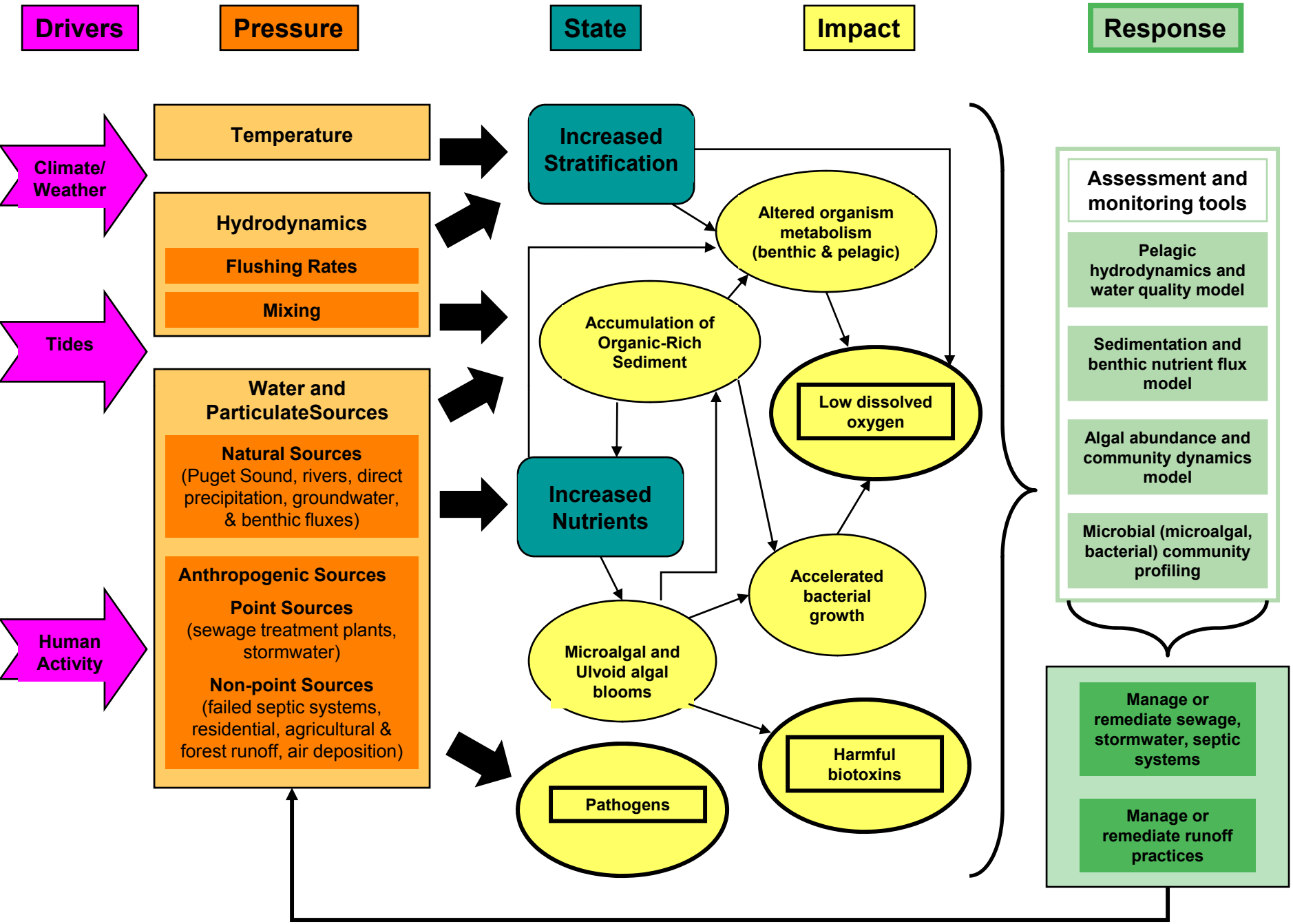
Drivers
Pressure
State
Impact
Response
Climate/ Weather
Tides
Human Activity
Temperature
Hydrodynamics
Flushing Rates
Mixing
Water and ParticulateSources
Natural Sources
(Puget Sound, rivers, direct precipitation, groundwater, & benthic fluxes)
Anthropogenic Sources
Point Sources
(sewage treatment plants, stormwater)
Non-point Sources
(failed septic systems, residential, agricultural & forest runoff, air deposition)
Increased Stratification
Increased Nutrients
Altered organism metabolism (benthic & pelagic)
Accumulation of Organic-Rich Sediment
Low dissolved oxygen
Accelerated bacterial growth
Microalgal and Ulvoid algal blooms
Harmful biotoxins
Pathogens
Assessment and monitoring tools
Pelagic hydrodynamics and water quality model
Sedimentation and benthic nutrient flux model
Algal abundance and community dynamics model
Microbial (microalgal, bacterial) community profiling
Manage or remediate sewage, stormwater, septic systems
Manage or remediate runoff practices