

THE ATIP FOUNDATION: Advancing the Bioeconomy in SW Virginia

**“Focused on establishing
Bioeconomy Industry Clusters”**

WHO WE ARE(WHAT WE DO)

- **Non-Profit, Formed in 2011, at the request of USDA**
- **Associated with the US Department of Agriculture**
- **Purpose – Support Rural Economic Development**
 - **Research Outcomes**
 - **Market Assessment**
 - **Patented Discoveries**
 - **Replicable Models for Advancing the Bioeconomy**

Bioeconomy: A Simple Definition:

“Converting agricultural by-product & waste into useable products”

Example –

Assembly Operations = Cars

Manure Conversion = Energy & Chemicals

FEDERAL BIOMASS RESEARCH DEVELOPMENT BOARD (BR&D)

- **Billion Ton Bioeconomy Report – 2016**
- **ATIP Forums conducted & Report to BR&D**
- **2nd Report released by BR&D, with our input**

DEVELOPING SUSTAINABLE, REPLICABLE MODELS

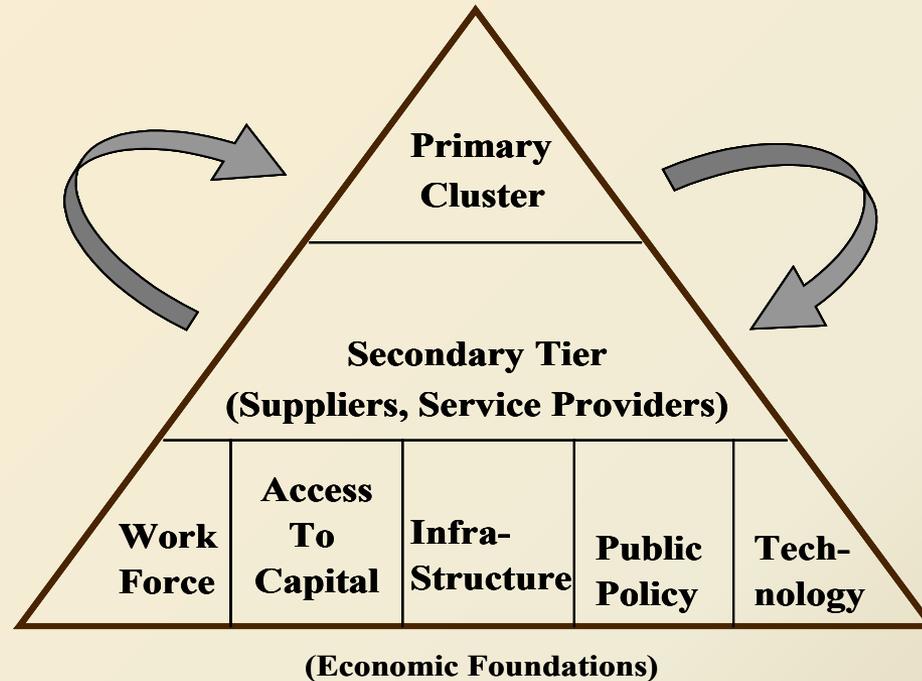
- Under USDA partnership agreements and grants
- Launched in Texas in 2017
- Current projects in Texas, SW Virginia, San Joaquin Valley in California & NW Ohio

ECONOMIC DEVELOPMENT 101

Three things happen in economic regions

- **Production Generates Wealth**
- **Suppliers & Service Providers Re-circulate Wealth generated**
- **Wealth migrates to other regions**

ATIP Established Replicable Model Based on Industry Cluster Model



Strengthening the 5 primary economic foundations in alignment with and support of our primary industry clusters is equally critical to our economic sustainability.

