HELLO AND **WELCOME**



Who we are

- CEYES is one of the world's leading consultancy firms for research, products, design and management of tire recycling facilities through re-cycled and up-cycled rubber.
- We offer specialized independent advice, knowledge and effective solutions for the production of re-cycled and upcycled rubber for, inter alia, decision makers, starting entrepreneurs and companies.



FOUNDERS AND TEAM



Leo van Dongen CEO & founder

Rubber recycling and product development expert with 20+ year experience. Experienced entrepreneur.



Ed de Koning CEO & Co-founder

Waste truck tire expert with 30+ year experience. Experienced entrepreneur.



Johan Godschalk CFO & Co-founder

30+ years in finances at multinational asset management and recycling companies. Experienced entrepreneur.





ceyes

TIRE RECYCLING CONSULTANCY

- CEYES helps companies build succesful tire recycling solutions
- With the focus on the Circular Economy
- Together with our great partners







20+ YEARS OF EXPERIENCE

With more than 20 years of experience and know-how.

We started CEYES Circular Experts in 2016, and is enable to offer our customers the best complete tire recycling solutions.

WE BUILT

Over the last 20 years together with our partner MTB Recycling, tire recycling facilities in Croatia, Romania, England, Israel, Tunisia, USA, Sweden, Kuwait, Latvia, Estonia









Israël









Sweden







TOGETHER WITH MTB WE DEVELOPED NEW SMALL SCALE SOLUTIONS

- This is a whole new approach, smallscale production in the Circular Economy.
 BOX SYSTEMS are circular, compact, mobile, efficient, economical and create less CO2 emissions compared to a factory building.
- BOX SYSTEMS are ideal in regions with a radius of 150 mile.
- In this day and age, it is no longer justified to cover large distances, together with its forthcoming high CO2 emissions.





- Mare Than Business.

COMPACT TIRE RECYCLING SOLUTION FIRST MODULAR CONCEPT DEDICATED TO TIRE RECYCLING





133 474 928 768

Quartier de la Gare - 38460 Trept - FRANCE - www.mtb.fr - info@mtb.fr





ADVANTAGES

Compact and Green

- Quick transportation and connection.
- Plug 'n' Run.
- GATOR box incorporates, in its 20-foot container, the RSX: a two-rotor shear.
- Quick access to cuttingroom.
- Quick exchange of the rotors .







ADVANTAGES

- 100% of MTB's expertise and performance in boxes.
- Plug'n'Run Compact Tire Recycling Solution







MODULAR EXPANDABLE SYSTEM







Latvia



INTRODUCTION

REDUCING AND REUSING rubber of WASTE TIRES

CEYES takes responsibility

of waste tires after the end of traditional use.

CEYES is already ahead and closed the loop on waste tires.





NOW IS TIME TO ACT

WASTE TIRE PROBLEM will increase dramatically in urban cities in the next coming decate



The C40 Mega cities will grow rapidly.



In the next 20 years more than double the number of middle class. The Co₂ polution needs to be reduced.







CEYES is focused on C40 Mega cities

C40 Reinventing Cities

- A global network of mayors taking urgent action to confront the climate crisis and create a future where everyone can thrive.
- Cities will shape our future.



C40 is composed of 96 mega cities members around the world

South America:

Argentina – Buenos Aires Brazil – Curitiba Brazil – Rio de Janeiro Brazil – São Paulo Brazil – Salvador *Chile – Santiago *Colombia – Bogotá *Colombia – Medellín Ecuador – Quito Peru – Lima Venezuela – Caracas

South east Asia & Oceania:

*Australia – Melbourne Australia – Sydney Indonesia – Jakarta Malaysia – Kuala Lumpur New Zealand – Auckland Philippines – Quezon City Singapore – Singapore Thailand – Bangkok Vietnam – Hanoi Vietnam – Ho Chi Minh City



East Asia:

China – Beijing China – Chengdu China – Dalian China – Guangzhou China – Guangzhou China – Nanjing China – Shanghai China – Shenzhen China – Shenzhen China – Wuhan Hong Kong – Hong Kong Japan – Tokyo Japan – Yokohama South Korea – Seoul

South and West Asia:

Bangladesh – Dhaka India – Bengaluru India – Chennai India – Jaipur India – Kolkata India – Mumbai Israël – Tel Aviv India – New Delhi Jordan – Amman Pakistan – Karachi United Arab Emirates – Dubai

* Cities where CEYES is today active to develop new businesses



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Europe:

Denmark – Copenhagen *France – Paris Germany – Berlin Germany – Heidelberg Greece – Athens Italy – Milan Italy – Rome Italy – Venice *Netherlands – Amsterdam *Netherlands – Rotterdam Norway – Oslo Poland – Warsaw *Russia – Moscow Spain – Barcelona Spain – Madrid Sweden – Stockholm Switzerland – Basel Turkey – Istanbul UK – London



Africa:

Egypt – Cairo Ethiopia – Addis Ababa Ghana – Accra Kenya – Nairobi Nigeria – Lagos Senegal – Dakar Sierra Leone – Freetown South Africa – Cape Town South Africa – Durban South Africa – Johannesburg South Africa – Tshwane Tanzania – Dar es Salaam

North America:

Canada – Montreal Canada – Toronto Canada – Vancouver United States – Austin United States – Boston United States – Chicago United States – Houston United States – Los Angeles United States – New Orleans United States – New York City United States – Philadelphia United States – Portland United States – San Francisco United States – Seattle United States – Washington, DC *Mexico - Guadalajara *Mexico – Mexico City

* Cities where CEYES is today active to develop new businesses



THE CIRCULAR ECONOMY

IS A GLOBAL ASPIRATION THAT MUST BE TACKLED LOCALLY









SET UP FIRST SMALL SCALE PRODUCTION HUB VENLO NL 2021









































evolutionary wooden buildings



- CEYES HUB, development location landscape
- Plot size +/- 1.500 m2





We help you to deal with residual flows of rubber from your synthetic turf fields in a circular way.....



with water buffering solutions in your municipality





MULTI-FUNCTIONAL PANELS FROM RECYCLED TIRES

We turn rubber wastes into smart products to solve urban environmental problems: floods, heat stress and noise.



