

# **Active Transportation Road Users and Micromobility Road Users are at risk from motor vehicles**

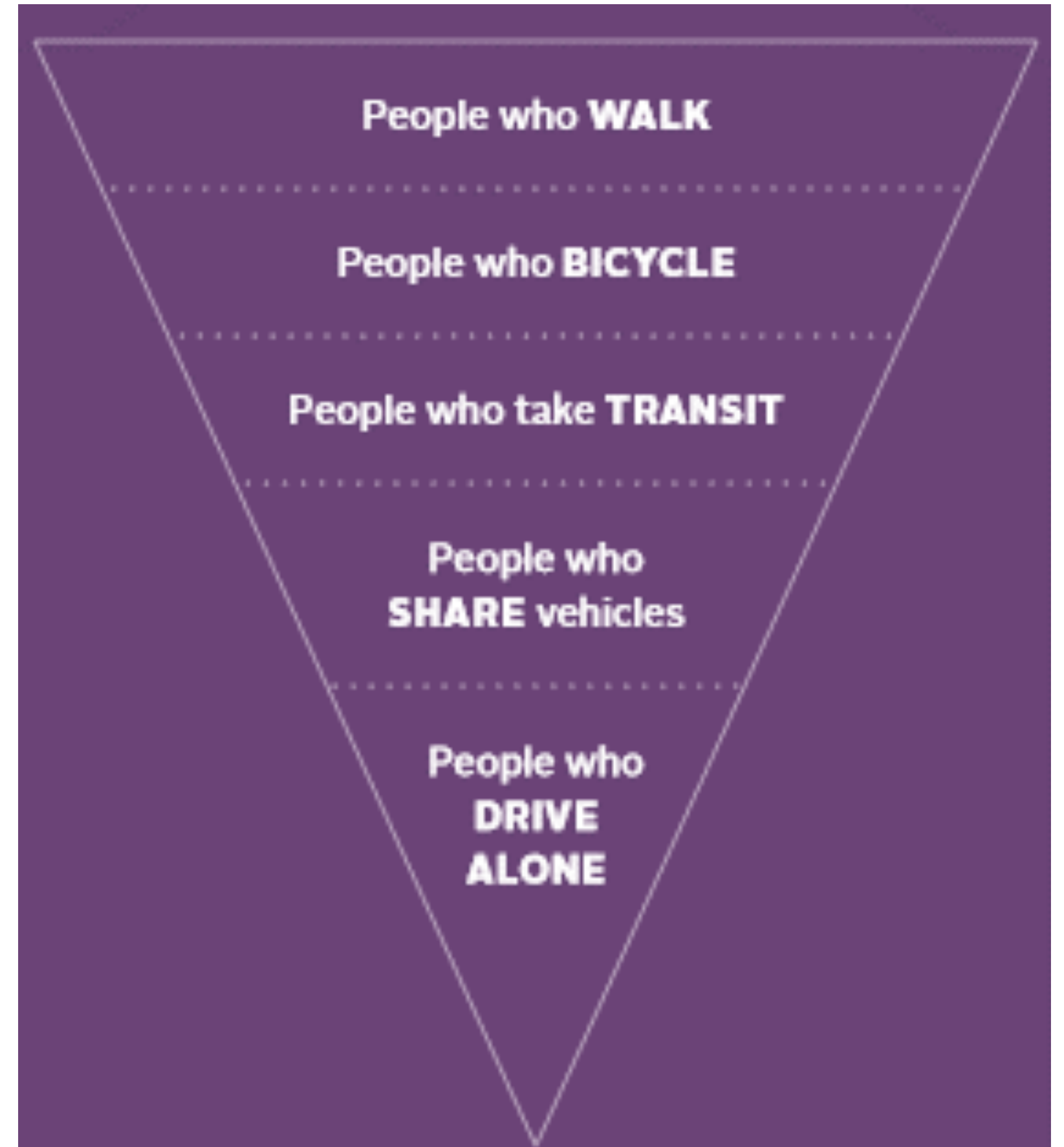
# Here's how Halifax considers our public pavement users

## Halifax Complete Streets Guidelines Update

Prepared for  
Halifax Accessibility Advisory Committee  
February 22 2021

**“Complete Streets  
•A complete street serves the needs of the people that use it in a way that’s appropriate for where it is”**

