

Final Phase 6 Land Use Database Project Plan

May 4, 2016

**Peter Claggett, Fred Irani, Quentin Stubbs, Renee Thompson
US Geological Survey
Eastern Geographic Science Center**

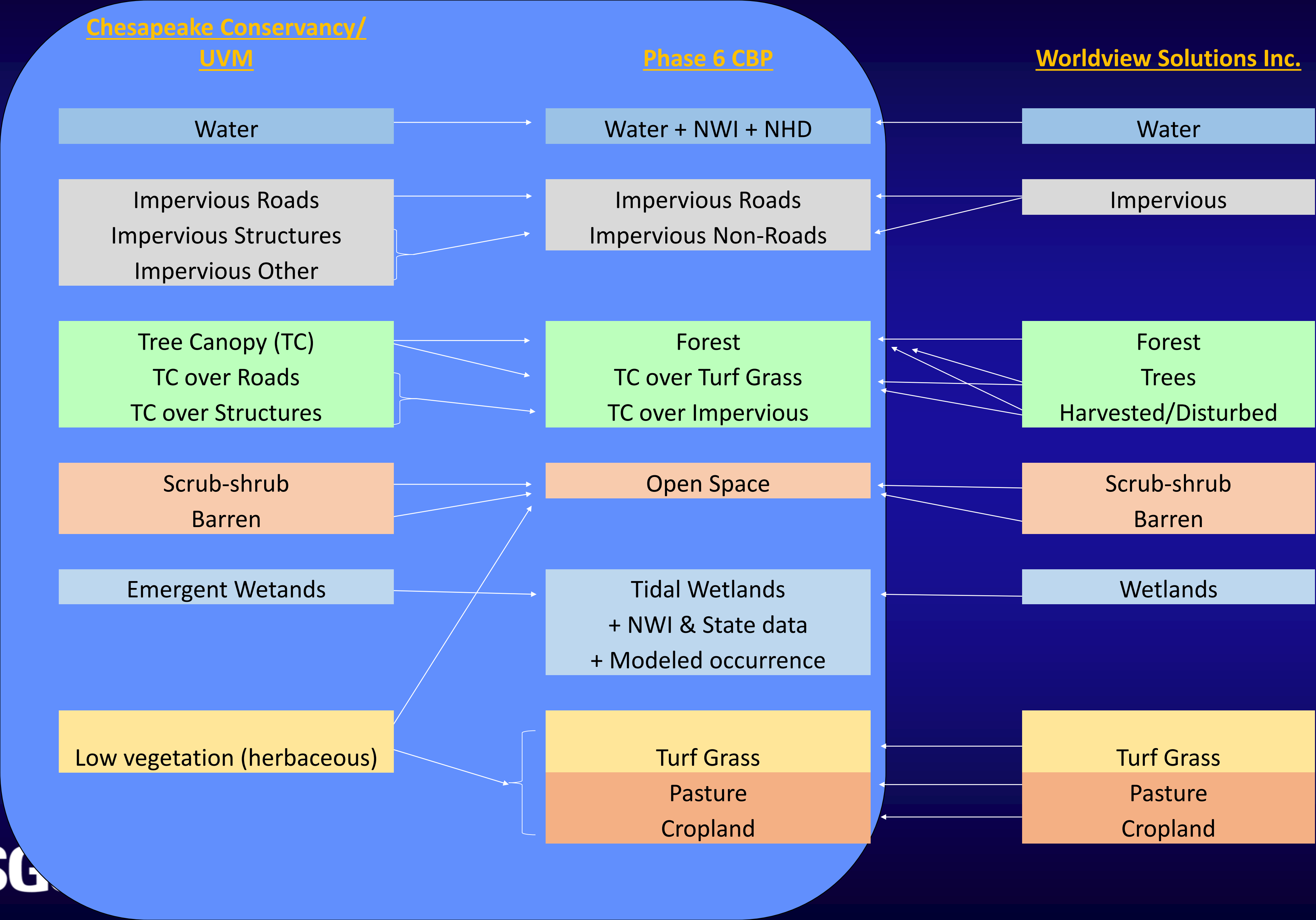
Overview

- **USGS Process Development Status**
- **Overall Schedule Completion Estimate**

High Resolution LU Process

- Dec '15 – May '16 Automate Steps to:
 - Perform Cross Walk to Create 13 Classes at 1 Meter Resolution:
 - Impervious Road, Impervious Non-Road
 - Tree Canopy over Impervious, Tree Canopy over Turf Grass
 - Turf Grass
 - Forest
 - Mixed Open
 - Pasture, Crop
 - Tidal Wetlands, Floodplain Wetlands, Other Wetlands
 - Water

