Effortlessly Publishing Online GIS Data and Services by Using SuperGIS Server 3.1a

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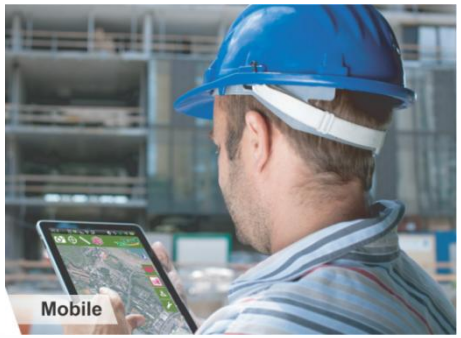
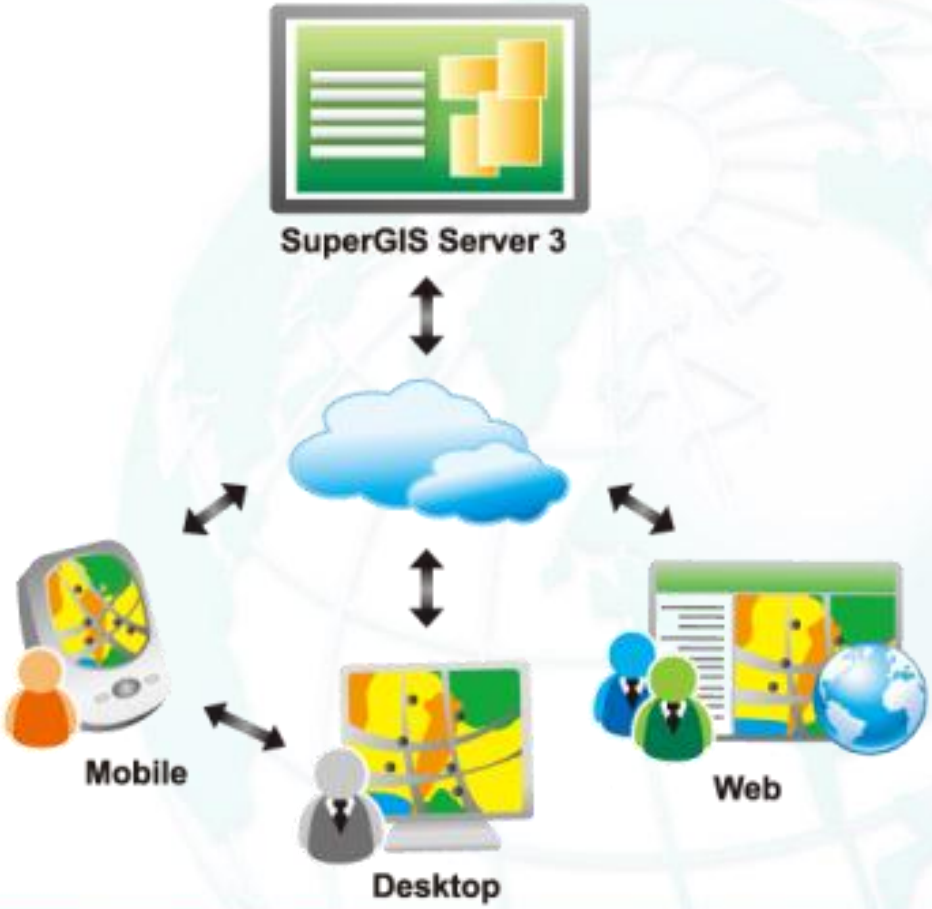
Outline

- The New SuperGIS Server 3.1a: Interface
  - Service
  - Application
- Examples:
  - Mash up with OpenStreetMap [*]
  - Geoprocess: Publish and Use [**]
  - Spatial Analysis: Viewshed Analysis [***]
  - Network Analysis: Shortest Path [****]

