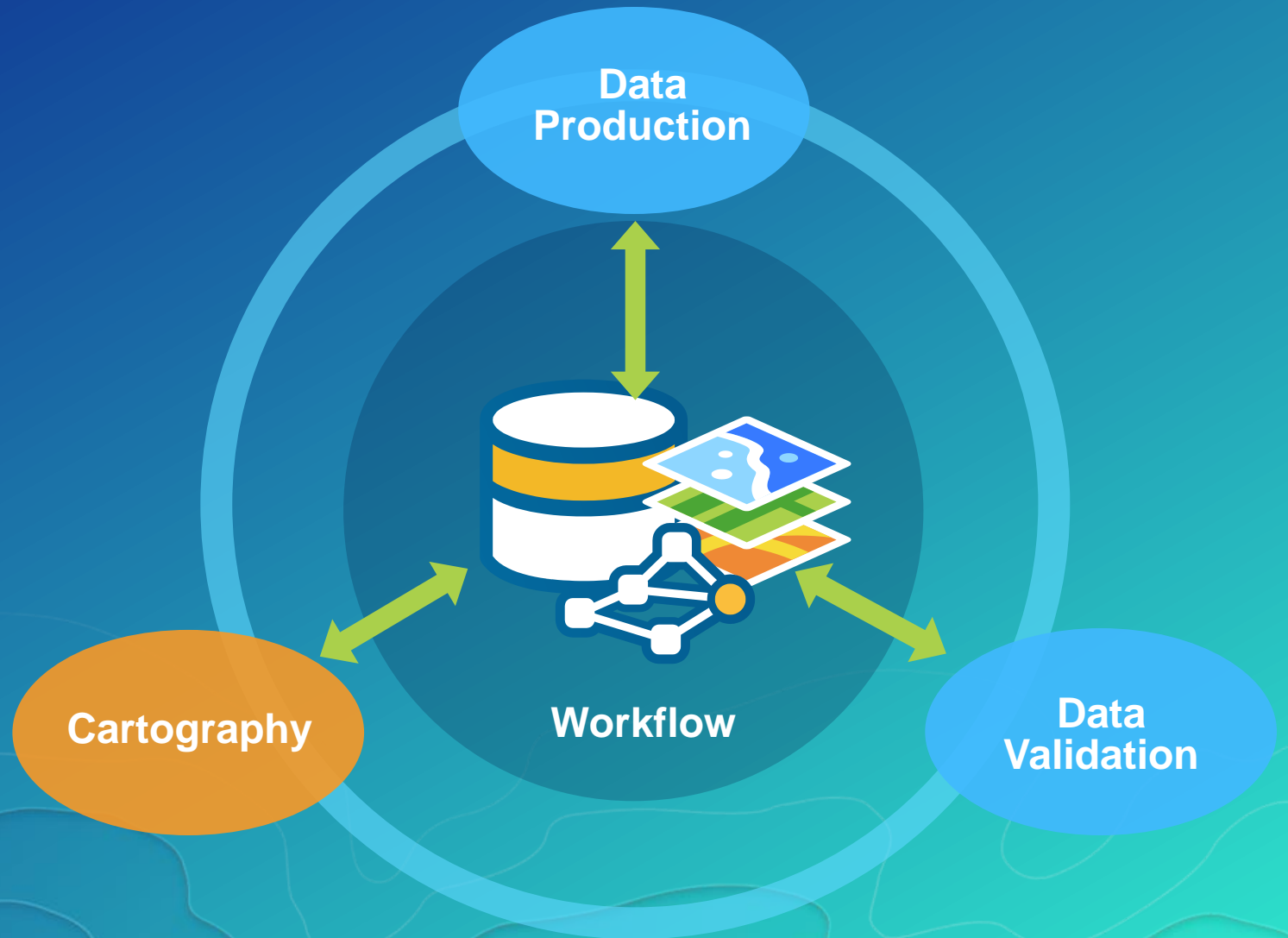


Esri Production Mapping: Creating Smart Surround Elements

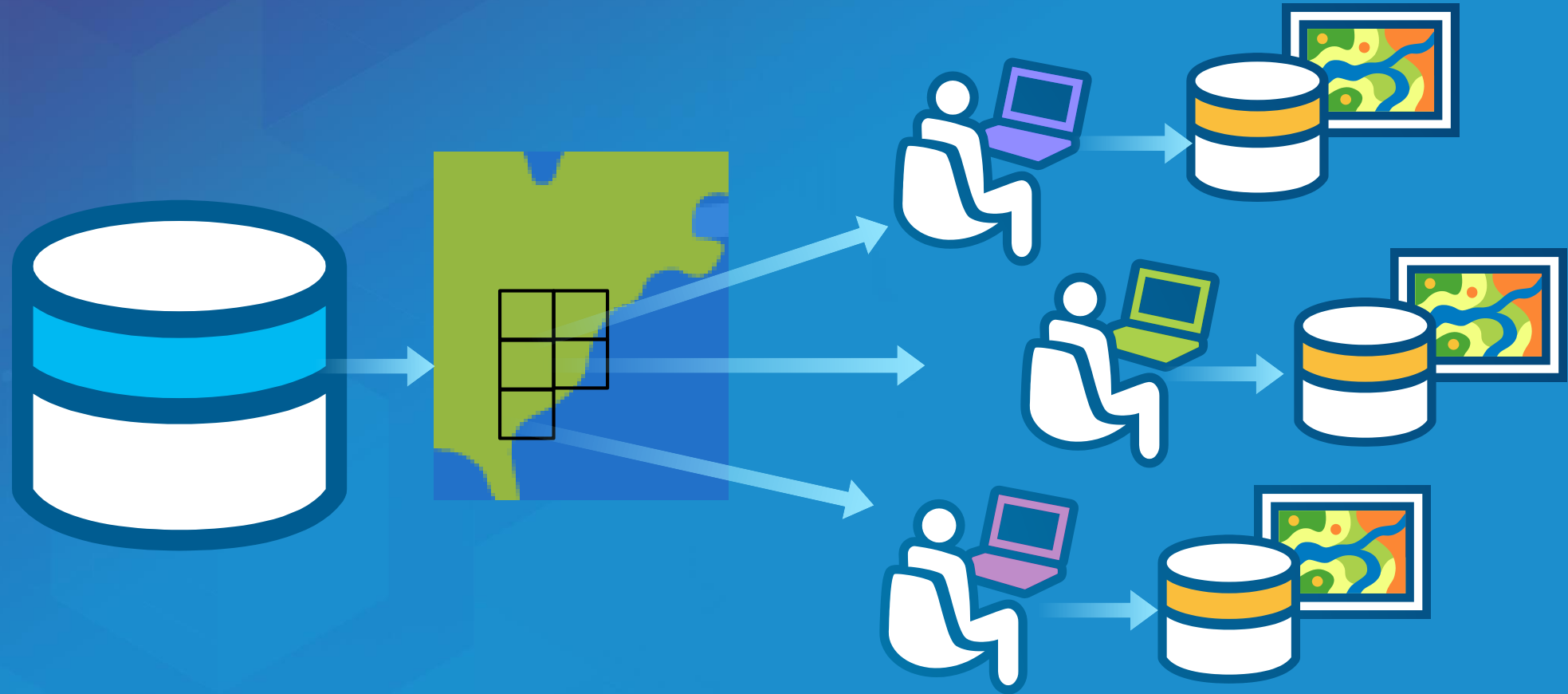
MADHURA PHATERPEKAR

Esri Production Mapping

A collection of ArcMap Extensions



Typical Cartographic Process

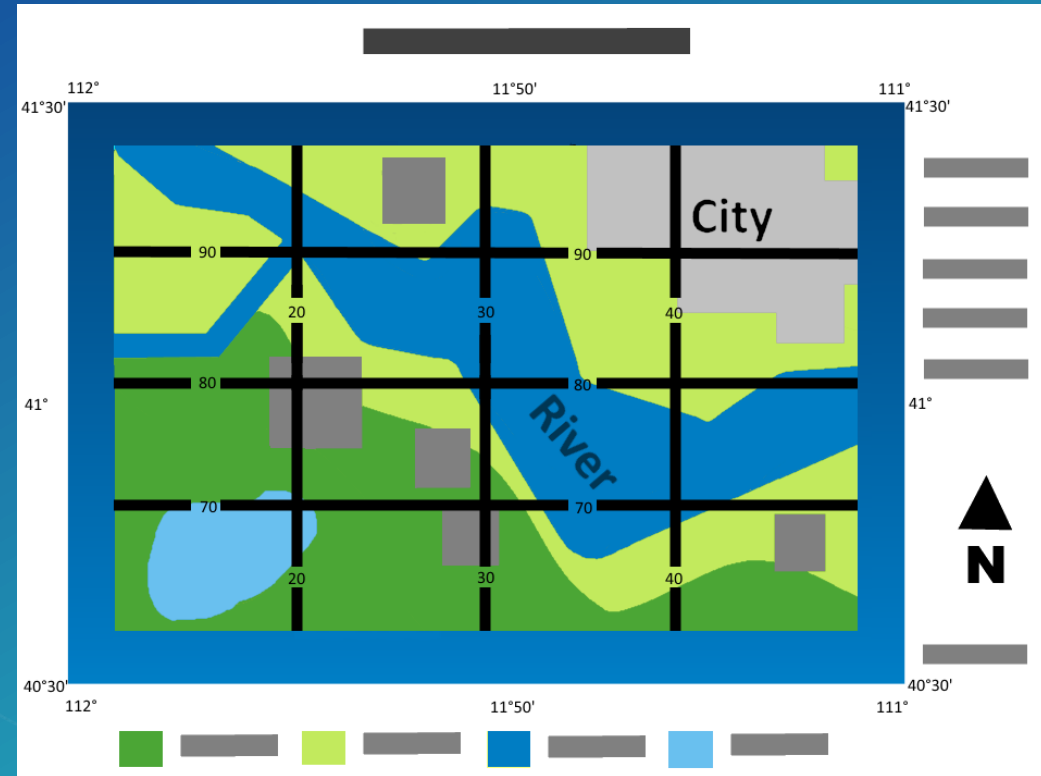


Eat, Map, Sleep, Repeat...

Layout

Providing Context

- Elements
 - Producer Info
 - Logos
 - Label
 - Table
 - Legend
 - North Arrow



Graphic Table Element

Data driven tables

- Dynamic table
 - Updates with map
- Data driven table
 - Values direct/ derived
- Customizable design

SALINAS, CALIFORNIA			
LOC I-SNS	APP CRS	Rwy Ldg	4825
		TDZE	82
117.3	311	Apt Elev	85
ATIS		NORCAL APP CON	
124.85		127.15 133 251.15 387	
