

ArcGIS Pro Tasks: An Introduction

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SEE WHAT OTHERS CAN'T

Poll

- How many are using ArcGIS Pro
- How many are using Tasks



Create New Building Workflow

Locate work area

 By address or subdivision name



Select subdivision

Copy the subdivision name



Create new buildings

• Create more than one



Attribute new buildings

 Paste the subdivision name, populate attributes



Save edits

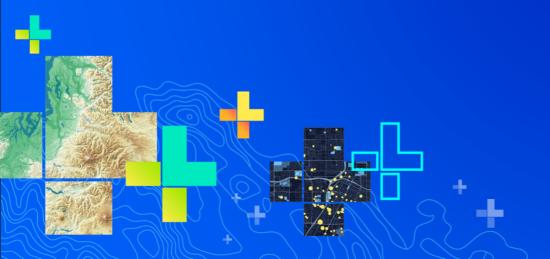
 Never forget to save edits





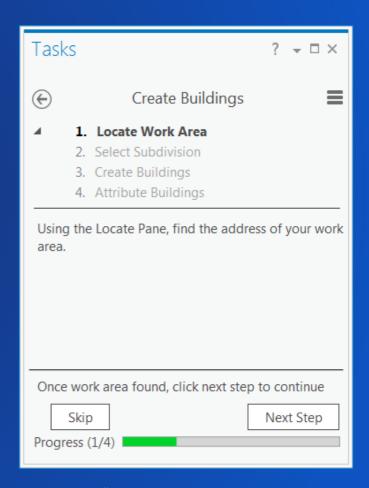
Demo: Create new building workflow

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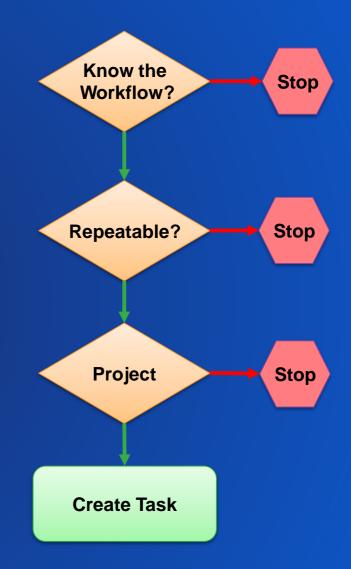
What is a task?

- You can configure sequential steps that guide users through a repeatable workflow
- Tasks:
 - Used to guide and share knowledge
 - Are interactive
 - Improve efficiency
 - Improve quality
- Tasks use your (business) language
- Tasks are configurable



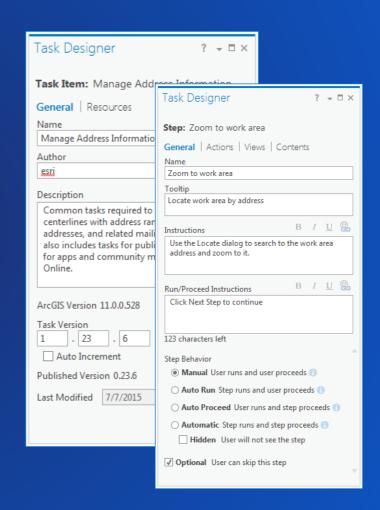
Design a task

- Know your business and workflows
- Repeatable workflows
- Know your project:
 - Maps
 - Layers
 - Tools
 - Add Ins
- Know your users:
 - Roles
 - License level / extensions
 - Permissions
 - Environment



Create a task

- Tasks are created in task items
 - Task items are saved with the project
- Run the workflow before creating the task
- Tasks are configured using the Task Designer pane
 - Create a new task item
 - Create a task
 - Add and configure task steps
- Add descriptions, instructions and help links



Create a task step

General Actions View Content Open/Close Maps, Layer Settings: Command or Instructions Scenes, Layouts - Visible GP tool or - Selectable Get Attributes - Editable Set Active Map Step behavior - Snapable Manage Selections - Select Layer - Labels Link Views Copy / Calculate Attributes **Snapping Management**

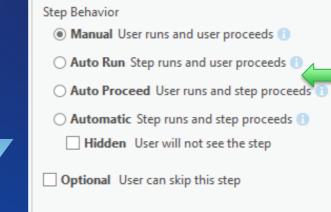
Verification

4

Step behavior

Define how a step moves to the next step

- Manual click to start and click to proceed
 - 2 mouse clicks
- Auto Run / Auto proceed click to start or to proceed
 - 1 mouse click
- Automatic step runs and proceeds
 - no mouse clicks



