Greater machine learning-based prediction & decision-support capabilities are

Why:

What:

Scientific Machine Learning: Priority Research Directions (PRDs)

PRD1: Domain-Aware

Leveraging Scientific Domain Knowledge

PRD2: Interpretable

Explainable and Understandable Results

PRD3: Robust

Stable, Well-Posed, and Efficient Formulations

PRD4: Data-Intensive
Automated Scientific Inference & Data Analysis

PRD5: Inner-Loop

Hybrid Machine Learning, Models, & Algorithms

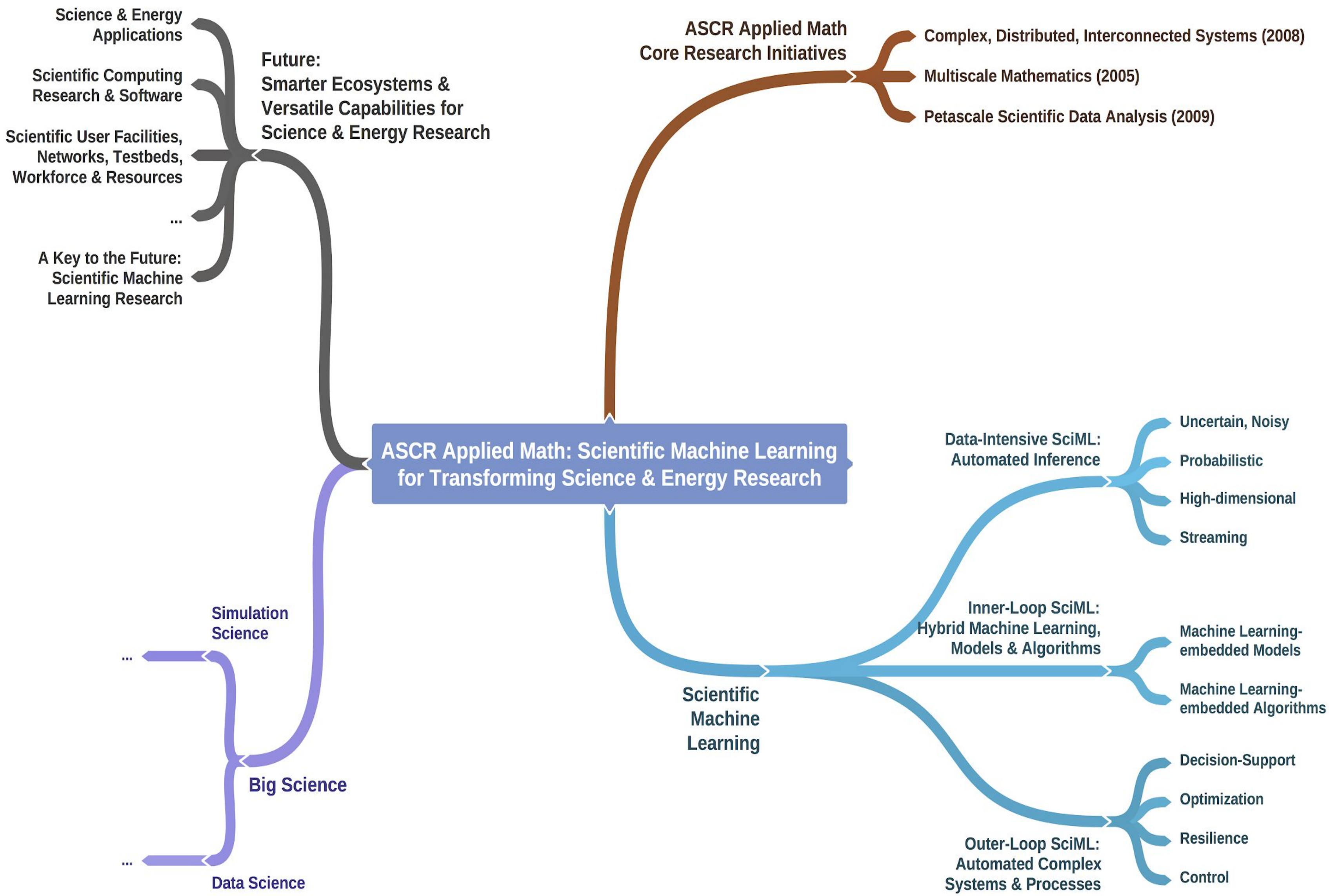
PRD6: Outer-Loop

Automated Decision Support, Optimization, Resilience, & Control

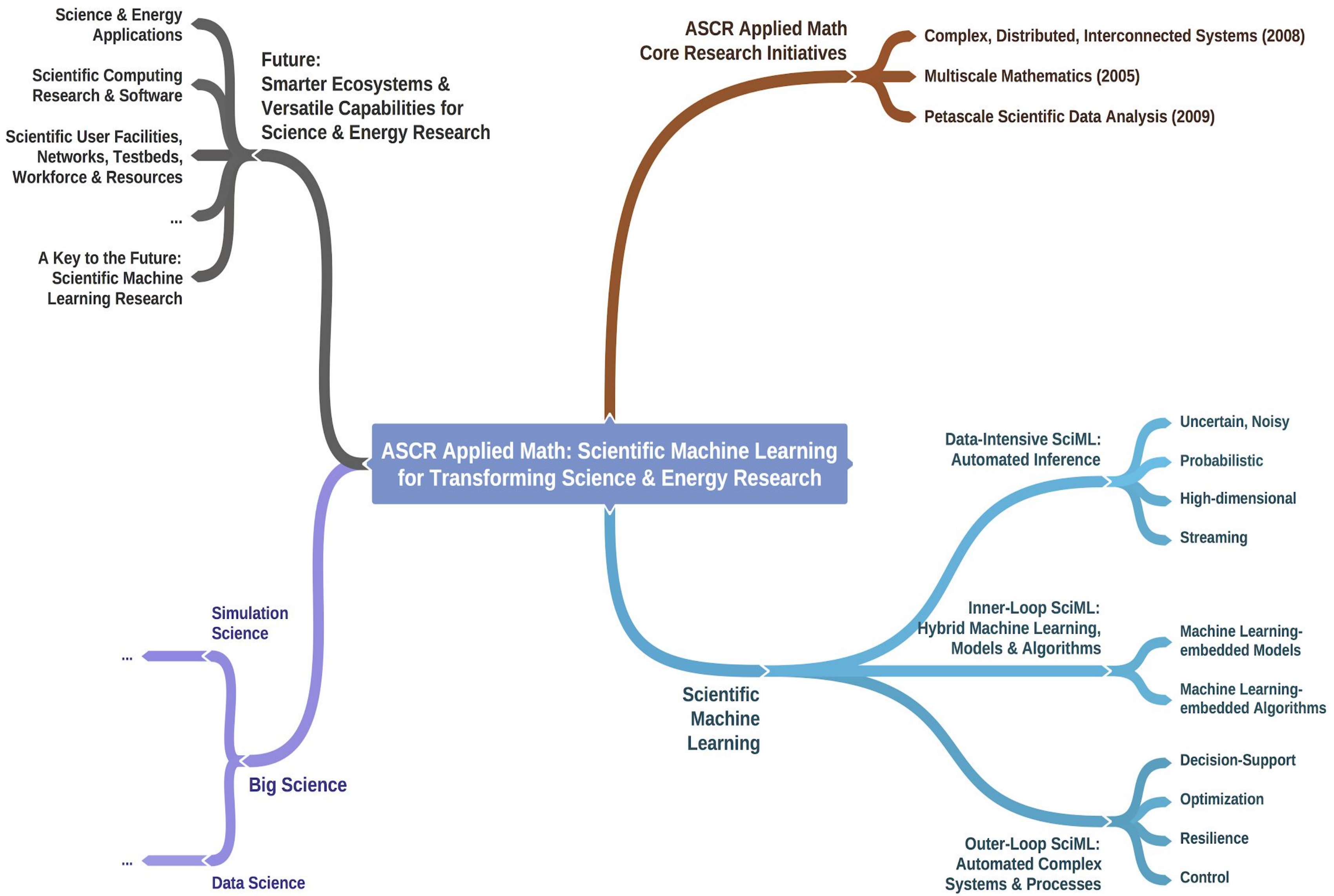
Core Research Agenda for Scientific Machine Learning