A pilot briefing bar and a section of a communications bar from an aeronautical chart			

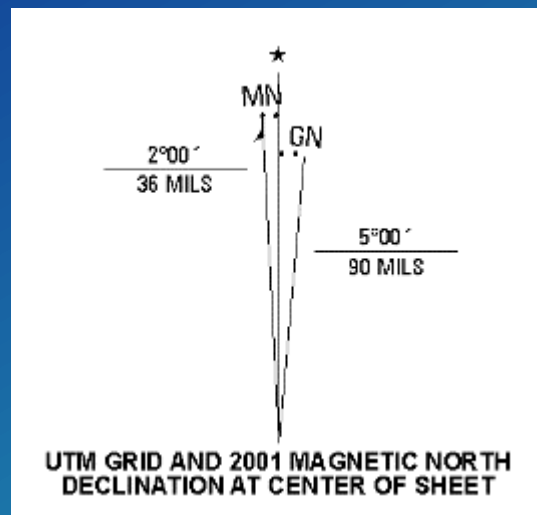
ROAD CLASSIFICATION	
Primary highway, hard surface	Light-duty road, hard or improved surface
Secondary highway, hard surface	Unimproved road
A legend composed of individual text and line elements	

Topographic North Arrow

Using Declination Angles

- **Dynamic Element**
 - Updates on map location
 - Updates on date
- **Topo Maps**
- **Limited Customization**
 - **Create Declination Diagram**

<https://blogs.esri.com/esri/arcgis/2013/08/22/create-declination-diagram-north-arrow-with-python/>



The screenshot shows the 'Topo North Arrow Properties' dialog box. It has three tabs: 'Topo North Arrow', 'Area', and 'Size and Position'. The 'Topo North Arrow' tab is selected. The 'Update dynamically' checkbox is checked. The 'Declination Date' section has a 'Date' dropdown menu set to 'Wednesday, April 07, 2010'. The 'UTM' section has a 'Zone' text box and a button with a document icon. The 'Magnetic North' section has radio buttons for 'West' and 'East' (selected), and three spinners for 'Degrees' (0), 'Minutes' (0), and 'Mils' (0). The 'Grid North' section has radio buttons for 'West' and 'East' (selected), and three spinners for 'Degrees' (0), 'Minutes' (0), and 'Mils' (0).

Demo



Conclusion

- Layout reusable template
- Use Dynamic Elements
- Map automation

Questions??

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Complete Answers and Select "Submit"





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