

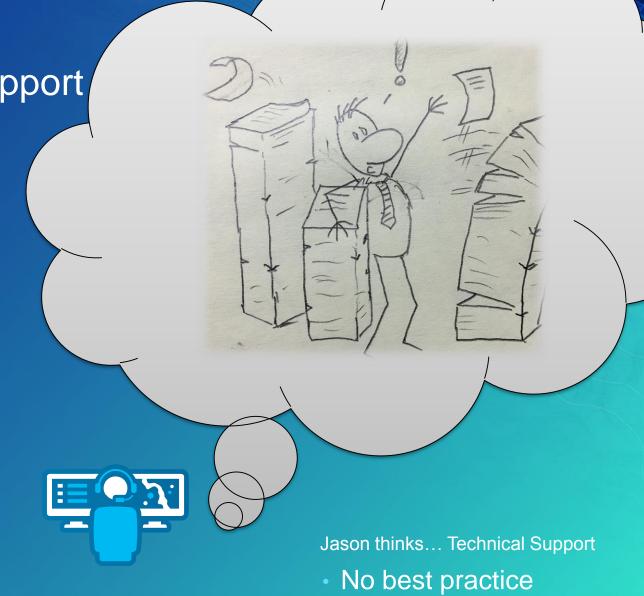
• Esri Technical support: Jason



Customer: Amir



Warning: there is a test in the end of the presentation





Amir (Customer)

Every user does things differently





Amir (Customer)

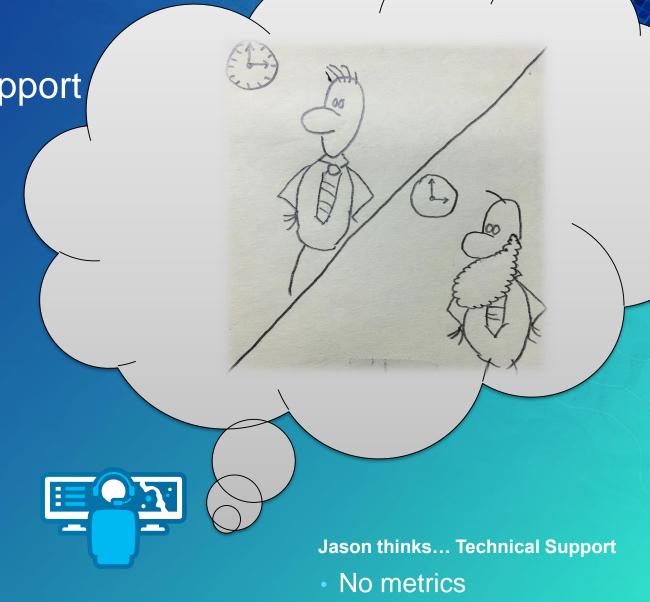
People make mistakes





Amir (Customer)

Mistakes cost \$\$\$





Amir (Customer)

Complaints updates take "too long"

Doesn't seem to like new employees
I hope he doesn't find out I'm a new employee



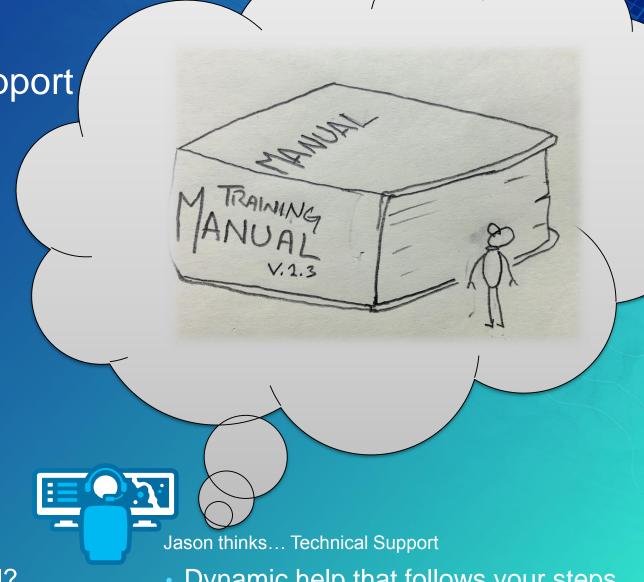
Jason thinks... Technical Support

- Transfer business knowledge
- Learn how to use the software



Amir (Customer)

 Training new employees takes a long time until they become productive

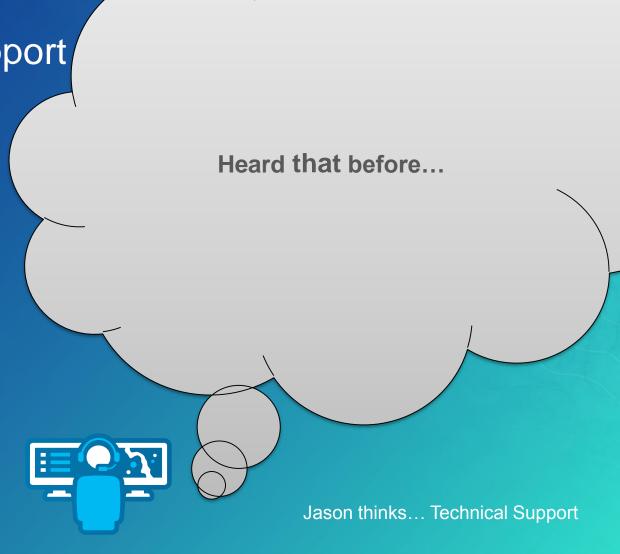




Amir (Customer)

Don't people know how to read a manual?

Dynamic help that follows your steps





Amir (Customer)

Our organization is special





Amir (Customer)

- Technology changes fast
- I remember my first GIS course on ArcInfo...

