

THE R. LEWIS CO., LANSING MICH.	The second s
The second s	COLUMN ADDRESS OF TAXABLE PARTY.
THE OWNER AND ADDRESS OF TAXABLE PARTY.	CONTRACTOR OF THE OWNER OF
	And the second se
and the second s	Contraction of the local division of the loc
A DESCRIPTION OF A DESC	STATISTICS OF REAL PROPERTY.
A DESCRIPTION OF A DESC	
	Statement of the local division of the local
CONTRACTOR OF THE OWNER.	
	STATE OF STREET, STREE
No. of Concession, Name of Street, or other	THE R. P. LEWIS CO., LANSING MICH.
A DESIGNATION OF THE OWNER.	
	TALL AND ADDRESS OF A DECK
A REAL PROPERTY AND ADDRESS OF AD	
A DESCRIPTION OF A DESC	THE R. LEWIS CO., LANSING MICH.
	STATUTE OF ST
Giana and an and an and	ALC: NO DESCRIPTION OF A D
	THE R. P. LEWIS CO., LANSING MICH.
The subscription of the local division of th	THE OWNER WATCHING THE PARTY OF
a person of the second second	STATES OF STREET, STRE
	Station in the state of the sta
	THE R. LEWIS CO., LANSING MICH.
A REAL PROPERTY AND A REAL	Statement of the state of the s
	THE OWNER AND AND ADDRESS OF THE OWNER ADDRESS OF THE OWNER.
	NAME OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY.
and the second second	NAME OF TAXABLE PARTY.
And Inc. of Concession, name	The statement of the second st
E Contraction of the local division of the l	and the second s
di line in i	STATEMENT OF THE OWNER WATER OF THE OWNER OWNER OF THE OWNER
A REAL OF THE OWNER.	NAME OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY.
A REAL PROPERTY OF LAND	A REAL PROPERTY AND ADDRESS OF TAXABLE PARTY AND ADDRESS OF TAXABLE PARTY AND ADDRESS OF TAXABLE PARTY ADDRESS OF TAXABLE PARTY ADDRESS OF TAXABLE PARTY.
and the second se	TANK MERCENSION OF TANK MERCENSION
A B THE LAS	COLUMN AND ADDRESS OF TAXABLE AD
OTHER DESIGNATION.	COLUMN TWO IS NOT THE OWNER OF TAXABLE PARTY IN COLUMN TWO IS NOT THE OWNER.
THE R. LEWIS CO. L. L. L.	THE R P WE WANT TO DO TO THE OWNER WANTED
The second is a second second second second	INC. STREET, S
COMPANY AND A COMPANY	A REAL PROPERTY AND A REAL
IN STREET, SHI THE RANGE	THE R. P. LEWIS CO., LANSING MICH.
THE OWNER AND ADDRESS OF	THE R. P. CONTRACTOR NO. 1 NO. 1 INC.

