

CIRCULAR INNOVATION CITY CHALLENGE

SUBMISSION OVERVIEW 2021

SOLUTION NAME:

Around

Country: Italy

Founded: 2020

Type: Service, Software/App, Data/Analytics

Summary: Around revolutionizes single-use packaging on take away and delivery service, through the distribution of smart reusable food containers. The Around mission it to inspire and encourage a circular lifestyle to save our planet from waste.

SOLUTION NAME:

My Energy Solution

Country: netherlands

Founded: 2020

Type: Platform, Service, Software/App, Data/Analytics, Proces/Businessmodel

Summary: Sustainable living; what is it, what does it do, what does it cost and what does it yield, how does it look like? MES is an individual sustainable (living) planner with a link to a database or marketplace. For your sustainable, circular dream house.

SOLUTION NAME:

Circular waste platform

Country: Netherlands

Founded: November 2019

Type: Platform

Summary: Seenons is a platform to make 100.000 companies residual waste free by 2025.

SOLUTION NAME:

Swop

Country: Denmark

Founded: 2020

Type: Platform, Software/App, Data/Analytics

Summary: Swop is a social, mobile marketplace for second-hand clothes that instantly shows you the carbon emission savings when you swap second-hand clothes locally in your city.

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SOLUTION NAME:

A circular, closed loop Hyperlocal Urban Farm

Country: Netherlands
Founded: 2012
Type: Service, Electronics/Hardware, Data/Analytics, Proces/Businessmodel
Summary: Develop a compact, closed loop system that transforms organic waste to food in cities. Food waste, as a feedstock for anaerobic digestion, can power a hyperlocal urban farm. A breakthrough in food waste upcycling and high-density farming combined.

SOLUTION NAME:

Be One to Give

Country: Canada
Founded: 2019
Type: Service, Software/App, Data/Analytics, Education/Training, Proces/Businessmodel
Summary: Be One to Give is a B2B food redistribution app to help retailers reduce food waste and combat food insecurity. We help lower the cost of organic waste, reduce GHG emissions and the overuse of our natural resources, all with the tap of an app!

SOLUTION NAME:

Symbiotic Systems

Country: Netherlands
Founded: 2020
Type: Service, Data/Analytics, Education/Training, Proces/Businessmodel
Summary: Model to quantifying Ecosystem Services for spatial development based on the principles of biomimicry

SOLUTION NAME:

Donate Your Used Technology

Country: Canada
Founded: 1993
Type: Platform, Service, Electronics/Hardware
Summary: Your donated technology will help people in need. By choosing to donate your computer technology you are taking an active role in helping to reduce the digital divide Ontarians are facing today.

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SOLUTION NAME:

KUPKrush Single Use Paper Cup Circular Economy Recycling

Country: Canada

Founded: 2020

Type: Platform, Data/Analytics, Proces/Businessmodel

Summary: Reducing disposable coffee cup and other single-use beverage cup waste through an innovative deposit mechanism using the latest Distributed Ledger Technology to ensure that recycling is economically viable for all participants of the ecosystem.

SOLUTION NAME:

Origami Cool Shade

Country: Japan

Founded: 2020

Type: Other

Summary: To mitigate urban heat island which is worse than climate change, Origami cool shade is designed for all in the world. The origami is easy to make and any people would join to make it and use it to tackle heated cities in the world.

SOLUTION NAME:

Motivational Interviewing

Country: Canada

Founded: 2014

Type: Service, Education/Training

Summary: For 50 years we've known we need to change our ways to reduce global ghgs. In this time we've neglected to use the best value in the field of psychology. Motivational Interviewing is that value, and it is time for MI.

SOLUTION NAME:

FreshAi - Circular Online Groceries

Country: Israel

Founded: 2020

Type: Service, Software/App, Electronics/Hardware, Data/Analytics, Proces/

Summary: Change the way people shop groceries online while moving to circular economy.

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SOLUTION NAME:

ME Solution - Monitor Everything

Country: Canada
Founded: 2019
Type: Platform, Service, Software/App, Electronics/Hardware, Data/Analytics, Proces/
Summary: Our solution focuses on monitoring all energy and sensor aspects of all types of facilities within a city which include Commercial, MURB, Mixed Use, Retail, Institutional and related.

SOLUTION NAME:

Astrios

Country: Netherlands
Founded: We undertook our technical feasibility in March 2020.
Type: Platform, Data/Analytics
Summary: We identify heat waste in urban areas and classify the biggest sources of waste such that they can be prioritised for corrective actions. As heat generation is the primary source of CO₂, this will result in greatest decreases in CO₂ emissions.

SOLUTION NAME:

Excess Materials Exchange for Circular Cities

Country: Netherlands
Founded: 2017
Type: Platform, Software/App
Summary: To solve the problems of scaling the circular economy, we founded the Excess Materials Exchange (EME); a B2B SaaS platform that acts as a datingsite for secondary materials and waste.

SOLUTION NAME:

BIYU

Country: Netherlands
Founded: 2020
Type: Platform
Summary: BIYU is for products what Spotify is for music. Access replaces ownership and therefore resources are shared. BIYU makes the best brands available for a low price when people need it. When they are finished using a product, the next member will be ab

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SOLUTION NAME:

Analysis of Consumer Packaging Waste

Country: Canada
Founded: 2020
Type: Service, Software/App, Electronics/Hardware, Data/Analytics
Summary: Using hyperspectral imaging and machine learning to determine the amount of each type of packaging -- down to the polymer type -- consumed by a city's residents.

SOLUTION NAME:

FixFirst

Country: Germany
Founded: 2019
Type: Platform, Service, Software/App, Data/Analytics, Proces/Businessmodel
Summary: FixFirst is the operating system for repair & maintenance in a circular economy. We enable the ecosystem of local repair services providers, manufacturers, retailers and insurances to keep products of consumers in use longer.