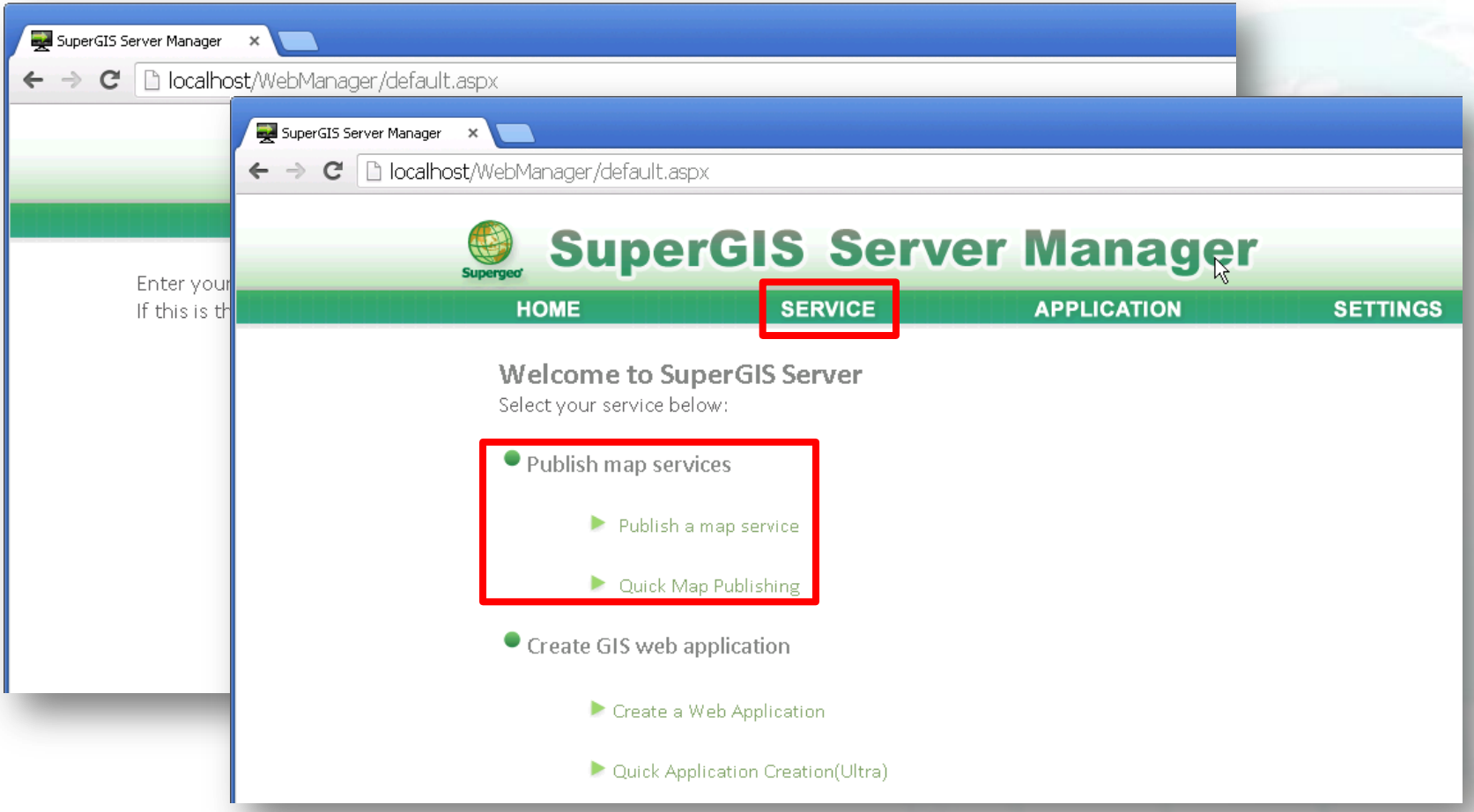
Overview of SuperGIS Server 3.1a

- SuperGIS Server 3.1 Help
- Copyright
- Welcome to SuperGIS Server 3.1 Help
- Get to Know SuperGIS Server
- Installing and Setup for Server Side
- Breif of SuperGIS Server Manager
- Publishing GIS Service
  - The Preparations before Publishing Services
    - System Settings and Preparing Data
  - Creating the Map for Web Map Service
    - Creating SGD file in SuperGIS Desktop
    - Creating SLR file in SuperGIS Desktop
    - Creating SWG file in SuperWebGIS





