A New Chapter for Recycling: Using GIS and mixed methods approach to improve the market development and transportation of recycled materials.

From a Private Collector’s Perspective

Esra Ozdenerol, PhD, The University of Memphis

Most pick ups are done in the 10 minute drive time and average traffic volume is 6,000 - 15,000 vehicles per day. Composting is not common among restaurants. Mixed recycling materials are consistently picked up more in winter months than summer months. Cardboard is consistently picked up around 300 gallons with no seasonal change. Rendezvous, Whole Foods and Café Eclectic lead Memphis in recycling.

More data collection and establishing baseline metrics are needed to create blueprint for all sectors – private, public and non-profit in the recycling domain in Memphis.

Smart devise solutions should be used so GIS maps and apps could monitor and reveal assets in real time. Initiatives should be taken towards a smarter, healthier, and more sustainable city by focusing on business and consumer education efforts, raising local business and community awareness of the economic development opportunities associated with recycling and recycling-related manufacturing.