• 1996... I was a toddler

Create New Building Workflow

Locate Work Area

 By address or Subdivision
 name



Select Subdivision

 Copy the Subdivision name



Create New Buildings

Make sure they don't overlap

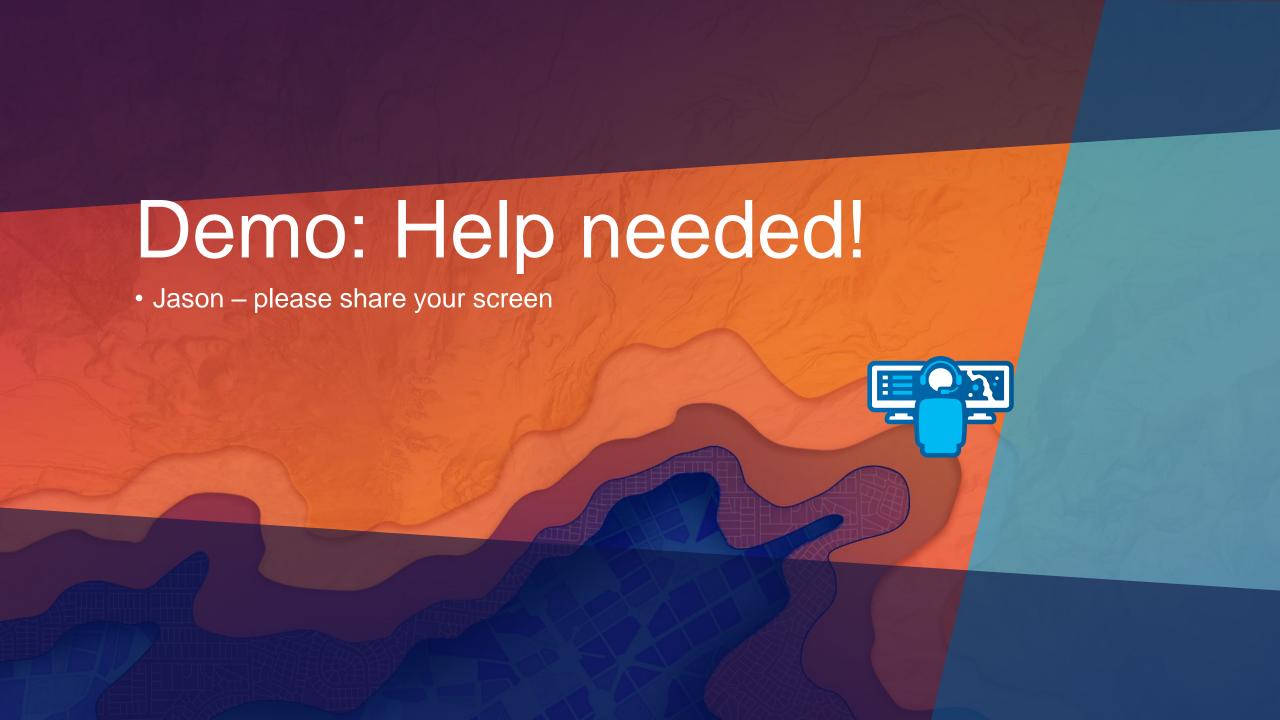


Attribute New buildings

 Paste the subdivision name, populate attributes

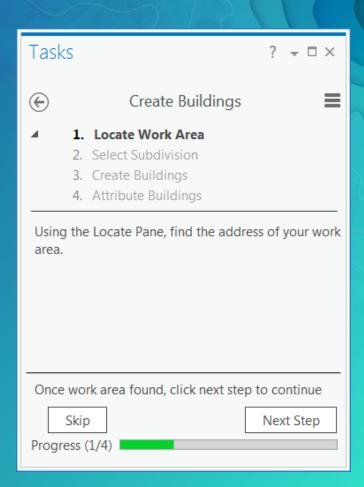


 Never forget to save edits

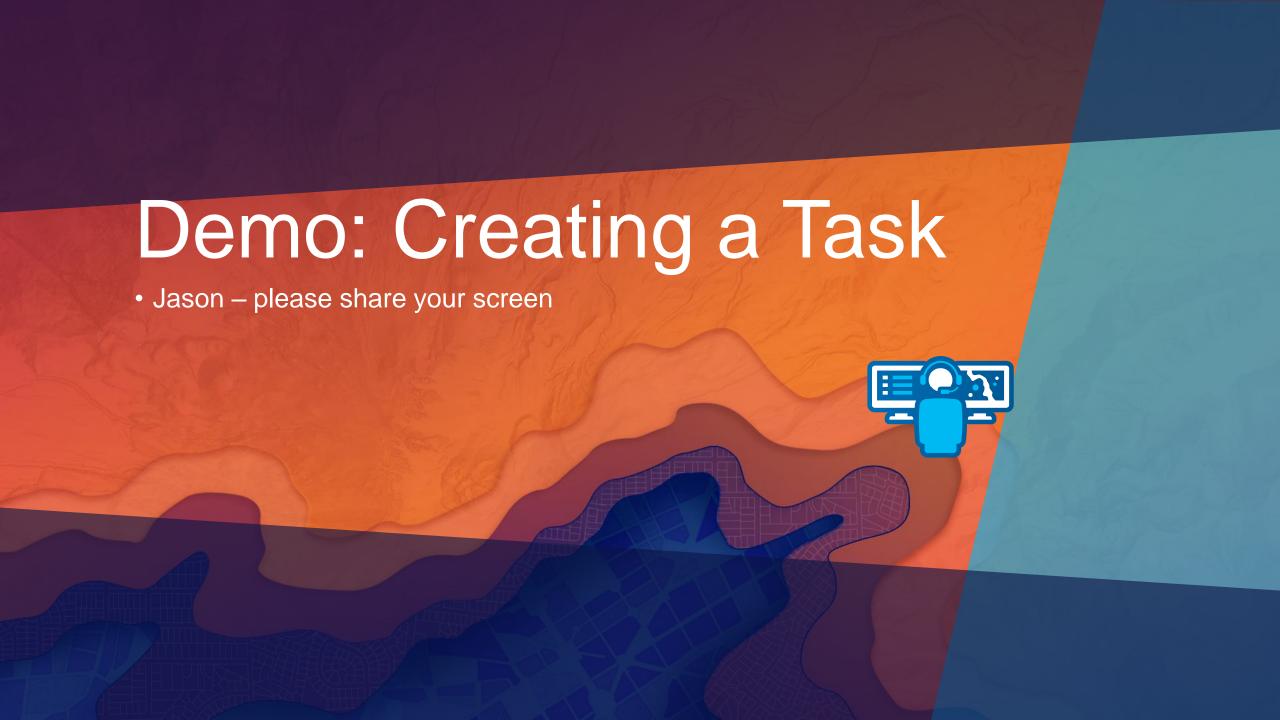


What is a task?

- Sequential steps that guide you through a <u>repeatable</u> workflow
- Tasks:
 - Used to guide and share knowledge
 - Are interactive
 - Improve efficiency
 - Improve quality
- Tasks use your (business) language