SOLUTION NAME:

EQUO - Small Solutions, Big Impact

Country: Vietnam
Founded: 2020
Type: Other
Summary: EQUO is a sustainable brand delivering easy solutions for everyday single-use plastic items. First line of products is drinking straws made from grass, rice, coconut and sugarcane that are 100% plastic-free, biodegradable, compostable and non-toxic!

SOLUTION NAME:

TCQi-GMA: Environmental Indicators in the Green Cities

Country: Spain
Founded: 2012
Type: Software/App
Summary: Our project is a SaaS that makes possible to prepare the necessary documents for the construction and demolition waste management study and analyze environmental indicators in the construction sector.

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SOLUTION NAME:

Re-Born Textiles

Country: Israel

Founded: 2020

Type: Platform, Electronics/Hardware, Proces/Businessmodel

Summary: Our solution is to create urban and replicative circular textile microfactories. Based on our smart Re-Born Textiles integration system they will increase and optimize urban textile waste management.

SOLUTION NAME:

POKET: Crowdsourcing SaaS for Citizen-Generated Data

Country: Canada

Founded: 2018

Type: Software/App

Summary: POKET is a SaaS platform for organizations to deploy their own crowdsourcing engagements. Organizations put the tools in the hands of citizens. These citizens receive incentives for entering location-specific observations and insights on their phone.

SOLUTION NAME:

FlexSola

Country: Canada

Founded: 2017

Type: Other

Summary: FlexSola creates modules that can be added horizontally, or vertically. The bolts-only connections allow all components to be easily and quickly assembled, or disassembled, which this could be accomplished with robotic drones.

SOLUTION NAME:

Bin-e

Country: Poland

Founded: 2016

Type: Platform, Software/App, Electronics/Hardware, Data/Analytics

Summary: World's first AI-based smart waste bin that recognizes and sorts the waste automatically

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SOLUTION NAME:

Canada's largest business resource marketplace operator and provider

Country: Canada

Founded: 2015

Type: Platform, Service, Software/App, Data/Analytics

Summary: Businesses need resources to operate. Alas most companies have excess capacity laying dormant which could be beneficial to neighbouring companies. At BizBiz Share, we unlock the potential of those dormant assets for the benefit of the local economy.

SOLUTION NAME:

Vakansa - Making the best use of existing premises

Country: Sweden

Founded: 2019

Type: Platform, Service

Summary: Vakansa helps existing & new tenants to co-use premises. Nationally we resemble AirBnB & GuestIt through our marketplace with services such as insurance, setting up contracts & facility management. Locally like WeWork by managing our local hubs.

SOLUTION NAME:

SENSE - The First Sustainability Loyalty Program

Country: Canada

Founded: 2021

Type: Platform, Software/App, Data/Analytics

Summary: SENSE is a coalition loyalty program that rewards sustainable consumption habits of consumers while providing them with data-driven insights on their purchasing habits.

SOLUTION NAME:

Mobile Market as a Service (MMaaS)

Country: We originate in Atlantic Canada with the Pilot taking place in California, USA.

Founded: 2019

Type: Platform, Service, Software/App, Electronics/Hardware, Data/Analytics, Education/

Summary: The Farmers' Truck's mission is to provide an affordable mobile market truck for organizations to serve food deserts in their communities while creating a market style experience that fosters pride & dignity.

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SOLUTION NAME:

Public Tools Library

Country: The Netherlands

Founded: NA

Type: Other

Summary: Public Tools Library would enable sharing of tools to encourage repairs and provide a space for people to learn, collaborate and share ideas to encourage circularity.

SOLUTION NAME:

GEOthermal Piles

Country: Canada

Founded: 2018

Type: Other

Summary: Our GEOthermal Piles integrate geothermal functionality into steel foundation piles enabling a building to obtain both its foundation and renewable geothermal heating and cooling together in one.

SOLUTION NAME:

loop-it // digital deposit system for reusable products

Country: Sweden

Founded: 2019

Type: Platform, Service, Software/App, Data/Analytics, Proces/Businessmodel

Summary: loop-it is a digital deposit system for reusable items in order to eliminate single-use items. We started off in the take-away industry with reusable cups and boxes, and are expanding our platform to all items that can be reused in a Circular Economy

SOLUTION NAME:

Circular return system for take away containers.

Country: Denmark

Founded: 2020

Type: Platform, Service, Software/App, Electronics/Hardware, Proces/Businessmodel

Summary: New Loop develops a unified circular return system for take away containers. We do so in a Corp company form. Hereby helping the takeaway industry with the forthcoming extended producer responsibility in 2025 and creating a CO2 reduction impact

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SOLUTION NAME:

Sensoneo smart waste management

Country: Slovakia

Founded: 2017

Type: Platform, Service, Software/App, Electronics/Hardware, Data/Analytics

Summary: Sensoneo is a enterprise-grade smart waste management solutions provider that enables cities and businesses to manage their waste efficiently, lower their environmental footprint and improve the quality of services.

SOLUTION NAME:

MyLocal Community

Country: Denmark

Founded: 2020

Type: Platform, Data/Analytics, Proces/Businessmodel

Summary: MyLocal is a platform that democratises access to handmade and locally sourced products for the Danish market and creates a community for local manufacturers and creators. Creating sustainable accessibility through a circular economy business model.

SOLUTION NAME:

Mobile app to help people recycle

Country: United Kingdom

Founded: 2020

Type: Platform, Service, Software/App, Data/Analytics

Summary: Horizon provides local, accurate recycling instructions for products. Simple scan a barcode and we will tell you if you can recycle the packaging in your area. Our recommendation engine will also help you find sustainable alternatives.

SOLUTION NAME:

AquagriTech

Country: Congo Brazzaville

Founded: 2019

Type: Proces/Businessmodel

Summary: AquagriTech values urban bio-waste to make natural food of fish associated in one system with plants that assimilate the excrements of fish for their growth, the water is so filtering and return to the fish tank. The cycle saves 90 per cent of water.

