







SIMPLIFYING FOOTPRINT TRACKING OF WASTE AND MATERIALS IN LIFE CYCLE ASSESSMENT (LCA)

Context

- Boost circular economy with 're-X' strategies
- Secure CRM supply for energy transition
- Track hidden waste and material flows
- Improve LCA waste assessment
- T-reX automates waste and material tracking

BRIGHTWAY LCA PROJECT



LCA DATABASES

ec@invent

INCORPORATION OF FUTURE MODELS



DATABASE DECONSTRUCTION



ANALYSIS OF POTENTIAL IMPACTS

FOOTPRINT CALCULATIONS

T-reX project in brightway

EXCHANGES AND METHODS

CREATION OF 'PSEUDO-BIOSPHERE'

SEARCH AND CATEGORISATION OF WASTE AND MATERIAL FLOWS

(OPTIONAL USER-SPECIFIC CONFIGURATION)

Outcomes

- Adapted Brightway databases for inventory tracking
- T-reX streamlines footprint calculations
- Promotes re-X & supply chain visibility in LCA
- Li-ion case study reveals T-reX's utility
- Case study critiques carbon capture focus over waste recovery solutions

Methodology