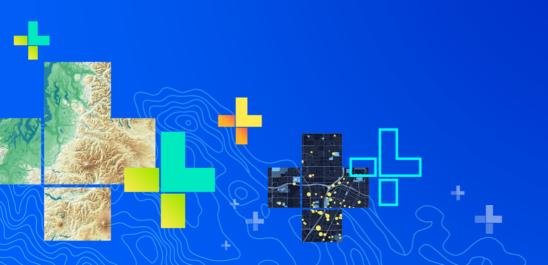
Task Designer ? → □ ×	
Step: Zoom to work area	
General Actions Views Contents	ı
Name	ı
Zoom to work area	ı
Tooltip	ı
Locate work area by address	ı
Instructions B I U 🕾	ı
Use the Locate dialog to search to the work area address and zoom to it.	
Run/Proceed Instructions B I U	ı
Click Next Step to continue	
123 characters left	
Step Behavior	١
 Manual User runs and user proceeds () 	ı
O Auto Run Step runs and user proceeds 1	
Auto Proceed User runs and step proceeds (1)	
Automatic Step runs and step proceeds (1)	
Hidden User will not see the step	
✓ Optional User can skip this step	

Behaviors



Demo: Create a task

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Create new building workflow – simplified version

Locate Work Area

 By address or Subdivision name



Select Subdivision

 Copy the Subdivision name



Create New Building

Make sure they don't overlap



Attribute New building

 Paste the subdivision name, populate attributes



Save Edits

 Never forget to save edits

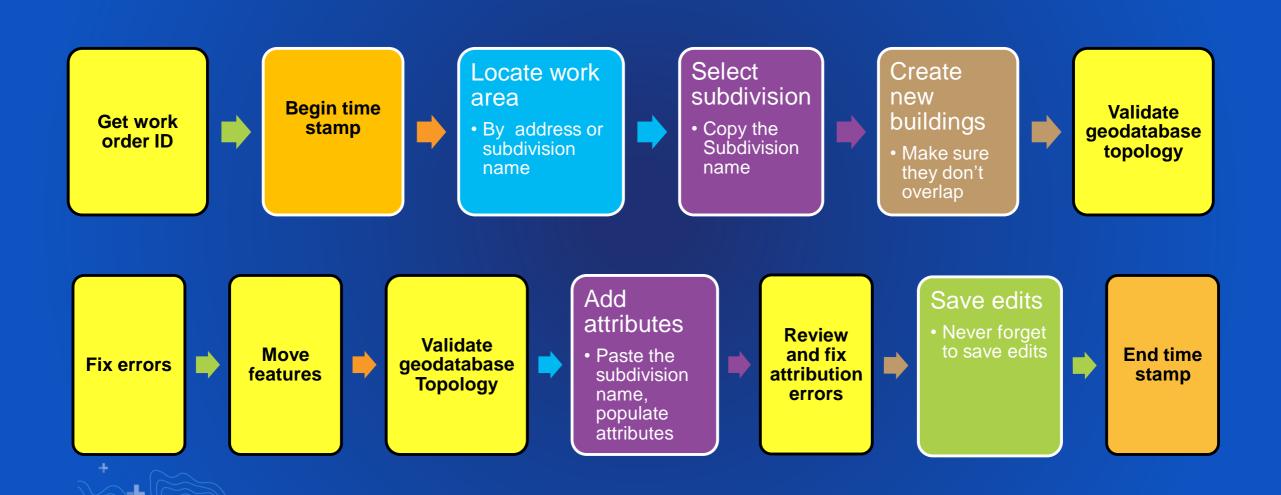


Common user errors

- Forgetting to update fields with attributes
- Adding incorrect attributes,
 - for example, typos in the subdivision name
- Selecting the wrong features
- Forgetting which features have already been created in the work order
- Reporting incorrect time-stamps (coffee breaks, emails...)