- Tasks are configurable

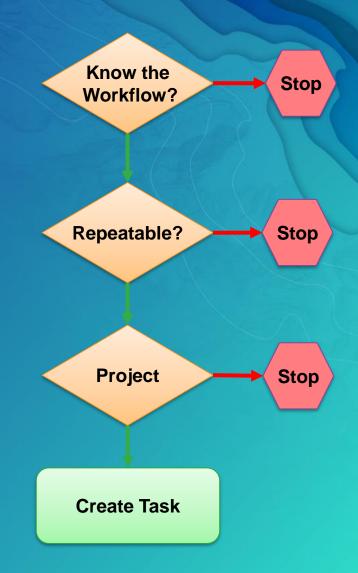


"The right tool in the right time"



Design a task

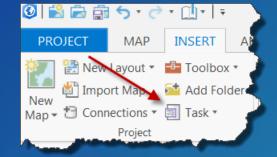
- Know your business and workflows
- Repeatable workflows
- Know your project:
 - Maps
 - Layers
 - Tools
 - Add Ins
- Know your users:
 - Roles
 - License level / extensions
 - Permissions
 - Environment



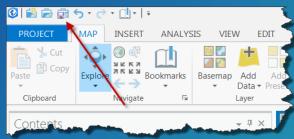
Insert a new Task Item

A project might contains zero to many TASK ITEMS that are stored in the APRX file

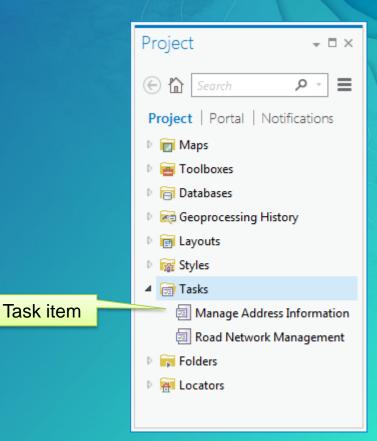
Use Insert tab → Task Item



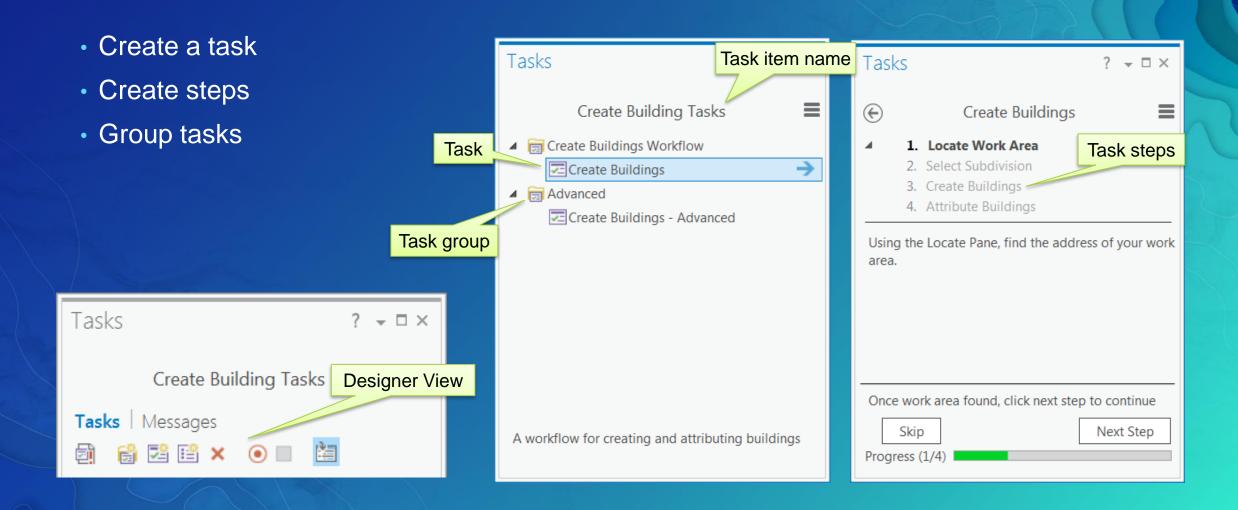
Use 'Save Project' to save task modifications



