



**Revolve ReCYCLING has the following key capability areas:**

### **Household collection and recovery of PTVs**

Using our specifically designed and re-manufactured 'Bike Beast', we run free weekly collections of unwanted PTVs from households across the Sydney metropolitan region. Householders book collections via our website. All emissions from transport are offset.

### **Recycling and redeployment of PTVs**

We triage all recovered PTVs from a quality and safety standpoint. Approximately 20% of incoming PTVs are suitable for redeployment and 80% are sent to material recyclers with steel, aluminium and rubber being the primary materials. We are becoming accredited to recover, store and ship batteries from e-bikes (expected to be 75% of total Australian PTV sales in 10 years) for recycling.

### **Redeployed bike sales**

We sell redeployed bicycles to the public. Our stock is: from high-quality brands; priced to be affordable and competitive with bicycles from major retailers; reconditioned for durability and safety by expert mechanics, and; warranted for six months.

### **Employment and training for disadvantaged people**

Wherever possible, we hire people from socially or physically disadvantaged backgrounds, including elderly workers and refugees. Such folks have worked for us as drivers, route planners, disassemblers, mechanics and general hands.

### **'Bike Equity' initiatives**

'Bike Equity' is the idea that bicycles and PTVs can promote greater fairness, opportunity and sustainability. We primarily contribute to 'Bike Equity' by giving free bikes and scooters to kids who need them. This has recently included Ukrainian refugees and Indigenous kids. We are the official bike suppliers to AusCycling's trial 'bike bank program' with the Maitland BMX Club for disadvantaged kids in the Maitland region, and to Tribal Warrior's Clean Slate Without Prejudice youth mentoring program in Redfern.

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### **Resource recovery for PTV fleet operators**

Share bikes and other share PTVs are part of the mobility revolution and have huge environmental benefits compared to automobiles. However, their end-of-life impacts need to be mitigated. We are working with Sydney-based fleet operators to recovery, recycle and innovatively redeploy rides at the end of their 'first' life. This includes componentry such as digital locks and power packs/batteries.

### **Resource recovery for Councils and facilities with unwanted PTVs**

We provide a recovery, recycling and redeployment services to site managers / organisations with a mass of unwanted, unused, and/or abandoned types of bicycles. We collect such bikes from Councils, universities, public sector asset managers, strata managers and others.

### **Resource recovery for bike shops**

Bike shops (of which there are approximately 100 in the Sydney metropolitan region) generate waste including cardboard, paper, plastics, batteries, oils, and metals. With our partners at Bingo, we are currently trialling an integrated recycling and waste minimisation service and education program that is specifically designed for the realities of bike shops.

### **PTV resource recovery events at schools and community organisations**

We provide 'Bring Back Your Bikes' days to schools and community organisations. This allows students, families and community members to donate their old rides, as well as receive free bike services and education about bike servicing/maintenance.

### **'Loop' bikes for sale**

A current initiative of Revolve ReCYCLING is to redeploy new but excess-to-requirement bicycles of a major share fleet operator in Sydney. These 300 bikes, which would have gone to landfill or scrap, are being re-made and re-branded to suit riders, including university students, seeking very affordable, sturdy, safe bicycles for urban commuting.

### **Bike education and workshops**

As part of our commitment to durability, we provide education and workshops about bicycle servicing in a variety of settings including for Councils, workplaces, and schools.

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## **Bike servicing and maintenance**

From our Wheelshop in Alexandria, we provide a range of bicycle servicing and maintenance arrangements. This includes: Repair Café, where riders work on their own bicycles; servicing of individual riders' bicycles; sale of harvested spare parts, and; sale of 'project bikes' for DIY bike enthusiasts.

## **Bike Art**

Through our artist-in-residence, Jack, we take old bikes and parts and make them into sculpture and hangings. We are looking for other artists to collaborate with including jewellers.

## **Circularity initiatives**

While its very early days, we are currently starting with partners to look at the possibilities of:

- recycling material from used bicycle helmets (which are not permissible for re-use) and from water bottles;
- incorporating and upcycling recovered rubber and plastics into bicycle frames and parts;
- incorporating recovered rubber and plastics into road-type materials including for cycleways;
- calculating the holistic environmental benefits of redeployed bicycle reuse versus reuse of a new bicycle;
- investigating the negative impacts of poorly-designed, poorly-manufactured and fully-imported bicycles and e-bikes.

## **Advocacy**

In concert with stakeholders, we advocate for public policy and investment for:

- Safe, convenient and smart infrastructure for cycling and PTV use in Sydney;
- Repair and reuse;
- Bike equity including a free bike for every kid in NSW who needs one, and;
- Product stewardship provisions for bicycles and other PTVs, particularly as the mobility revolutions sees 75% of rides go to battery power in the next decade

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