CLEAN TECHNOLOGY AS ENABLER FOR

CIRCULAR ECONOMY IN EUROPE

Carine Van Hove – Karl Vrancken

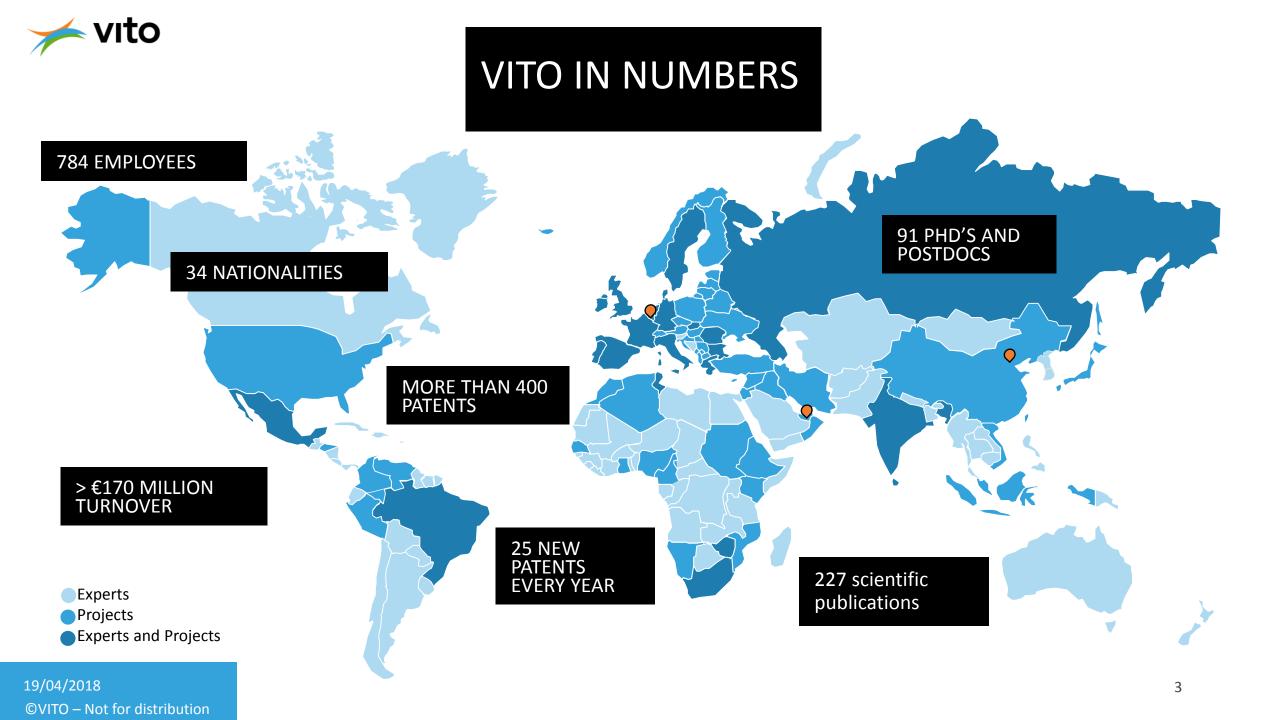


FROM SCIENCE TO APPLICATION

WORKING ON THE SUSTAINABLE DEVELOPMENT GOALS

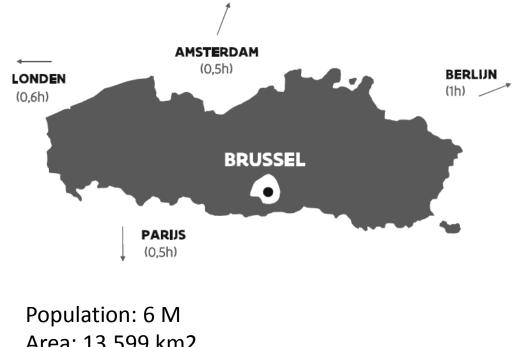


VITO CONVERTS IDEAS INTO REALITY

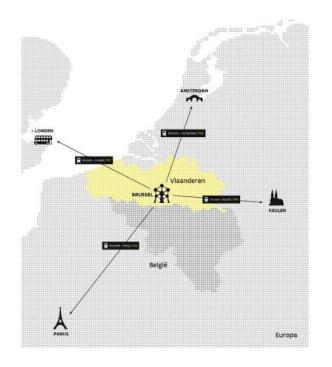




Flanders – Northern region in Belgium – Europe's most important CHEMICAL hub



Area: 13.599 km2 Provinces: 5 Municipalities: 308 Inhabitants/km2: 445 Densely populated Highly industrialised Regional environmental policy









We Tackle the materials' grand societal challenges

Growing consumption



Increasing supply scarcity



Huge amounts of waste



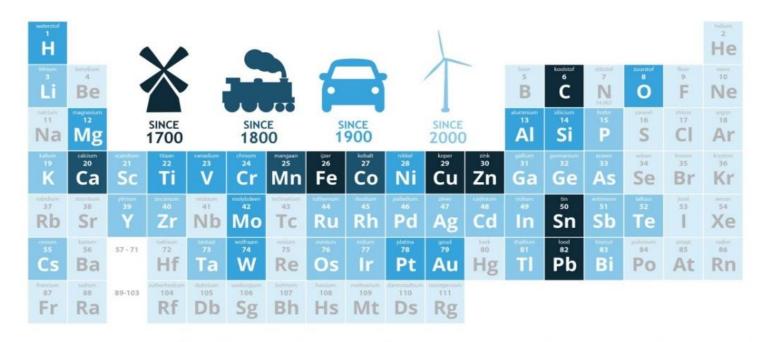
TO ACCELERATE THE TRANSITION TO THE CIRCULAR ECONOMY