Use 'Package Project' to share with a project



Create Tasks & Steps



• Esri Technical support: Jason



Customer: Amir



Reminder: don't forget the test

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



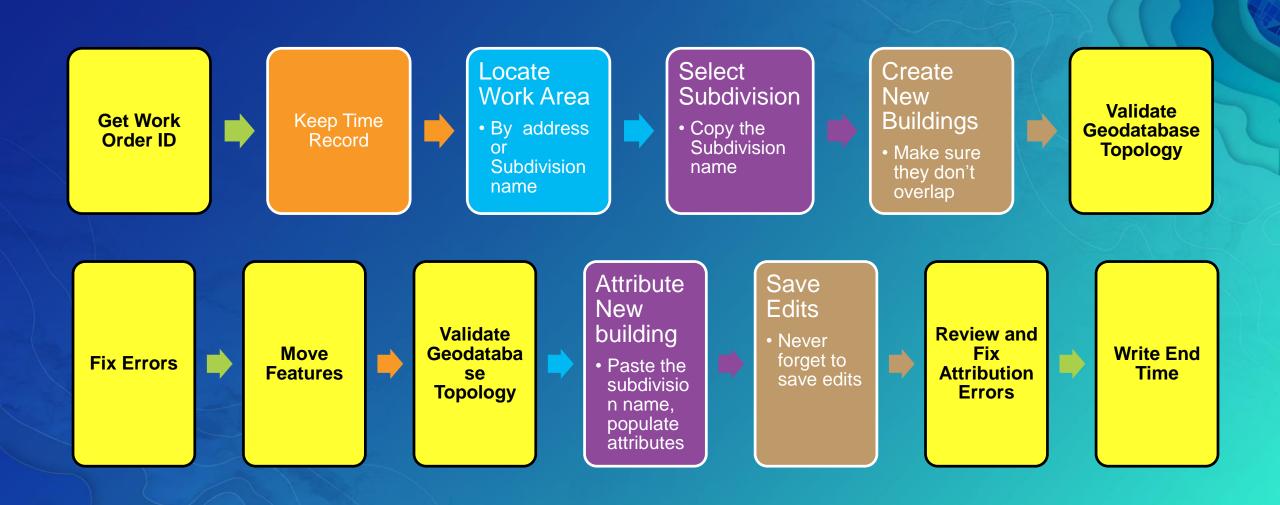
Attribute New building

 Paste the subdivision name, populate attributes



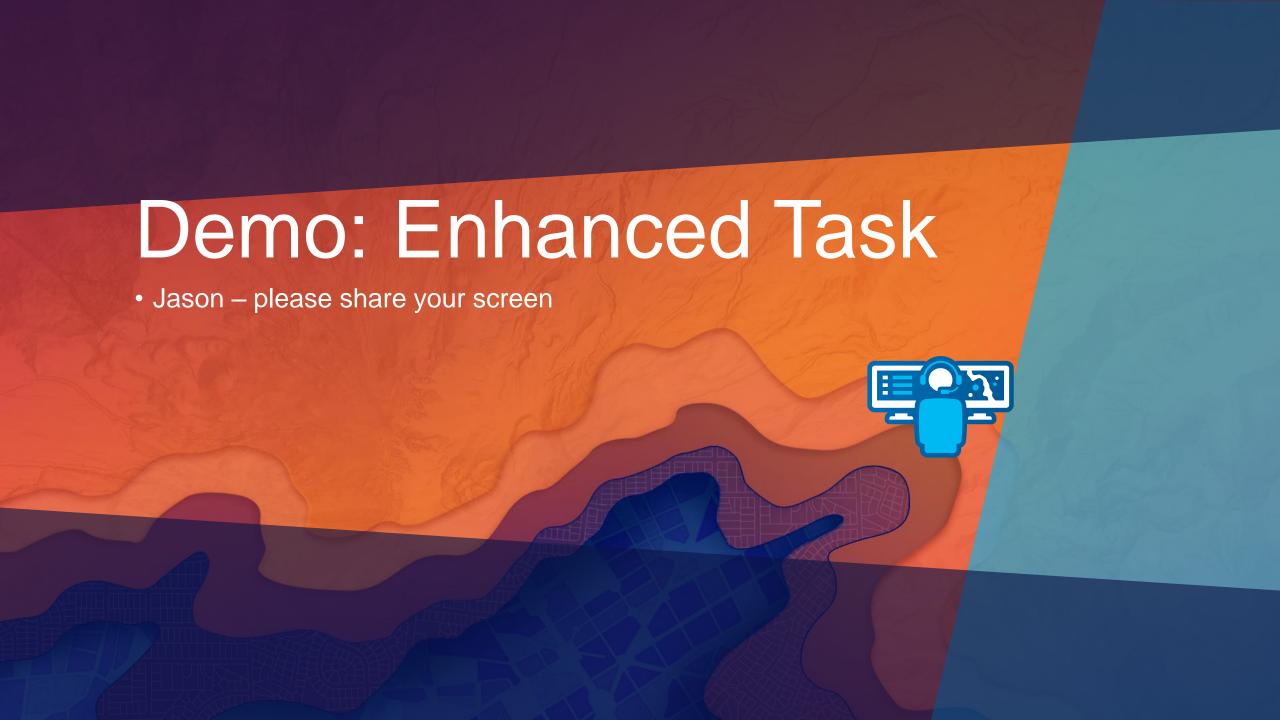
 Never forget to save edits

Create New Building Workflow – Real version



Common User Errors

- Forget to attribute some of the attributes
- Wrong attribution, like mistype of the subdivision name
- Select the wrong features
- Forget which features were they created in the work order
- Time reporting is a challenge (coffee breaks, emails...)



