Automating Map Production with Python and Esri Production Mapping

STEVE MOORE
What is Production Mapping

• Supports high-volume and custom map creation
• Standard, repeatable workflows
• Configurable
What is ArcPyProduction

• Access to Production Mapping through Python
• Offers increased automation

• **ArcPyProduction site package**
  - Mapping module
  - Generalization module
  - Aviation module
    - Airports submodule
    - Charting submodule

```python
>>> import arcpy
>>> import arcpyproduction
>>> arcpy.CheckOutExtension(['foundation'])
```
Other ArcPyProduction Functionality

• Grids:
  - ListGrids()
  - Behavior-based calculator methods
    - calculateExtent()
    - calculateDataFrameSize()
    - calculateScale()

• Data Frame:
  - ClipDataFrameToGeometry()

• Layout:
  - SetPageSize()
Web Implementation

- Production Mapping Server – Mapping and Visualization Island

Architectural Diagram:
- GP Services
- Python Scripts
- MXDs
- Database
- Server
- ArcGIS
- Web
- Mobile
- Public Access
Web Implementation

- Product On Demand (POD) - https://github.com/Esri/product-on-demand
Demo
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