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SOLUTION NAME:

Region Net Positive

Country: New Zealand

Founded: 2020

Type: Platform, Data/Analytics, Education/Training

Summary: To grow a community network of transitional and net positive communities.

SOLUTION NAME:

GreeNet by GoGreenAI

Country: Germany

Founded: 2020 (company not yet founded)

Type: Software/App, Electronics/Hardware, Data/Analytics

Summary: Our innovative solution focuses on increasing recycling rates by sorting the waste on the spot using AI supported smart bins. Such a smart bin creates a digital representation of municipal waste profile and digitalize the waste management systems.

SOLUTION NAME:

Not Far From the Tree

Country: Canada

Founded: 2008

Type: Platform

Summary: Not Far From the Tree (NFFTT) provides Toronto's fruit picking and sharing platform. We connect tree owners with excess fruit with member volunteers to pick fruit sharing thirds between the owner, volunteers and social service agency partners.

SOLUTION NAME:

ROOPI

Country: colombia

Founded: 2021

Type: Platform

Summary: ROOPI es un Marketplace que da un posicionamiento digital a microempresas minoristas o mayoristas sin identidad conectando vendedores y compradores de moda y accesorios, además de ofrecerles servicios de marketing digital a través de nuestras redes s

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SOLUTION NAME:

Smart return system for the connected products economy

Country: Hong Kong

Founded: 2020

Type: Platform, Service, Software/App, Electronics/Hardware, Data/Analytics, Proces/

Summary: We build tech to enable circular economy business models to operate in cities. We provide smart return systems for connected products (reuse/refill) and data optimised reverse logistics. One return system. Multiple return solutions.

SOLUTION NAME:

Freecycle App

Country: Canada

Founded: 2020

Type: Platform, Service, Software/App

Summary: Give away used items, spot free stuff on the street, and divert waste from landfills. The Freecycle App uses the latest phone technology to find items nearby. The interactions are in real-time, and it is a Cloud based solution that auto-scales.

SOLUTION NAME:

Real-Time 311 for everyone with a smartphone

Country: Canada

Founded: 2018

Type: Software/App

Summary: Wingmate gives citizens and city workers a voice to work together as one to improve our city. Wingmate's App is one of the most easy-to-use and straightforward solutions for any city or region looking to connect its citizens to city officials.

SOLUTION NAME:

Waterpod by I-Drop

Country: South Africa

Founded: 2015

Type: Platform, Service, Proces/Businessmodel

Summary: The Waterpod by I-Drop enables a full circular economy solution for purified refill drinking water. Our unique product design combined with a monitoring & control IOT platform and sustainable business model enables inclusive drinking water solutions.

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SOLUTION NAME:

Cemiar

Country: Quebec, Canada

Founded: March 2019

Type: Platform, Service, Software/App

Summary: Cemiar, is a web application for browsers centralizing local clothing brands to reproduce a virtual version of a shopping mall. We offer the experience of shopping on the brands own website while benefiting the advantages of a marketplace.

SOLUTION NAME:

ConstructionWastePortal.com

Country: United Kingdom

Founded: 2018

Type: Software/App, Data/Analytics

Summary: Driving resource efficiency in the construction industry through accurate waste forecasts by applying data science to historic project data. Waste forecasts allow targeted reduction actions, while removing commercial risk from projects.

SOLUTION NAME:

Leveraging Blockchain to verify a circular value chain for recycled plastics

Country: United States

Founded: 2018

Type: Software/App, Data/Analytics

Summary: RecycleGO is deploying a blockchain-backed materials supply chain tracking system that will allow businesses and organizations improve operational efficiency and environmental sustainability through stakeholder transparency and accountability.

SOLUTION NAME:

Plastic sorting app

Country: Currently residing in Japan, but coming from the Netherlands

Founded: 2021

Type: Platform, Software/App, Data/Analytics, Education/Training

Summary: A mobile AI classification app that, given a picture, informs the user how to handle and recycle plastics within the local municipality. It stimulates people to recycle plastics, and reuse when possible and creates awareness in the long term.

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SOLUTION NAME:

Eleutherios

Country: New Zealand

Founded: 2020

Type: Platform, Service, Software/App, Proces/Businessmodel

Summary: Eleutherios is a global cooperative forum, that enables humankind (human or non-human, e.g. IOT device) to serve one another at scale or from the Heart.

SOLUTION NAME:

Innovation infrastructure for safe, sustainable and prosperous cities

Country: Canada

Founded: 2019

Type: Platform, Software/App, Data/Analytics, Proces/Businessmodel

Summary: Fully integrated suite of technologies and expertise to: (a) make any built environment safer, more sustainable and prosperous; (b) protect privacy of individuals; (c) promote partnerships and commercialization.

SOLUTION NAME:

Making waste and resources visible, verifiable and valuable

Country: United Kingdom

Founded: 2017

Type: Platform

Summary: Topolytics USP is its data analytics platform WasteMap®. It readily ingests data on individual waste movements across the city and combines it with other data to generate insights that drive greater resource recovery and economic opportunity.

SOLUTION NAME:

marinilla.city

Country: Colombia

Founded: 1 year

Type: Platform, Service, Education/Training, Proces/Businessmodel

Summary: Promoting the local commerce through the use of digital platforms

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SOLUTION NAME:

Waste Stream Registry

Country: Canada
Founded: This idea has only come to mind recently. It has only just begun.
Type: Data/Analytics
Summary: A way of linking innovators with waste streams that could be used as inputs to new products/processes. If you don't know what waste options are out there, how can you design a way to use or reduce that waste

SOLUTION NAME:

Environmental Data Management and Matching Solutions for the Reuse of C&D waste and Soil Across Sectors

Country: Canada
Founded: 2020
Type: Platform, Software/App, Data/Analytics
Summary: SoilCloud offers environmental data management and matching solutions that enable the reuse of C&D waste including Soil in construction, manufacturing to name a few. Our value proposition: C&D Waste and Soil from a liability to an economic resource.

