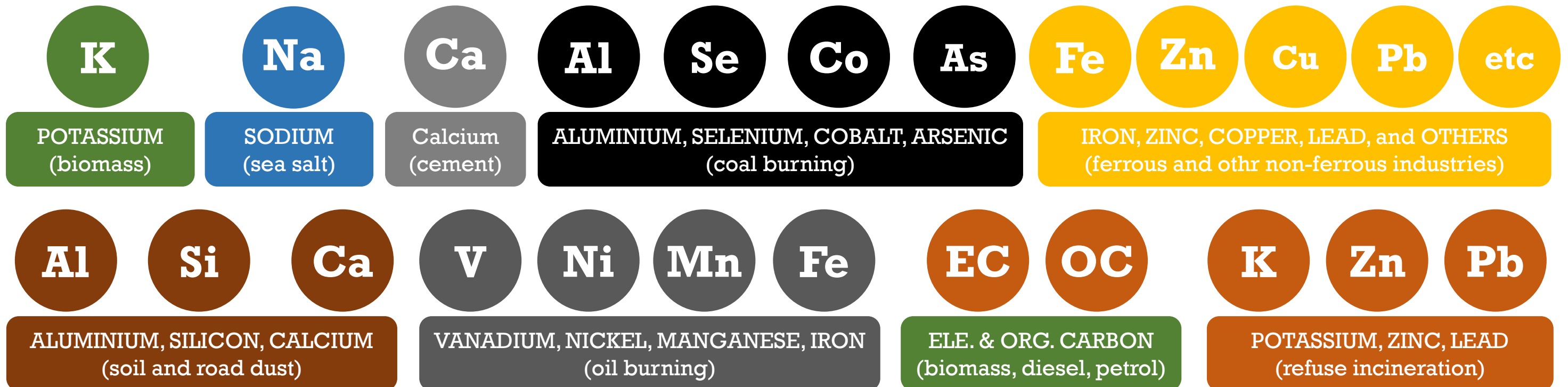
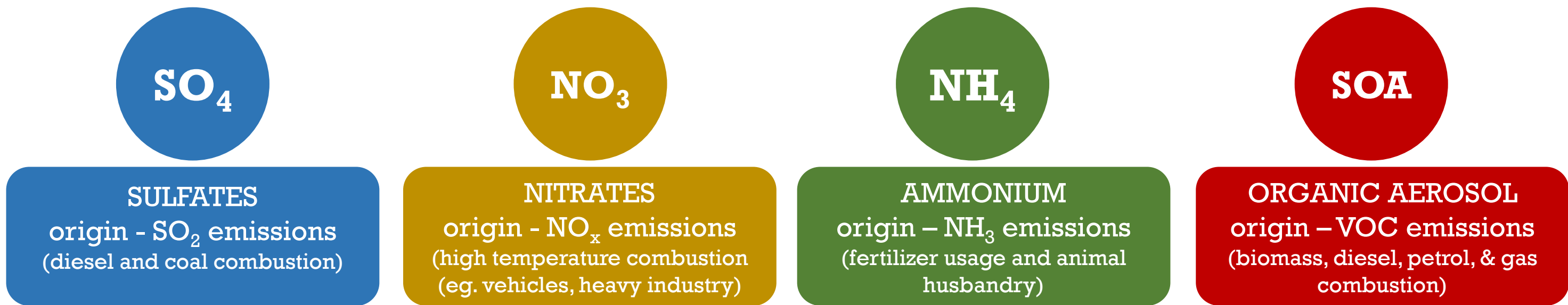


# COMPOSITION of PARTICULATE MATTER (PM)

## PRIMARY AEROSOLS – METALS & ELEMENTS



## SECONDARY AEROSOLS – GAS to AEROSOL CHEMICAL CONVERSIONS



Despite overlaps, these are some key marker metals, elements, and compounds associated with major sources.

Ratio of these markers and other species vary significantly between sources.

Chemical composition of PM is complex and changes with time and place.

Statistical apportionment between source & sample profiles can provide new information on emission sources and some quantitative estimate.