Interface: Services Part



Interface: Service Part

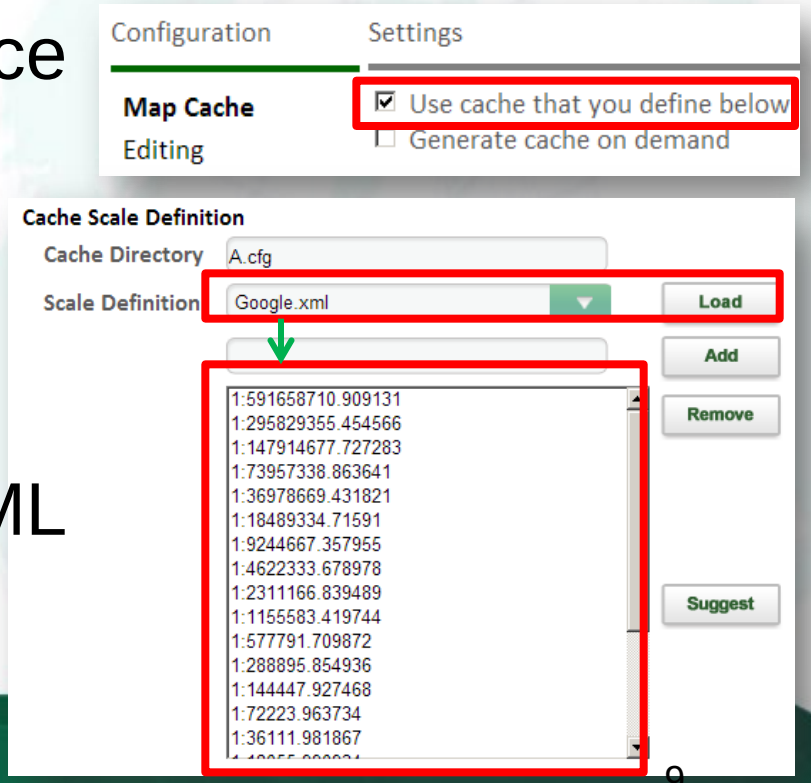
Interface: Application Part

Interface: Application Part

Example 1:
Mash Up with OpenStreetMap

Mash up with OpenStreetMap

- Key Points
  - the Coordinate System: Web Mercator
  - Publish as Cache Service
  - Setting for the Scale
  - Modification on the HTML



Mash up with OpenStreetMap

- Step 1. Set coordinate system in sgd file
- Step 2. Save sgd file
- Step 3. Launch SuperGIS Server Manager
- Step 4. Checkbox for using Cache service
- Step 5. Set for the scale: using Google.xml
- Step 6. Create Application
- Step 7. Modify in HTML file (copy to a new HTML)

Mash up with OpenStreetMap

- Step 7. Modify in HTML file (copy to a new HTML)
- In Help Manual:

```
.....
<script type="text/javascript" src="scripts/Overview.js"></script>
<script type="text/javascript" src="scripts/Bookmark.js"></script>
<script type="text/javascript" src="scripts/OpenStreetMap.js"></script>
<script>
.....
```

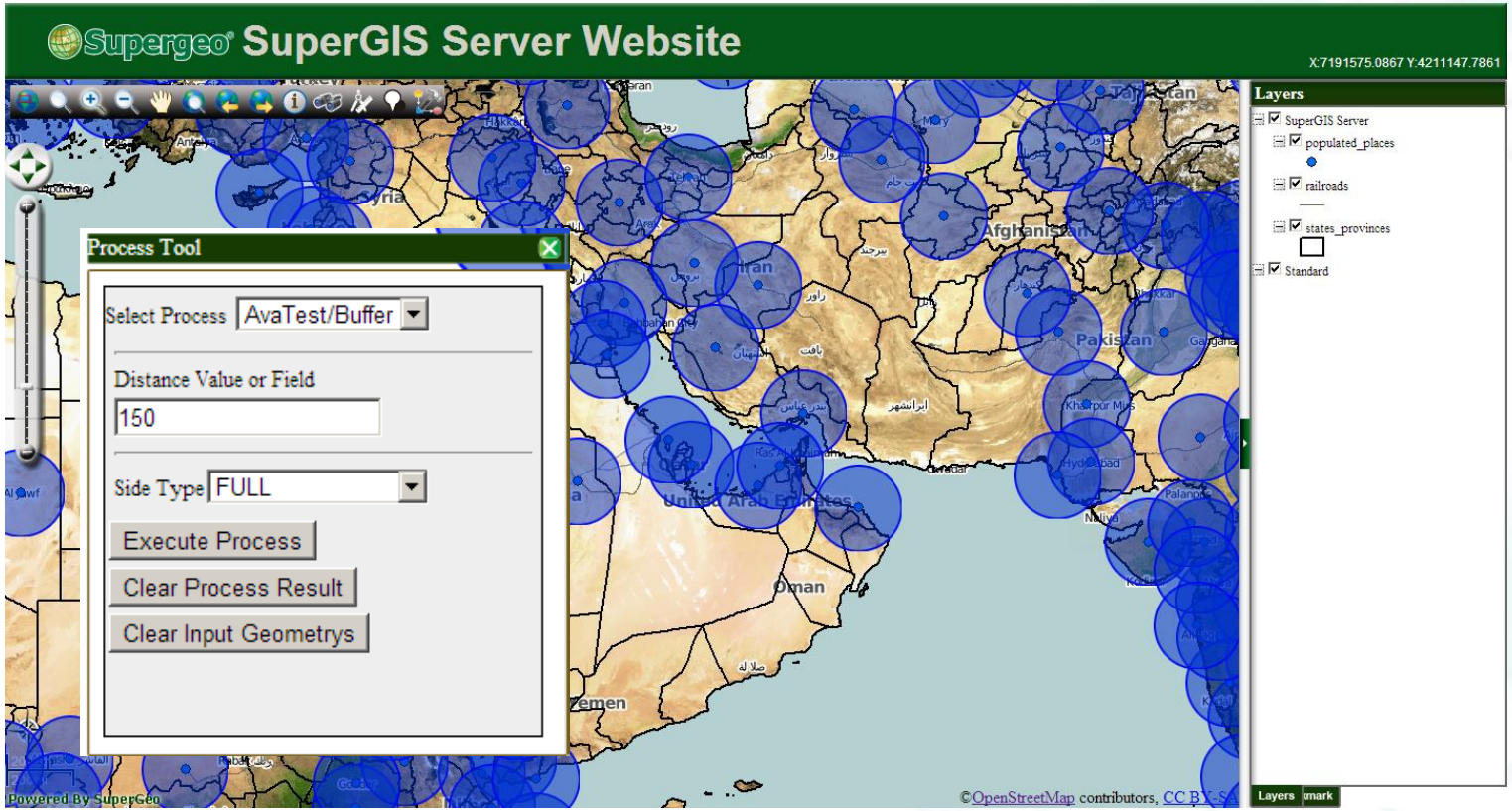
```
.....
function InitWnd()
{
.....
        var pTrans = new CachedLevelTransformation(pLyr);

        var pMapBase = new MapBase(pOMap, pTrans, 0, 0, "100%", "100%");
        gMapBase = pMapBase;

      pMapBase.AddLayer(new OpenStreetMap("Standard", {
url:["http://tile.opencyclemap.org/cycle/",
  "http://a.tile.opencyclemap.org/cycle/",
  "http://b.tile.opencyclemap.org/cycle/",
  "http://c.tile.opencyclemap.org/cycle/"]
}));
        pMapBase.AddLayer(pLyr);
.....
```