Task Step

View Content Actions General Open / close Map Views / Layer: Instructions Command / Get Attribute Layout - Visibility - Selectable - Editable Active Map Geoprocessing **Behavior** - Snappable - Select Layer - Labels Selection Link Views **Snapping Management** Copy / Calculate Attributes

Verification

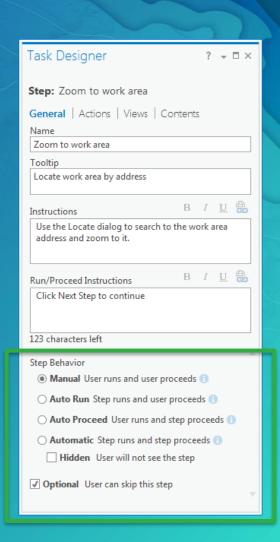
Behaviors

General – Step Behavior

- Manual 2 mouse clicks
- Auto Run / Auto proceed 1 mouse click
- Automatic no mouse clicks



Step Behavior Manual User runs and user proceeds	
O Auto Run Step runs and user proceeds (1)	
O 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	



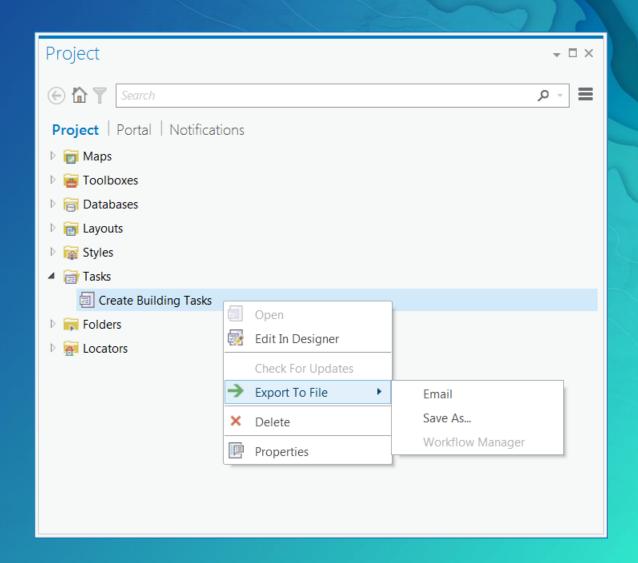


Sharing tasks

Best method: as a project package

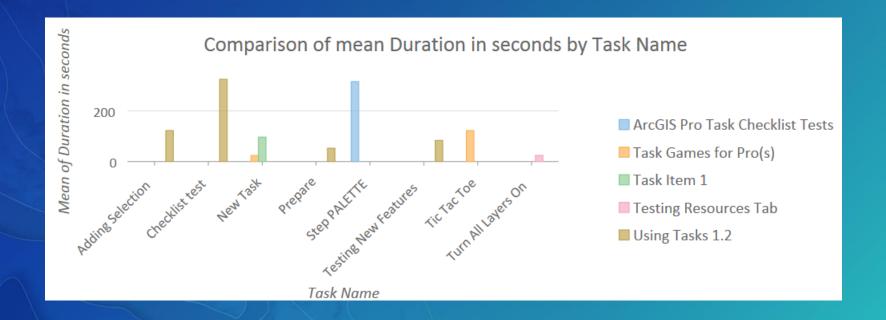
OR between projects:

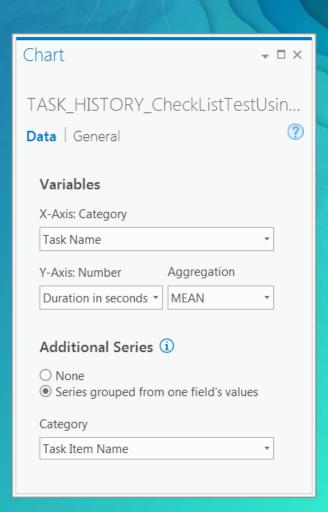
- A task item can be shared via a task file
 - .esritasks file
- A task file can be imported into a project
- A task item is an AGOL item and can be shared via email



Task History (metrics)

- Optional project Settings (project options)
- Measures duration of each task; idle time is filtered
- Great to visualize with charts

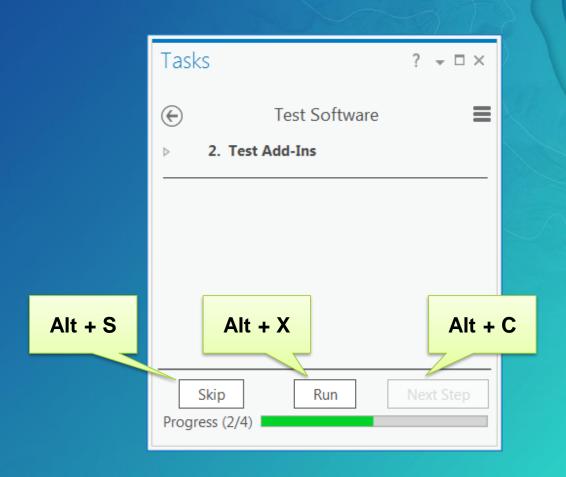




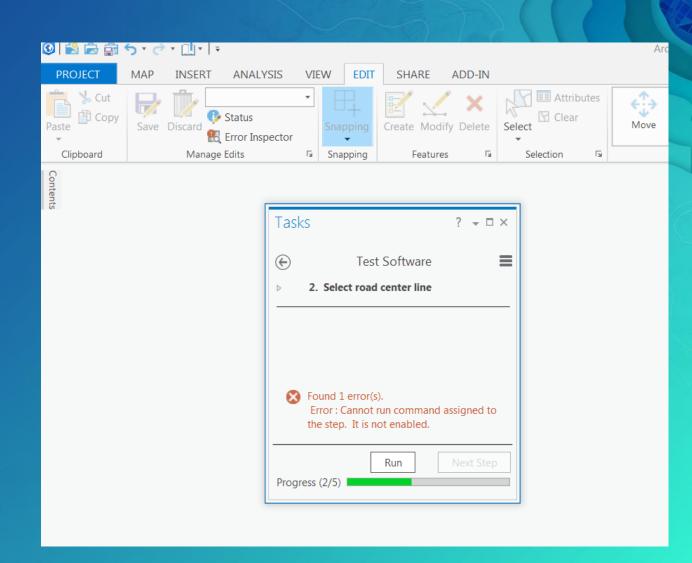
When NOT to use Tasks?

