Integrated Documentation and Visuals

Outlined in Powerpoint – but better than Powerpoint

Outline

- Problem statement and solution
- Example of integrated model development
 - Hickory, NC
- Example of application visualization
 - Virginia Beach, VA

The problems

- Models are complicated
 - Hard for lay person to understand results
 - Hard to document for future use
 - Version control is severely lacking
 - "Is this the right highway network?"

The solution

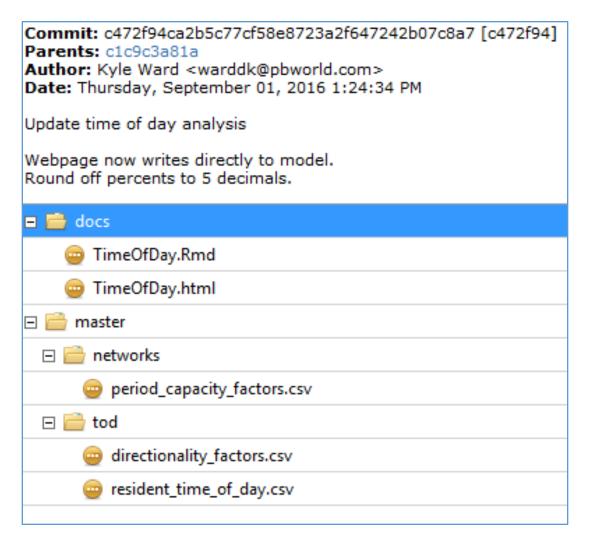
- Fully integrate:
 - Model
 - Documentation
 - Version control
- Create a model built from the ground up to leverage these tools

Hickory Model (under dev)

- Powerful development website
 - Seamless estimation and documentation platform
 - Model and Documentation changed at same time
 - E.g. <u>Time of Day or Production Rate</u>

- Version control (GitHub)
 - Central place for model
 - Easy to collaborate
 - Never ask if something is the right version again

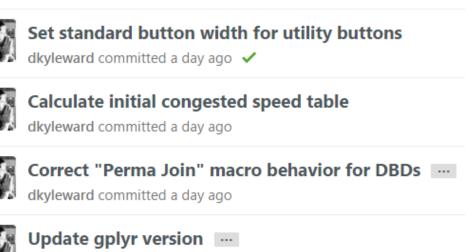
The commit heard around the ... office



- When the Hickory model became fully integrated
- A single button click created
 - webpage
 - model input tables
- A second button click to commit

Transparency in development





Add utilities for pbars and stopwatches ---

dkyleward committed a day ago

dkyleward committed a day ago

2 src/gisdk/!Main.rsc		
$\Sigma_{\overline{\Phi}}^{\overline{\Phi}}$		@@ -359,7 +359,7 @@ dBox "Main" location: x, y
359	359	
360	360	Tab Prompt: "Utilities"
361	361	
362		- button 1, 1 Prompt:"Clear Workspace" do
	362	+ button 1, 1, 15 Prompt: "Clear Workspace" do
363	363	RunMacro("Close All")
364	364	RunMacro("Destroy Progress Bars")
365	365	RunMacro("Destroy Stopwatches")

Application Example - VA

- Analysis of Southeast Parkway and Greenbelt
- Model not fully integrated
- Still able to produce powerful products
- Delivered as simple email attachment



Summary

- Stop building models the way its always been done
- The latest tools are amazing for our field
 - Did I mention free?

Make models fun not frustrating

Thank you!

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