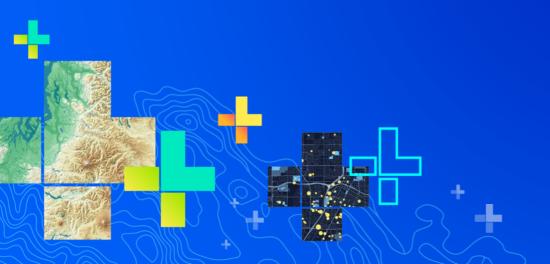
Create New Building Workflow – Real world version





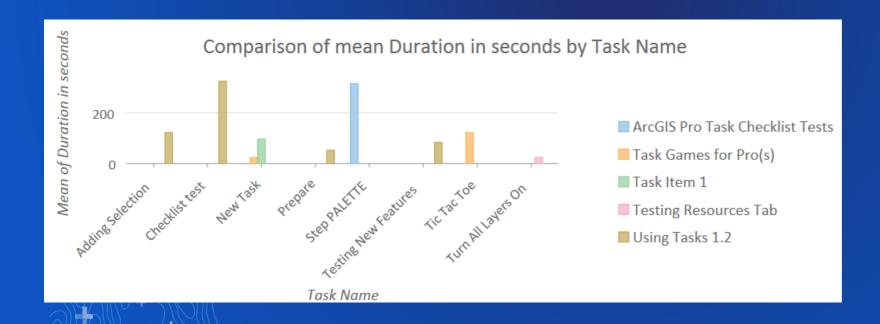
Demo: Enhanced task

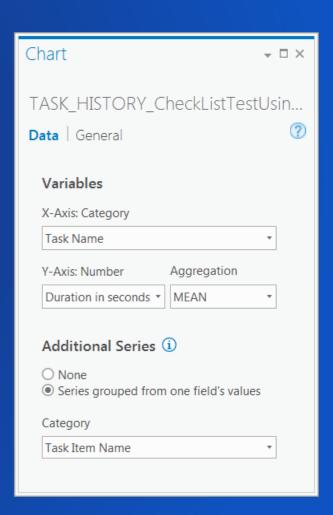
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Task history (metrics)

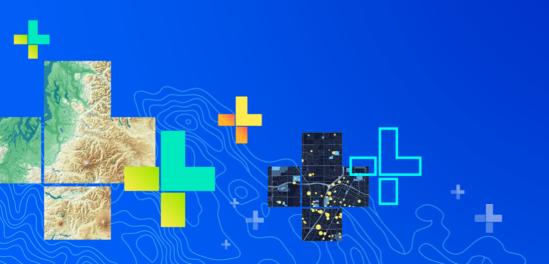
- Optional project setting (under project options)
- Measures duration of each task; idle time is filtered out
- Tip: visualize with charts





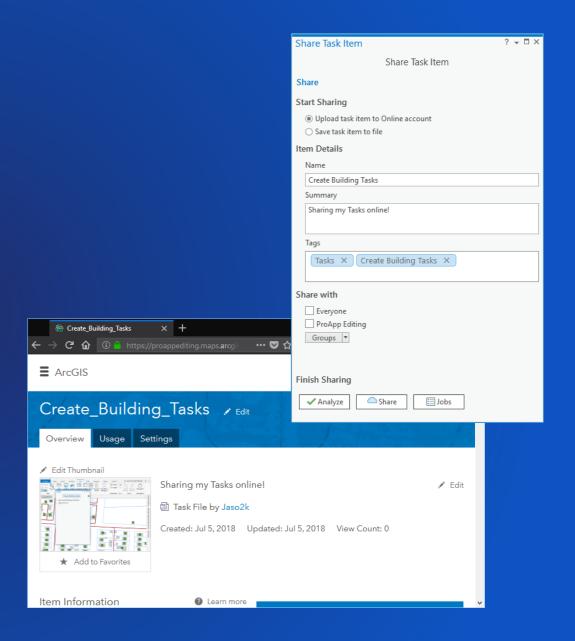
Demo: Task history

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Share tasks

- Recommended: Share as a project package
 - All resources (maps, layers, tools) are packaged and accessible
- Shared to your ArcGIS Online account
 - Share steps, guides, best practices
 - Use your own resources (maps layers, tools)
- Shared as an .esriTaskFile
- Tasks can be copied and pasted to other task items and projects



