

Over the past 15 years, **Moka Smart City** has dedicated significant human and financial resources to establish, at all levels, a more environmentally conscious and sustainable way of living. The urban development plan of Moka is based on four pillars: improving the quality of life of residents, creating economic opportunities, encouraging citizen engagement, and sustainable urbanism. The latter is addressed through six areas: urban planning, mobility, energy, water, waste management and circular economy. Principles of circular economy are thus embedded in various projects we have implemented and fully integrated in our development strategy.

Below is a series of initiatives depicted and briefly described by indicating date of implementation, location, and outcomes.

Moloks

In October 2020, bins were installed in four key areas of the city to promote waste sorting and recycling. These areas include the Shell gas station in Telfair, the entrance of Vivéa Business Park, Synergy in Helvétia, and the residential area of Courchamps. Recently, another set of bins was added in L'Avenir. These voluntary drop-off points have color-coded bins for

paper/cardboard, glass, and plastic/aluminum. Additionally, a bin for non-recyclable waste is also available on-site to prevent contamination. Each site has a sign and explanatory stickers for user guidance. The Moloks have a large volume and are 60% buried, increasing compaction, saving space, and limiting odors. They also have IoT sensors that communicate fill rates to optimize collection planning which reduces costs and greenhouse gases emissions. This real time data will soon be available on the city's website for user convenience.



Sorting at source - Residential

Moka Smart City has committed to providing collection solutions for sorted waste in residential areas. It has also been providing the dedicated bins in each multi-family housing project, as follows:

- **3 bin categories:** organic waste, recyclable waste, general waste.
- **Sorting guides** distributed to residents and posted in bin areas.

Sensitization campaigns are also frequently organized and a Bottle Recycling challenge where winners were rewarded allowed us to monitor the citizens' engagement.



Public sorting bins

Moka Smart City has installed 100 bins in strategic locations across the city namely bus stops, public recreational areas among others. The two available categories are general waste and recyclable waste. A private service provider has been appointed for the collection and maintenance.



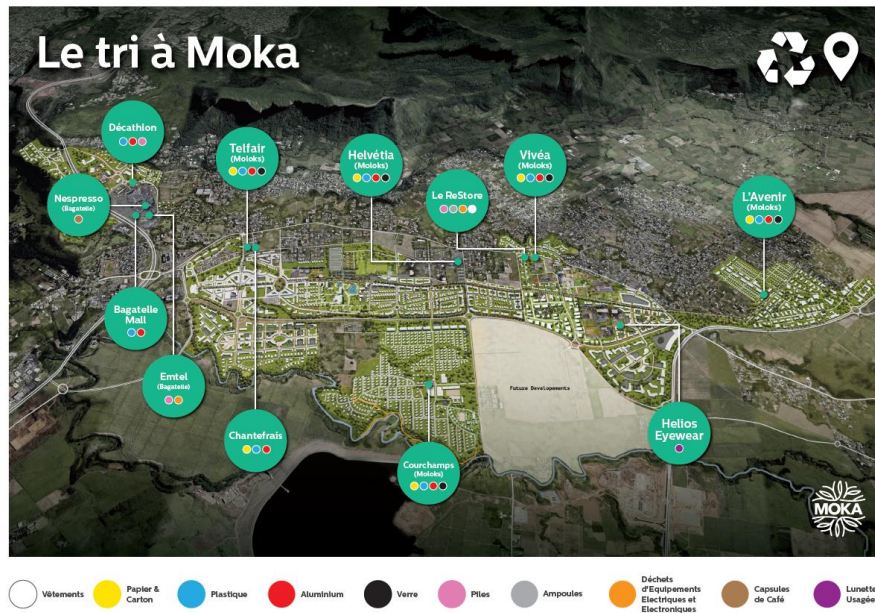
Additional recyclables drop off points

Moka Smart City identified the categories of waste that could not be recycled/dropped off in the region and decided to bridge the gap by partnering with new recycling companies.



Moka - Recyclables drop off points map

We identified the lack of information as a barrier to adoption of sorting and recycling of waste. To address this issue, we created a map indicating all the recyclables drop off points in Moka and its surroundings. Moka Smart City also wishes to show its support to the other private companies mentioned on the map by highlighting their efforts.