SOLUTION NAME:

HABITA

Country: Mexico
Founded: 2020
Type: Platform, Service, Software/App, Data/Analytics, Education/Training, Proces/
Summary: The main focus is to shorten accessibility of architects, legal framework and regularization of construction in irregular settlements in rapidly growing cities creating networks, value and circular economy in these areas.

SOLUTION NAME:

Logville

Country: Sweden
Founded: 2016
Type: Software/App, Data/Analytics
Summary: Logville - A digital operative system for the city: Facilitating sustainable, shared transportation, incorporating circular flows, promoting locally produced goods, and reducing waste through automatically moving goods to where it is needed.

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SOLUTION NAME:

Building Common Grounds

Country: Nederland
Founded: 2020
Type: Platform, Service, Software/App, Electronics/Hardware, Data/Analytics, Education/
Summary: A blueprint for future living. Approached from Love.

SOLUTION NAME:

THE CITY OF SUSTAINABLE ECONOMIES

Country: Denmark
Founded: 2020
Type: Platform, Service, Software/App
Summary: What if the green and sustainable effort was a currency that one could invest and trade with? What if you could define a green GDP for an entire city or country and it would involve everybody from city to citizen?

SOLUTION NAME:

Cirqlø - Reuse Packaging as a Service

Country: Denmark
Founded: 2020
Type: Platform, Service, Data/Analytics
Summary: Cirqlø offers a seamless transition to reuse packaging. By applying tracking and monitoring tech to packaging, using innovative design and a strong network of partners, we have created a system that enables reuse.

SOLUTION NAME:

Automated Asset Management

Country: Denmark
Founded: 2020
Type: Platform, Software/App, Data/Analytics
Summary: Pluto empowers municipalities with cost-effective asset management empowered by AI. By automating the data collection through cameras, municipalities are able to save millions on smarter maintenance decisions & adhere to documentation requirements.

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SOLUTION NAME:

AI-driven circular procurement optimization

Country: Denmark
Founded: 2021
Type: Service, Data/Analytics, Proces/Businessmodel
Summary: The public sector in the EU countries procure goods and services worth 2.000 billion EUR annually. AI allows us to analyze the electronic invoices, identifying the spend categories & activities with the largest potential in terms of circular economy.

SOLUTION NAME:

Zero-Waste Wizard

Country: Canada
Founded: 2021
Type: Software/App
Summary: Modelled after the Waste Wizard app from the city of Toronto, this will be a one-stop shop for zero-waste solutions. Type in the item you need or are curious about and you'll get a list of sustainable version of it and where it can be found.

SOLUTION NAME:

Race Against Waste

Country: Netherlands
Founded: 2013
Type: Platform, Education/Training
Summary: Race Against Waste makes the circular economy fun, easy and educational. We bring circularity into the classroom by organizing the E-waste Race and the Textile Race. These projects combine an educational guest lecture with a waste collection campaign

SOLUTION NAME:

Sweco Recovery Long-Term Asset Inventory Management (RECLAIM)

Country: Sweden, Norway, Finland, Denmark, Estonia, Lithuania, Bulgaria, the Czech
Founded: 2021
Type: Platform, Service, Data/Analytics
Summary: A matchmaking platform to digitally connect stakeholders to predictions of building assets that will be demolished within the next 10 years. This enables long-term planning for the circularity of building materials to maximise material reclamation.

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SOLUTION NAME:

PedalHub

Country: United Kingdom

Founded: 2020

Type: Platform, Service, Software/App

Summary: Micro-mobility, Peer-to-peer sharing, SaaS, Sustainable transport. We are a climate-conscious team, that is passionate about providing cheap and reliable sustainable transport options through our software platform.

SOLUTION NAME:

Nearby (mobile/web-based platform)

Country: Canada

Founded: 2020

Type: Platform, Software/App

Summary: Nearby platform's mission is:

“To facilitate the shift towards sustainable local communities by connecting neighbours in meaningful ways”.

SOLUTION NAME:

Refilling the world with goodness!

Country: Sweden

Founded: 2020

Type: Platform, Service, Electronics/Hardware, Proces/Businessmodel

Summary: We mobilize package free shopping by changing consumption behaviour. Refillistic creates a more convenient, economical and sustainable shopping experience.

SOLUTION NAME:

Circulayo

Country: United Kingdom

Founded: 2020

Type: Platform, Software/App, Electronics/Hardware, Data/Analytics

Summary: We're combining over 50-years of domain experience and proprietary data technology to build the physical internet of the circular economy and the global marketplace for reusables-as-a-service. Our mission is to eliminate single-life packaging.

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SOLUTION NAME:

The Predictive Company

Country: Spain

Founded: 2019

Type: Service, Software/App, Data/Analytics

Summary: TPC offers a SaaS solution for energy optimization and predictive maintenance based on Artificial Intelligence. It can be implemented in any type of non-residential buildings leading to a reduction of costs and CO2 emissions of up to 30%

SOLUTION NAME:

This is Coover

Country: Italy

Founded: 2020

Type: Electronics/Hardware

Summary: This is Coover is an innovative frame made of aluminum and fabric with an activated carbon filter inside. This frame can be attached to an existing bus stop and can clean the air from the most common polluting particles.

SOLUTION NAME:

CrowdBuilding

Country: Netherlands

Founded: 2020

Type: Platform

Summary: CrowdBuilding brings together people around shared living dreams and facilitates bottom-up housing development through co-creation and co-development. Building housing together creates circular, inclusive and thriving neighborhoods and cities.