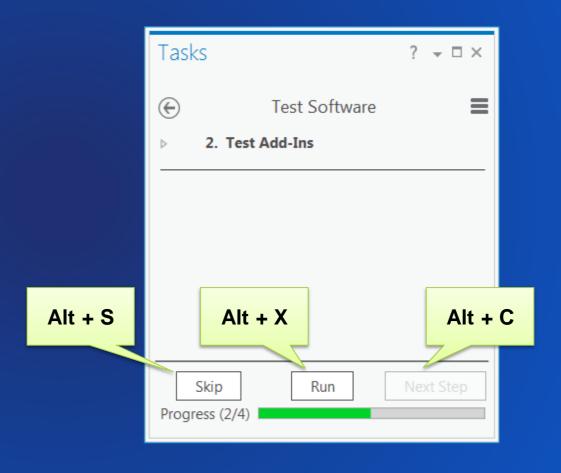


When NOT to use Tasks?

- A workflow that takes long time to execute (days)
- Task resources keep changing frequently: maps, layers, Geoprocessing tools
 - Workflow not stable yet
- Micro-management/workflow constraint tool
 - You can perform other actions while a task is running
- Does not replace Geoprocessing models:
 - Geoprocessing is used for <u>automation</u>
 - Tasks are interactive

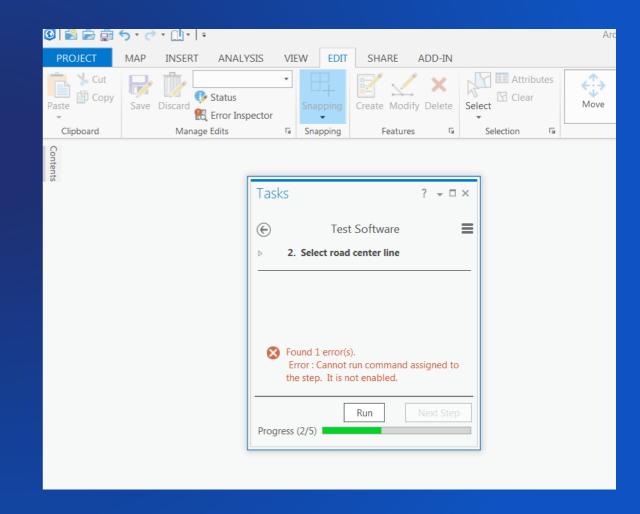


- Global shortcuts:
 - Alt X RUN ('eXecute')
 - Alt C NEXT STEP ('Countinue')
 - Alt S SKIP ('Skip')





- When a task fails...
 - Check if the command is enabled
 - Commands are contextual is the map view open?
- For example:
 - calling the select command without an active map view

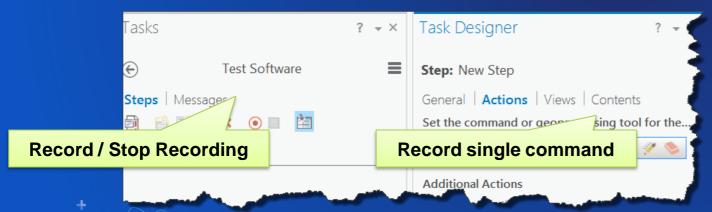


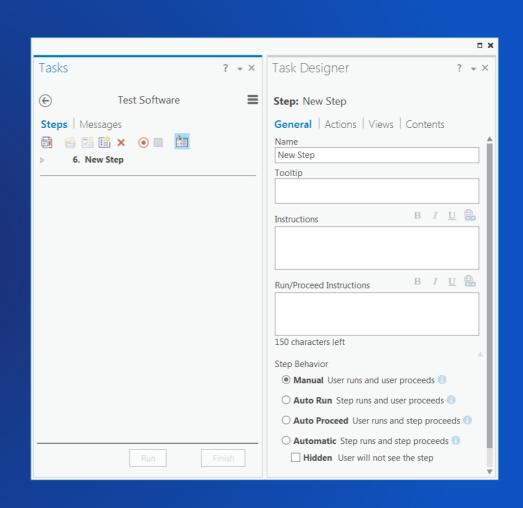


- Close panes
 - Tasks manages the panes
- Don't dock the task pane with other panes
 - Becomes hidden
- Other actions CAN be performed while running a task
- Leave nothing to chance, your users might:
 - Close maps
 - Turn layers off
 - Clear selections
 - Unselect layers

