Outline:

1. Objectives

* Does monitoring network meet objectives of Cooperating Agencies;
* Do current sites meet monitoring objectives; are additional monitoring sites needed;
* Is there a need to incorporate new technologies;
* Historic – compare current status to goals set forth in previous Network Assessment;
* State of the science – literature review/consideration of emerging science.

1. Regulations – National, SLT

NAAQS Nonattainment areas:

* Consider 4 States (CO, WY, UT, NM) and expanded region (AZ, MT, ND, SD, OK, KS, TX). ID?
* Pollutants – Ozone, PM2.5, SO2, CO, Lead…?

Others – Regional Haze, Cooperator’s needs for monitoring/modeling/reporting?

1. Design Values
   * Comparisons of current ambient concentrations to NAAQS
2. Emissions
   * WAQS methodology
   * Show 2011b O&G – Show comparison to 2011v2 NEI, 2014 NEI
   * Trends – examples of significant trends by state, pollutant, sector
3. AQ Modeling
   * Base and Future PGM modeling
   * Projections (how do projections affect considerations for additional monitoring)
   * Model validation (maps of ambient pollutant monitoirs, Wx monitors)
4. Monitoring sites

* Rankings - Evaluate population/area served, number of parameters monitored, length of monitoring record, design values, correlation with other sites, removal bias.
  + Identify potentially underserved areas
  + Special studies (FRAPEE)
  + Overlays (Class I, II Areas; population centers; O&G Development Areas, etc.)

1. Approach
   * Identify WAQS Network Assessment Working Group (Reps. From WAQS Cooperating Agencies)
2. Cost Analysis
   * New monitoring sites
   * Site removal
   * Funding need/sources (in-kind contributions by Agency)





NAAQS Nonattainment areas (As of June 17, 2016):

8hr Ozone (2008)

* COLORADO (Region VIII) - Denver-Boulder-Greeley-Ft. Collins-Loveland, CO
* WYOMING (Region VIII) - Upper Green River Basin Area, WY
* TEXAS (Region VI)- Houston-Galveston-Brazoria, TX; Dallas-Fort Worth, TX
* ARIZONA (Region IX) -Phoenix-Mesa, AZ (Moderate - Nonattainment)

PM2.5 (2012)

* IDAHO (Region X) - West Silver Valley, ID (Moderate - Nonattainment)

SO2 (2010)

* MONTANA (Region VIII) - Billings, MT ( - Maintenance)
* ARIZONA (Region IX)
  + Hayden, AZ ( - Nonattainment)
  + Miami, AZ ( - Nonattainment)

Lead (2008)

* ARIZONA (Region IX) - Hayden, AZ ( - Nonattainment)
* KANSAS (Region VII) - Saline County, KS ( - Nonattainment)
* TEXAS (Region VI) Frisco, TX ( - Nonattainment)

CO (1971)

* COLORADO (Region VIII)
  + Colorado Springs, CO (Moderate <= 12.7ppm - Maintenance)
  + Denver-Boulder, CO (Serious - Maintenance)
  + Fort Collins, CO (Moderate <= 12.7ppm - Maintenance)
  + Greeley, CO (Not Classified - Maintenance)
  + Longmont, CO (Moderate <= 12.7ppm - Maintenance)
* MONTANA (Region VIII)
  + Billings, MT (Not Classified - Maintenance)
  + Great Falls, MT (Not Classified - Maintenance)
  + Missoula, MT (Moderate <= 12.7ppm - Maintenance)
* NEW MEXICO (Region VI)
  + Albuquerque, NM (Moderate <= 12.7ppm - Maintenance)
* UTAH (Region VIII)
  + Ogden, UT (Moderate <= 12.7ppm - Maintenance)
  + Provo, UT (Moderate > 12.7ppm - Maintenance)
  + Salt Lake City, UT (Not Classified - Maintenance)
* TEXAS (Region VI)
  + El Paso, TX (Moderate <= 12.7ppm - Maintenance)

Examples:

3SAQS Network Recommendations (27 Feb, 2016)

[LADCO 2015](https://epa.maps.arcgis.com/apps/MapJournal/index.html?appid=75fbdd8408cb47f3921b976c57ecaa85) Network Assessment - ArcGIS Story Map (Prepared by R5 EPA)

[EPA Green Book](https://www3.epa.gov/airquality/greenbook/) Nonattainment Areas