More elements are crucial for our (cleantech) products

Demand side



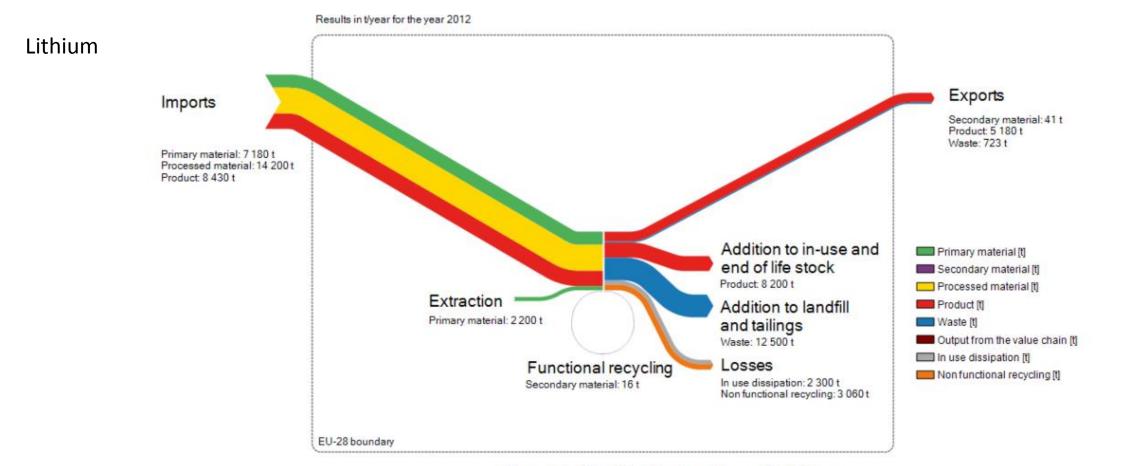
srithanum S7 La	seturn 58 Ce	Pr			Europuer 63 Eu				67 HO				zi Lu
89 Ac	90	Pa	93	94	95	96	97	98	99	100	101 Md	102	103 Lr

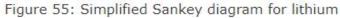
eriodict table: http://www.briantalessandro.com/blog/the-periodic table of the elements-in-adobe-illustrator-format/

19/04/2018



Europe- highly dependent on imports





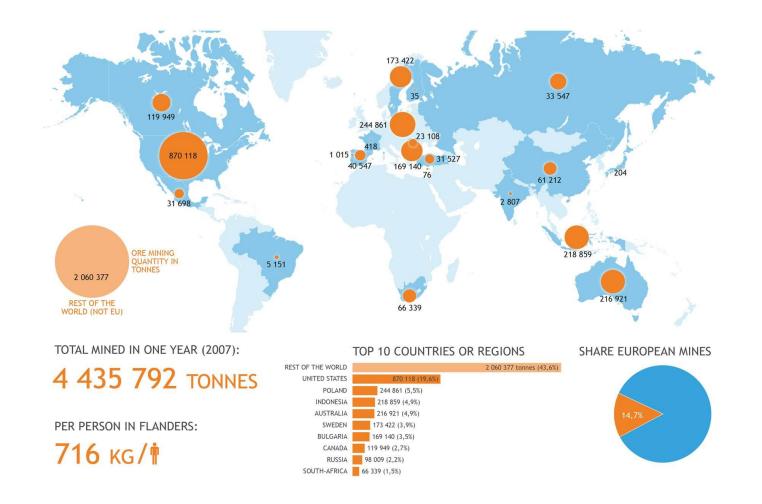
19/04/2018

©VITO – Not for distribution



Flanders (BE) – highly dependent on imports

Copper

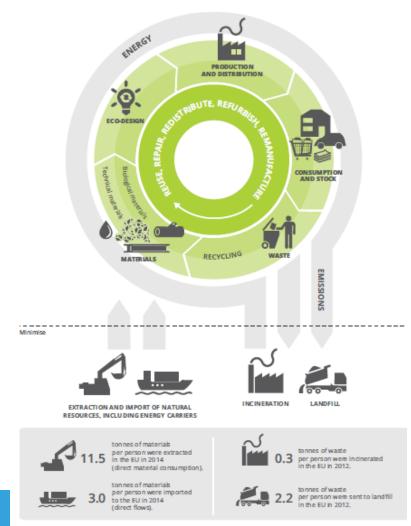


19/04/2018

OVITO – Not for distributior



Circular economy simplified representation



- Slowing
- Narrowing
- Closing material loops

Circular economy in Europe — Developing the knowledge base

Publication — Created 07 Dec 2015 — Published 18 Jan 2016

Topics: Resource efficiency and waste

EEA Report No 2/2016



The report describes the concept of the circular economy and outlines its key characteristics. It draws attention to both the benefits and challenges in transitioning to such an economy and highlights possible ways to measure progress.