SOLUTION NAME:

Digital foundations for a structural transition to a circular economy in Real Estate

Country: Netherlands

Founded: IBM: January 2015, WiseBrick: October 2020

Type: Platform, Service, Software/App, Data/Analytics, Education/Training, Proces/

Summary: Solution: Web-based application for a scalable digitisation of buildings, generating actionable insights for building owners

Value prop: Structurally unlock residual value, decarbonize materials and reduce

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SOLUTION NAME:

THE UPCYCL

Country: Denmark

Founded: 2020

Type: Platform, Service

Summary: We enable businesses to turn their virgin waste material streams into good business opportunities and build sustainable partnerships across sectors. Our digital platform collects data on available waste resources, moved materials, and saved CO2.

SOLUTION NAME:

Social Regeneration through Technological Urban Agriculture

Country: Luxembourg

Founded: 2020

Type: Platform, Service, Software/App, Electronics/Hardware, Data/Analytics, Proces/

Summary: A circular food system producing healthy food locally, using a modern traceability system, scalable and replicable to reduce waste, increase resilience to climate change, expand employment opportunities and contribute to ecosystem health restoration.

SOLUTION NAME:

Print Your City

Country: Netherlands

Founded: 2017

Type: Platform, Service, Electronics/Hardware, Education/Training, Proces/

Summary: Print Your City transforms the city's plastic waste into street furniture with robotic 3D printing and citizens' involvement.

SOLUTION NAME:

Toronto Zero Waste Directory

Country: Canada

Founded: 2021

Type: Software/App

Summary: "Where can I find <insert item> zero waste?" is often asked by the 13,000+ members in the Zero Waste Toronto Facebook group. This directory is the first way to search by item, making it easier to shop in bulk or without single use plastic packaging.

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SOLUTION NAME:

GoodHood, a marketplace for connected, sustainable, inclusive, and resilient neighborhoods

Country: The Netherlands

Founded: 2020

Type: Software/App

Summary: GoodHood is an AI-powered marketplace for connected, sustainable, and inclusive neighborhoods. It is a call-to-action platform focusing on neighborhood resilience and enabling collaborative circular innovation among people, government and businesses.

SOLUTION NAME:

Monitor your circular economy

Country: The Netherlands

Founded: 2020

Type: Platform, Data/Analytics

Summary: geoFluxus has developed the world's first open-source platform which maps, analyses and predicts how materials move through cities. We show governments which materials, which areas and which companies to focus on to make the biggest impact.

SOLUTION NAME:

Consumer friendly demand flexibility aggregation with Virtual Battery technology

Country: Sweden

Founded: The founder's academic research at MIT went on 2015-2017.

Type: Software/App

Summary: Emulate is developing a cloud platform for signing up IOT enabled residential flexible demand and packaging it as simple energy storage instrument that seamlessly integrates into existing trading platforms.

SOLUTION NAME:

Muuse Reusable Marketplace

Country: Hong Kong

Founded: 2018

Type: Platform, Service, Software/App, Data/Analytics, Proces/Businessmodel

Summary: Muuse is a smart reuse platform supporting the food & beverage industry to reduce single-use waste from takeaway packaging. We aim to be the leading, customer-facing app supporting reusables for manufacturers, retailers and other reuse initiatives.

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SOLUTION NAME:

Full Circle - The app that closes the loop on your economy

Country: Canada
Founded: 2021
Type: Platform, Software/App, Data/Analytics, Education/Training
Summary: Full Circle is a collaboration space for SMEs to share their circular solutions and help solve each other's problems. By providing interested parties valuable data trends, we allow them to create targeted circular programs and funding opportunities.

SOLUTION NAME:

FreshFind

Country: Canada
Founded: 2020
Type: Platform, Software/App, Data/Analytics
Summary: Our mission is to help businesses and individuals connect and cooperate together more efficiently. Our software enables a more localized approach to commerce, thereby creating more thriving and circular local economies.

SOLUTION NAME:

Suppli

Country: Canada
Founded: 2020
Type: Service, Software/App
Summary: Serving takeout more sustainably from restaurants and food shops. Customers can enjoy takeout without waste, and restaurants can align with customers' values and truly be eco-friendly. Suppli is a proud contributor to the circular economy.

SOLUTION NAME:

#getpaidtoshower

Country: Canada
Founded: 2020
Type: Service, Software/App, Electronics/Hardware, Data/Analytics, Proces/
Summary: 753.plus is a retro fit smart electric hotwater tank heater and app. It heats residential hotwater tanks by cooling Application Specific Integrated Chips with a Heat Recovery Unit Distributed Data Centre (HRU DDC). Customers get paid to shower.

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SOLUTION NAME:

Obelisk Program

Country: Canada

Founded: 2016

Type: Platform, Service, Electronics/Hardware, Data/Analytics, Education/Training

Summary: Setup an interactive database for available waste products. In 3 stages bring all sectors in to use the site: residential, business and industry. Collect, measure, label, sell and create with these "excess products". Share methods with other cities.

SOLUTION NAME:

reuppt.com

Country: Netherlands

Founded: 2021

Type: Platform, Service, Software/App, Data/Analytics, Proces/Businessmodel

Summary: An easy way to repair consumer goods instead of throwing them away and buying new ones. Imagine taking a picture of your torn shoe. An hour later we pick it up. Two days later, we deliver your repaired shoe.

SOLUTION NAME:

pouch it. is the worlds' first 100% recyclable, reusable, CO2 neutral and trackable pouch packaging system

Country: Romania

Founded: In 2019, we sourced the raw material and developed, manufactured and tested the

Type: Platform, Service, Data/Analytics, Proces/Businessmodel

Summary: pouch it. is data driven, A to Z, zero waste packaging pouch system for household, personal & pet care refills. It is economical, uses fewer resources, produces less solid waste & lower emissions leading to healthy circular cities.

SOLUTION NAME:

CityFarm: climate-friendly, sustainable food production for urban centers

Country: Germany

Founded: 2013.

