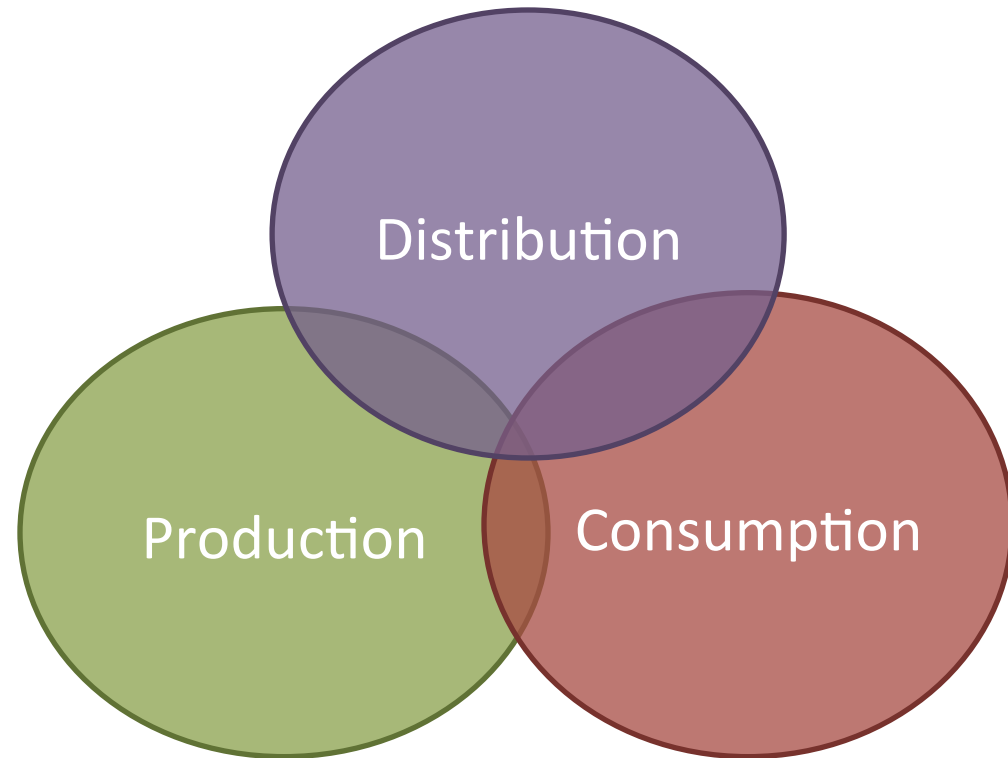


# Scenarios and Models

## Objective:

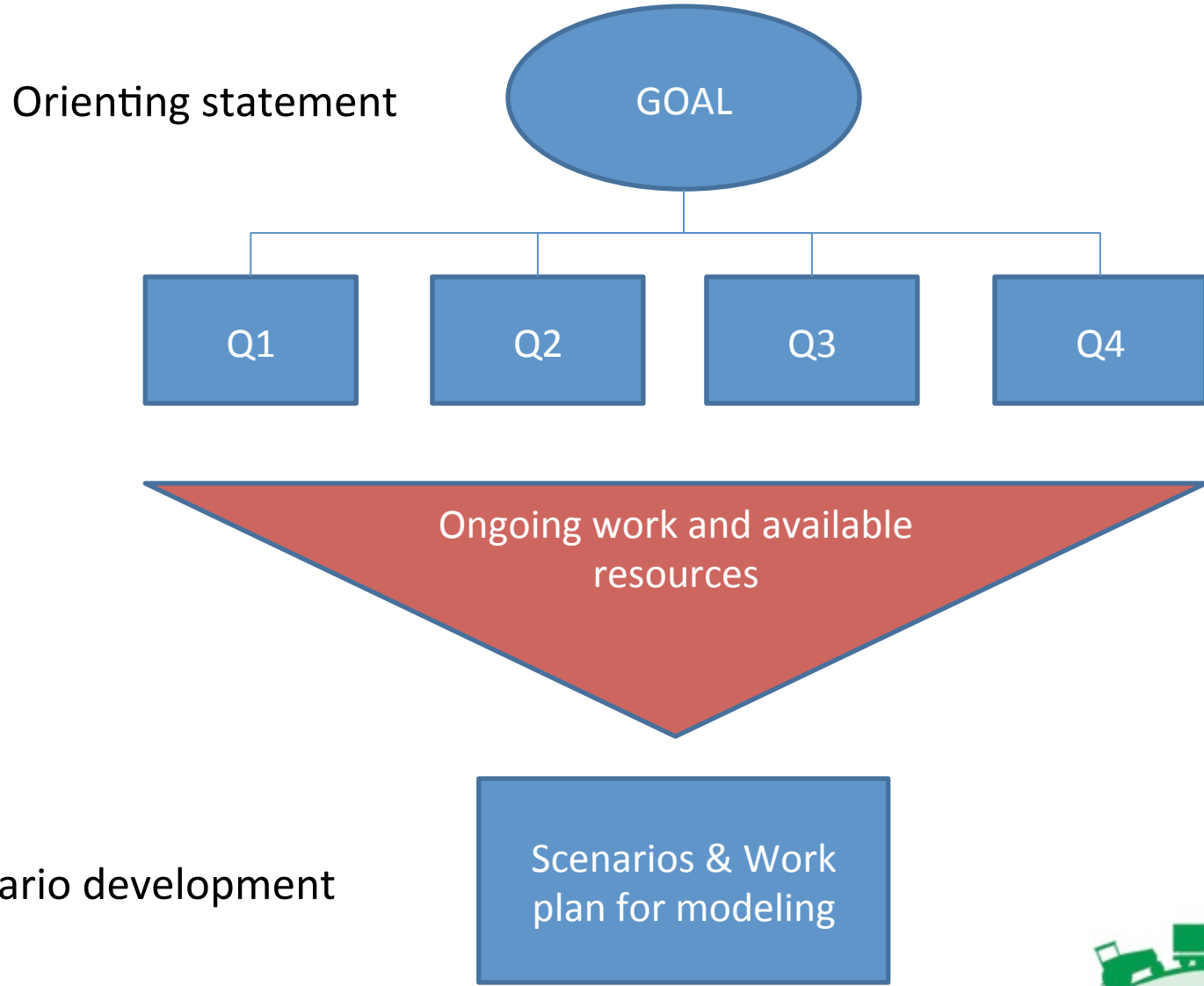
Define scenarios, provide a work plan, and identify areas for trans-disciplinary work



FRAMING  
QUESTIONS

BACK

# SCEMO



Framing questions

Scenario development



# Orienting Goal

“To assess whether greater reliance on regionally-produced foods could improve food access and affordability for disadvantaged communities, while also benefiting farmers, food supply chain firms, and others in the food system.”



# Framing Questions

1. What is the Northeast food system?
2. Is food sufficiently accessible and affordable for Northeast consumers?
3. How might the Northeast food system respond to future challenges and opportunities?
4. What changes would be required in key elements of the Northeast food system to provide more regionally produced and processed food in low income sites in the Northeast?

BACK



# Ongoing Work

## Modeling efforts undertaken by SCEMO investigators

**Consumption oriented modeling**

Bonanno

**Supply chain models**

Gomez

**Partial equilibrium models**

Canning

**Crop yield models**

Fleisher

**Production capacity modeling**

Conard

Peters



# Scenarios and work plan

**Table 1. Final template of scenarios**

| Scenario considerations         | Business as usual | Supply side factors |                |                           | Demand side factors   |                        |                     |
|---------------------------------|-------------------|---------------------|----------------|---------------------------|-----------------------|------------------------|---------------------|
|                                 |                   | Fuel price shocks   | Climate change | Land use and availability | Improving food access | Regional self-reliance | Purchasing patterns |
| Description                     |                   |                     |                |                           |                       |                        |                     |
| Context                         |                   |                     |                |                           |                       |                        |                     |
| Hypothesis or defining question |                   |                     |                |                           |                       |                        |                     |
| Drivers                         |                   |                     |                |                           |                       |                        |                     |



# Beyond the original call

## **Improving comprehension**

- List of food system metrics
- Learning about each other's disciplines

## **Leveraging existing work**

- Identifying opportunities for data sharing
- Experiment with integrating models

## **Discerning interdisciplinary lessons**

- Forum for discussing
- Writing cross-team papers