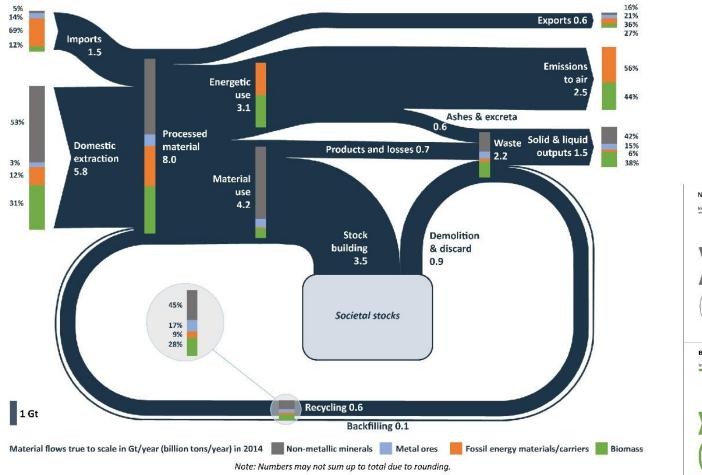
VITO for European Environment Agency

19/04/2018

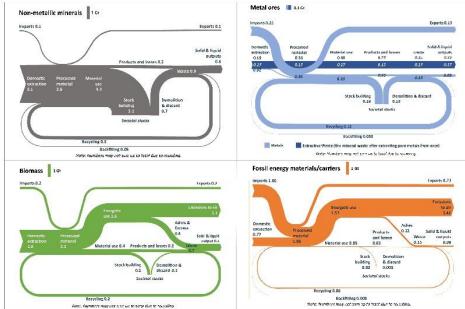
©VITO – Not for distribution



EU monitoring framework





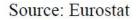




Recycling practice

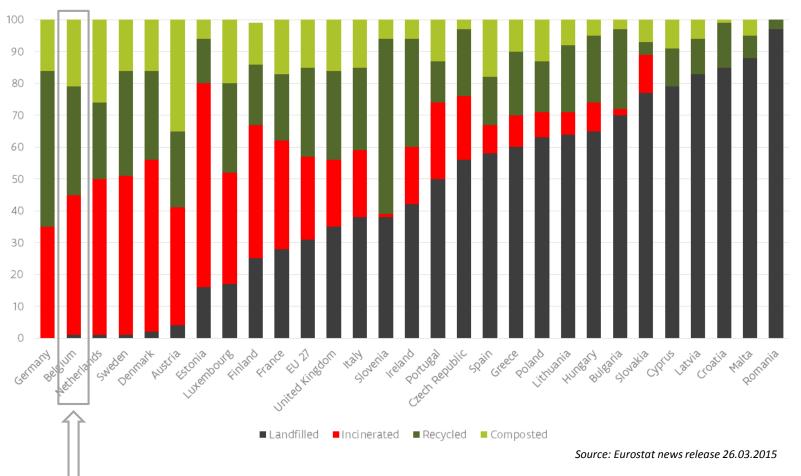
Overview **recycling rates** of different waste streams







MSW treatment in the EU Member states, vs Belgium



MSW treated in EU - 2013

19/04/2018





CIRCULATOR

22

THE CIRCULAR BUSINESS MODELS MIXER

EXPLORE THE ARCHETYPES

We have identified four archetypes that each represent a specific business focus as the main entry point for developing a circular business model.

Focus on relationship with the customer – From product to service



Companies within this archetype focus on providing a service that directly addresses the needs of their customers, rather than on selling a product. They typically put a strategic focus on business s... read more



read more

Focus on the product or

process itself – Circular

product or process design

These companies put their main focus on improving the circularity of their products and/or production processes by directly addressing the sustainable materials management strategies. This archetype ...

