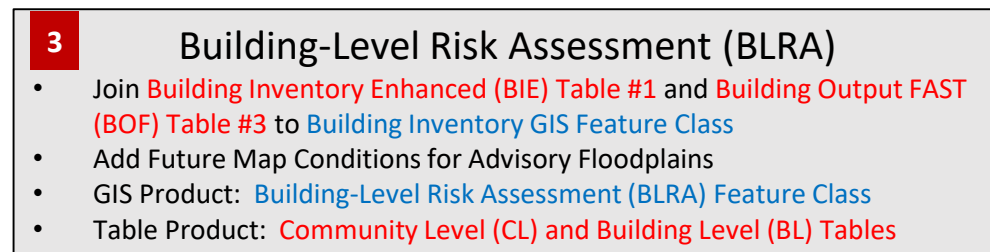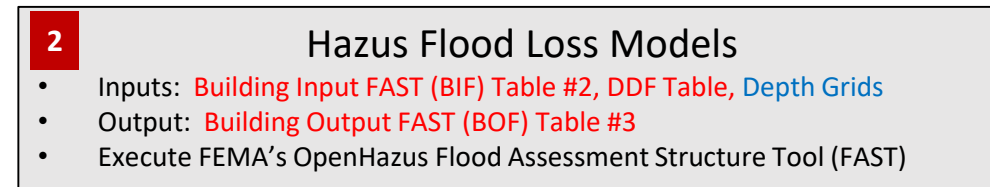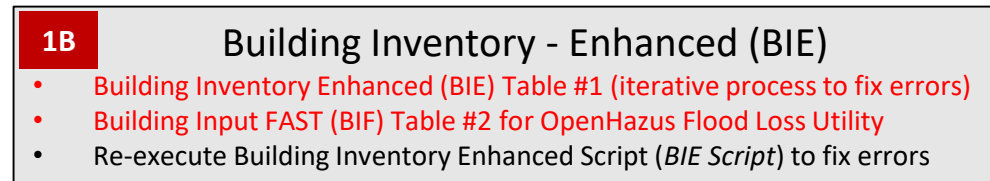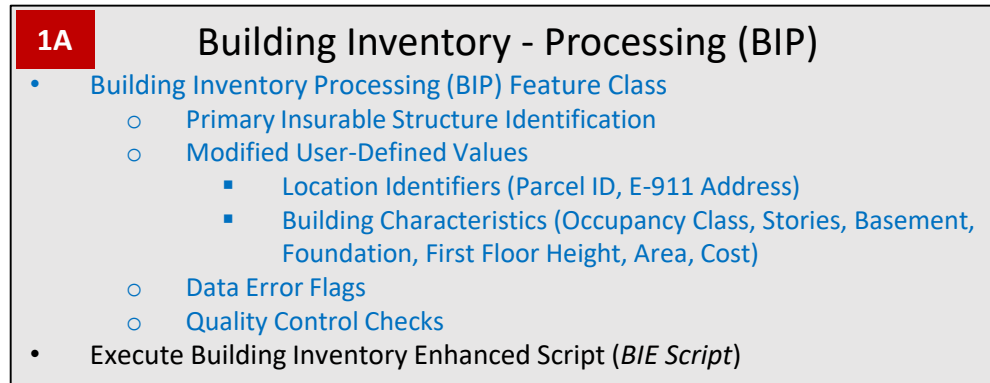# Building Inventory Workflow

Blue Text: GIS File
Red Text: Tables

1
BUILDING INVENTORY
Primary Building Identification & Hazus Attributes

Essential Facilities & Community Assets

1A Building Inventory - Processing (BIP)
- Building Inventory Processing (BIP) Feature Class
  - Primary Insurable Structure Identification
  - Modified User-Defined Values
    - Location Identifiers (Parcel ID, E-911 Address)
    - Building Characteristics (Occupancy Class, Stories, Basement, Foundation, First Floor Height, Area, Cost)
  - Data Error Flags
  - Quality Control Checks
- Execute Building Inventory Enhanced Script (*BIE Script*)

2
FLOOD LOSS MODELS
Open Hazus FAST

Flood Depths

Building Damage Estimates

1B Building Inventory - Enhanced (BIE)
- Building Inventory Enhanced (BIE) Table #1 (iterative process to fix errors)
- Building Input FAST (BIF) Table #2 for OpenHazus Flood Loss Utility
- Re-execute Building Inventory Enhanced Script (*BIE Script*) to fix errors

2 Hazus Flood Loss Models
- Inputs: Building Input FAST (BIF) Table #2, DDF Table, Depth Grids
- Output: Building Output FAST (BOF) Table #3
- Execute FEMA's OpenHazus Flood Assessment Structure Tool (FAST)

Unit of work at county scale

3
BLDG. LEVEL RISK ASSESSMENT (BLRA) DATABASE
Published to WV Flood Tool
Building Level & Community Level Outputs

3 Building-Level Risk Assessment (BLRA)
- Join Building Inventory Enhanced (BIE) Table #1 and Building Output FAST (BOF) Table #3 to Building Inventory GIS Feature Class
- Add Future Map Conditions for Advisory Floodplains
- GIS Product: Building-Level Risk Assessment (BLRA) Feature Class
- Table Product: Community Level (CL) and Building Level (BL) Tables

Unit of work at state scale