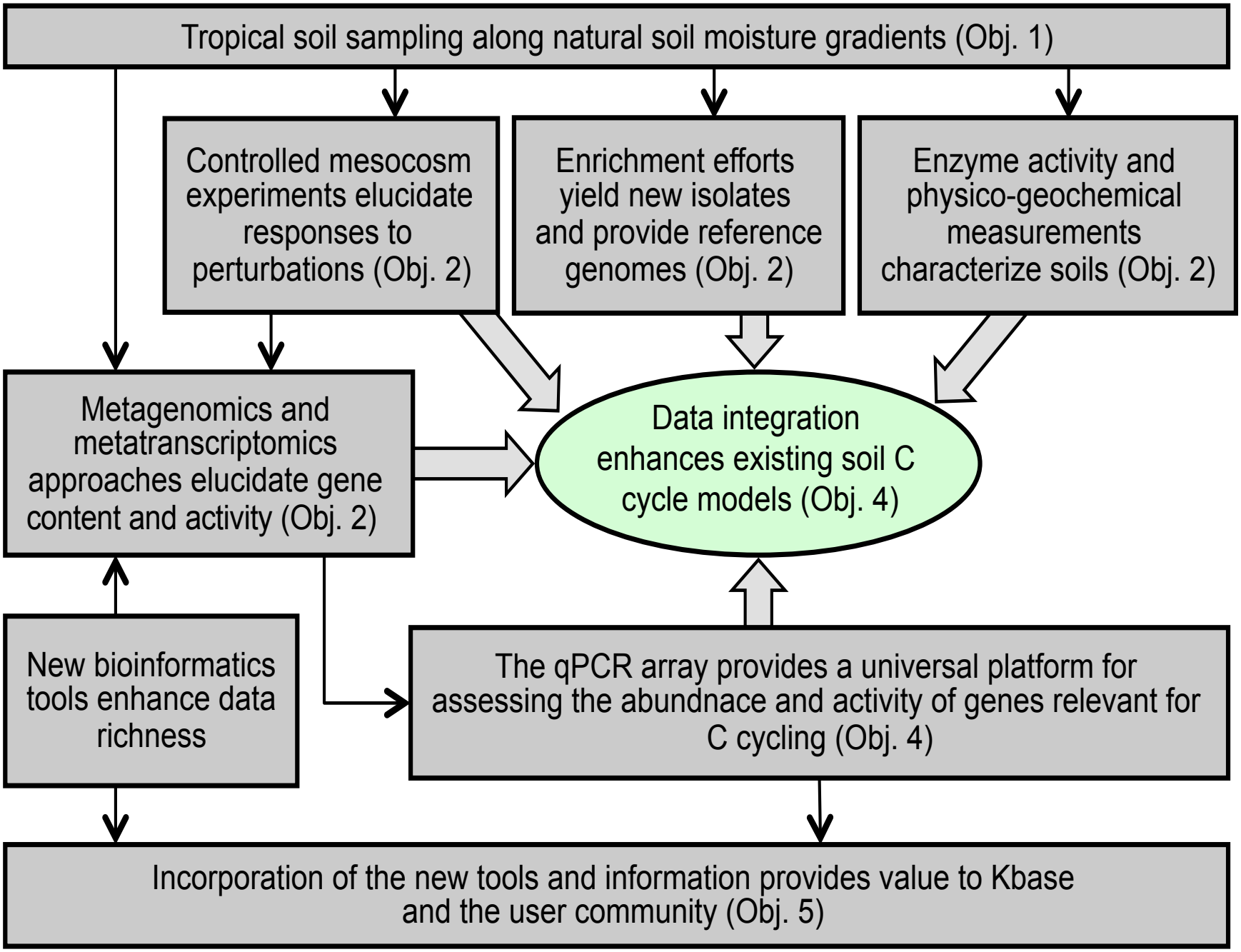
Tropical soil sampling along natural soil moisture gradients (Obj. 1)
Controlled mesocosm experiments elucidate responses to perturbations (Obj. 2)
Enrichment efforts yield new isolates and provide reference genomes (Obj. 2)
Enzyme activity and physico-geochemical measurements characterize soils (Obj. 2)
Metagenomics and metatranscriptomics approaches elucidate gene content and activity (Obj. 2)
Data integration enhances existing soil C cycle models (Obj. 4)
New bioinformatics tools enhance data richness
The qPCR array provides a universal platform for assessing the abundnace and activity of genes relevant for C cycling (Obj. 4)
Incorporation of the new tools and information provides value to Kbase and the user community (Obj. 5)