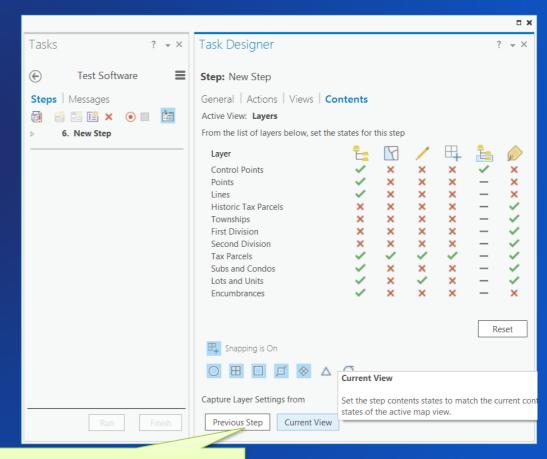


- When creating tasks
 - Dock the Tasks pane and Task Designer pane side by side
- Recording commands is easy and reliable
 - Finds the right command





 Capture settings from the currently open map view (contents)





- Use 'Optional' step behavior
 - User can skip steps
- Copy and paste
 - Copy and paste steps between tasks
 - Copy and paste tasks between task items
- Tasks do not support 'If-Then' logic
 - Use Geoprocessing scripts/models for step commands

Summary - Tasks share knowledge

Define best practice workflows

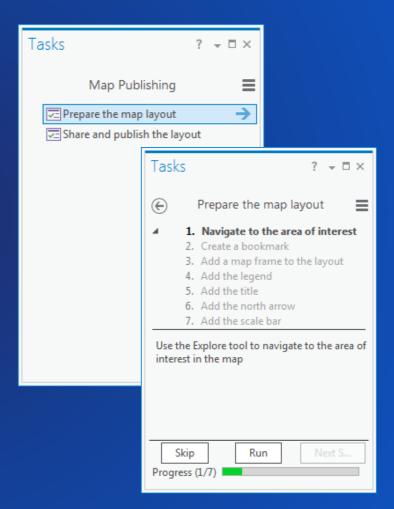
- Useful when there are multiple ways to do the same workflow
- Reduce confusion
- Improve quality & Consistency

Guide

- Provide dynamic help / instructions
- Link to additional resources
- Use your (business) language

Share

- Export a 'Task Item' to a 'Task File'
- Upload task file to ArcGIS Online



Want to learn more?

- Software help documentation
 - Tasks in ArcGIS Pro
- UC Hands-On Learning Lab
 - Using Tasks in ArcGIS Pro Lesson
 - Open Tuesday, Wednesday, Thursday 9.00am 6:00pm, Ground Level Exhibit Hall A SDCC
- Demo theatre
 - Wednesday 12:15pm, Demo theatre 4
- Training:
 - Create and share ArcGIS Pro Tasks (60 minutes, free)
 - Automating Workflows Using ArcGIS Pro Tasks (3 hours)
- Videos: esri / YouTube

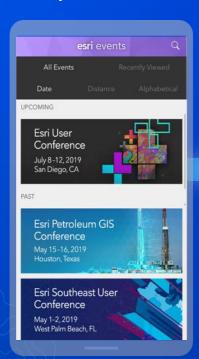
Join the Task Force

- Contribute your ideas:
 - Geonet ideas: https://geonet.esri.com/community/arcgis-ideas
- Visit us at the ArcGIS Pro Island:
 - Christine Leslie
 - Jason Camerano
 - Amir Bar-Maor
 - Narelle Chedzey

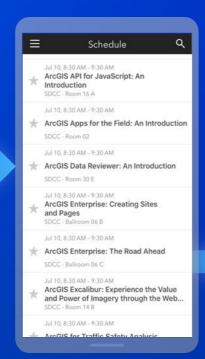


Please Share Your Feedback in the App

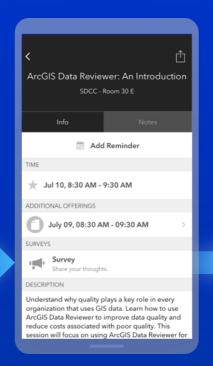
Download the Esri Events app and find your event



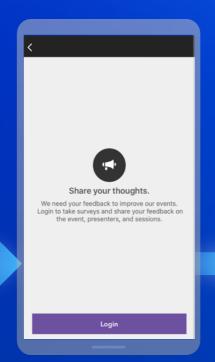
Select the session you attended



Scroll down to "Survey"



Log in to access the survey



Complete the survey and select "Submit"