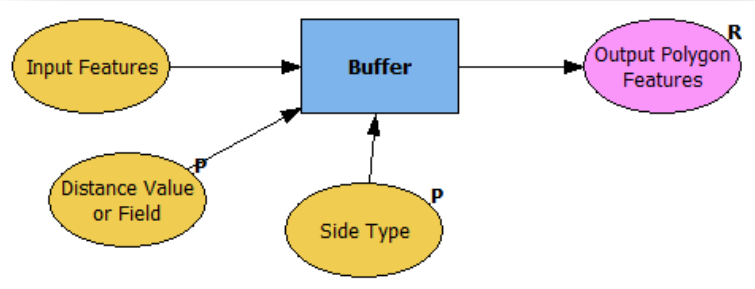
ATTENTION!

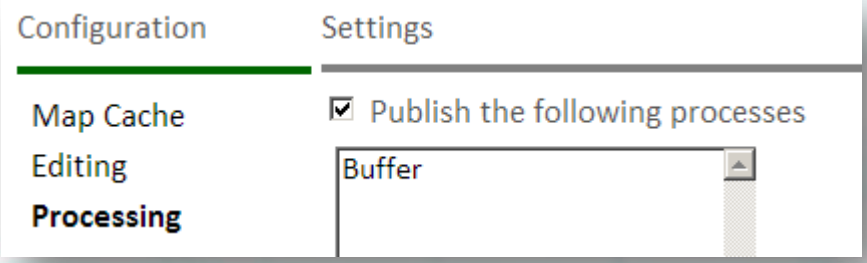
Example 2:
Geoprocess: Publish and Use



Geoprocess: Publish and Use

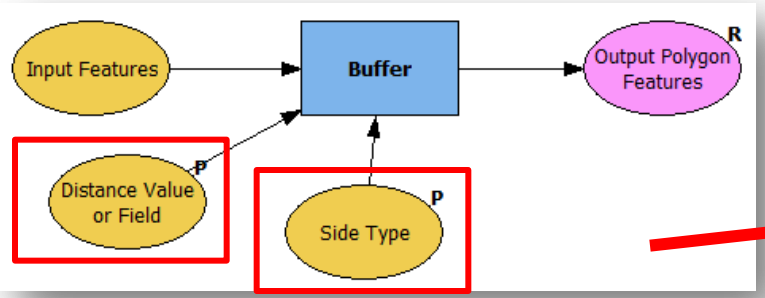
- Key Points:
  - Create your own toolkit in SuperGIS Desktop
  - Setting for Process Parameters
  - Setting for Result and Display on Map
  - Must check the box to apply the Process

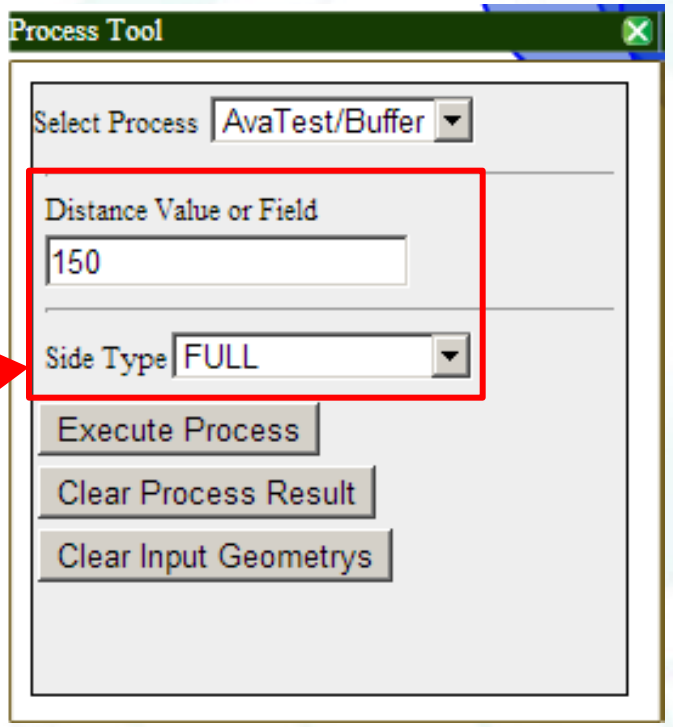




Geoprocess Publish and Use

- Why do we need to set the Process Parameters?



