Types of questions that geneticists and managers have developed (not an exhaustive list!):

1) Taxonomy
   - How do we manage systems set up with, or previously managed under, possibly outdated classifications? First we need to understand the evolutionary history.
   - Example: California versus Rocky Mountain bighorn “subspecies”
   - Example: Thinhorn sheep

2) Population structure
   - What populations of bighorn sheep are connected?
   - Which are genetically diverse (relatively speaking)?
   - Which are genetically similar due to translocation history?
   - Where are subspecies or differently-managed populations mixing?
   - Implications for disease spread, demography, genetic diversity

3) Adaptive genetics/genomics
   - Can we identify markers or genetic variants that are important for adaptation to different environments or pressures (e.g., disease)?
   - What genes are “turned on” under different environments or pressures?

4) Screening for markers associated with disease or other traits
   - What role do genetic differences play in responses to respiratory and other disease?
   - Analyzed at the individual level but need large data sets

5) How does genetic diversity or local adaptation influence population performance?
   - Again, how much does genetic diversity or adaptation affect demography, response to disease, etc?
   - Opportunity to tie into population-level metrics from DMV