WEB APP BUILDER FOR DATA EDITING & BICYCLE INFRASTRUCTURE PLANNING

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BUILDING GIS DATA CREATION/EDITING APPS FOR PEOPLE WITHOUT TRADITIONAL GIS

BACKGROUND

• Goal is to make applications as simple & user friendly as possible while providing high functionality.
• Applications should provide users with a ‘guiding hand’ to help accomplish workflows.
• Removing excess
• Create framework for the data and applications, let the user do the rest.
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BACKGROUND

• Real-world projects can be well represented in GIS. But as an app creator I often have little insight into the status of those projects, or specifically what needs to be tracked within the data.

• Important to work closely with the user to identify needs.

• Build application based on needs.
COMPONENTS OF A GIS DATA EDITING APPLICATION

The Data

• How is the data to be used?

• Working with the user to build a carefully curated data schema.

• Data type: how to best represent the data the user will be working with.

• If necessary, giving users privileges to create their own feature services.
COMPONENTS OF A GIS DATA EDITING APPLICATION

The Web Map

• What data to include within the web map?
  • Editable data that the user manages/modifies
  • Non-editable data that serves as a reference to help users accomplish their workflows.

• How to best present the data?
  • Symbology
  • Pop-ups
  • Arcade can be used to control these
COMPONENTS OF A GIS DATA EDITING APPLICATION

The Web App Builder Application

• How does user interact with the data? What is the intended purpose of the application?

• Hiding excess.

• Include tools to help users manage and explore data.
  • Search bar
  • Filter
  • Editor
  • Smart Editor
  • Batch Editor
  • Basemap Gallery
  • Measurement Tool
  • Bookmark Tool
BENEFITS OF PUTTING GIS DATA CREATION IN THE HANDS OF THE USERS

• Can replace antiquated ways of managing data.
• Users often have more intimate knowledge of the data/projects.
• Can easily propagate data to other applications.