BIOECONOMY INDUSTRY CLUSTER

Clusters require 5 economic foundations

- Access to technology
- Access to infrastructure
- Supportive public policy
- Access to capital
- Access to a trained skilled workforce

SECTOR ENGAGEMENT

Clusters require 5 economic foundations

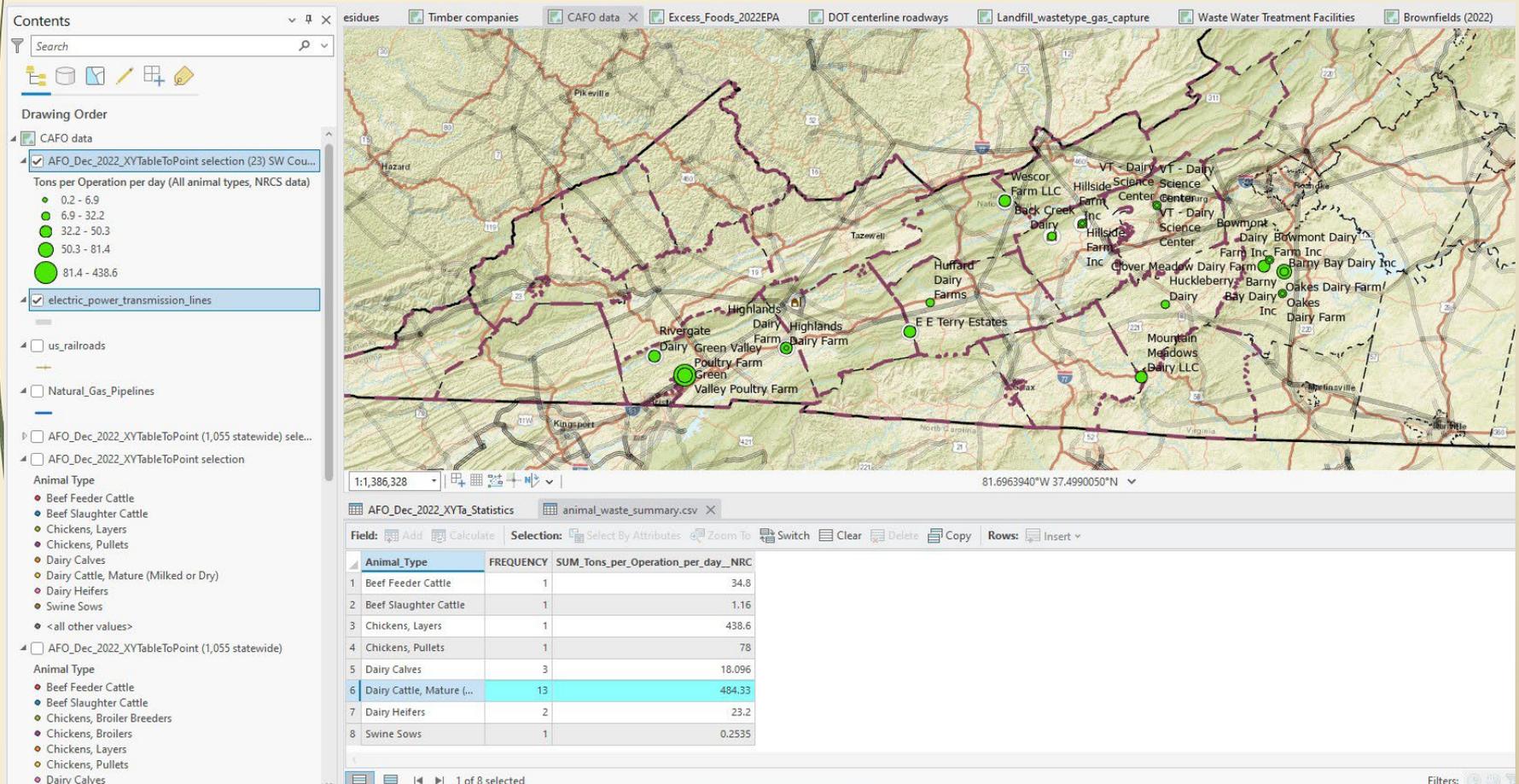
- **Academia, provides access to technology**
- **Government provides infrastructure, public policy**
- **Financial Services provides capital**
- **Education & Workforce development providers the workforce**
- **Business & Industry provide supplies & service providers**
- **Supply Chain from biomass source to end users provides the logistical support**
- **Economic Development provides the integration & alignment of the stakeholders in the 6 sectors**