## Complete Streets Hierarchy



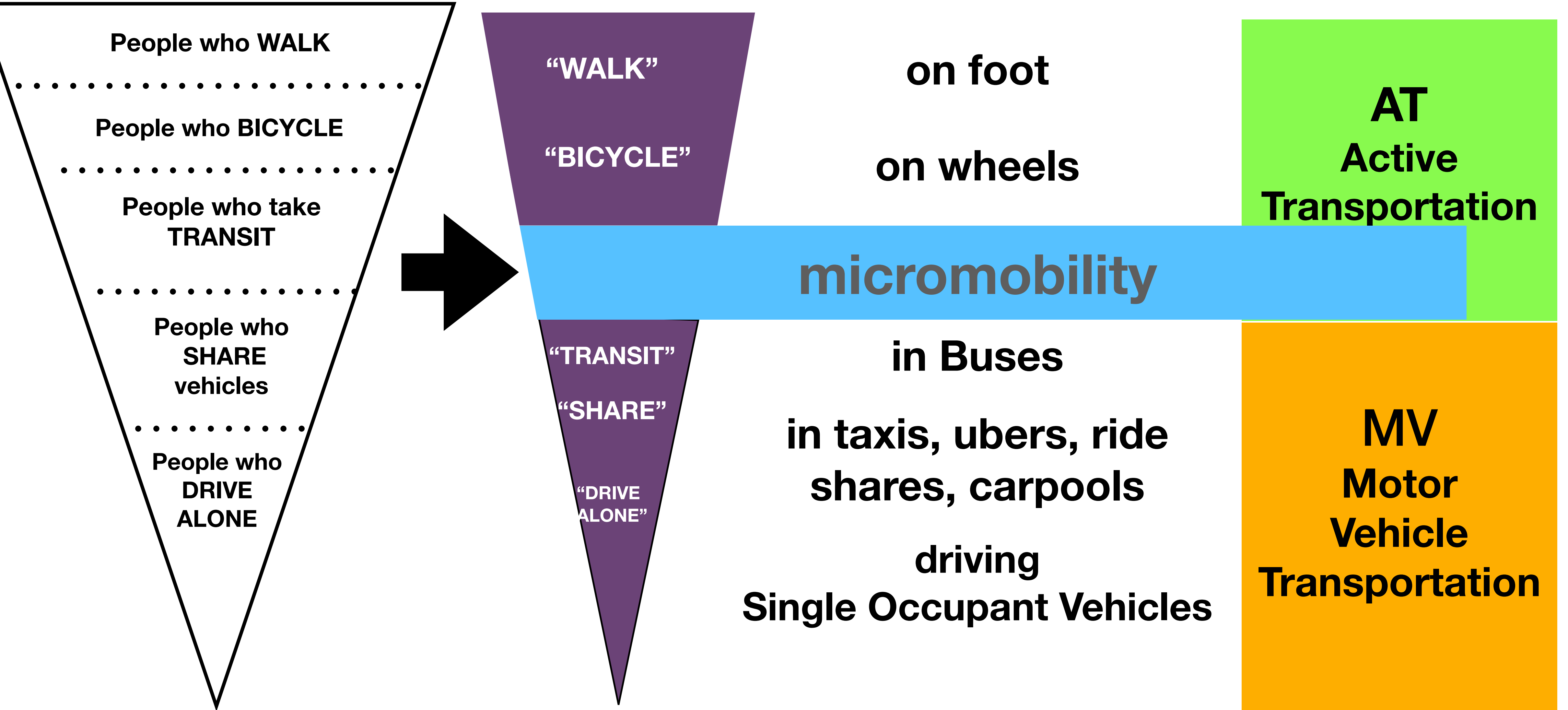
**Micromobility is here**

**It's a growing mobility choice**

**of Haligonians**

# our actual public pavement users include micromobility users

## “Complete” Streets Hierarchy