<https://www.moka.mu/en/the-ultimate-waste-recycling-map-in-moka/>

Le ReStore

Circular economy is not only about recycling but entails upcycling, reuse, and repair. Moka Smart City thus decided to partner up with ENL Foundation and The Good Shop to ensure these aspects of circular economy are also addressed in the region. By launching its first hub supporting local sourcing and handcraft, repair stations, upcycling of textile and wood among other activities.



le ReStore

Moka Corner

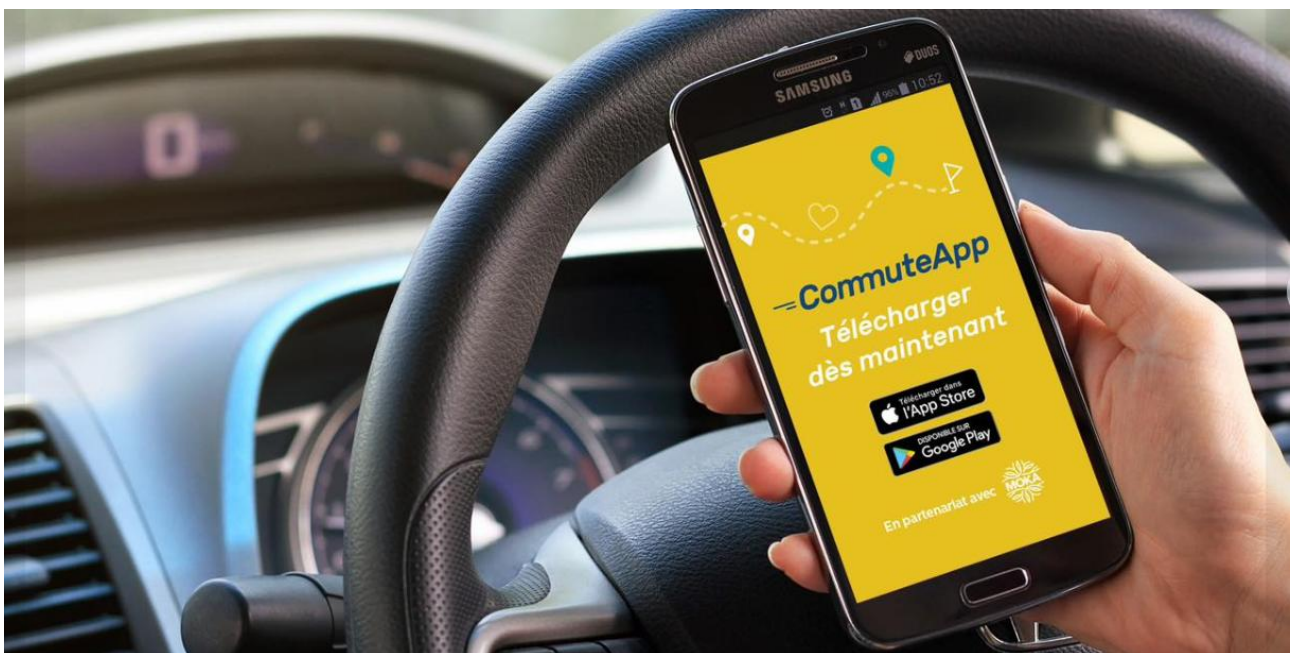
The first regional shop of Mauritius launched at Le ReStore with 3 distinct goals:

1. Facilitating a more sustainable lifestyle by proposing eco-friendly products.
2. Proposing additional waste drop off points for new recyclable materials.
3. Selling Made in Moka products, exclusively made from waste. Our compost from the city's organic waste, Helios sunglasses produced from the plastic collected in our Moloks are two examples.



Commute App – Ride Sharing

Promoting carpooling is a priority for the smart city in order to allow people to move green and to help relieve traffic congestion. Moka Smart City has commissioned a Danish company to develop a dedicated and adapted interface of its mobile app for Mauritius. It allows users to find or offer rides from their smartphone in a few clicks. This app is free of charge, available across Mauritius and Rodrigues, provides an optimal user experience, is present on five continents including Africa, and has an integrated messaging module allowing easy communication between each trip's participants. Since paying for trips is illegal in Mauritius, this app proposes an innovative incentive to its users who earn "carbon credits" for their shared trips, which can be exchanged (using the app itself) to get discounts in local partner stores – with a list that will grow over time.



Links

<https://www.facebook.com/commutemauritius>

<https://www.commuteapp.dk/en/moka>

<https://www.moka.mu/en/experience-moka/services/carpooling-with-commute/>

Eco Talk – Circular Economy

Over and above the wide range of sustainable projects implemented by Moka Smart City, a talk was organized on this topic with local entrepreneurs, professionals, and citizens to reflect on the progress made over the years and the opportunities to integrate circular economy principles in the local context.

February 11, 2023

From 10 a.m. to noon
Le ReStore,
Vivea Business Park

ECO TALK

TOPIC
CIRCULAR
ECONOMY ∞