Data Cross walk

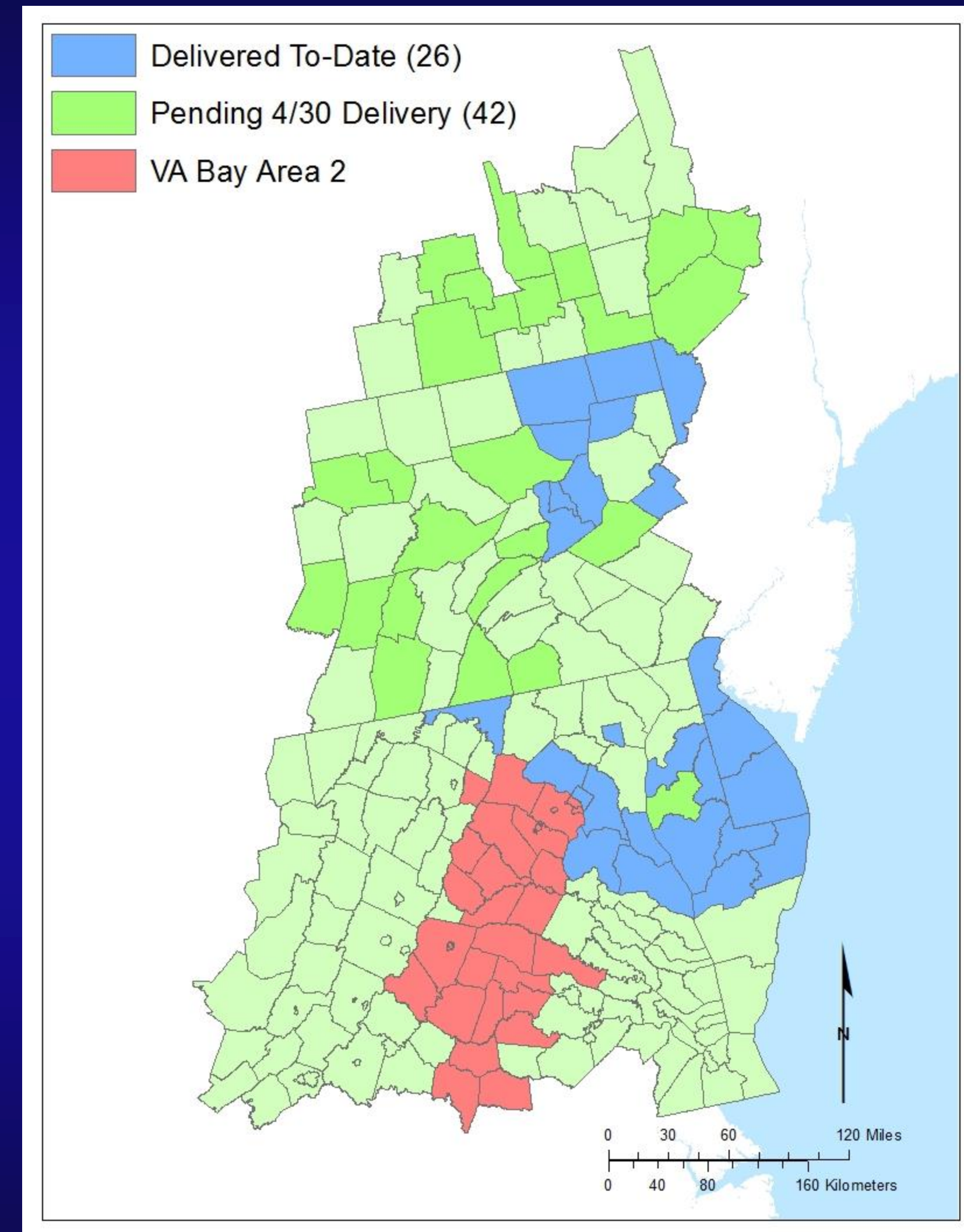


High Resolution LU Process

- Automate Post Processing Steps to:
 - Aggregate Individual Classes to 10m Resolution
 - Add Tree Canopy to Virginia (August)
 - Add PA Wetland Data to PA (August)

May 2016 Data Delivery Status

- All Delivered LC Data has been Separated into Individual Class Masks (1,null) and Configured by County Using a Regional Model