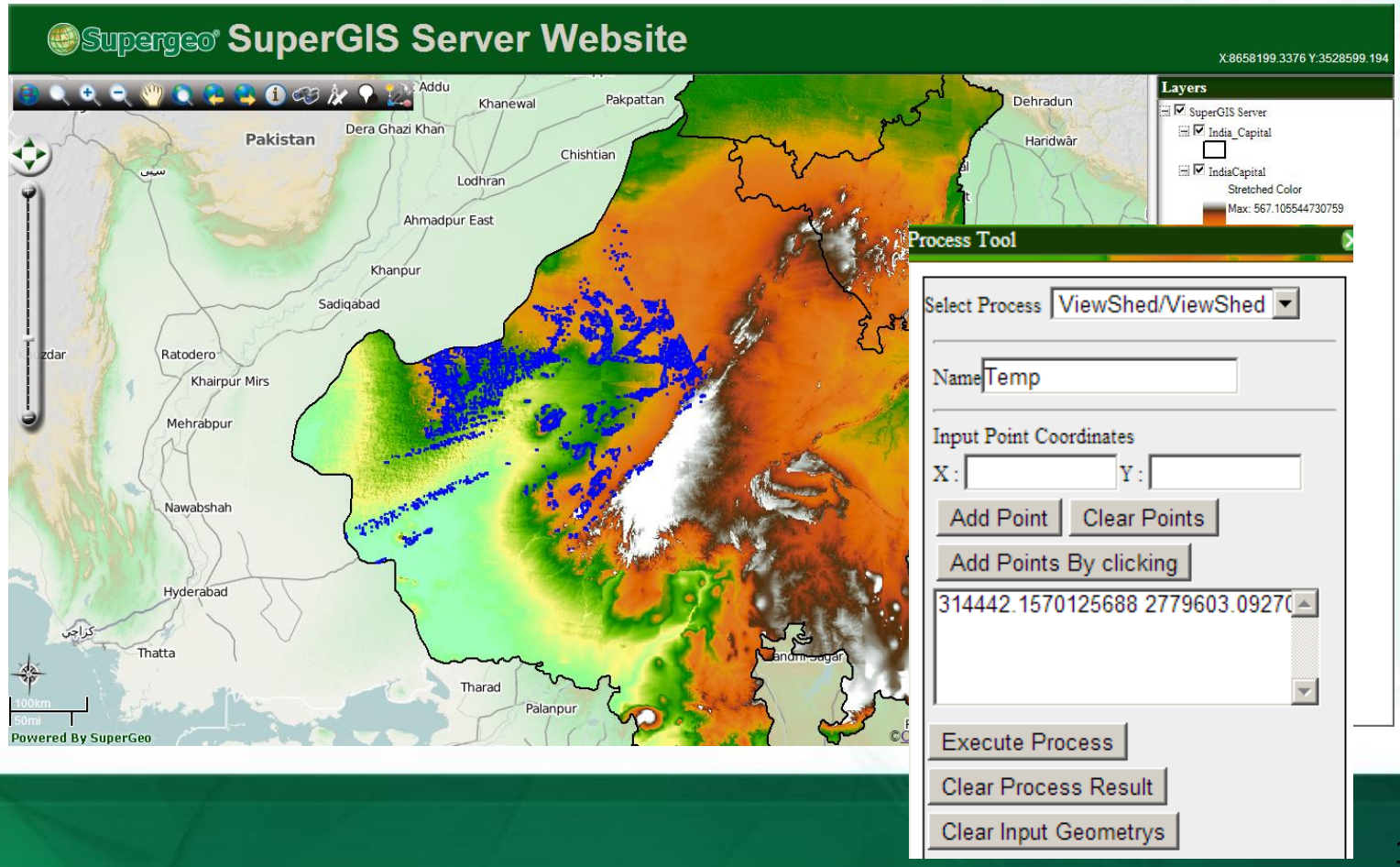


Geoprocess Publish and Use

- Step 1. Create a new Toolkit
- Step 2. Design the process
- Step 3. Save sgd file
- Step 4. Launch SuperGIS Server Manager
- Step 5. Publish the map service
- Step 6. Include the process
- Step 7. Create a web application
- Step 8. Click on the Tool icon, to execute the toolkit

