

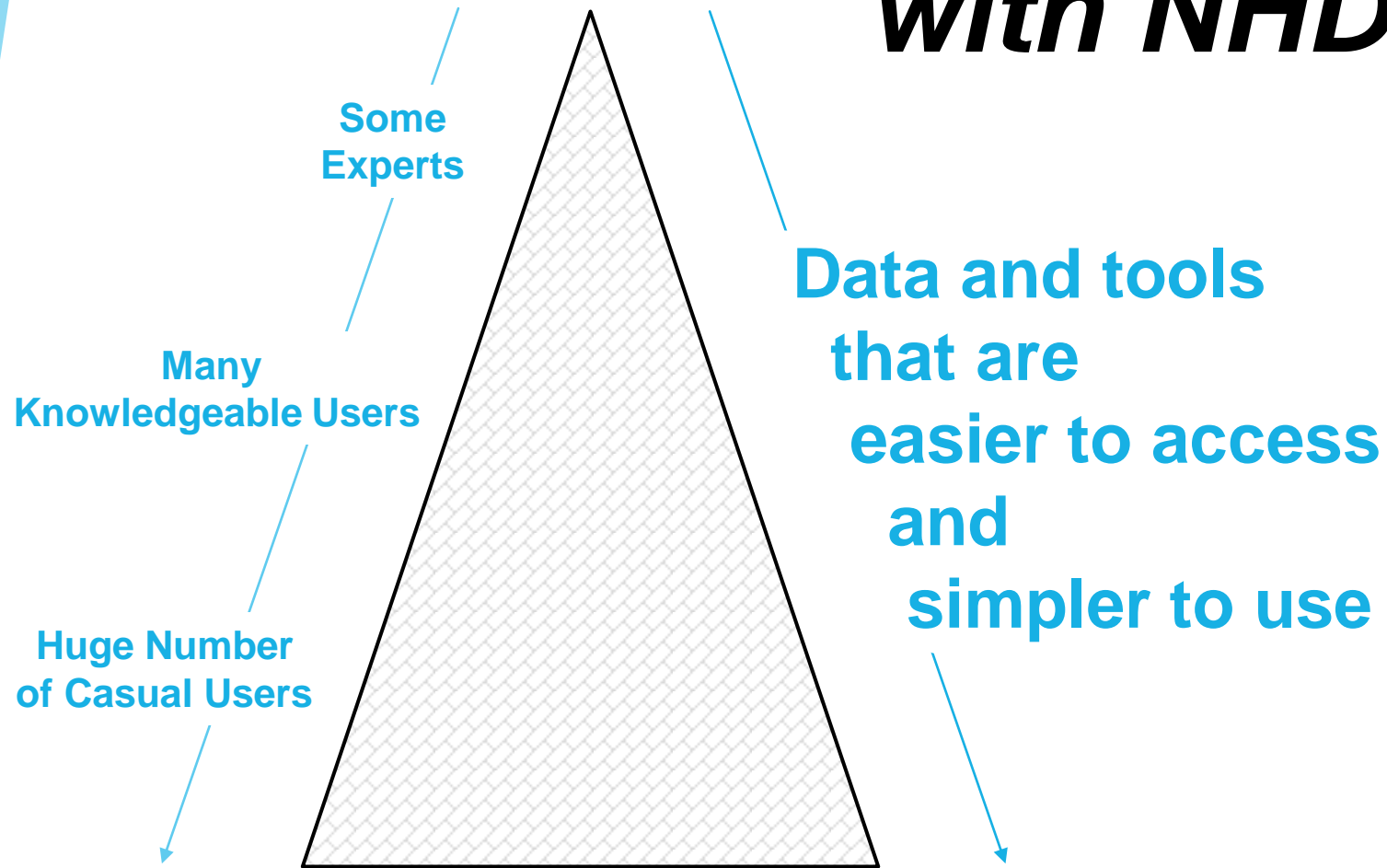
GIS Session

National Water Quality Data Management Meeting

May 29-June 1, 2018

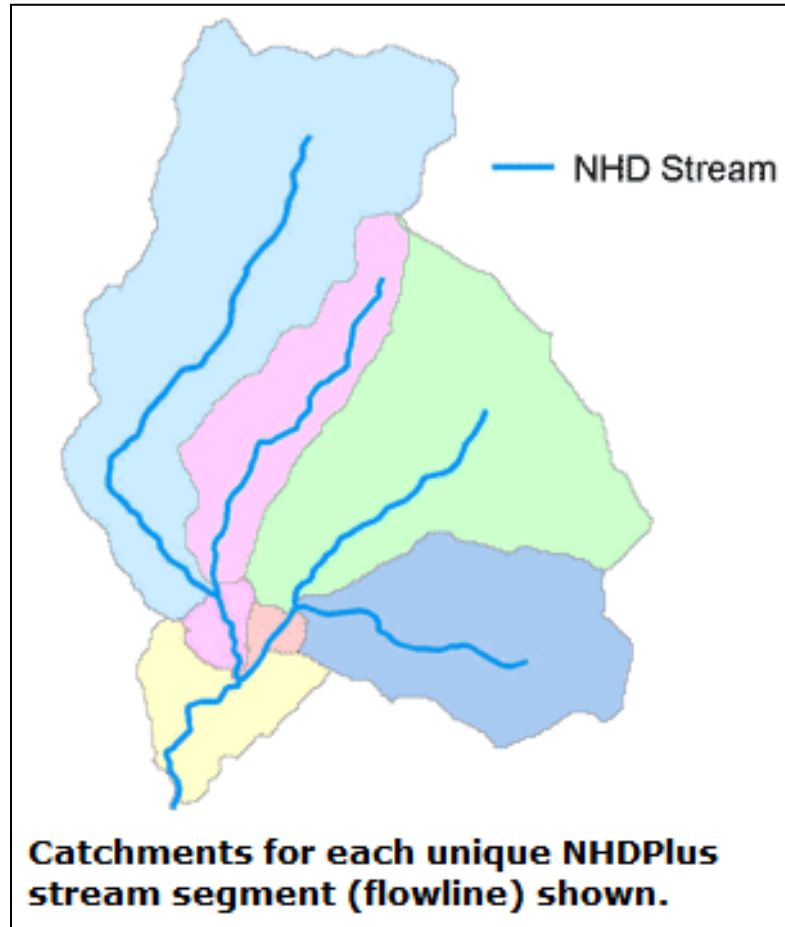
Shepherdstown, WV

Working Down the Pyramid with NHDPlus



