

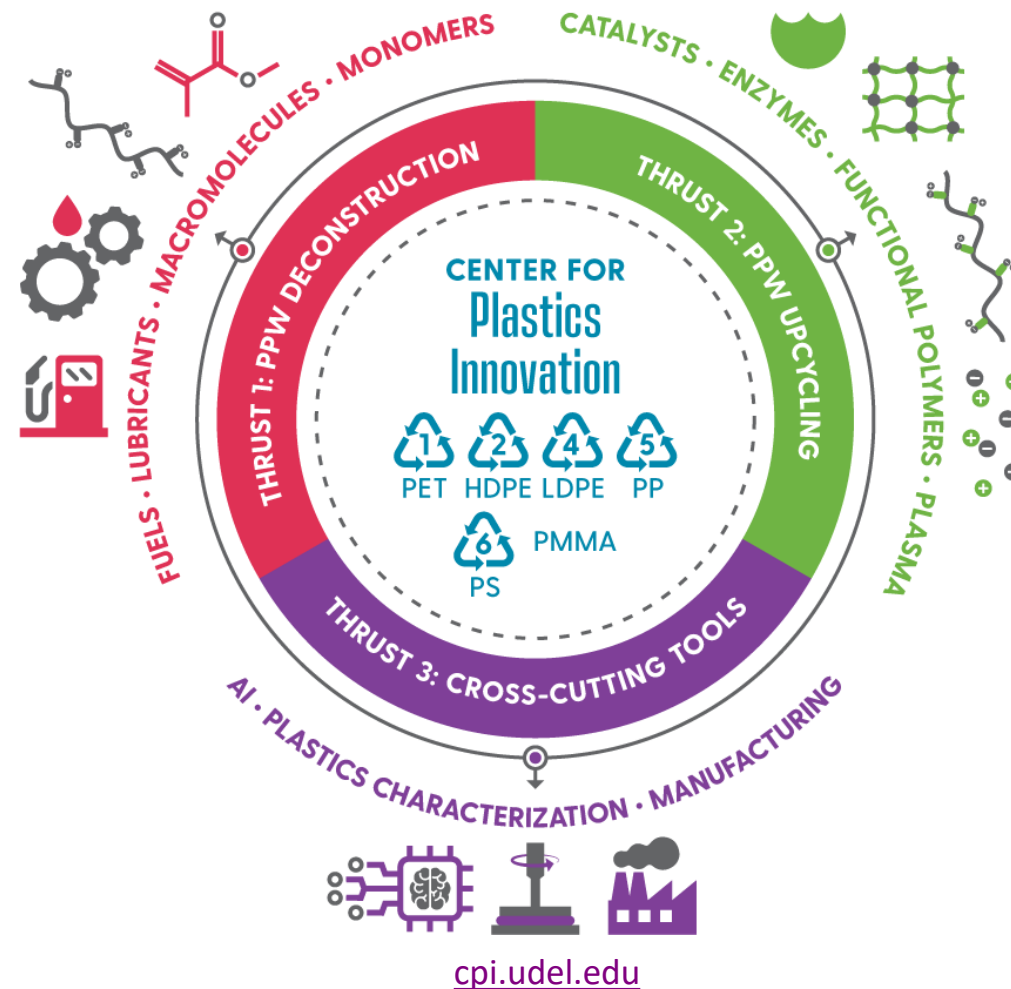
# Center for Plastics Innovation (CPI)

LaShanda Korley (University of Delaware); Class: 2020-2024

**MISSION:** To develop catalytic and functionalization approaches and fundamental tools applicable to the upcycling, upgrading, and recycling of real polymer plastics waste (PPW) with a strategic focus on enabling mixed-stream transformations in varied material forms (*i.e.*, solutions, melts, and surface).

## RESEARCH PLAN

CPI will develop a comprehensive polymer plastics waste (PPW) upcycling strategy that combines fundamental discoveries in catalytic technology and chemical functionalization with innovations in polymer design and additive manufacturing – enabled by computational, data science, characterization, and systems design tools. Our vision is that these fundamental breakthroughs will enable efficient and selective processes to overcome the environmental impacts of increasing plastics waste.



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