BREAKTIME: A QUICK POLL

Example 3:
Spatial Analysis – Viewshed



Spatial Analysis – Viewshed

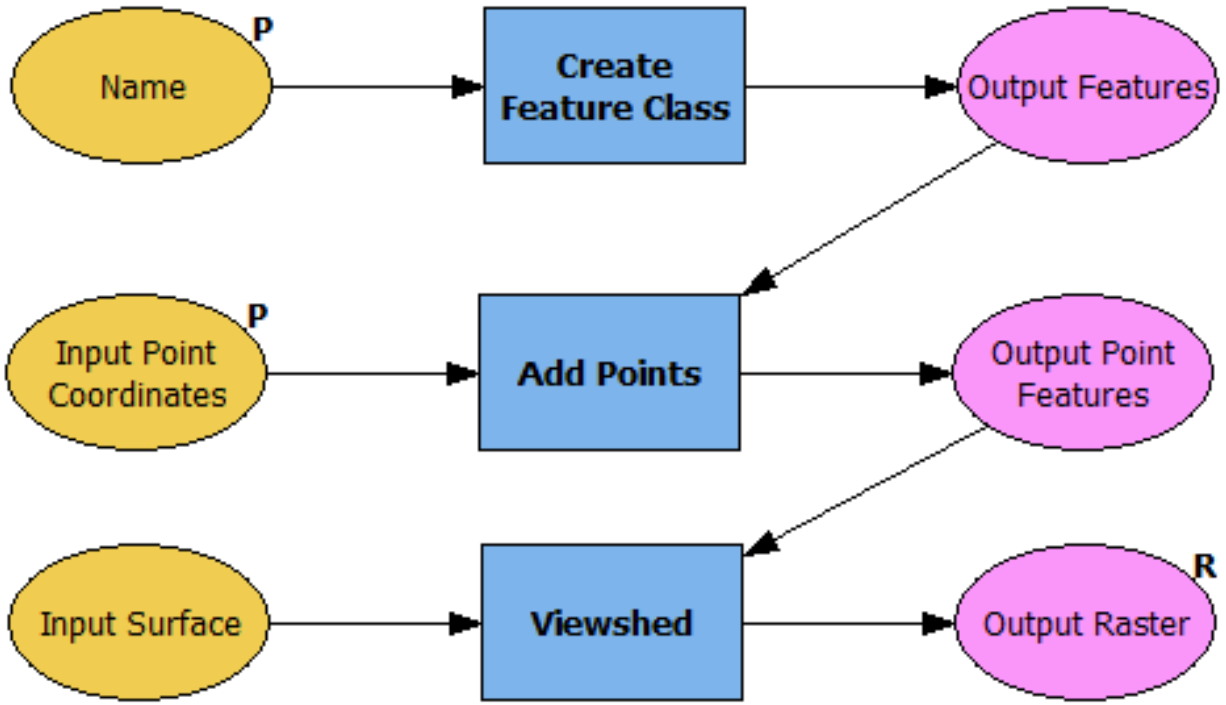
- Key Points:
  - Create your own toolkit in SuperGIS Desktop
  - **Design the process**
  - Setting for Process Parameters
  - Setting for Result and Display on Map
  - Must check the box to apply the Process

