
Use of MCDA for decision-making in LCA

March 16th 2017



SCORELCA



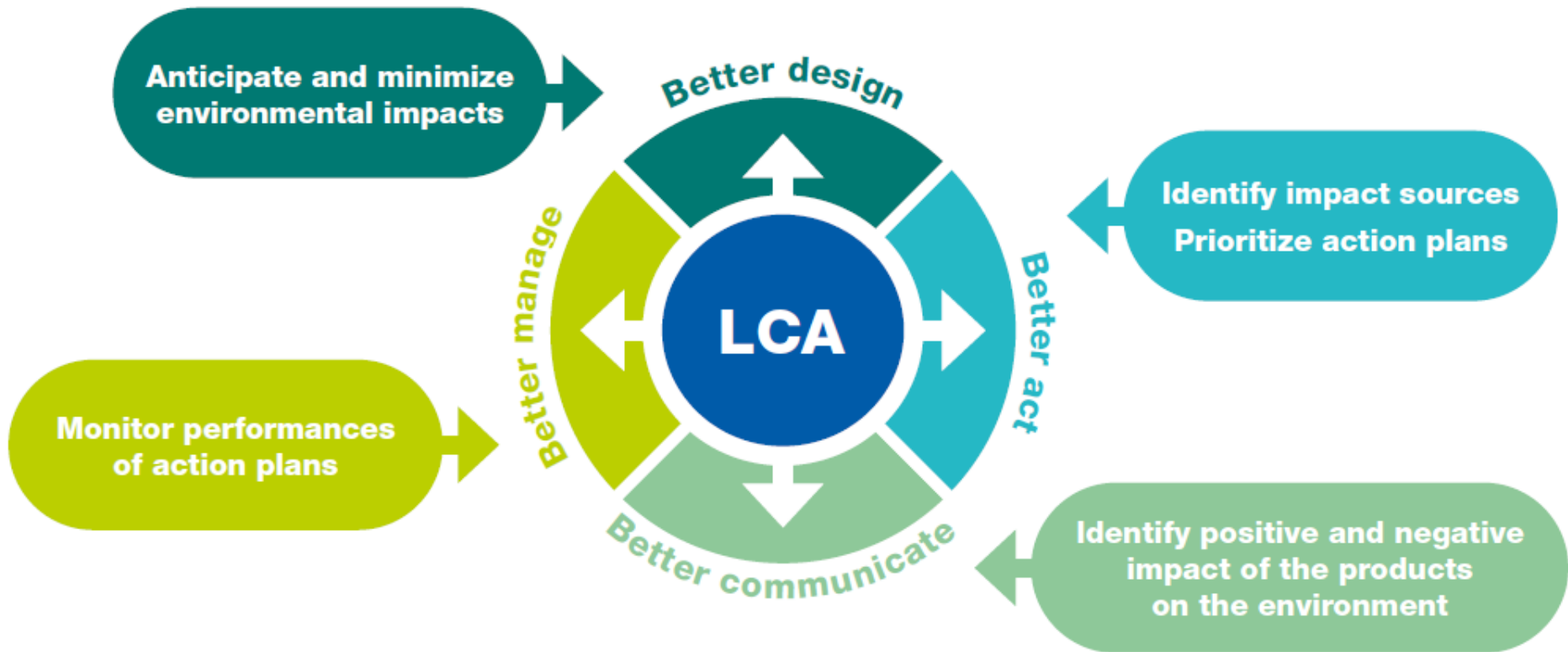
Confidentiel

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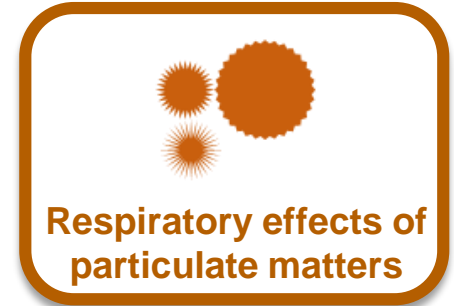
LCA and decision making at ENGIE : Current practices



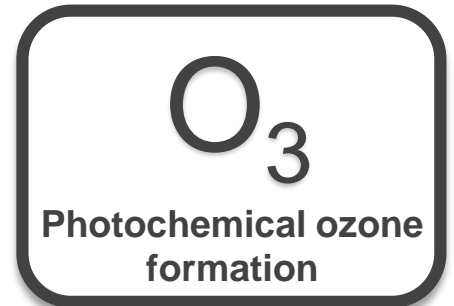
LCA and decision making at ENGIE : Current practices



Several criteria included in the assessments :



How to use the results for decision making ?



Added Values of the SCORE LCA study for ENGIE

- Initial need : How to go beyond weighting of impact categories and single score ?
- What we learned from the study for our practice ?
 - Limited relevance of weighting methods
 - Applying MCDA methods always depend on the panel and its objectives (No “absolute” method exists)
 - MCDA methods are applicable to LCA results

Further steps : Application multicriteria decision analysis to low carbon technologies

ADEME



Agence de l'Environnement
et de la Maîtrise de l'Energie

Comparaison énergétique, environnementale, économique et sociale de plusieurs technologies émergentes « bas carbone » (captage et valorisation du CO₂, Power to X, hydrogène, ...) via l'application de méthodes multicritère d'aide à la décision



Objectives of ADEME

1. Choose and apply one/several multicriteria decision support methods
2. Apply to various technologies for different final uses (energy, industry, mobility, buildings, ...) to compare their efficiencies in terms of GHG emissions reduction, environmental impacts reduction and social and economic aspects



Team



TRACTEBEL



Schedule

Results expected T1 2018

SCORE LCA



QUESTIONS ?



RENAULT