- A workflow that takes very long time
- Task resources keep changing frequently: maps, layers, Geoprocessing tools
- Micro Management tool
- Does not replace Geoprocessing models:
 - Geoprocessing is used for automation
 - Tasks are interactive

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

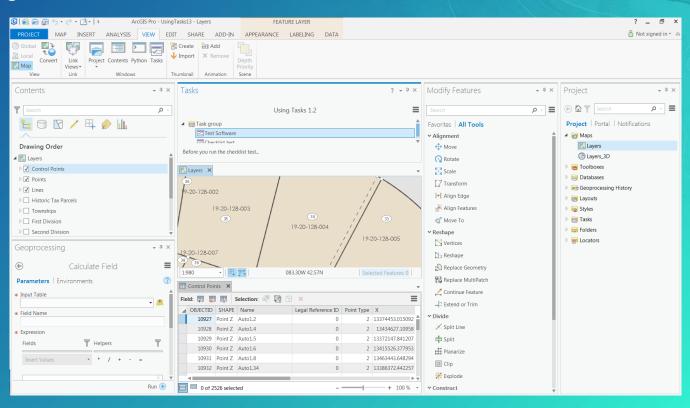


- When a task fails...
 - Check if the command is enabled
 - Commands are contextual
 - In this example: calling the select command without an active map view

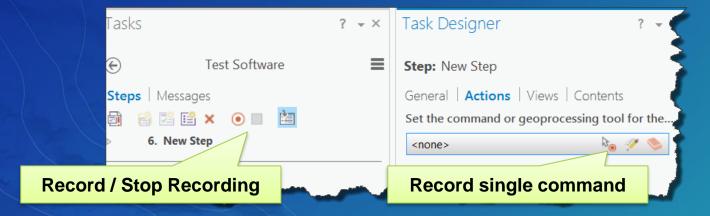


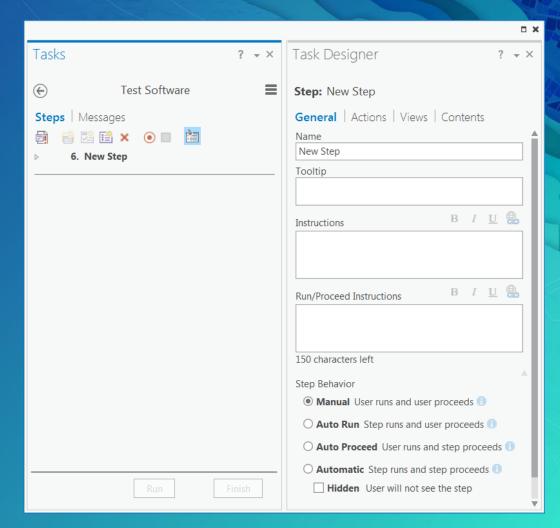
- Close panes.
- Don't "buddy-up" the task pane with other panes
- Can I run other commands while running a task?
 - Answer: Yes
- Leave nothing to chance! your users might:
 - Close maps
 - Turn layers off
 - Clear selection
 - Unselect a layer

₹ ••

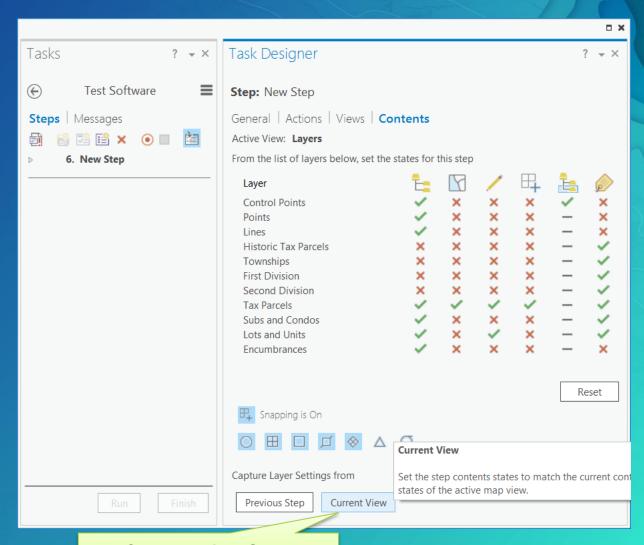


- Dock the task pane and task designer side by side
- Record commands is easier and more reliable





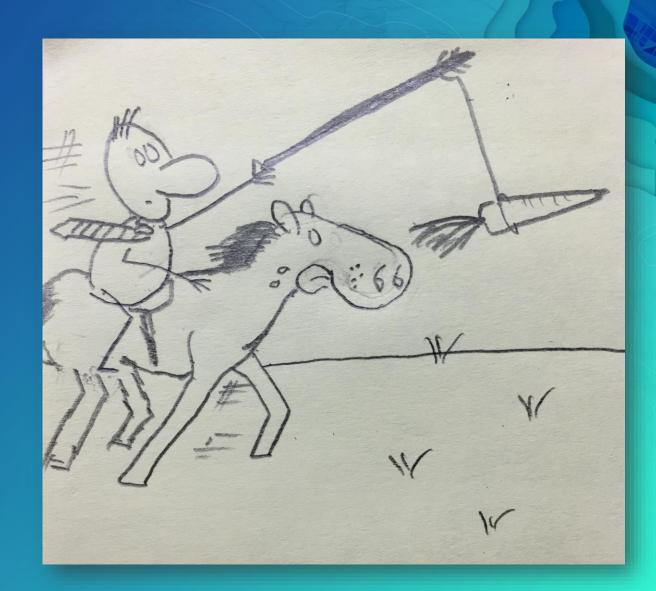
Capture map view state (contents)



