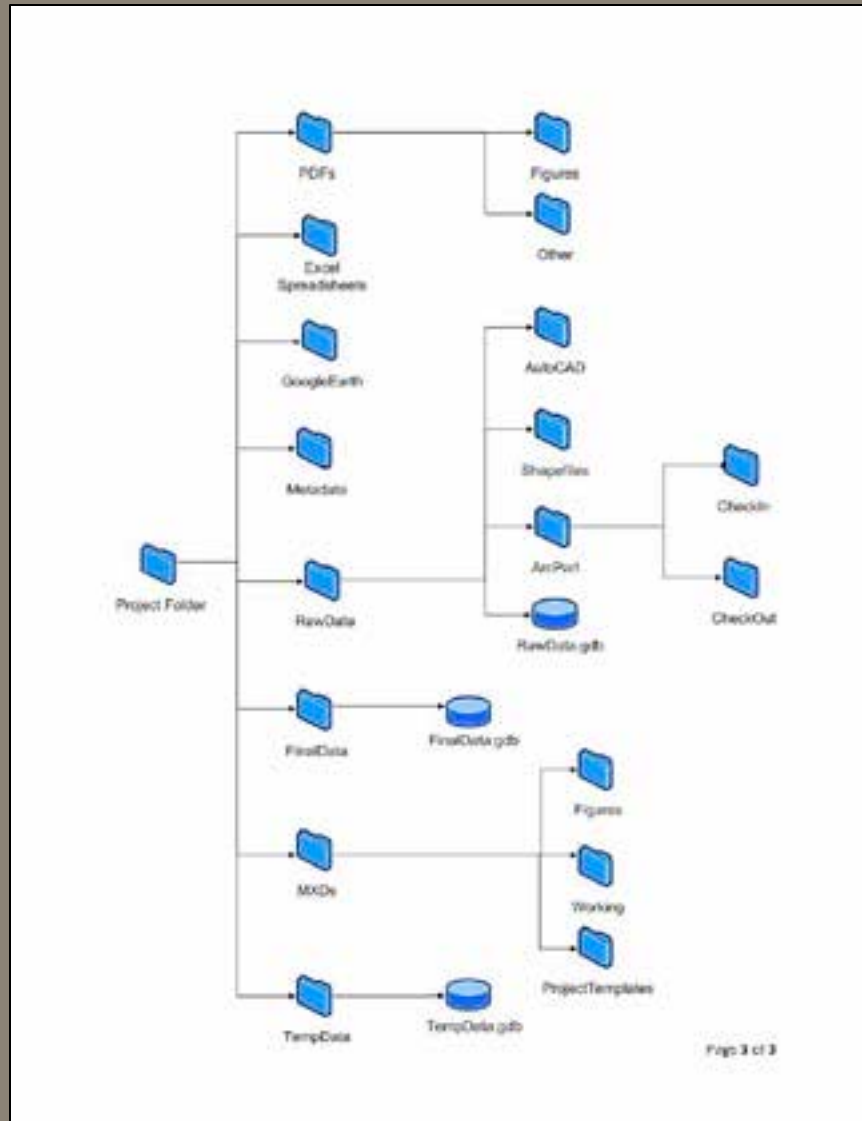
Project number:

Map projection:

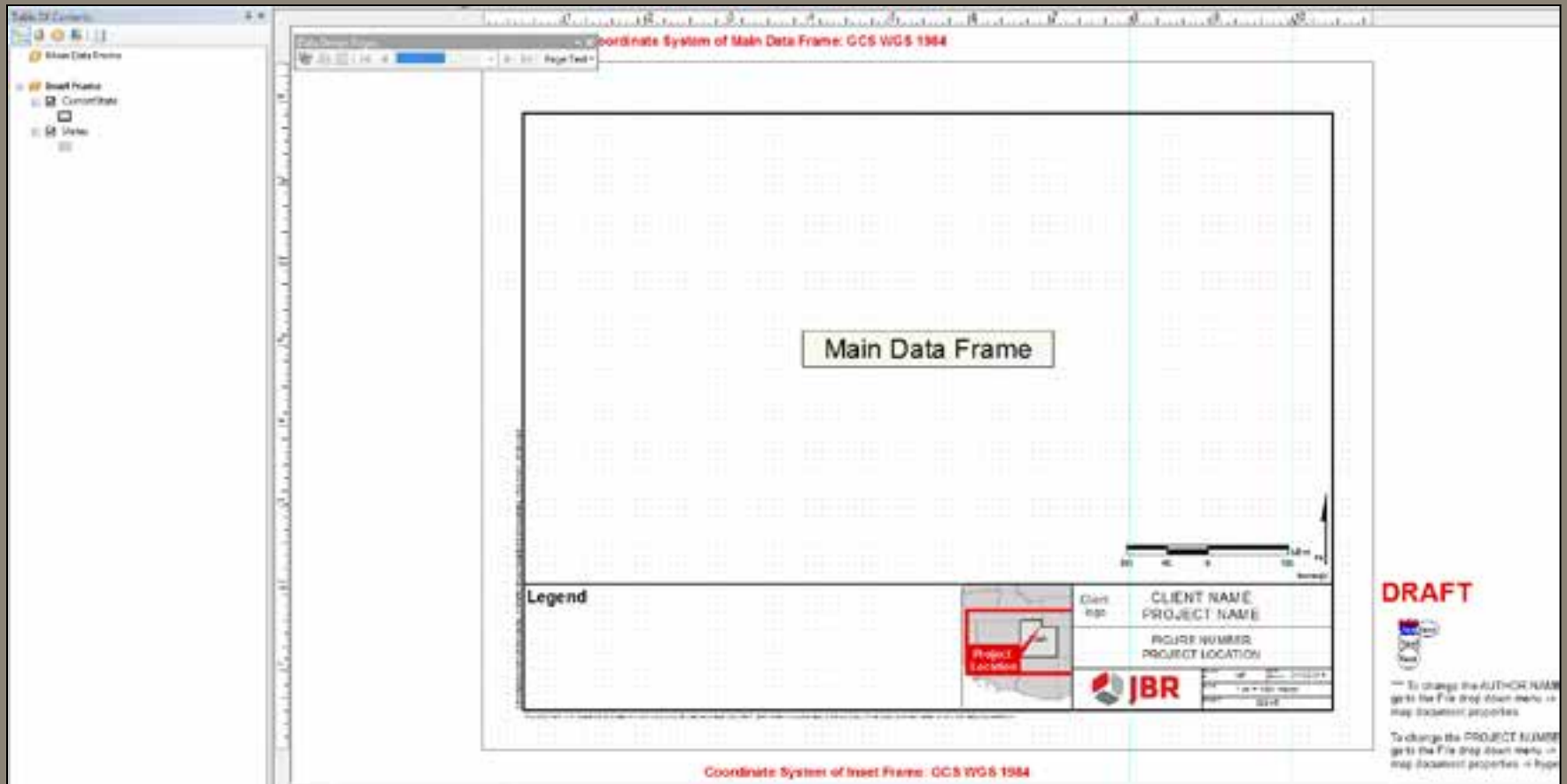
What does it do?