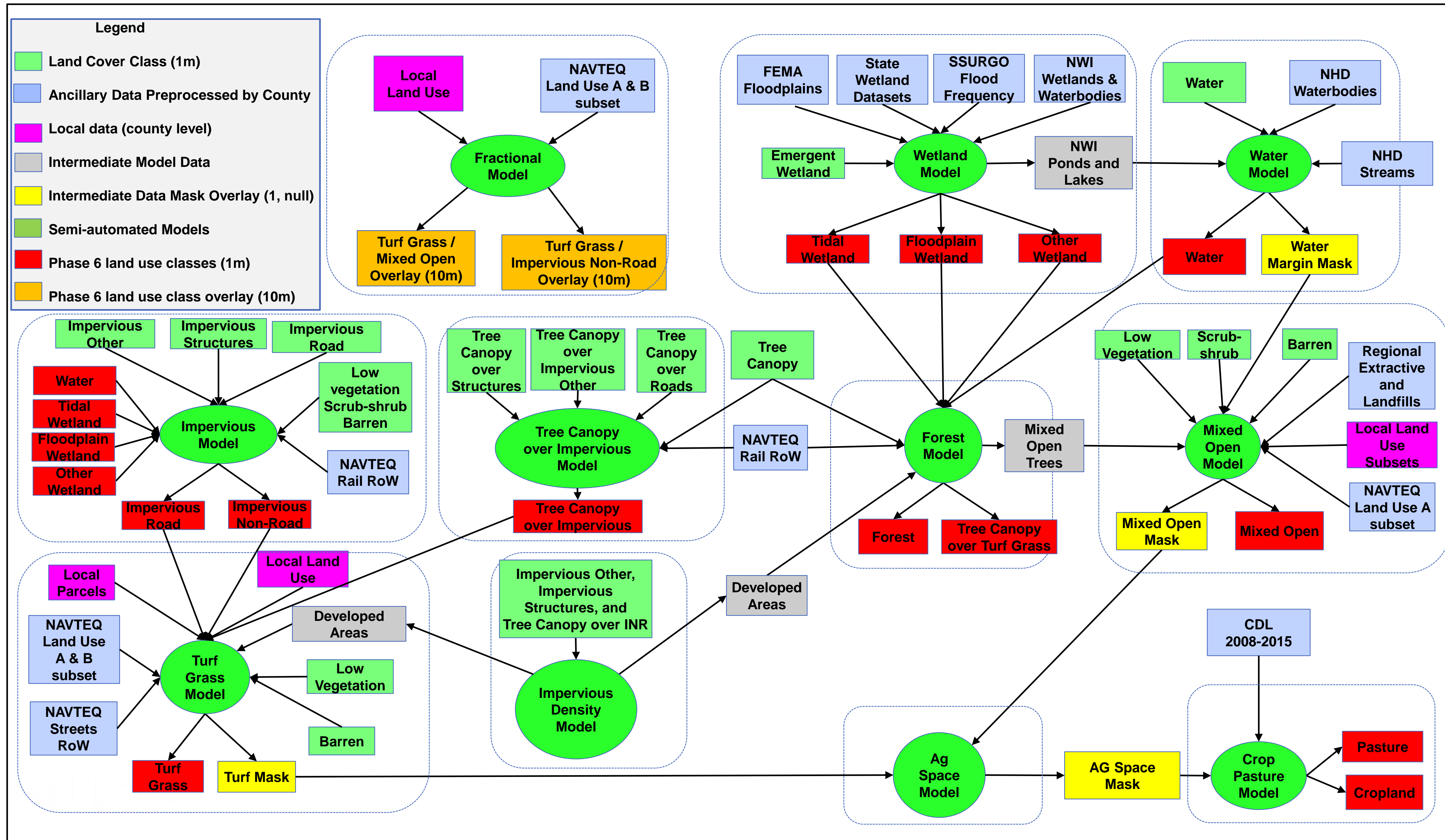
Process Model Status

- Completed Regional Utility Models
 - Extract State Counties
 - Buffer County Shapes
 - Create all Land Cover Masks for Each County
 - Create All County Impervious Non-Roads Class
 - Extract Selected Regional NavTec to Counties

Process Model Status

- Regional Utility Models Still Pending
 - Create Regional/Co Street RoWs
 - Create Regional/Co Wetlands
 - With Water Bodies
 - Separate to Counties

Phase 6 Land Use Development Process Last Modified 050416



Phase 6 Land Use Development Process Last Modified 050416

Legend

Land Cover Class (1m)

Ancillary Data Preprocessed by County

Local data (county level)