Capture View State

- Use 'Optional' step behavior during design (Skip)
- Copy paste steps between tasks, or tasks between task items
- Advanced 'If-Than' logic → use Geoprocessing scripts/models as a step

- Configuration Vs. Customization: consider tasks before writing Add Ins
- Tasks have SDK
- Create tasks that save time & improve quality

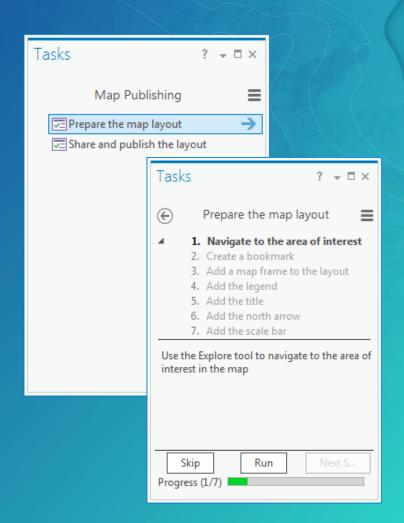




- Tasks are available in every license level
- Tasks replace Geoprocessing models
- Tasks can be shared between projects
- The best way to share a task item is to package it in a project package
- Manual behavior is the most efficient step behavior
- Tasks are fan-task-tic!

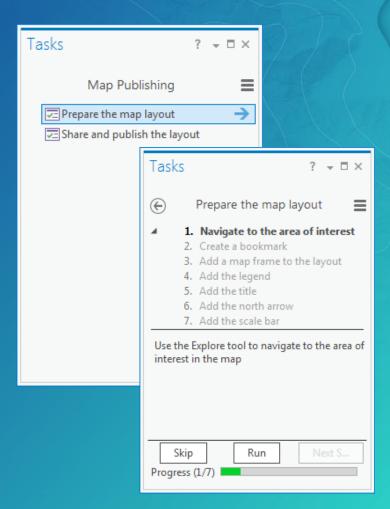
Summary - Tasks Improve Efficiency

- Reduce learning curve time
- Open the right tool at the right time
- Open the right map & layer settings
- Reduce mouse clicks
- Reduce clutter (panes, ribbons, etc.)
- Selection management (save, load, clear)
- Attribution: get, copy & calculate actions
- Prevent mistakes: verification action
- Open a tool set: palette



Summary - Tasks Share Knowledge

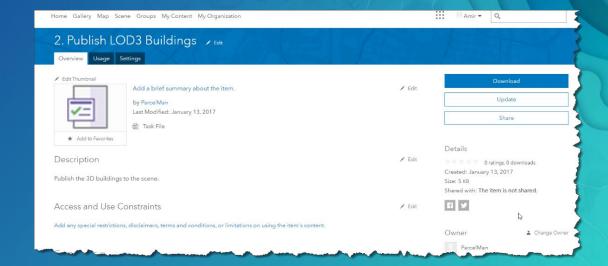
- Define best practice workflows
 - Multiple ways to do the same workflow
 - Reduce confusion
 - Improve quality & Consistency
- Guide
 - Dynamic help / instructions
 - Link to additional resources
 - Use your (business) language
- Share
 - Export a 'Task Item' to a 'Task File'
 - Upload task file to ArcGIS Online



Road Ahead

Customer driven

- As a task author I can share a local task item as an online item.
- Later I can update the online item →
- Notify users to update their local task item
- Online task item relies on permission user's level

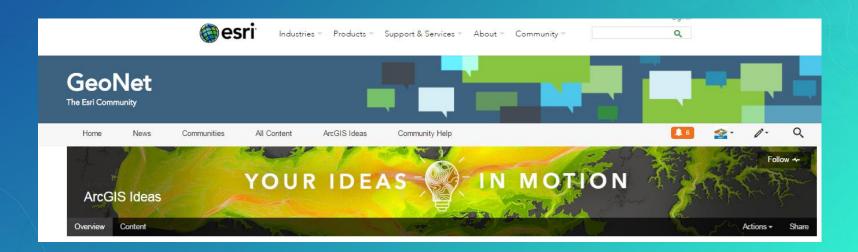


Want to learn more?

- Software help documentation
 - Tasks in ArcGIS Pro
- 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 Geodata / SDK island:
 - Christine Leslie
 - Narelle Chedzey
 - Jason Camerano
 - Amir Bar-Maor



Technical Workshops

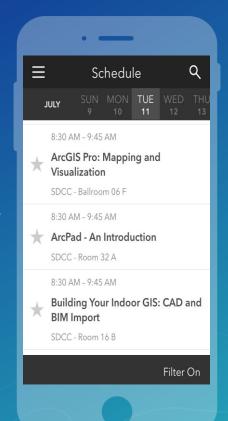
- ArcGIS Pro Tasks Tips and Tricks
 - Tue 7/11/2017, 11:00 AM 11:30 AM, Tech Theater 17 Exhibit Hall A
- ArcGIS Pro Tasks: An Introduction
 - Tue 7/11/2017, 03:15 PM 04:30 PM, Ballroom 06 B
- ArcGIS Pro Tasks: An Introduction
 - Wed 7/12/2017, 08:30 AM 09:45 AM, Hilton Sapphire Ballroom M/N
- ArcGIS Pro Tasks Tips and Tricks
 - Thu 7/13/2017, 11:00 AM 11:30 AM, Tech Theater 17 Exhibit Hall A

Please Take Our Survey on the Esri Events App!

