Review of existing tools for LCA-Carbon footprint-LCC

CETaqua

Cerdanyola, 20 de Novembre de 2013

LIFE10 ENV/ES/520

Review of existing tools

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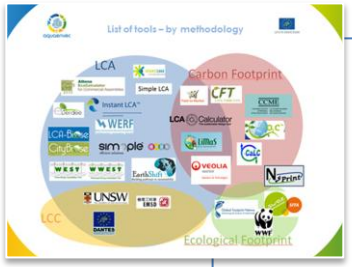
1

Identification of existing tools



2

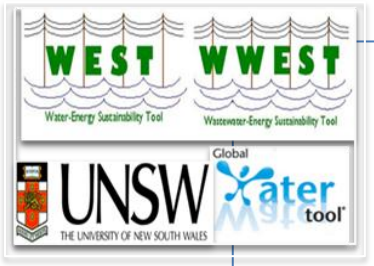
Benchmarking

3

Factsheets

4

Summary of tools



5

Interesting tools

1. Identification of existing tools

List of tools - tool creators

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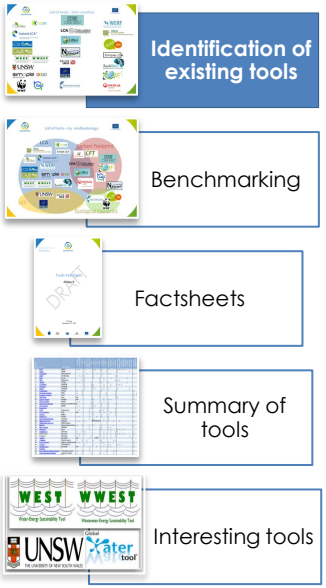

Simple LCA

1. Identification of existing tools

List of tools - tool creators

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Identification of existing tools

Benchmarking

Factsheets

Summary of tools

Interesting tools

Sources

- European Joint Research Centre
- World Wide Web
- Lists of distribution

Differences

- Application fields
- Approachess and methodologies used
- Ownership and availability
- Typology of tools

2. Benchmarking
Review Categories

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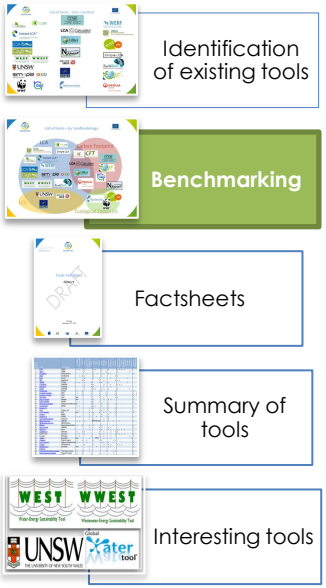

Sector	Methodology	Owner	Type
Water	LCA	Owner	Standalone tool
Other	LCC	Private	Payment tool
Multisectoral	WF	Public	Web tool
Agriculture	CF	NGO	Free tool