Spatial Analysis – Viewshed

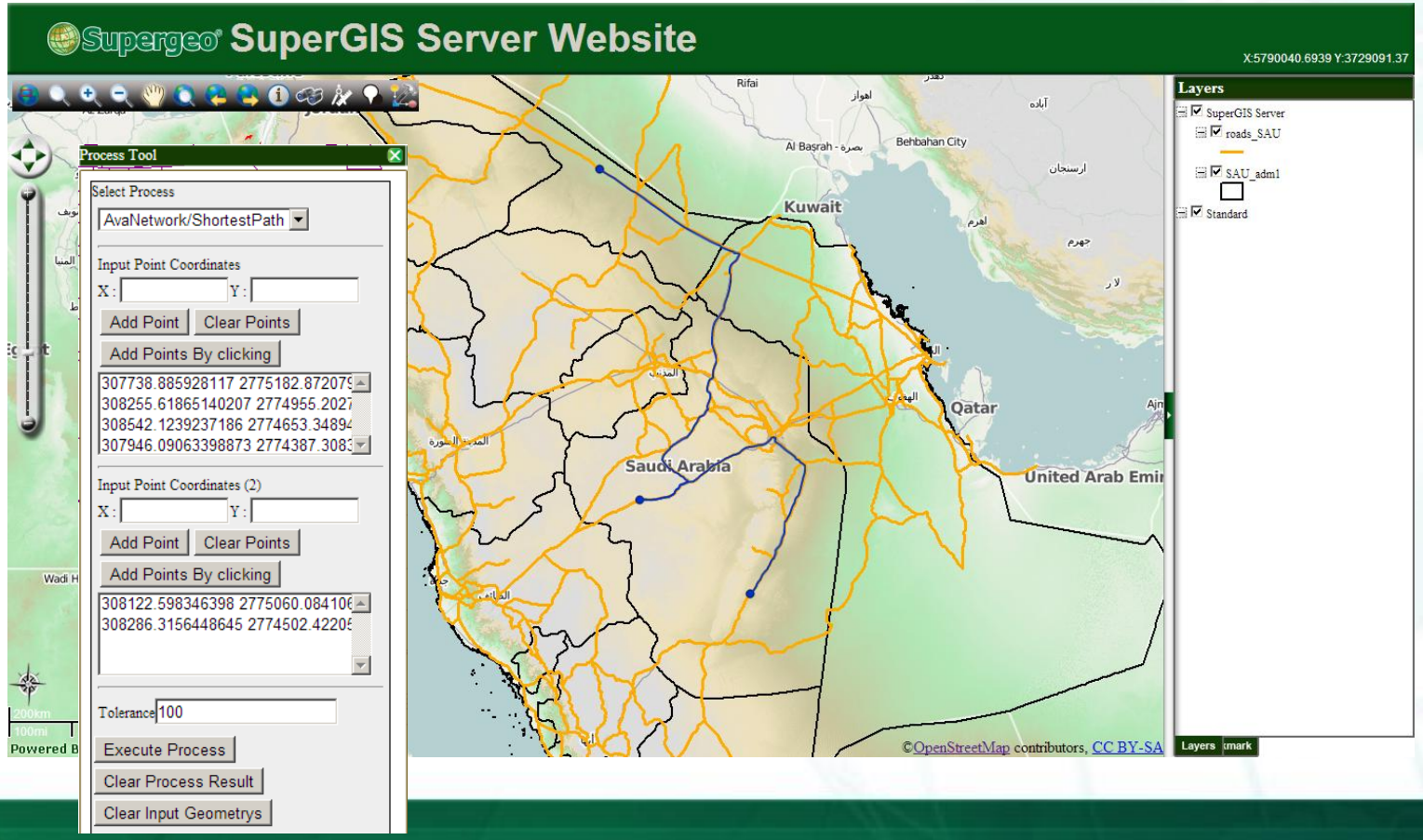
- Thinking:
  - What elements do we need?
    - ✓ The target: raster map to analyze
    - ✓ Adding point(s) to analyze the area of viewshed
  - What's the steps? Think reversely
    - ✓ Before add point(s), we need a feature layer
    - ✓ Then we can add point(s)
    - ✓ To analyze for area of viewshed

Spatial Analysis – Viewshed

- Design the process:



Example 4:
Network Analysis – Shortest Path



Network Analysis – Shortest Path

- Key Points:
  - Before apply Network Analysis, the road map should have **done the topology validation**
  - Create your own toolkit in SuperGIS Desktop
  - **Design the process**
  - Setting for Process Parameters
  - Setting for Result and Display on Map
  - Must check the box to apply the Process