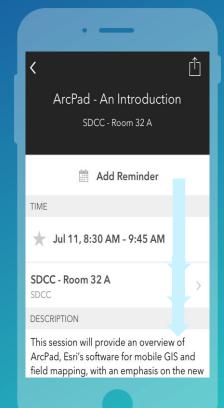
Download the Esri Events app and find your event



Select the session you attended



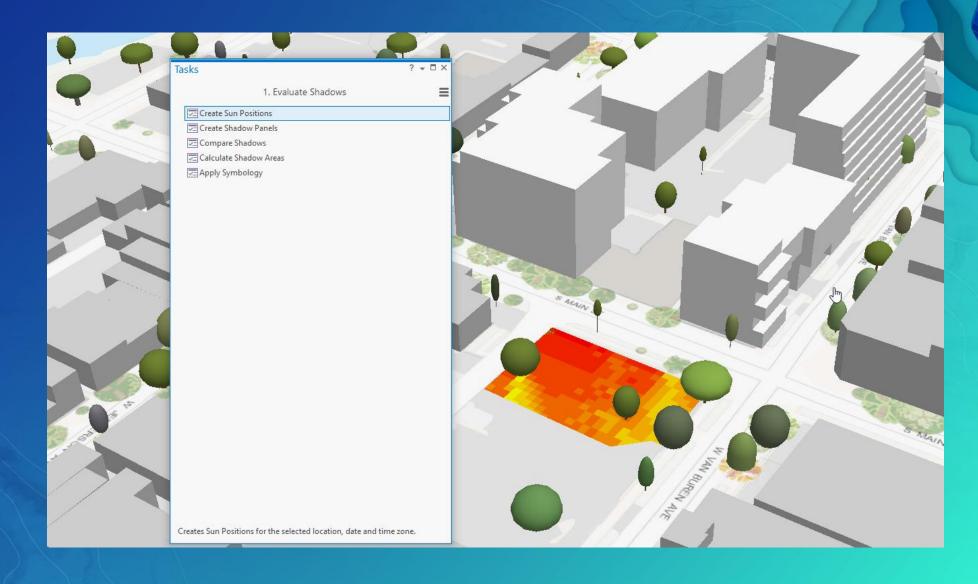
Scroll down to find the survey



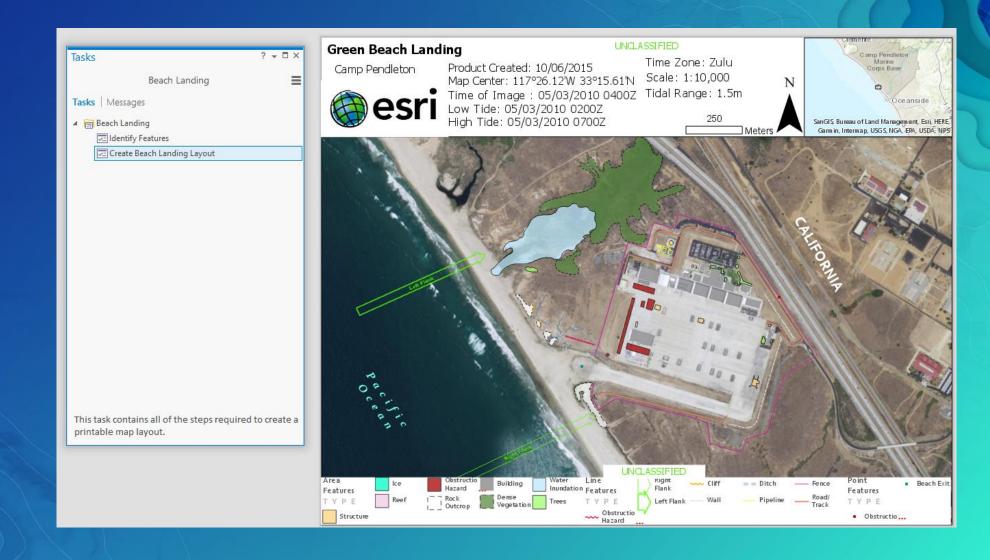
Complete Answers and Select "Submit"



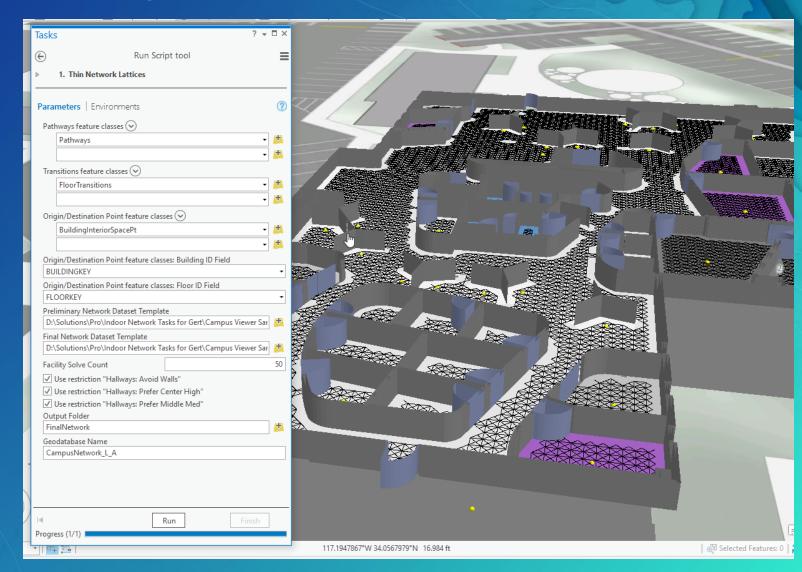
Use of Tasks for 3D Analysis Workflows



Use of Tasks for Military Workflows



Use of Tasks for Indoor Routing Workflows



Use of Tasks for Zoning Design Workflows