Type: Platform, Service, Software/App, Electronics/Hardware, Data/Analytics, Proces/

Summary: Infarm is creating an innovative, sustainable, and self-sufficient urban food production system by growing a cloud-connected vertical farming network inside the city - to bring healthy, safe, and tasty crops to all citizens.

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SOLUTION NAME:

Mercedes-Benz Road Safety Dashboard

Country: Germany

Founded: 2018

Type: Platform, Service, Software/App, Data/Analytics

Summary: The Road Safety product catalyzes cities' Vision Zero & Circularity goals by empowering them to identify high-risk road safety hotspots and then target them for improvements without the use of additional city resources.

SOLUTION NAME:

Save water, improve health and support local business via sensors in bathrooms

Country: Denmark

Founded: 2017

Type: Electronics/Hardware, Data/Analytics

Summary: Reduces water demand through data-driven behavioural change with unique sensors to make bathrooms intelligent

SOLUTION NAME:

City to Car Notifications for Mercedes-Benz Vehicles

Country: Germany

Founded: 2020

Type: Platform, Service, Data/Analytics, Proces/Businessmodel

Summary: We enable our cars to receive contextual notifications from 3rd parties (e.g. cities, public transport organizations etc.) directly on the headunit screen in order to inform, notify or interact with the driver. This can be used in a multitude of ways

SOLUTION NAME:

CAUSE – The Citizen Community

Country: Germany

Founded: 2021

Type: Platform, Data/Analytics, Other

Summary: We want to enable the citizen to actively shape the cities environment. Therefore we want to offer a collaborative Platform. This makes it possible to connect with Experts, mobility enthusiasts, academia and the usual participating citizens.

CIRCULAR INNOVATION CITY CHALLENGE

SUBMISSION OVERVIEW 2021

SOLUTION NAME:

WeRcircular

Country: Canada
Founded: 2021
Type: Platform, Service, Data/Analytics, Education/Training, Proces/Businessmodel
Summary: A cooperative social enterprise connecting public and business through a Masterbrand message of circular economy benefits. A robust database supports data analytics of the public's reaction to messaging and B2B innovation and resource networking.

SOLUTION NAME:

Janars platform for building online facilitation tools

Country: Canada
Founded: 2019/2020
Type: Platform, Service, Software/App
Summary: Facilitation Tools flow & present data across series of activities. Flows e.g. ideas to insights - frame decisions - build agreements. Methods e.g. interest-based negotiation + Techniques e.g. brainwriting, group, label, theme, vote, rank, score

SOLUTION NAME:

C5 Innovation Aps-concrete additives that reduce CO2 emissions 30%

Country: Danmark
Founded: 2019
Type: Other
Summary: C5 Innovation is a concrete additive company that has two products, (CAM I10, SA CAM I10) that reduce the cost of concrete, and its CO2 footprint. They also extend the lifetime of existing concrete. A benefit to cities looking to reduce CO2 emissions

SOLUTION NAME:

CIRCLUB APP, ENABLING CIRCULAR PACKAGING, 'PRODUCT-AS-A-SERVICE'

Country: Colombia
Founded: 2020
Type: Software/App
Summary: Disposables in takeaway food service and food courts is growing exponentially. CIRCLUB is both a full-solution reusable container system, and a licensable technology platform that could power other returnable container schemes in cities worldwide.

CIRCULAR INNOVATION CITY CHALLENGE

SUBMISSION OVERVIEW 2021

SOLUTION NAME:

Creating Thriving Cities with the FigBytes Platform

Country: Canada
Founded: 2017
Type: Platform, Service
Summary: By aggregating and visualizing relevant data on product and material flows, FigBytes provides city agencies and departments, local businesses and the public create a positive impact locally and lower the carbon footprint of cities globally.

SOLUTION NAME:

VISUAL IMPACT MONITORING DASHBOARD ON: PEOPLE, PLANET & PROFIT

Country: Netherlands
Founded: 2020
Type: Service, Data/Analytics, Proces/Businessmodel
Summary: Breaking down the complexity of circularity by using numbers, correlations, and easy-to-understand visuals. We make it possible that even kids and decision-makers could have a conversation about improving the city.

SOLUTION NAME:

RE-X, Creating Remanufacturing Opportunities in Glasgow

Country: United Kingdom, India.
Founded: 2021
Type: Platform, Service, Software/App, Data/Analytics
Summary: The focus of RE-X digital solution is to increase the efficiency of remanufacturing operations relevant to Glasgow through data analysis of end of life product flow, cost benefit analysis and recommending best route for repair or remanufacturing.

SOLUTION NAME:

USEFULL

Country: USA
Founded: 2018
Type: Software/App, Data/Analytics, Proces/Businessmodel
Summary: USEFULL is a tech-enabled circular solution that replaces plastic products to change the culture of consumption. Our partners rent consumers our returnable, stainless steel inventory, which is tracked via a proprietary backend platform and mobile app

CIRCULAR INNOVATION CITY CHALLENGE

SUBMISSION OVERVIEW 2021

SOLUTION NAME:

The Supply Chain Sustainability School

Country: United Kingdom

Founded: 2012

Type: Platform, Data/Analytics, Education/Training

Summary: The 'School' is a data-driven learning platform that supports the development of an effective local supply chain for sustainable cities. It is designed to engage, assess, train, and monitor suppliers across the built environment.

SOLUTION NAME:

Estimating the Perishable Field Vegetables' Supply: Computer vision Approach on Satellite Imagery

Country: Canada

Founded: 2021

Type: Software/App

Summary: Uncertainty is a major challenge for field vegetable producers. We use computer vision and machine learning to evaluate the area under harvest before the harvesting season and to estimate the expected vegetable production amount to the farmers.

SOLUTION NAME:

New Grocery Movement (NGM)

Country: Canada

Founded: November 2020

Type: Platform, Service, Software/App, Education/Training, Proces/Businessmodel

Summary: We are combining the concepts of social justice and circular economy to apply solutions to the problems that abound from grocery stores by incentivizing a shift towards local, sustainable grocery alternatives and ensuring accessibility for everyone.

