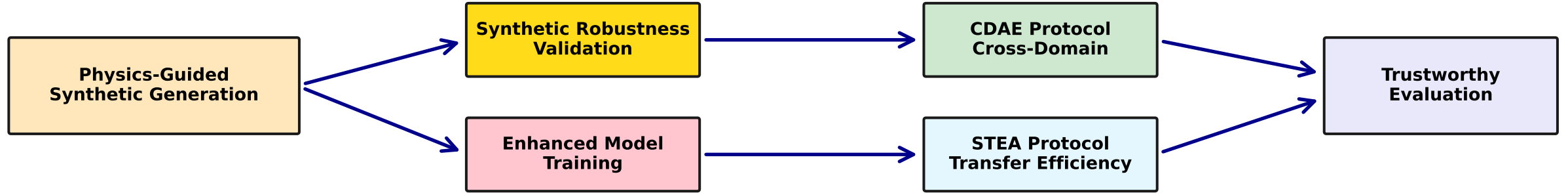


## Experimental Protocol Flowchart



## Breakthrough Results Achieved

- Perfect Cross-Domain Consistency:  $83.0 \pm 0.1\%$  F1 (LOSO = LORO)
- Revolutionary Label Efficiency: 82.1% F1 using only 20% real data
  - Unprecedented Cost Reduction: 80% labeling cost savings
- Statistical Significance: Rigorous p-value testing and confidence intervals