2. Benchmarking – by methodology

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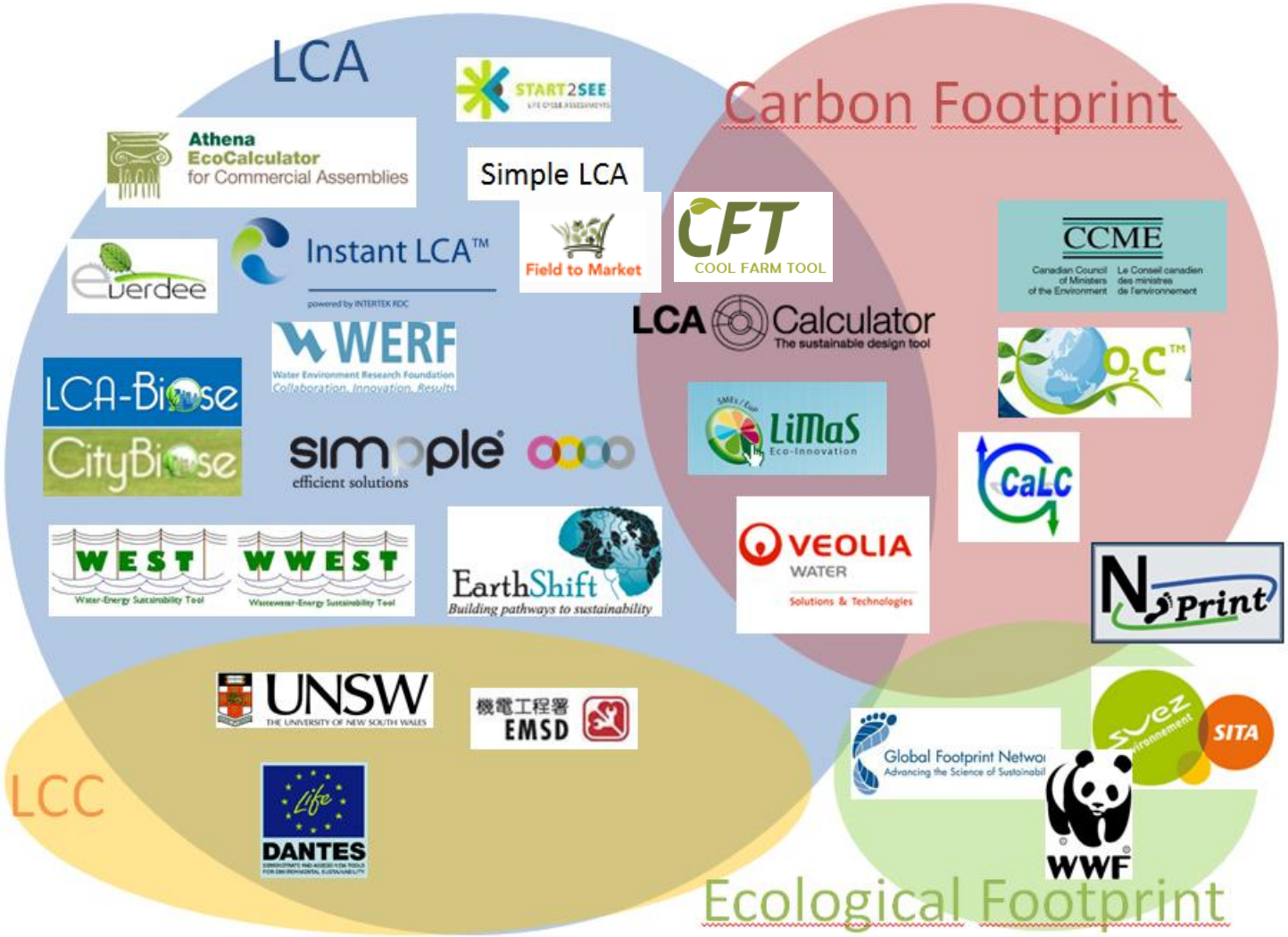
Identification of existing tools


Benchmarking


Factsheets


Summary of tools


Interesting tools



Factsheets

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Identification of existing tools


Benchmarking


Factsheets


Summary of tools


Interesting tools

Name of the tool		Creator/s
DESCRIPTION		
APPLICATION – USER		
METHODOLOGY		
INPUTS	Data required	
OUTPUTS	Presentation of results	
AVAILABILITY AND USABILITY		

Area	Methodology	Access	Availability	Ownership/creators
Water agriculture, Biosolids WW Sludge Multidisciplinary Other sectors	LCA LCC Carbon Footprint (CF) Water Footprint (WF)	Web Standalone tool	Free by payment	Public private company
Link to webpage				

Origin, creators, background, history…

Who is adressed? Which sector of application? Which purpose?

Is it available ?

Is it easy to use?