National Hydrography Dataset Plus (NHDPlus)

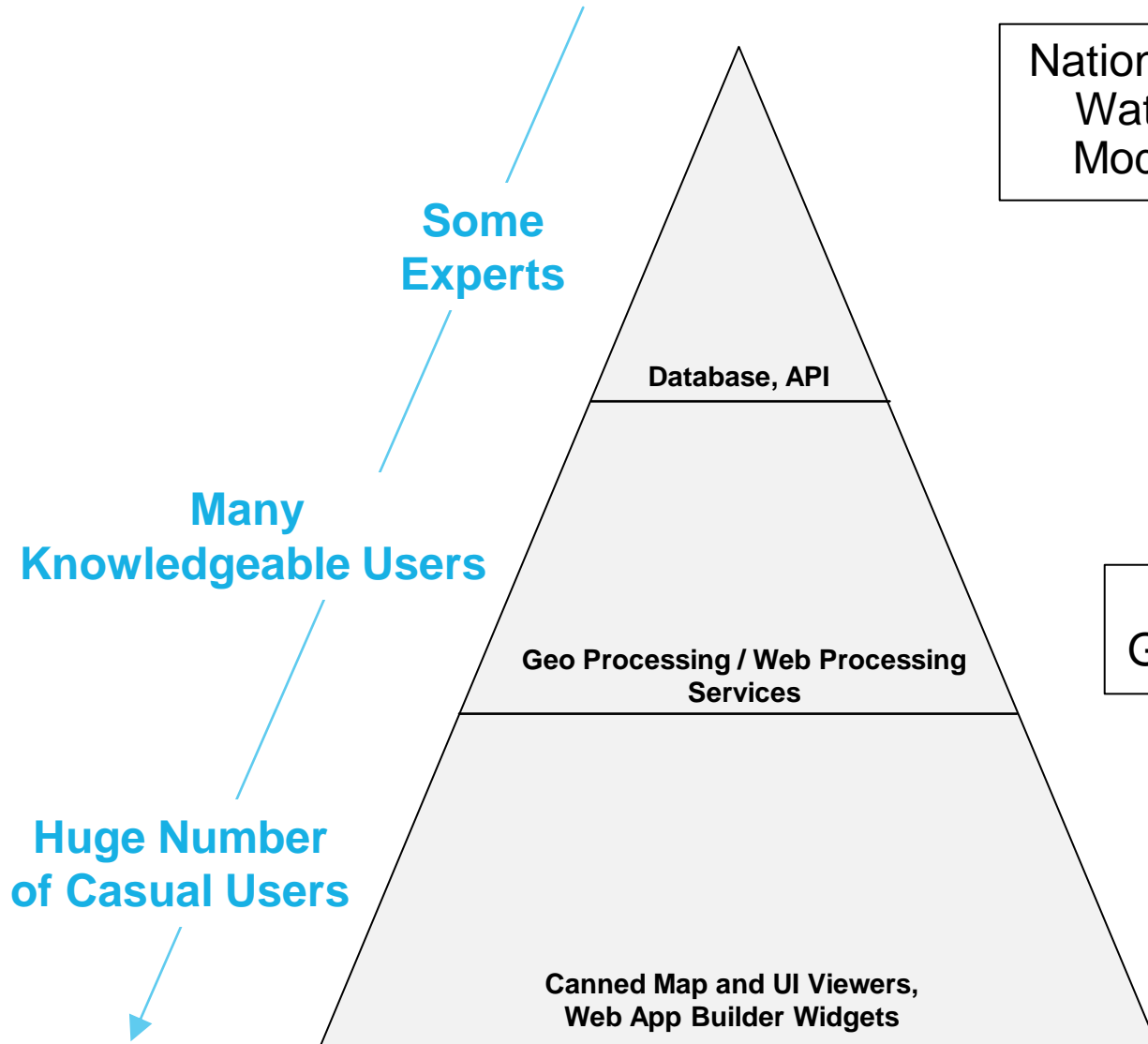
An integrated suite of geospatial products including flow volume and velocity estimates to support modeling



