## Integrated Hybrid Approach

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A hybrid model that integrates LCA system with IO system is presented with a case study of a flowering material. The model inter-connects upstream and downstream cut-offs by process based system with input-output system using consistent mathematical framework. Required pre-treatments including price update, base year change, matrix adjustments for both LCA model and IO model for integration is described. The result of the case study is compared with pure process based LCI and pure IO based inventory. The result shows that the hybrid model gives consistent result than pure IO model due to its system completeness and process-specificity. Sources of difference between results are discussed in terms of base year difference, price difference, truncation errors, level of aggregation in commodity classification, etc.