History: DOE Applied Math Base Program & Research Initiatives

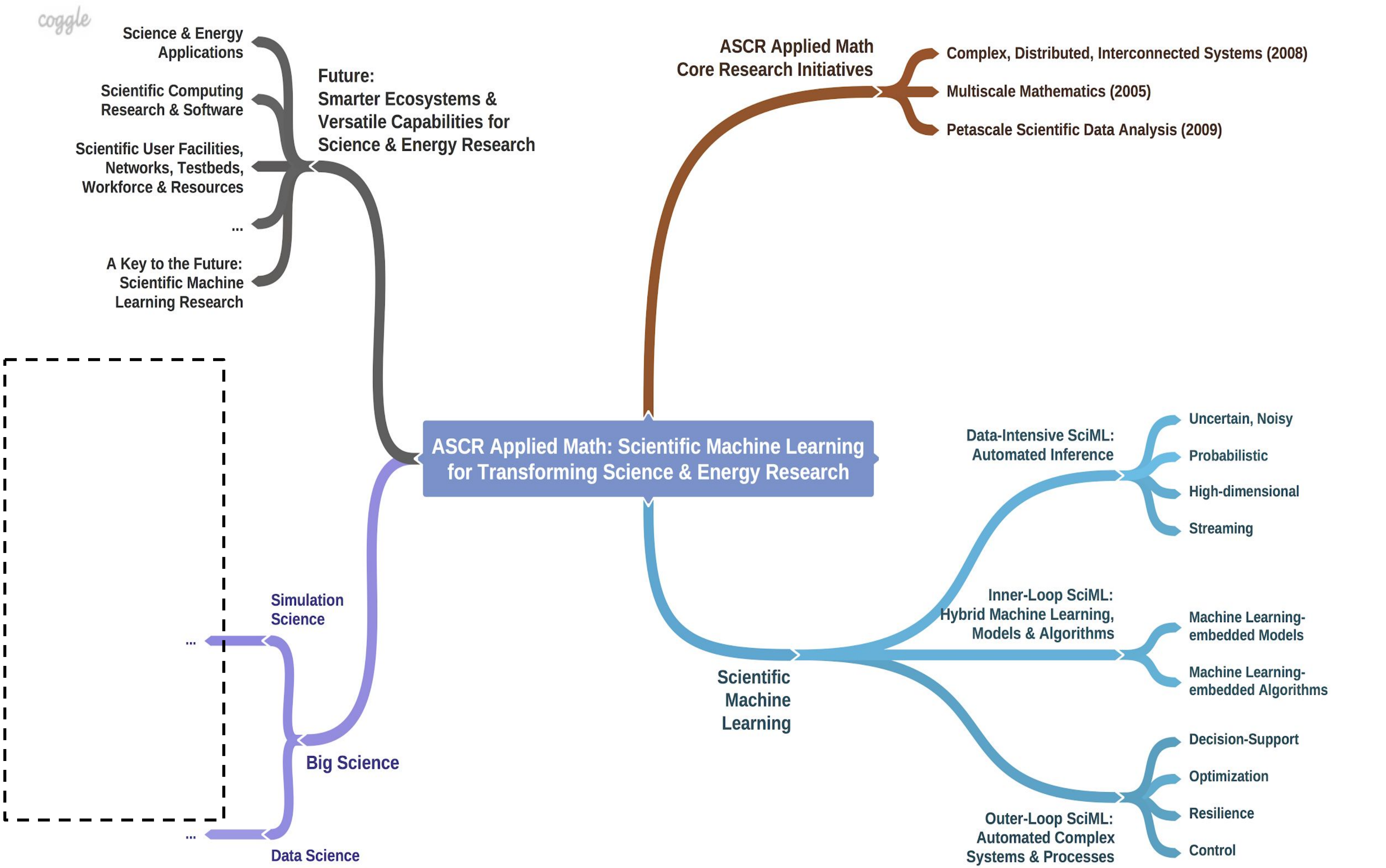
Workshop Charge Letter: Scientific Machine Learning (SciML) for transforming the Future of Science & Energy research



Workshop Charge Letter: Scientific Machine Learning (SciML) for transforming the Future of Science & Energy research #1



Workshop Charge Letter: Scientific Machine Learning (SciML) for transforming the Future of Science & Energy research #2



Workshop Charge Letter: Scientific Machine Learning (SciML) for transforming the Future of Science & Energy research #3