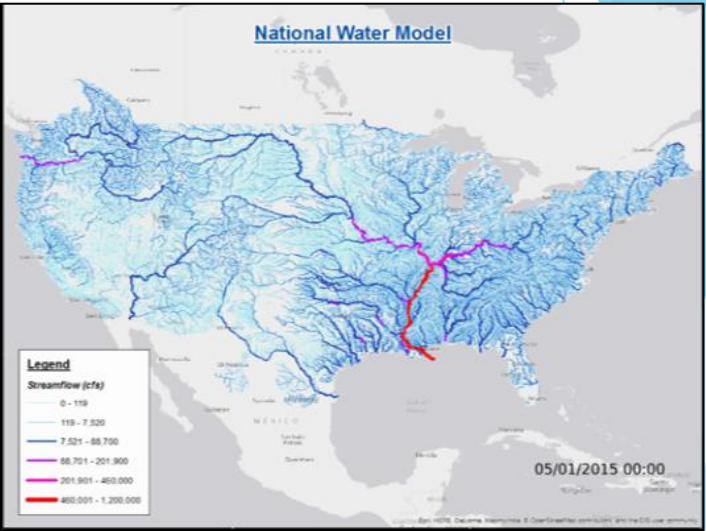
Incorporates -

- Hydrography (streams)
- Watershed Boundaries
- Elevation

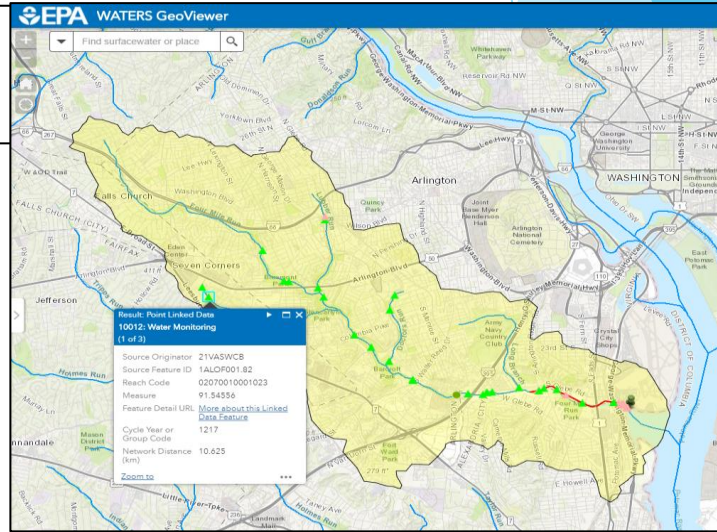
NHDPlus Users and Technologies



National Water Model



WATERS GeoViewer



NHD*Plus* Core Tools and Services

- * Desktop tools (ESRI ArcGIS)
 - * Data prep and check-update utilities for your local NHD*Plus* holdings
 - * Network navigation
 - * Watershed delineation
 - * Catchment attribute allocation and accumulation (CA3T)
- * Web services (ESRI and Open Source)
 - * Mapping and analytical services including -
 - * Map layers
 - * Network navigation with linked data search
 - * Watershed delineation
 - * Watershed report
 - * And others ...
 - * Accessible by desktop clients (ESRI ArcGIS, Google Earth ...)
and Web viewers (ESRI ArcGIS Online ...)



NHD*Plus* Tools for Demo

- Analytical services as ESRI GP services
 - Upstream/downstream search
 - Watershed delineation
- **WATERS GeoViewer**
 - ArcGIS Online functionality plus analytical services
 - Search for linked data
- **Enhanced watershed report**
 - Incorporates StreamCat catchment attributes



Demo

Demo of NHDPlus Services in ArcMap

Demo of WATERS Geoviewer

Questions?

Tools Available:

- ArcMap
- ArcGIS Online
- WATERS Geoprocessing Services
- WATERS Geoviewer
- NHDPlus Services
- Water Quality Portal Services

Data Available:

- South Dakota 2016 GIS Data
- South Dakota 2018 ATTAINS Attribute Data
- South Dakota 2018 GIS Data
- South Dakota Catchments