Focus on relationship with

the value network -

networks

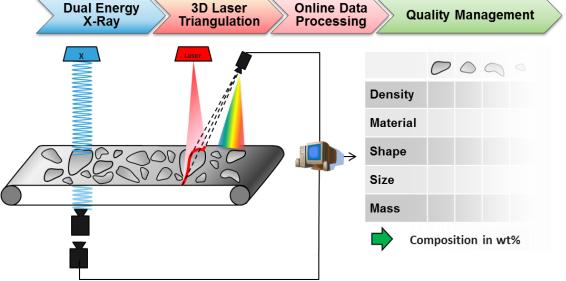
Building circular value

To master the circularity of a product without having control over all stages of a product's lifecycle, collaboration with other companies downstream and upstream the value chain, and/or with custome... read more



Webtool to explore real life circular business cases that match your strategic context <u>http://Circulator.eu</u>

<section-header>



19/04/2018 ©VITO – Not for distribution _



Technological needs for CE

- advanced collection, sorting and recycling technologies,
- efficient materials processing technologies,
- production technologies that support design for circularity
- interactive platforms for enhanced connectivity.



- Advanced Sorting and Characterisation
- Virtual Product Chains
- Mapping Urban Metabolism





G-STIC 2018 – industry involvment Demonstrate your leadership in sustainable development

Carine Van Hove Partner Relations Manager





SDG's

















G-STIC2018 – TECHNOLOGY THEMES - EXHIBITION

AGRICULTURE & FOOD	ІСТ
CIRCULAR ECONOMY	OCEAN INDUSTRY
ELECTRIC MOBILITY	SUSTAINABLE BUILDING
ENERGY POSITIVE COMMUNITIES	WASTE WATER AS A RESOURCE



G-STIC2018 – SOCIETAL THEMES – INTEGRATED SOLUTIONS IN ACTION

HOUSING

WORK & MANUFACTURE

TRAVEL & TRANSPORT

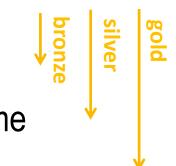
LIVE & STAY HEALTHY

EAT (INCLUDING AGRICULTURE)



FORMULA 1 – "STRATEGIC PARTNER" – NON-TECHNOLOGICAL

- Who non-technological
- Impact testify your leadership in sustainable development and the accelerated implementation of the SDGs
- Benefits outreach
 - Keynote presentation in parallel sessions Free slot at speakers' corner/Theatre Sponsor a Societal or Technological Theme
- Format BRONZE / SILVER / GOLD
- Price 20.000 € / 40.000 € / 50.000 €





FORMULA 2 – TECHNOLOGY EXHIBITION

- Who Market-ready and globally scaleable technologies related to G-STIC Themes
- Impact show your products and technologies to a global network of influential individuals, policy makers, investors and businesses in an exhibition booth of your own design, situated in the G-STIC Main Network Area Fit with TECHNOLOGICAL THEMES
- Benefits Depending on the chosen formula
 - 16m² --- 6.400 € --- 2 Exhibitor passes --- 1 Conference pass --- 20 Invitation passes for Exhibitor Night
 - 24m² --- 9.600 € --- 3 Exhibitor passes --- 2 Conference passes --- 30 Invitation passes for Exhibitor Night
 - 32m² --- 12.800 m² --- 4 Exhibitor passes 3 Conference passes --- 40 Invitation passes for Exhibitor Night



FORMULA 3 – "INTEGRATED SOLUTIONS IN ACTION"

- Who Companies that experienced the power of integration, both in existing global markets and as part of a technology stack, system approach or integrated solution
- What Show the power of integrated technology concepts and system thinking within the scope of SDG implementation
 Fit with SOCIETAL THEMES
- Format Applications in cooperation from at least 3 companies Assessment by a G-STIC Committee Compliance with G-STIC2018 Framework AFFORDABILITY – ACCESSIBALITY - IMPACTFUL
- Benefits Exposure and attention in the G-STIC Main Networking Area
- Price 2.000 € / SME ----- 4.000 € / Corporate



INTEGRATED SOLUTIONS IN ACTION --- SOME INSPIRATIONS











TIMING

- Application deadline
 → May 31th, 2018
- Feedback
 - \rightarrow June 20th, 2018
- Event
 - \rightarrow November 28th 30th



THANK YOU

Carine Van Hove Partner Relations Manager G-STIC2018

> *carine@gstic.org* +32 493 51 42 72