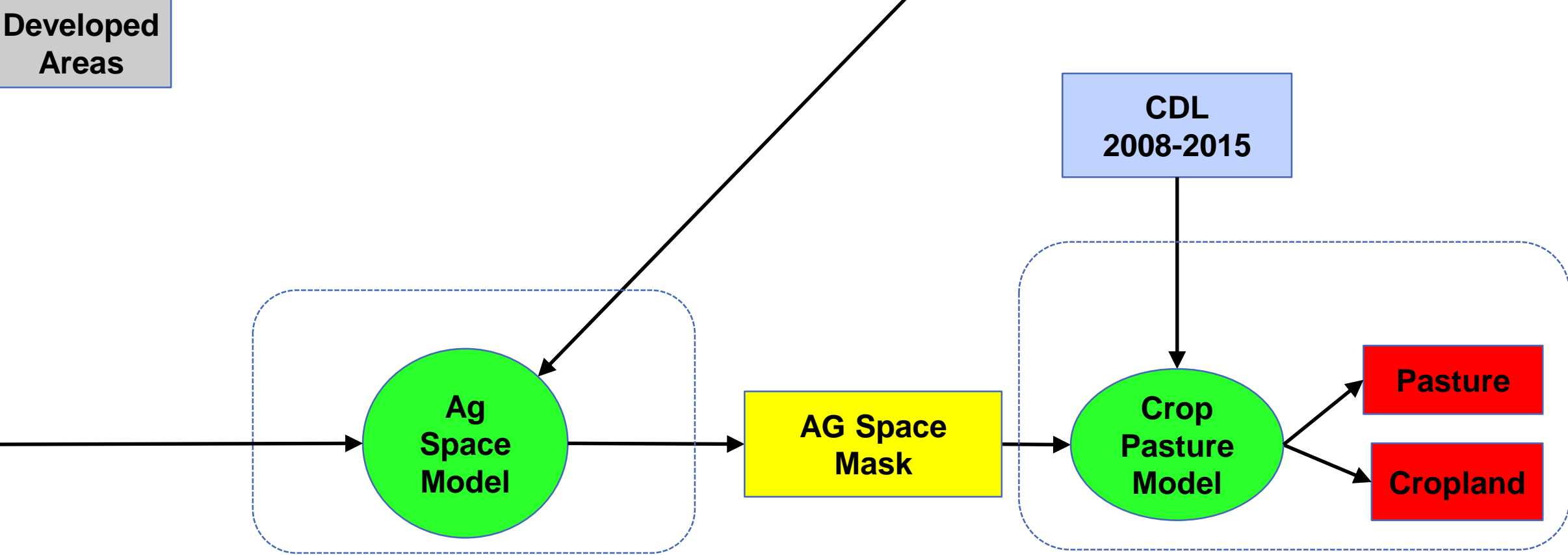
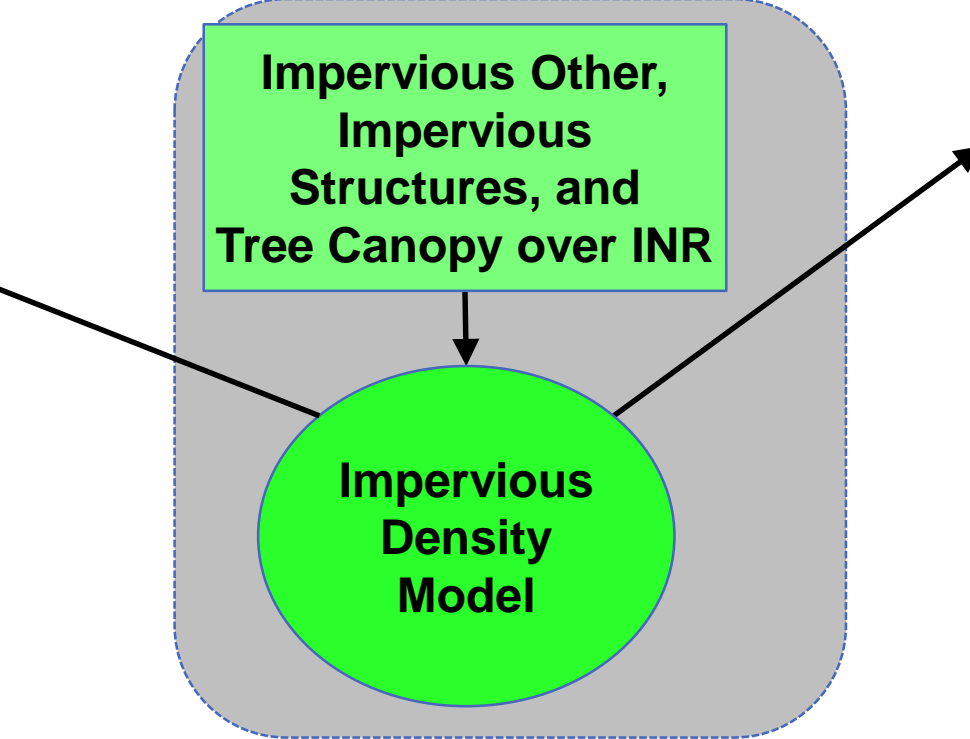
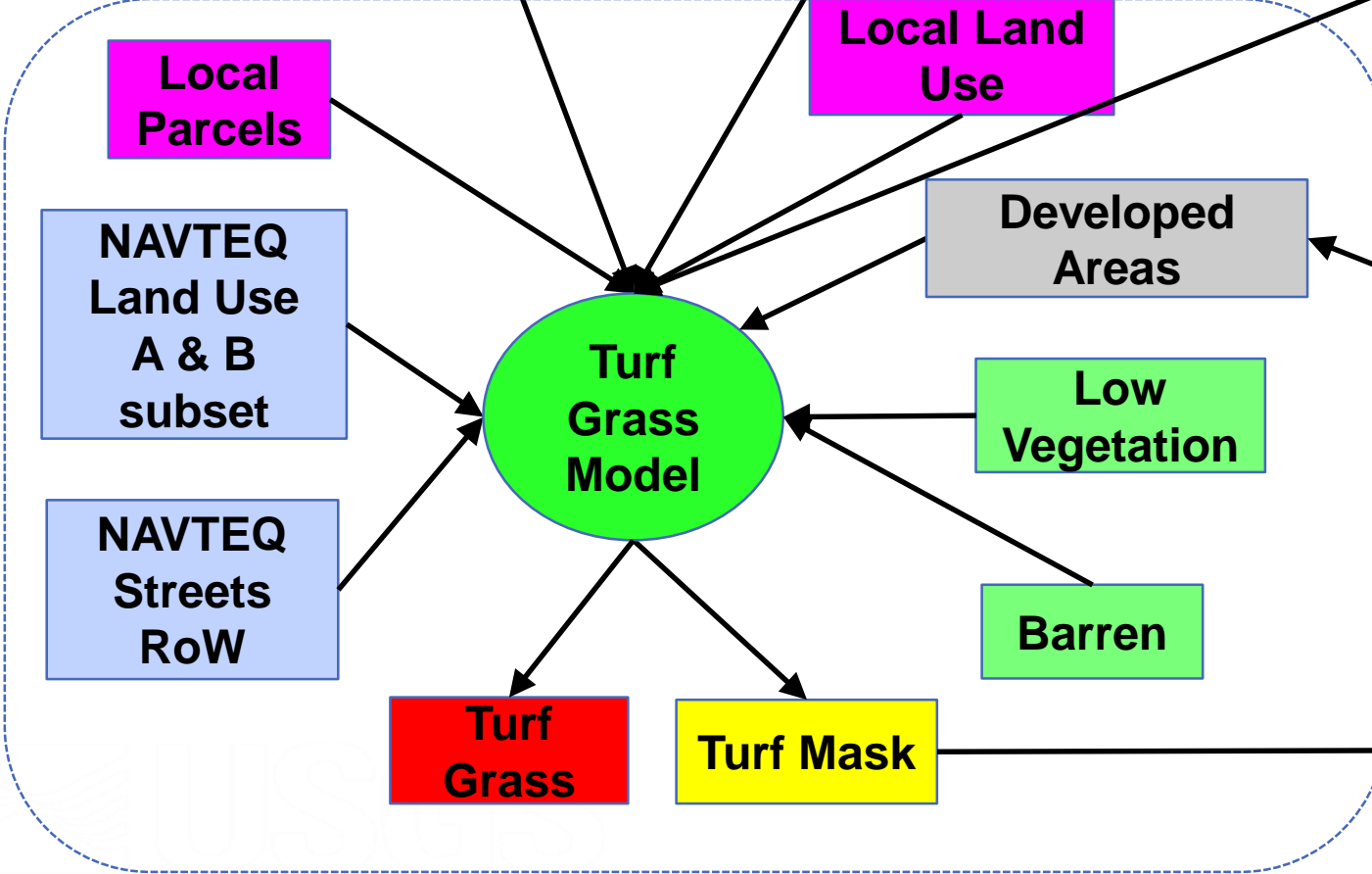
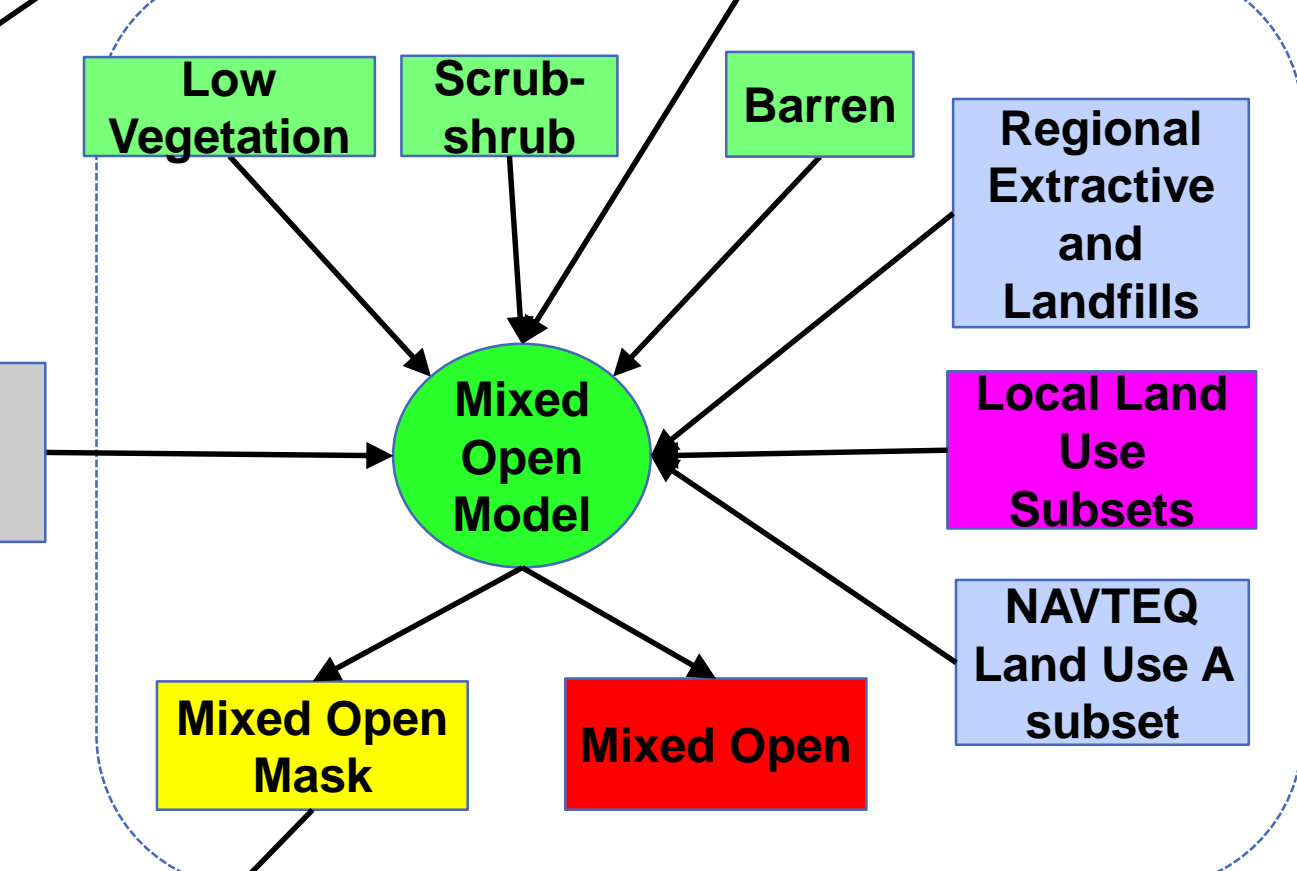
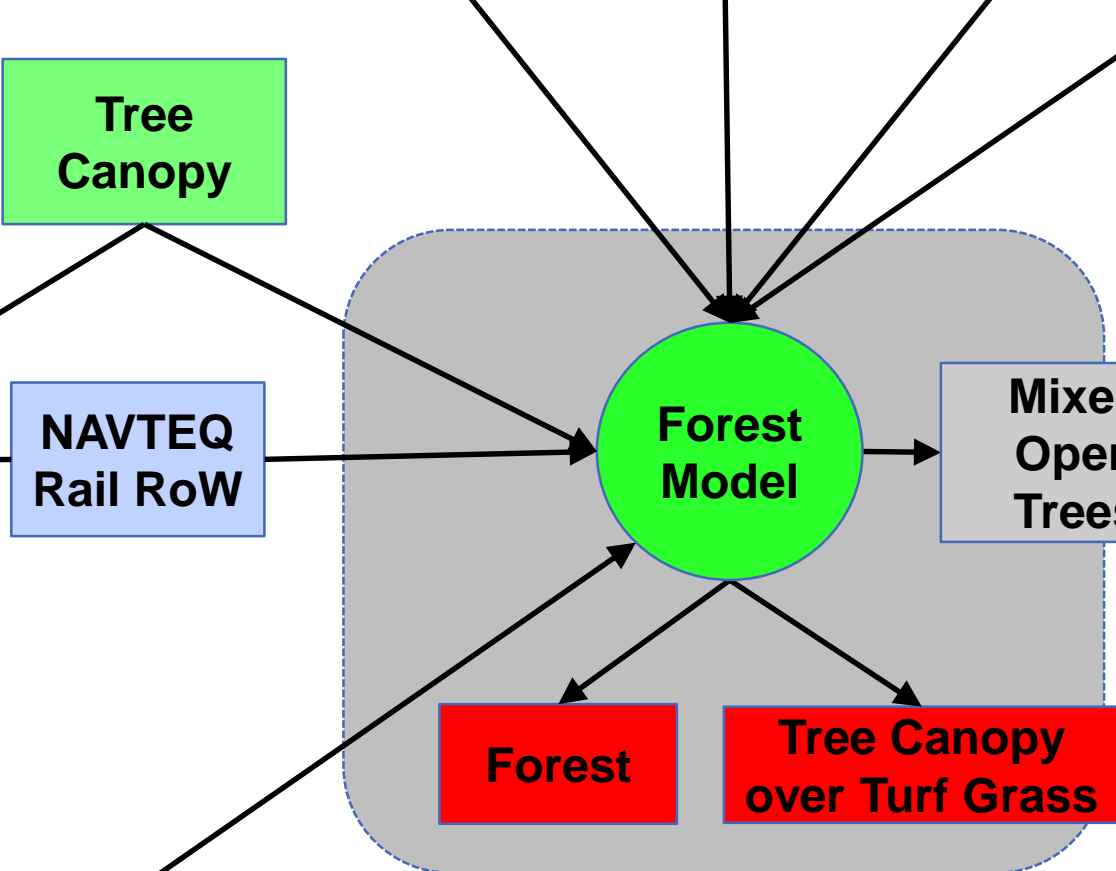
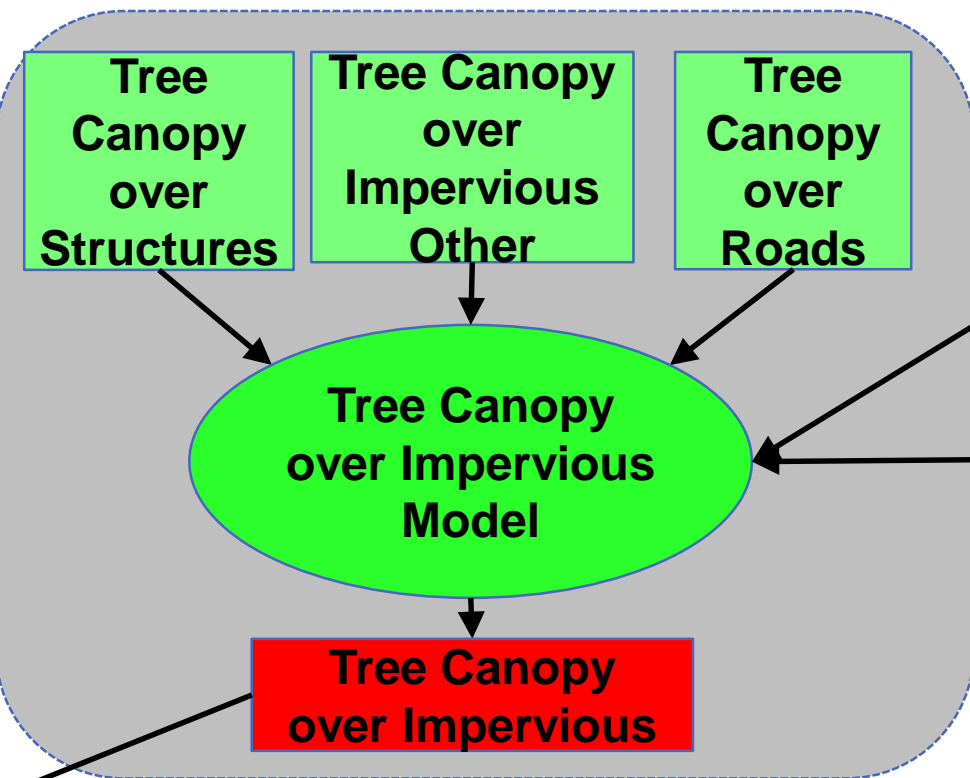