ESTABLISHING THE MODEL

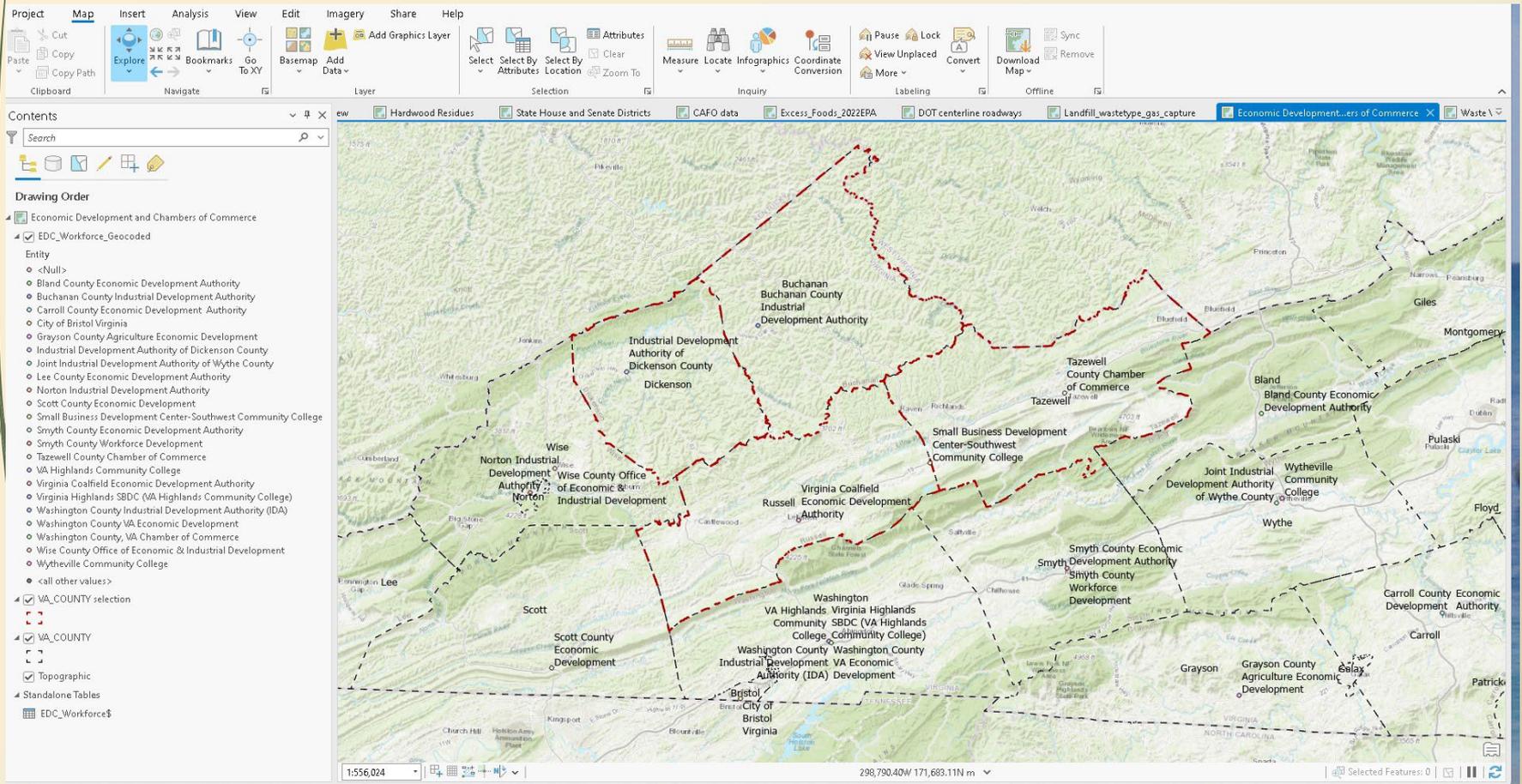
Three primary components:

- **Biomass Inventory via GIS Database**
- **Building the Economic Foundations**
- **Job Creation from:**
 - **Start Up businesses**
 - **Expansion of existing businesses**
 - **Recruitment of businesses**

Inventory of biomass: Wastes from Animal Production



Inventory of Service Providers: Economic Development



Q & A