

# Mission Statement

The mission of the Ohio Perinatal Research Network is to improve the lives of children and families in Ohio and beyond by discovering and implementing actions that measurably reduce prematurity associated morbidity and mortality.



## THE PERINATAL RESEARCH REPOSITORY

- :: Rich resource for secondary data analyses of novel and innovative associations
- :: Economies of scale – recruitment of women is often the most difficult task
- :: Will speed concept – discovery – publication
- :: Encourage transdisciplinary collaboration



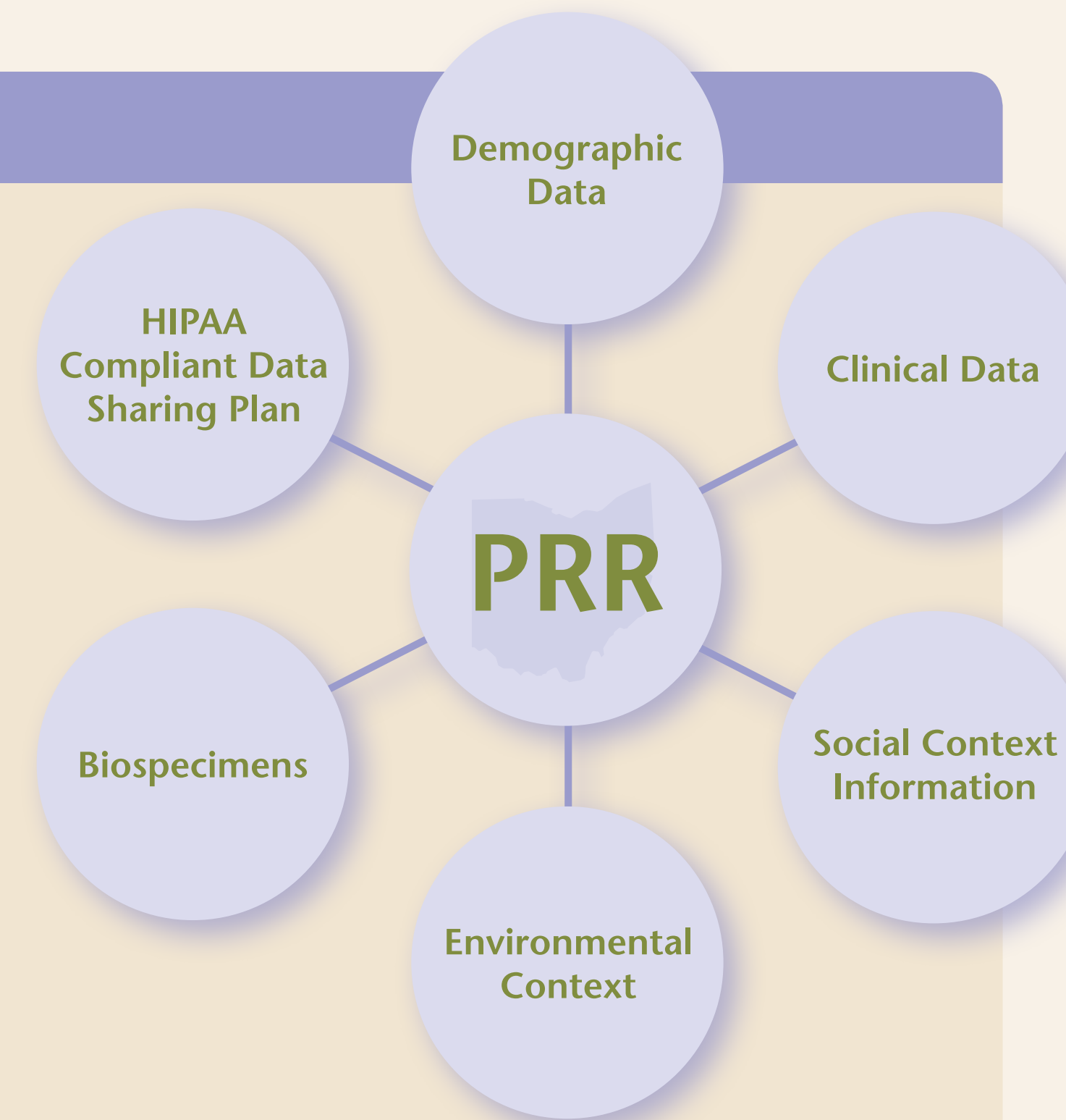
### APPROACH

Systematically assemble a large cohort of mother-father-infant triads for follow-up:

- :: Demographic data
- :: Clinical data
- :: Social Context Information
- :: Environmental Context Information
- :: Biospecimens
- :: HIPAA-compliant Data Sharing Plan

### IMPLEMENTATION

- :: Phased enrollment of mother-father-infant triads
- :: Six recruitment groups:
  - A: NCH Small Baby Pod and BPD Service
  - B: OSUMC Preterm Labor Clinic
  - C: Matched exposure cohort
  - D: Low-risk mothers
  - E: Labor & delivery
  - F: General NICU



### BIOSPECIMENS

- :: Prenatal
  - Blood – trimester timed with routine draws
  - Urine – trimester
- :: Delivery
  - Cord blood
  - Placental section
- :: Postpartum
  - Blood – mother, father, and infant
  - Urine – mother, father, and infant
  - Buccal swabs – mother, father and infant
  - Tracheal aspirates – intubated infants



### CLINICAL DATA

1. Implement an electronic data entry system to support the Ohio Perinatal Research Repository (OPRN) initiative (ePerinatal Portal)
2. Develop a Perinatal Research Repository (PRR)
3. Integrate with the Enterprise Data Warehouse (EDW) for information sharing
4. Develop Center for Clinical and Translation Science (CCTS) caGrid interface with OSU
5. Integrate with Specimen data
6. Full integration with EDW to support back flow data to ePerinatal