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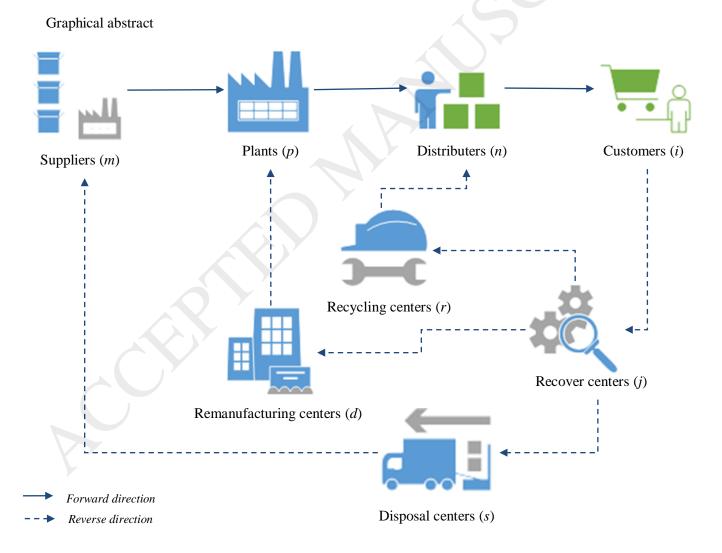


### ACCEPTED MANUSCRIPT

# Multi-objective stochastic closed-loop supply chain network design with social considerations

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The graphical structure of a simple closed-loop supply chain network utilizing in this paper

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