- Creates uniform folder structure to organize map documents, database, and other documents
- Create map templates with metadata
- Capture important project information and record it

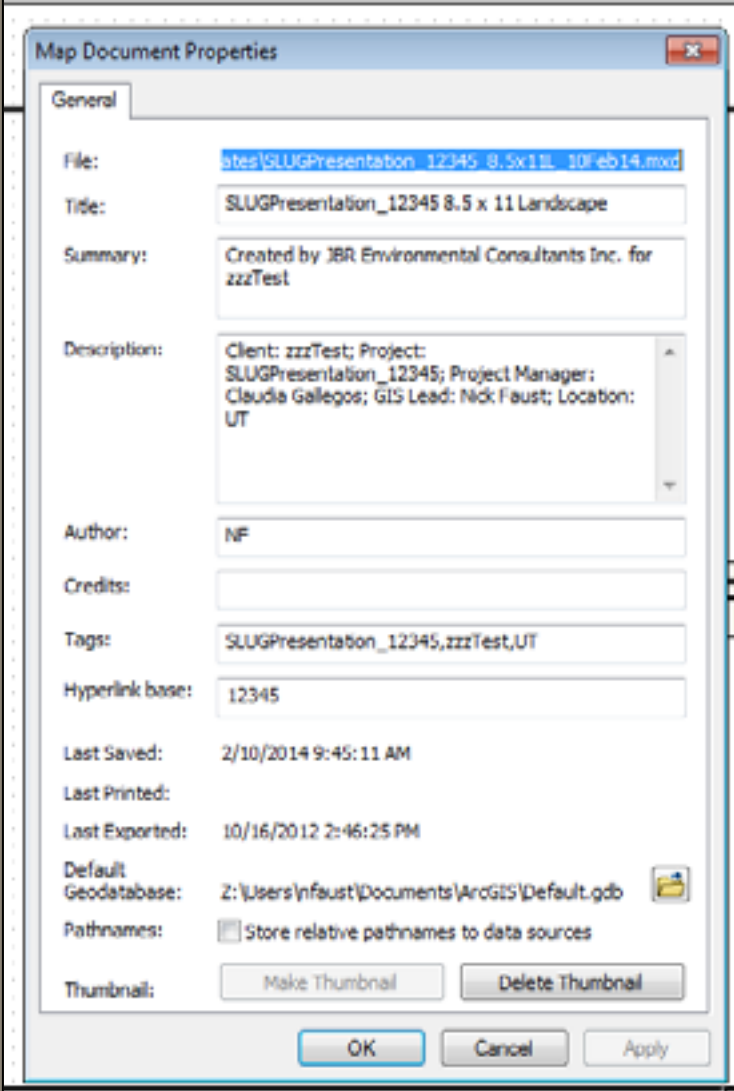
What does it do?



What does it do?



What does it do?



The screenshot shows the 'Map Document Properties' dialog box with the 'General' tab selected. The fields are as follows:

- File:** `ztes\SLUGPresentation_12345_8.5x11L_10Feb14.mxd`
- Title:** SLUGPresentation_12345 8.5 x 11 Landscape
- Summary:** Created by JBR Environmental Consultants Inc. for zzzTest
- Description:** Client: zzzTest; Project: SLUGPresentation_12345; Project Manager: Claudia Gallegos; GIS Lead: Nick Faust; Location: UT
- Author:** NF
- Credits:** (empty)
- Tags:** SLUGPresentation_12345,zzzTest,UT
- Hyperlink base:** 12345
- Last Saved:** 2/10/2014 9:45:11 AM
- Last Printed:** (empty)
- Last Exported:** 10/16/2012 2:46:25 PM
- Default Geodatabase:** Z:\Users\nfaust\Documents\ArcGIS\Default.gdb
- Pathnames:** Store relative pathnames to data sources
- Thumbnail:** Make Thumbnail, Delete Thumbnail

Buttons at the bottom: OK, Cancel, Apply.

Advantages

- Consistency
 - Easier to navigate
 - Everyone has same starting point
- Faster
- Easier

Questions?