SOLUTION NAME:

Moving Towards Zero

Country: Spain

Founded: 2020

Type: Platform, Service, Software/App, Data/Analytics

Summary: Promotion of Zero Waste and local commerce through gamification

CIRCULAR INNOVATION CITY CHALLENGE

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SOLUTION NAME:

ECOLOO: The Sustainable Toilet Revolution for indoor and outdoor applications

Country: Sweden
Founded: 2008
Type: Other
Summary: Our sustainable toilet branded as ECOLOO for both indoor and outdoor applications is an award winning and patented biological treatment toilet solution that is odour free, sewage free, energy free & maintenance free. By-product is organic fertilizer

SOLUTION NAME:

ThingShare

Country: Canada
Founded: 2021
Type: Platform, Software/App
Summary: ThingShare helps neighbours lend each other useful things they may have lying around - from ladders to juicers to jigsaw puzzles. We're helping people buy less stuff, make the most of their resources, and forge new connections with their neighbours.

SOLUTION NAME:

Less municipal waste with Smart Reusable packaging

Country: Czech Republic
Founded: 2015
Type: Platform, Service, Software/App, Electronics/Hardware, Data/Analytics, Proces/
Summary: MIWA provides and operates an ecosystem for smart reusable packaging for foods and non-foods. The B2B & B2C packaging rotates in traceable loops and brings data benefits for stakeholders involved while preventing waste across the entire supply chain.

SOLUTION NAME:

Graitor - Trash to Treats

Country: Danmark
Founded: Initiated in 2020 and registret in 2021
Type: Software/App
Summary: Graitor is a new digital reward system that gives points every time you recycle trash. In Graitor we create what we call Circular Responsibility, getting businesses to offer rewards for the sustainable acts consumers do, all in one platform.

CIRCULAR INNOVATION CITY CHALLENGE

SUBMISSION OVERVIEW 2021

SOLUTION NAME:

Kinetic Momentum and Other Adventures...

Country: -
Founded: Not yet
Type: Platform, Service, Education/Training
Summary: - Off-grid areas of the cities and shared energy ;
- Multitask urban structures and (Swiss Knife Development Model) ;

SOLUTION NAME:

FRIECO-circular economy on a local scale

Country: Italy
Founded: 2018
Type: Service, Electronics/Hardware, Data/Analytics, Proces/Businessmodel
Summary: Frieco intends to implement a "Circular Economy on a local scale" starting from the concept of volume reduction at the source, continuing with a pickup service, to then send the shredded material for recycling through property local HUBs.

SOLUTION NAME:

The Pirate App

Country: The Netherlands
Founded: 2018
Type: Platform
Summary: The Pirate App is a digital storytelling platform. The app is promoting inclusion by fostering a green culture. Users trade stories with unused objects. Objects become tokens that can circulate between users acquiring stories.

SOLUTION NAME:

Borg Energy

Country: UK
Founded: 2020
Type: Platform, Service, Software/App
Summary: Borg Energy is an energy optimisation platform employing distributed systems' principles to manage the flow of energy in microgrids. The decentralised topology is an efficient way to deal with communication failures, making the system more robust.

CIRCULAR INNOVATION CITY CHALLENGE

SUBMISSION OVERVIEW 2021

SOLUTION NAME:

kleen hub

Country: Denmark

Founded: 2020

Type: Platform, Service, Software/App

Summary: At kleen hub, we are working towards a world with no single-use packaging. We aim to disrupt the current status quo of packaging and create a system that can be scaled in cities in and outside of Denmark in the form of a packaging-as-a-service model

SOLUTION NAME:

WeSolve For Circular Economy

Country: Denmark

Founded: 2019

Type: Software/App

Summary: WeSolve: the perfect app to create more resilient communities and promote a circular economy model based on reusing, repairing, and sharing.

SOLUTION NAME:

Wasteless – Fighting Waste With AI

Country: Denmark

Founded: Late 2019

Type: Platform, Software/App, Data/Analytics

Summary: We focus on providing clarity to a hard-to-measure area of the waste/resource value chain: between purchase and disposal (citizens). Using an intuitive app with AI-capabilities for real-time detection and classification, we collect valuable data.

SOLUTION NAME:

How Beer and Bread make citizens hungry for Circular Economy Solutions

Country: Canada

Founded: 2018

Type: Platform, Service, Data/Analytics, Education/Training, Proces/Businessmodel

Summary: To divert food by-products that are typically discarded to feed people instead. Our repeatable solutions will address food insecurity, climate change, and create jobs by introducing citizens to the benefits of a circular economy at every meal.

CIRCULAR INNOVATION CITY CHALLENGE

SUBMISSION OVERVIEW 2021

SOLUTION NAME:

ShareWares

Country: Canada
Founded: 2020
Type: Platform, Service, Software/App, Electronics/Hardware, Data/Analytics, Education/
Summary: ShareWares' mission is to end the world's single-use waste crisis by building an advanced centralized washing facility for reusable packaging, as well as an innovative technology to empower circular cities to implement a new community utility.

SOLUTION NAME:

Ciclr

Country: Canada
Founded: 2020
Type: Service, Proces/Businessmodel
Summary: Ciclr makes it easy for fast-moving consumer goods brands to reuse packaging. We collect packaging from our collection sites, sort it, wash it at under-utilized washing facilities, and redistribute it back to manufacturers to reuse.