Classification by labels

similar to Benchmarking categories

Summary Table:
Review Categories/Labels

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Labels classification


Identification of existing tools


Benchmarking


Factsheets


Summary of tools


Interesting tools

Tools

Creators

Fact sheet reference	Tools	Tool creators	Available	Downloaded	Website	Field				Methodology				Ownership			Typology			
						Water	Agriculture	Multisector	Other	LCA	LCC	WF	CF/EF	Public	Private	NGO	Standalone	Payment	Free	Webtool
1	ESAT	UNSW	x	x		x				x	x			x			x			
2	Gelcat	WERF				x				x				x		x				
3	eFoodPrint	URV/LabFerrer					x			x		x		x	x		x	x		
4	WEST	UC Berkeley		x	x	x				x				x						x
5	Eolia	Veolia				x				x			x		x			x		
6	O2C	Degremont			x	x							x		x					x
7	BEAM	CCME	x	x		x			x				x	x			x			
8	LCA-Biose	SAFEGE				x			x	x					x			x		
9	City-Biose	SAFEGE				x			x	x					x			x		
10	Dantes	SAFEGE				x			x	x	x			x	x		x			
11	N-Calculator	N-Print	x		x				x				x	x						x
12	Footprint calculator	GFN	x		x				x				x			x				x
13	Footprint calculator	WWF	x		x				x				x			x				x
14	SITA. Suez	Suez	trial						x				x		x					x
15	LIMAS. Simpple	Simpple	trial						x	x					x		x	x		
16	EuPeco-profiler	LIMAS	x	x					x	x			x		x		x			
17	Athena EcoCalculator	Athena sust. Mat. Institute							x	x				x			x			x
18	LCA and LCC	EMSD	x	x					x	x	x			x			x			
19	Instant LCA							x	x	x					x		x			x
20	CaLC	Carbon trust	x	x				x					x	x	x		x			x
21	LCA Calculator	ICD	trial					x		x			x		x			x		x
22	eVerdee	ENEA						x		x				x			x			x
23	Simple LCA	KÖVET	x	x				x				x		x			x			
24	LCA tool development	Start2see						x		x					x		x			
25	Global Water tool	WBCSD	x	x		x				GRI Indicators					x		x		x	
26	GEMI global water tool	GEMI initiative																		
27	EIOLCA	Green Design Institute	x		x			x		x				x					x	
28	Bilan Carbone	ADEME						x					x	x			x	x		
29	Ukwir tool	Ukwir						x					x	x			x	x		
30	SWADE tool	CETaqua	x		x	x							x		x			x		x
31	CAFCA tool	CETaqua	x	x		x							x		x			x		x
32	Ecoparcs	CETaqua	x	x																x
33	3 pillars	Earthshift	trial																	
34	Fieldprint	Field to market	x																	
35	Cool Farm tool	Unilever, Aberdeen Univ.	x																	
36	LCAqua	VEOLIA/KIWA																		
37	Simplified LCA	Earthshift	trial																	
38	Earthster																			
39	Free Carbon Footprint calculator	The nature conserv	x		x															x
40	Carbon footprint calculator	Carbon Footprint	x		x				x										x	
41	Household carbon footprint calculator	EPA	x		x				x					x					x	x

20 available tools
4 tools available for trial

Summary Table:
Interest in Aquaenvec project

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Interest in Aquaenvec

Identification of existing tools

Benchmarking

Factsheets

Summary of tools

Interesting tools

Tools

Creators

Fact sheet reference	Tools	Tool creators	Interest in AQUAENVEC: Wastewater	Drinking water	Sewer	Distribution network	Sludge	Energy	Economic	Structure	Qualitative Questions	Results presentation
1	ESAT	UNSW	x	x	x	x						
2	Gelcat	WERF	x					x				
3	eFoodPrint	URV/LabFerrer								x		
4	WEST	UC Berkeley	x	x	x	x						
5	Eolia	Veolia					x					
6	O2C	Degremont	x	x								
7	BEAM	CCME					x					
8	LCA-Biose	SAFEGE	x	x	x							
9	City-Biose	SAFEGE										
10	Dantes	SAFEGE	x					x				
11	N-Calculator	N-Print								x		
12	Footprint calculator	GFN								x	x	
13	Footprint calculator	WWF								x	x	
14	SITA. Suez	Suez	x							x		
15	LIMAS. Simpple	Simpple								x		
16	EuPeco-profiler	LIMAS								x		
17	Athena EcoCalculator	Athena sust. Mat. Institute										
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23	Simple LCA	KÖVET								x		
24	LCA tool development	Start2see										
25	Global Water tool	WBCSD		x						x		x
26	GEMI global water tool	GEMI initiative										
27	EIOLCA	Green Design Institute								x		x
28	Bilan Carbone	ADEME								x		
29	Ukwir tool	Ukwir	x	x	x	x						
30	SWADE tool	CETaqua	x							x		x
31	CAFCA tool	CETaqua	x	x	x	x						
32	Ecoparcs	CETaqua										
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36	LCAqua	VEOLIA/KIWA										
37	Simplified LCA	Earthshift										
38	Earthster											
39	Free Carbon Footprint calculator	The nature conserv										x
40	Carbon footprint calculator	Carbon Footprint								x		x
41	Household carbon footprint calculator	EPA								x		x

4 tools take into account the whole urban water cycle

Thank you
very much for your
attention

aquaenvec

ASSESSMENT AND IMPROVEMENT OF THE URBAN WATER CYCLE ECO-EFFICIENCY USING LCA AND LCC

www.life-aquaenvec.eu

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With the financial support of the European Commission