Network Analysis – Shortest Path

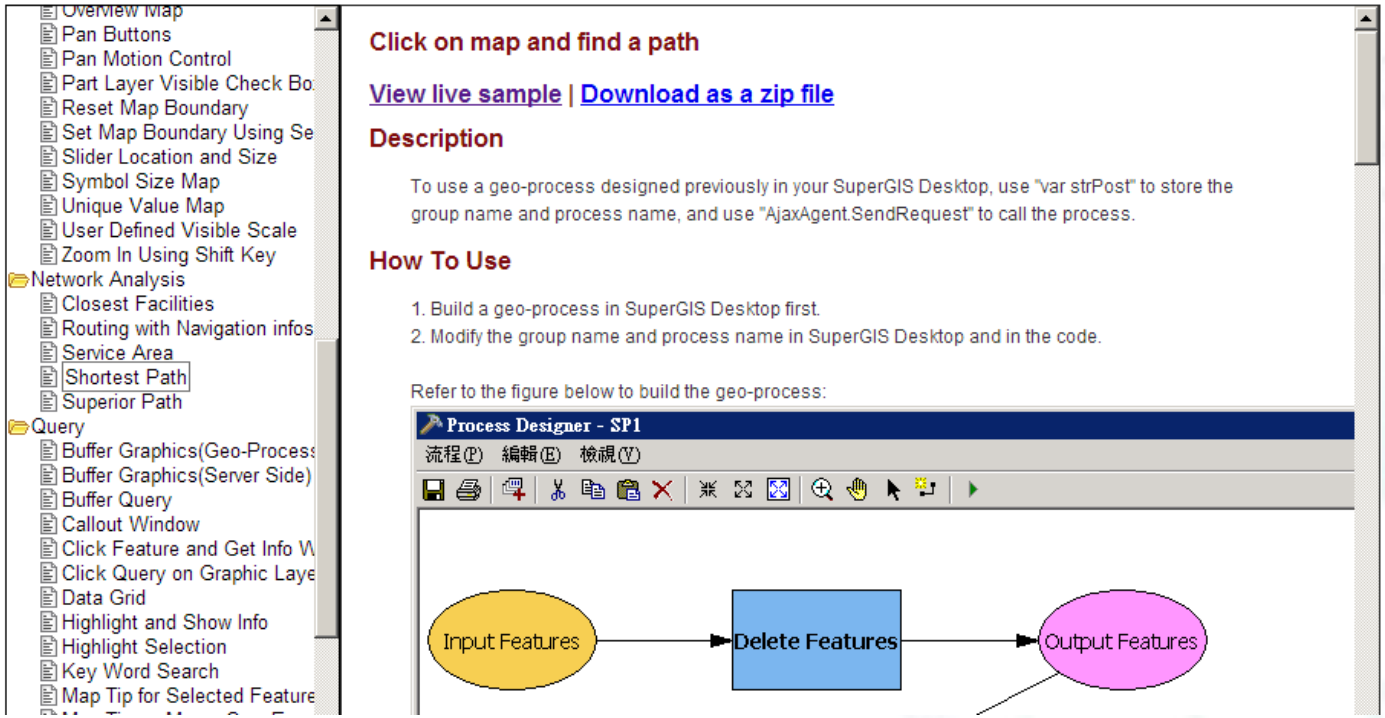
- Thinking:
  - What elements do we need?
    - ✓ The target: Line (road) feature layer
    - ✓ The destinations, barriers (Optional)
  - What's the steps?
    - ✓ Generate Network: weighted or not weighted? …etc.
    - ✓ Stops and barriers both need point feature layers
    - ✓ Add points as stops and barriers
    - ✓ Connect points and network, and do the analysis

Network Analysis – Shortest Path

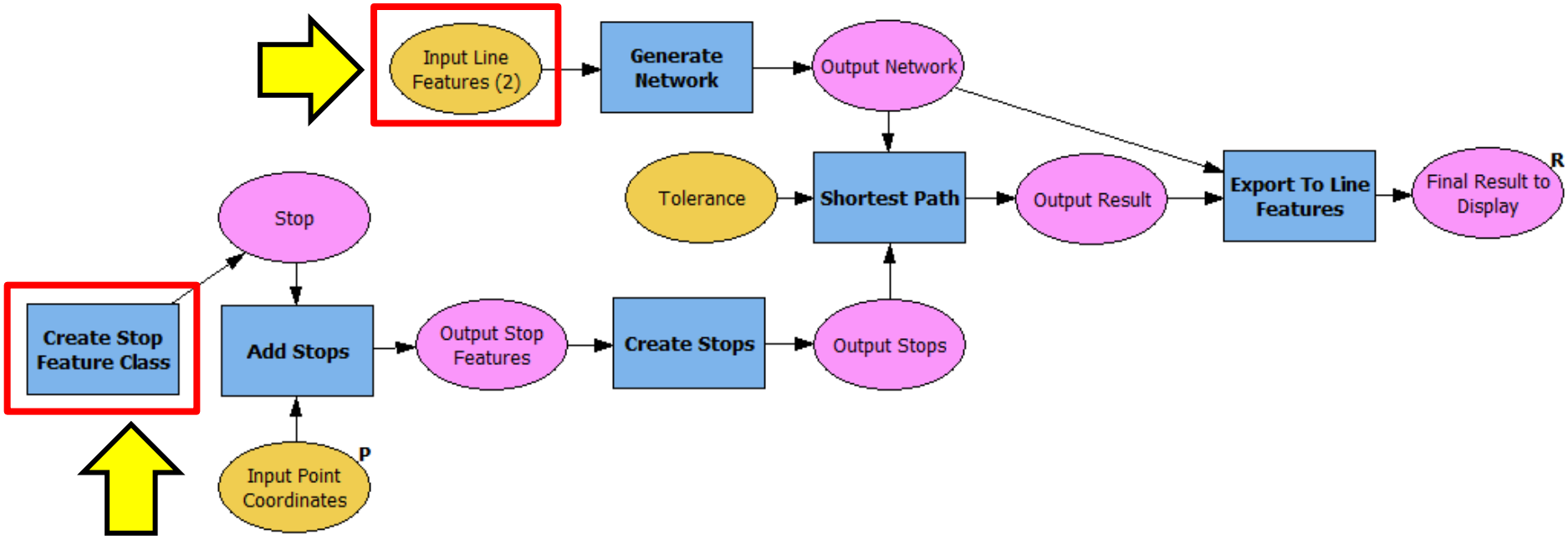
- A better solution for you to save time on designing the process:

Network Analysis – Shortest Path

SuperGIS Server API Samples



Network Analysis – Shortest Path



ONLY two places need to be modified!

Q&A Time

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