SOLUTION NAME:

A world without waste

Country: Canada
Founded: January 2019
Type: Platform, Service, Software/App, Electronics/Hardware, Data/Analytics, Education/
Summary: Love takeout but hate waste? Inwit is Toronto's first zero-waste ordering platform that allows you to takeout with beautiful & insulated reusable containers, earn rewards for your positive environmental impact, and be part of a community

SOLUTION NAME:

Making Reuse a Reality

Country: United States
Founded: 2015
Type: Platform, Service, Software/App, Electronics/Hardware, Data/Analytics, Education/
Summary: MULTISTAKEHOLDER ENGAGEMENT TO DEVELOP THE BLUEPRINT NECESSARY FOR REUSE TO SUCCEED AT SCALE

CIRCULAR INNOVATION CITY CHALLENGE

SUBMISSION OVERVIEW 2021

SOLUTION NAME:

TAGpods

Country: Canada
Founded: 2018
Type: Platform, Service, Software/App, Electronics/Hardware, Data/Analytics, Proces/
Summary: The technology based solution consists of hardware, software and circular business cycle model that is easily integrated into the bulk grocery retail supply chain. The system makes zero waste shopping, selling and distributing easy, fast and safe.

SOLUTION NAME:

League for Green Leaders

Country: Canada
Founded: Toronto, Canada
Type: Platform, Software/App, Data/Analytics, Education/Training
Summary: We drive behavioral changes in children with empowering, playful and action-based online competitions for the smallest eco-footprint. We provide a data-driven platform for communities to gamify, measure and inspire GHG reductions from residents.

SOLUTION NAME:

Adaptis: Circular Engineering for the Built Environment

Country: Canada
Founded: 2019
Type: Platform, Service, Software/App, Data/Analytics
Summary: Adaptis provides technology-enabled solutions for data-driven circular engineering of the built environment. Through integrated tools, Adaptis optimizes circular strategy adoption in construction projects and business processes.

SOLUTION NAME:

gogaat

Country: Canada
Founded: year 2020
Type: Platform, Service, Software/App
Summary: in major cities population is affected much during pandemic and lockdown . The living style has been affected . An idea to design an online portal named gogaat.com to provide them cleaning their heavy garments by picking cleaning and delivering back.

CIRCULAR INNOVATION CITY CHALLENGE

SUBMISSION OVERVIEW 2021

SOLUTION NAME:

RBUY Smart Refill

Country: India

Founded: 2019

Type: Platform, Service, Software/App, Electronics/Hardware, Data/Analytics

Summary: Our focus is to establish "single-use plastic free" end to end supply chain to refill home care products like detergent, dishwash, etc. from manufacturer to end user.

Cost savings, satisfaction of protecting environment, improved brand visibility.

SOLUTION NAME:

InfinitiX

Country: Netherlands

Founded: 2018

Type: Platform, Service, Software/App, Data/Analytics, Education/Training, Proces/

Summary: a holistic and comprehensive approach that prepares us to mitigate future risks and creates added value - match our inspiring and critically needed capacities and expertise across planet in a digital environment with help of AI

SOLUTION NAME:

A Zero Waste App - Making Zero Waste choices easy for the individual and businesses!

Country: Amsterdam, Netherlands

Founded: 2020

Type: Platform, Service, Software/App

Summary: We map and make the existing Zero-Waste network in Amsterdam visible for individuals and businesses. Thus, bridging the gap between the people, local businesses, and the circular-economy initiatives in the city.

SOLUTION NAME:

Concular - Resource-efficient construction

Country: Germany

Founded: 2020

Type: Data/Analytics, Platform, Software/App

Summary: Concular is a digital ecosystem to recirculate materials from demolition into new construction projects. This Circular Economy approach has the potential to save up to 20% of global CO2 emissions.

CIRCULAR INNOVATION CITY CHALLENGE

SUBMISSION OVERVIEW 2021

SOLUTION NAME:

GreenPlat

Country: Brazil

Founded: 2016

Type: Data/Analytics, Platform, Service, Software/App

Summary: We are an ESG Blockchain-based architecture SaaS that manages environmental indicators and the entire supply chain, companies' waste and final destination from the beginning, bringing process control, transparency, traceability and sustainability.

SOLUTION NAME:

Reusable Shipping and Delivery Packaging

Country: USA

Founded: 2016

Type: Proces/Businessmodel

Summary: For brands and retailers who are under public and economic pressure to switch to more sustainable packaging, Returnity custom-designs and manufactures reusable shipping bags and boxes - and the logistics systems to support them.

SOLUTION NAME:

Face Masks Recycling: Design of a Face Mask Disposal Process

Country: Italy

Founded: 2021

Type: Proces/Businessmodel

Summary: Alternative process to dispose the face masks and to produce valuable product from them. Try to create a process with a short POT (up to 3 years and targeted at 1.5) and 80% recovery yield.

SOLUTION NAME:

Dunya Habitats

Country: Canada

Founded: 2016

Type: Data/Analytics, Education/Training, Electronics/Hardware, Platform, Proces/

Summary: Dunya Habitats is a responsible, mission-based agritech startup based in Canada providing a climate-controlled hydroponic farming technology for urban and rural communities to grow fresh nutritious produce 365 days a year in any climate conditions.

CIRCULAR INNOVATION CITY CHALLENGE

SUBMISSION OVERVIEW 2021

SOLUTION NAME:

Siradel's Smart Digital Twin Platform

Country: France

Founded: 2016

Type: Data/Analytics, Platform, Service

Summary: Our solutions are focused on making cities more sustainable & livable for citizens, by building a holistic digital platform with innovative and data-driven services, but also anticipate and assess future scenarios thanks to our simulation tools.

SOLUTION NAME:

Blue Lobster

Country: Denmark

Founded: 2018

Type: Platform

Summary: Our digital platform connect sustainable fishermen directly with local consumers. By cutting out many middlemen fishermen can get a fairer wage, customers get fresher produce, and we can guarantee traceability of all seafood.

SOLUTION NAME:

Building Plan B ride-hailing services for cyclists

Country: UK

Founded: 2012

Type: Data/Analytics, Proces/Businessmodel

Summary: Building integrated, reliable, on-demand Plan B ride-hailing services for cyclists – partnering towards sustainable urban mobility solutions.