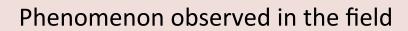
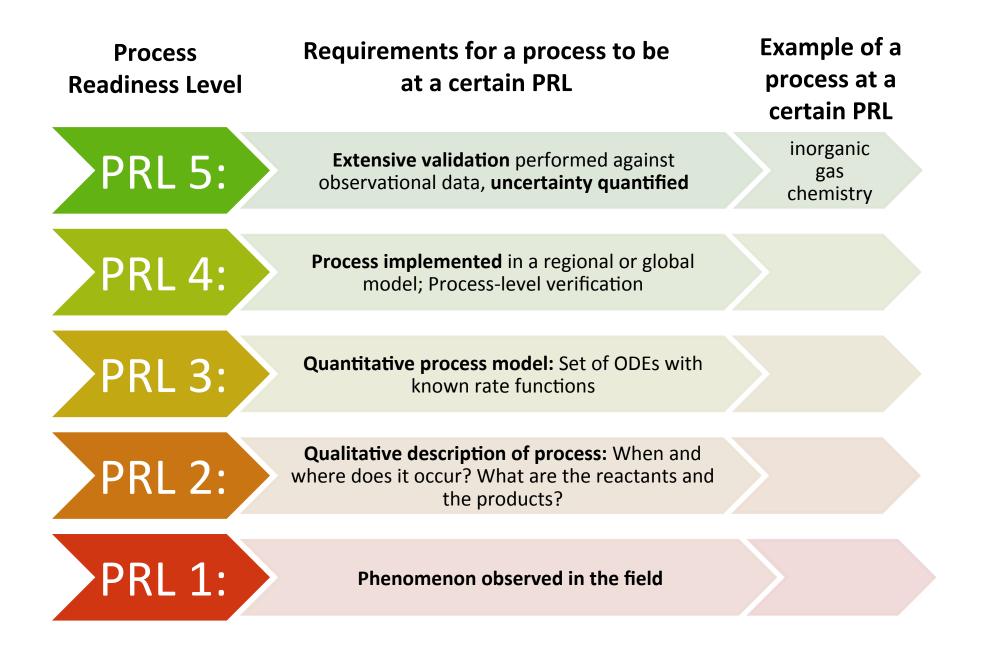
ASR Mission and Objectives:

"The goal of ASR, in partnership with the enhanced ARM Facility, is to quantify the interactions among aerosols, clouds, precipitation, radiation, dynamics, and thermodynamics to improve fundamental process-level understanding, with the ultimate goal to reduce the uncertainty in global and regional climate simulations and projections."

https://asr.science.energy.gov/about/mission







Process Readiness Level	Requirements for a process to be at a certain PRL	Example of a process at a certain PRL
PRL 5:	Extensive validation performed against observational data, uncertainty quantified	inorganic gas CCN
PRL 4:	Process implemented in a regional or global model; Process-level verification	activation
PRL 3:	Quantitative process model: Set of ODEs with known rate functions	BC aging SOA
PRL 2:	Qualitative description of process: When and where does it occur? What are the reactants and the products?	formation
PRL 1:	Phenomenon observed in the field	lce nucleation