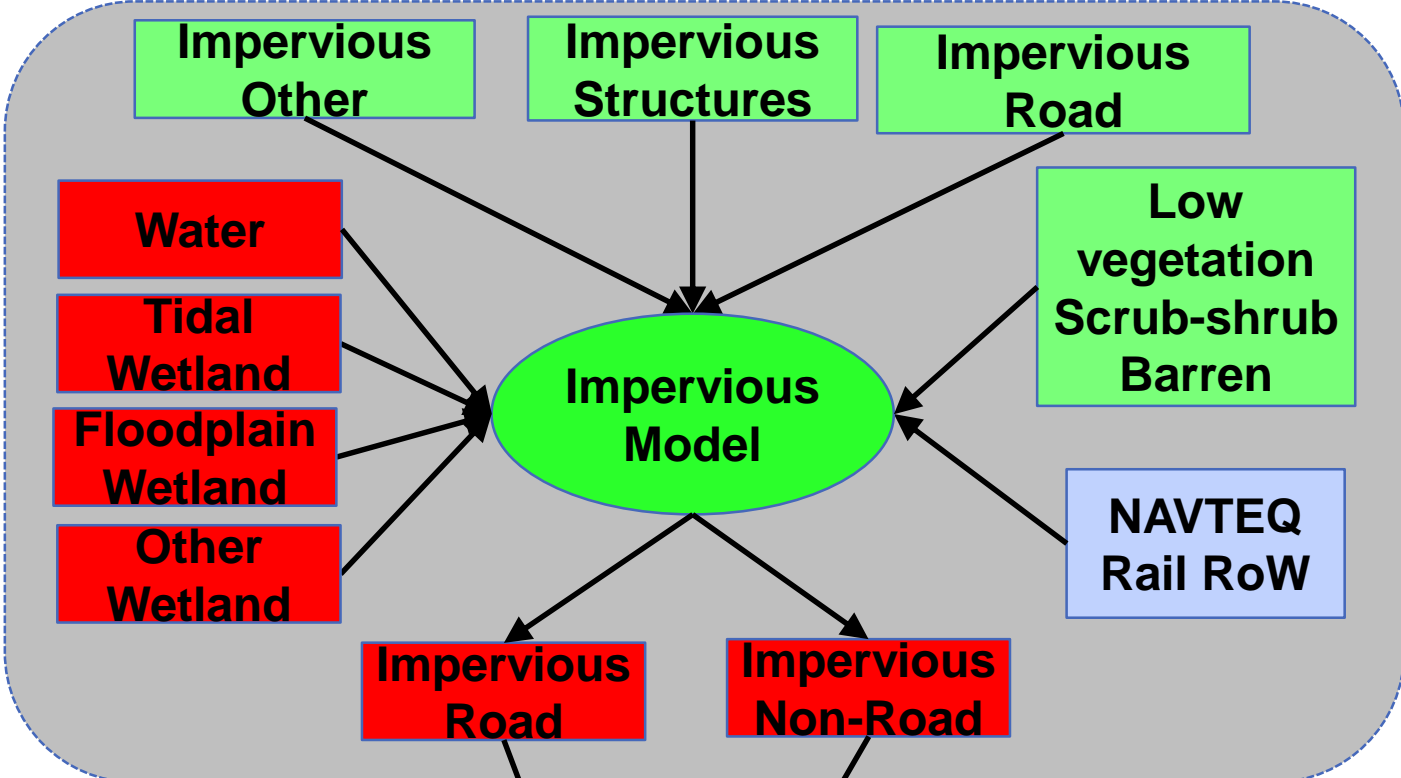
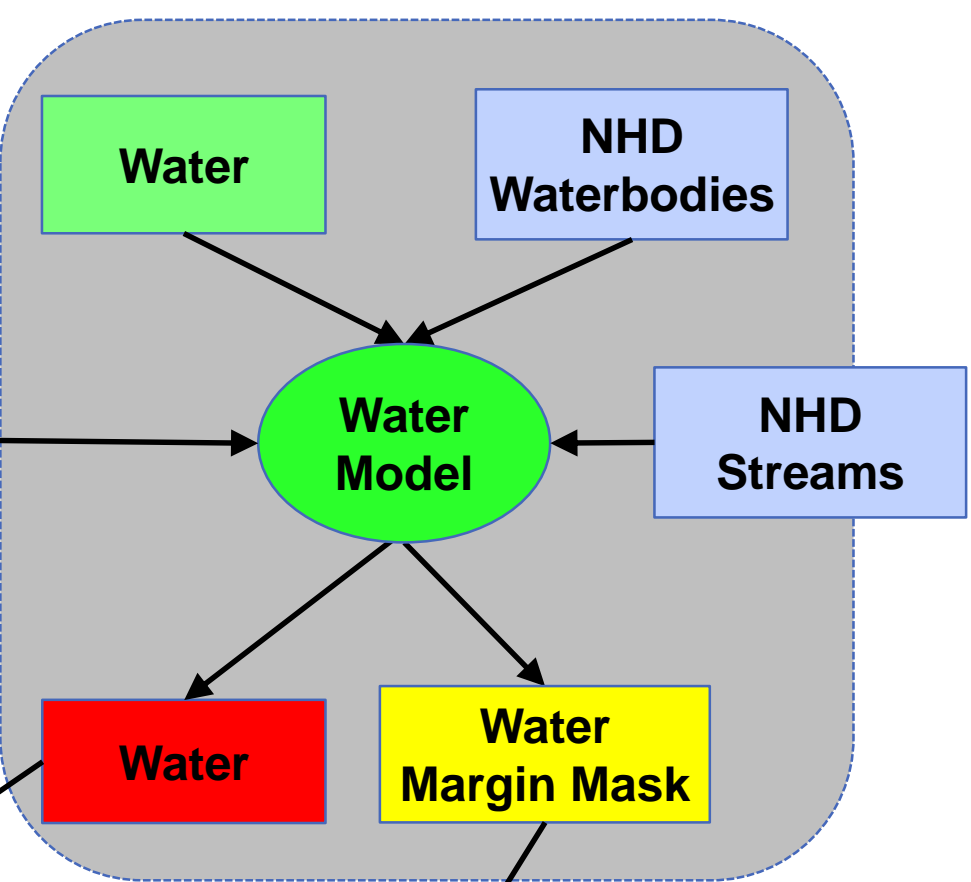
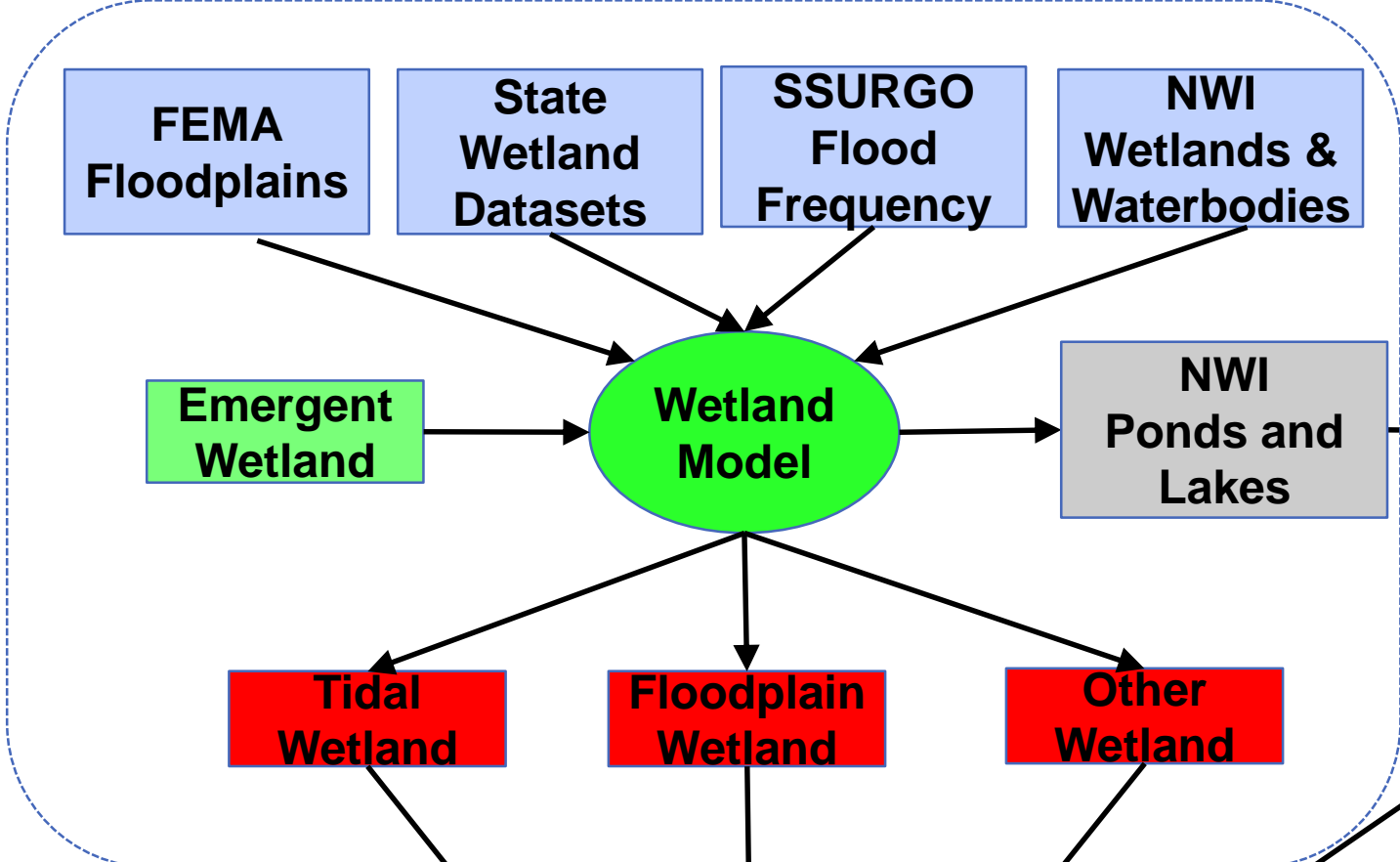
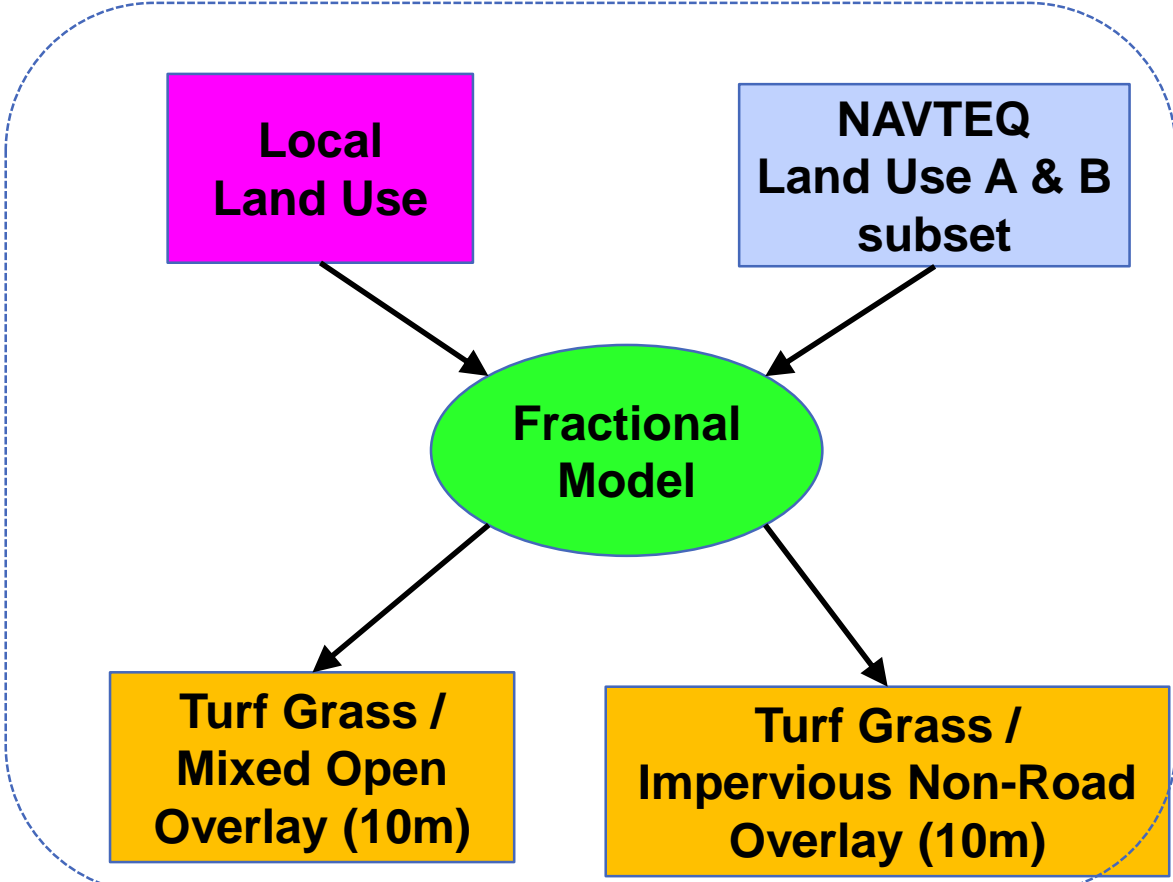
Intermediate Model Data

Intermediate Data Mask Overlay (1, null)

Semi-automated Models

Phase 6 land use classes (1m)

Phase 6 land use class overlay (10m)



Production Schedule

- Models Still to be Finalized :
 - Mixed Open
 - Turf Grass
 - Wetland
 - Ag Space
 - Crop / Pasture
 - Fractional

Outstanding Production Issues

- In Need of LUWG Guidance:
 - Fractional Model Questions
 - Extractive Land Use
 - Application of Local Land Use Classes and Parcel Data

Current Best “Final Delivery” Estimate

- October 2016 To Finish Everything

Contact Information:

Fred Irani, USGS- EGSC
Chesapeake Bay Program Office
410 Severn Ave, Suite 109
Annapolis, MD 21403

410-267-9845

firani@usgs.gov

firani@Chesapeakebay.net

<http://www.chesapeakebay.net>

<http://chesapeake.usgs.gov/>

<http://egsc.usgs.gov/>