SOLUTIONS FOR ROOFTOPS



The biggest catalog of rooftops counts 130 variants. They are very important for stormwater management. Each color of roof has specific features. CE GREEN city panels can be used for:



Water retention

Blue roof provides initial temporary water storage. Water is stored until it either evaporates or is released downstream.



Biodiversity

Green roofs serve several purposes for a building: absorbing rainwater, providing insulation, creating a habitat for wildlife



Energy

Yellow roof is a Symbiosis between Biodiverse Green Roofs and Renewable Energy, i.e. integration of Solar PV Panels



Water detention

Purple-Roof is a green roof that incorporates high retention and detention capabilities.



Public areas

Red roof can replace the gardens or local parks at ground level offering different activities to house residents.





The liveability of our cities stands under pressure.







The solution comes out your artificial grass pitch









After 10 years it's time for a new field - but sustainable

Re Match separates grass, sand and rubber









Your rubber goes then to our small-scale factory in the region









...to press your own water buffering panels.









The solution for water buffering from your own artificial grass pitches.









The solution for water buffering under green roofs









The solution for water buffering under 'living roofs' and terraces








The solution for water buffering under cobblestone roads and parking lots







We recycle every football field through a subscription to 4,500m2 . Cegreen



The Green City helps to use them optimally within your municipality





A total solution for two challenges: your rubber residual flows and rain water management



for greening, cooling, noise and heat stress reduction in the immediate living environment





> 100.000 waste truck tires at Michelin Homburg annually



CLOSED LOOP CIRCULAR DESIGN





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Worn used tires

Worn carcasses are returned to the factory for quality / reuse control







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Worn used tires

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Tire retreading

a high-quality retreaded tire requires only 30% of the oil and 70% less energy, so that up to 80% lower CO2 and other carbon emissions.











Tire recycling

Recycling saves impressive amounts of energy, which ultimately reduces greenhouse gas emissions.





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CEYES CE Green City products

Using recycled rubber in molded products, for example, creates a substantially smaller (**up to 20 times**) carbon footprint as compared to using virgin plastic resins.





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Oil, gas and Carbon black

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MICHELIN Recycling Solution in final numbers



The averages of a ELT has 27 kg rubber and CE Green City panel of 1m2 has about 27 kg We calculate with 1 ELT is 1m2 Tabel: CO2 emissions during the lifetime per (average) truck tire (kg CO2-eq / m2 / year)

		C	D2 footprint (kg)
New Michelin truck tire			220
#1 Michelin Remix tire (retreaded tire)			39
#2 Michelin Remix tire (retreaded tire)			39
			298
	kg CO2-eq / m2 / year	Lifespan (yrs)	
Rubber CE Green City panel	-4,093	75	-307
Standard plastic green roof construction	-3,157	37,5	-118
Standard roof	0,464	25	12

A retreaded tire = -70% raw materials than a new tire



TECHNOLOGY





TO CIRCULAR ECONOMY PRINCIPALS

- Mobile, compact installation allows to transport closer to sources of waste (radius not more than 200 km)
- 100% recycling of materials (LCA provided by manufacturers)
- 2x reduction in CO2 emissions compared to standard production
- Alignment with UN SDGs: 3, 9, 11, 12, 15, 17

SECONDARY RUBBER INSTEAD OF PLASTIC

- Lifetime 100 years, life cycle analysis verified by SGS search
- 100% recyclable many times
- Strength, elasticity



IMPROVED MOULDING TECHNOLOGY

- Increased heating temperature up to 120 °C
- Increased pressure up to 100 tons
- Accelerated crumb mixer
- Efficiency (non-stop production)
- Technology Readiness TRL9

* The equipment is manufactured according to the CEYES technical specifications on the terms of confidentiality and exclusivity





LOWER CARBON FOOTPRINT





SOCIAL ENTREPRENEURSHIP in the CEYES COMMUNITY

- Benefit Corporations (B Corps) form a worldwide network of certified companies that, besides profit, also strive for a high standard for social and ecological impact, accountability and transparency.
- Globally there are over 2000 B Corps in 50 countries and 130 industries with one common goal:

"using business as a force for good"



CEYES COMMUNITY



- Individual CEYES entrepeneurs are part of the worldwide CEYES network.
- New product idea's will be studied by the CEYES R&D department before implement in the worldwide network.
- The involved individual CEYES partner will receive a product sales fee of the worldwide producers.
- Now more than ever we need to pull together. And that's exactly what we see happening in our global green community. Our number of participating countries has to grown. And with the support of all of our international partners we've been able to create a fully totally new product range of CEYES products.
- Together we create #globalgreenimpact

CEYES products contributes to the following UN sustainable development goals













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