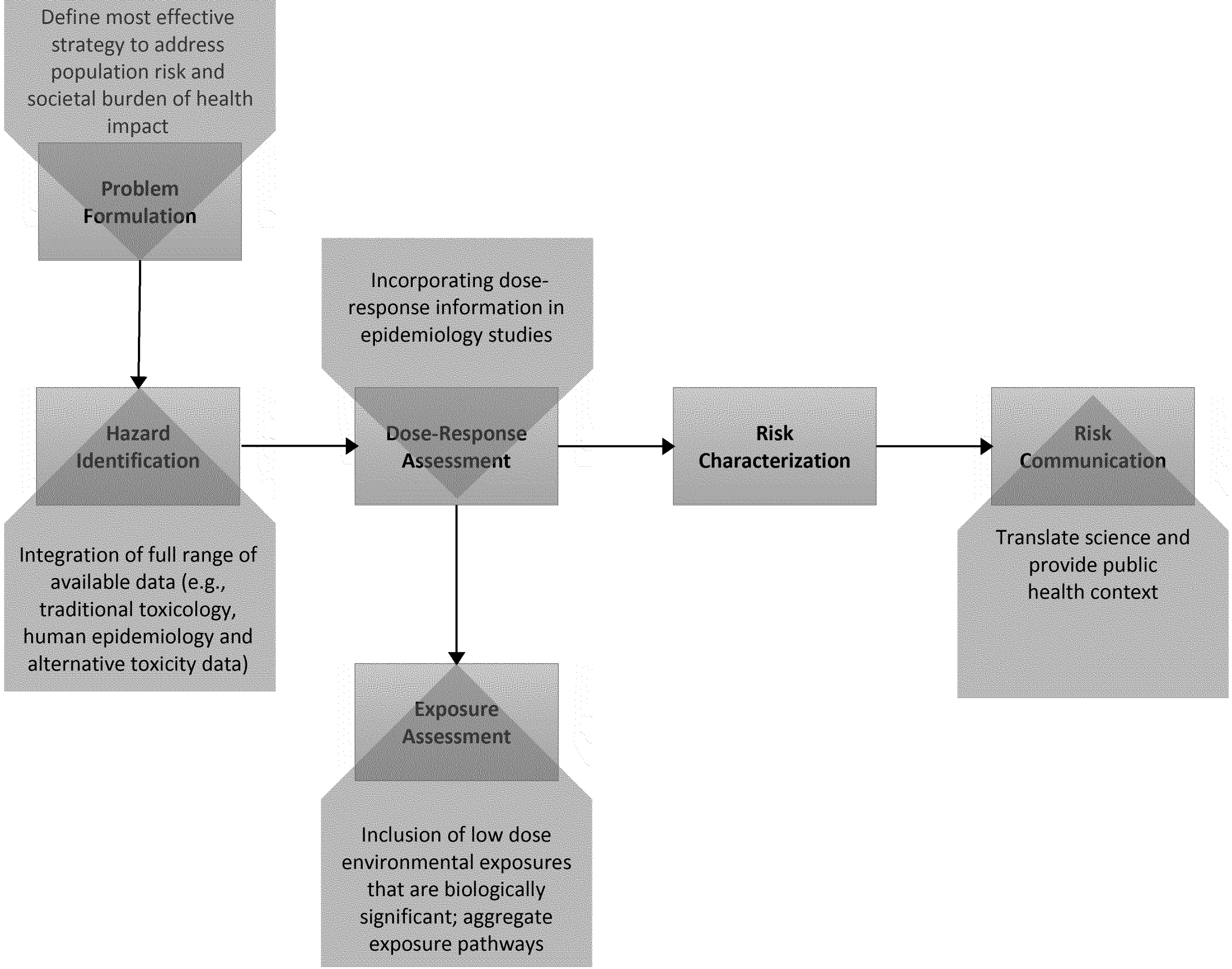
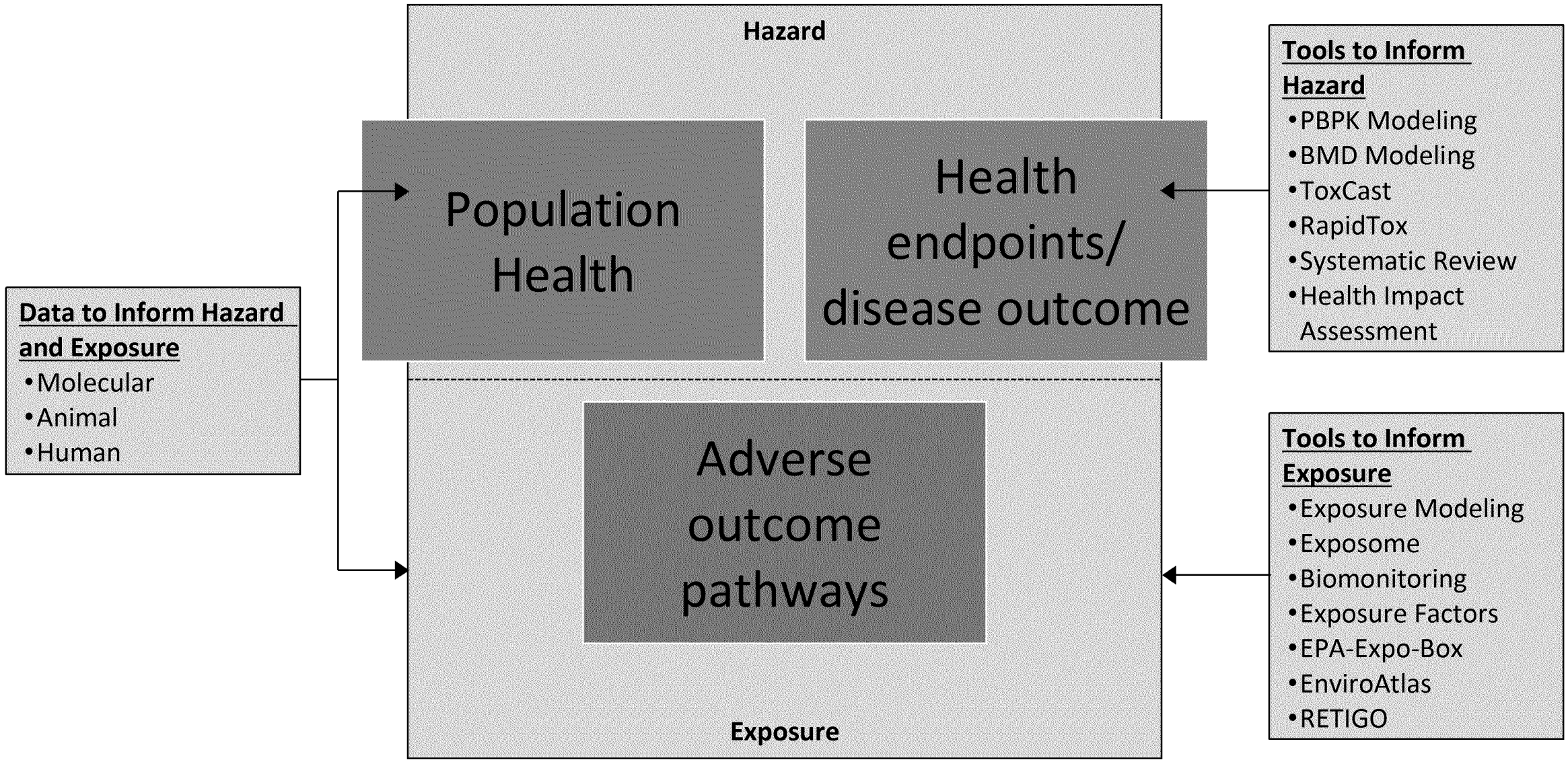

Define most effective strategy to address population risk and societal burden of health impact
Problem Formulation
Incorporating dose-response information in epidemiology studies
Hazard Identification
Dose-Response Assessment
Risk Characterization
Risk Communication
Integration of full range of available data (e.g., traditional toxicology, human epidemiology and alternative toxicity data)
Translate science and provide public health context
Exposure Assessment
Inclusion of low dose environmental exposures that are biologically significant; aggregate exposure pathways


Hazard
Population Health
Health endpoints/ disease outcome
Adverse outcome pathways
Exposure
Data to Inform Hazard and Exposure
•Molecular
•Animal
•Human
Tools to Inform Hazard
•PBPK Modeling
•BMD Modeling
•ToxCast
•RapidTox
•Systematic Review
•Health Impact Assessment
Tools to Inform Exposure
•Exposure Modeling
•Exposome
•Biomonitoring
•Exposure Factors
•EPA-Expo-Box
•EnviroAtlas
•RETIGO