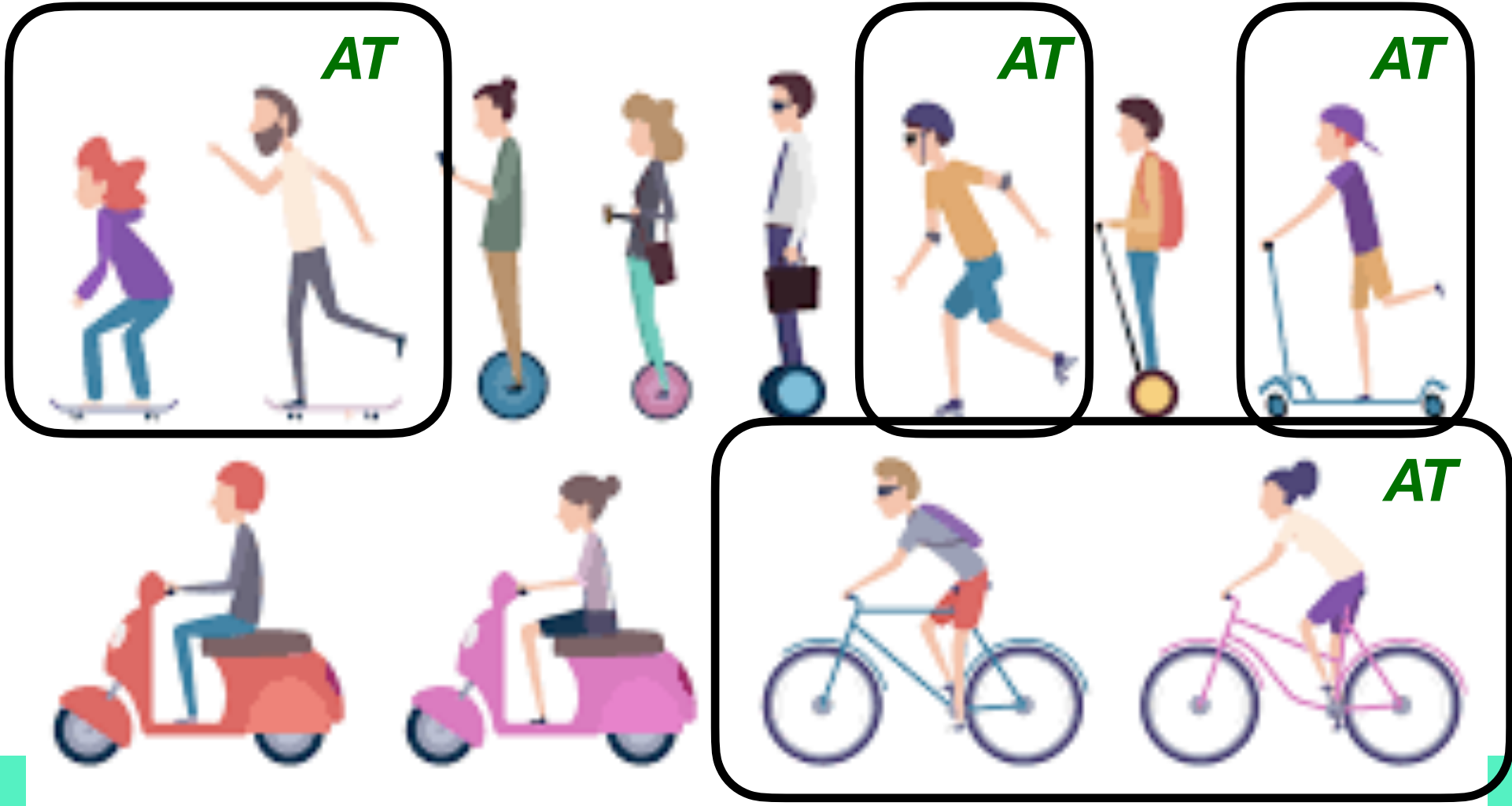




# Active Transportation & micromobility vehicles - a gallery



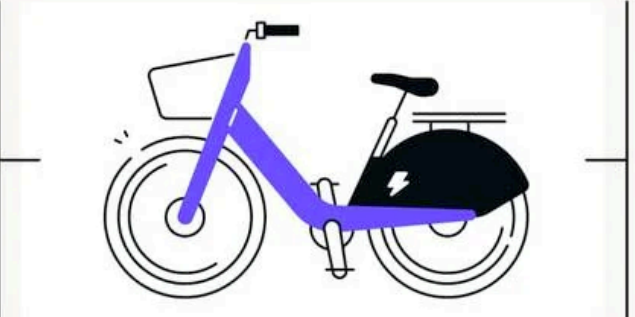
*AT vehicles*



## Popular types of micromobility



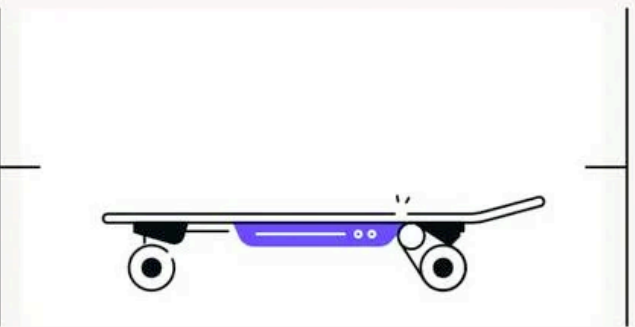
Bicycles



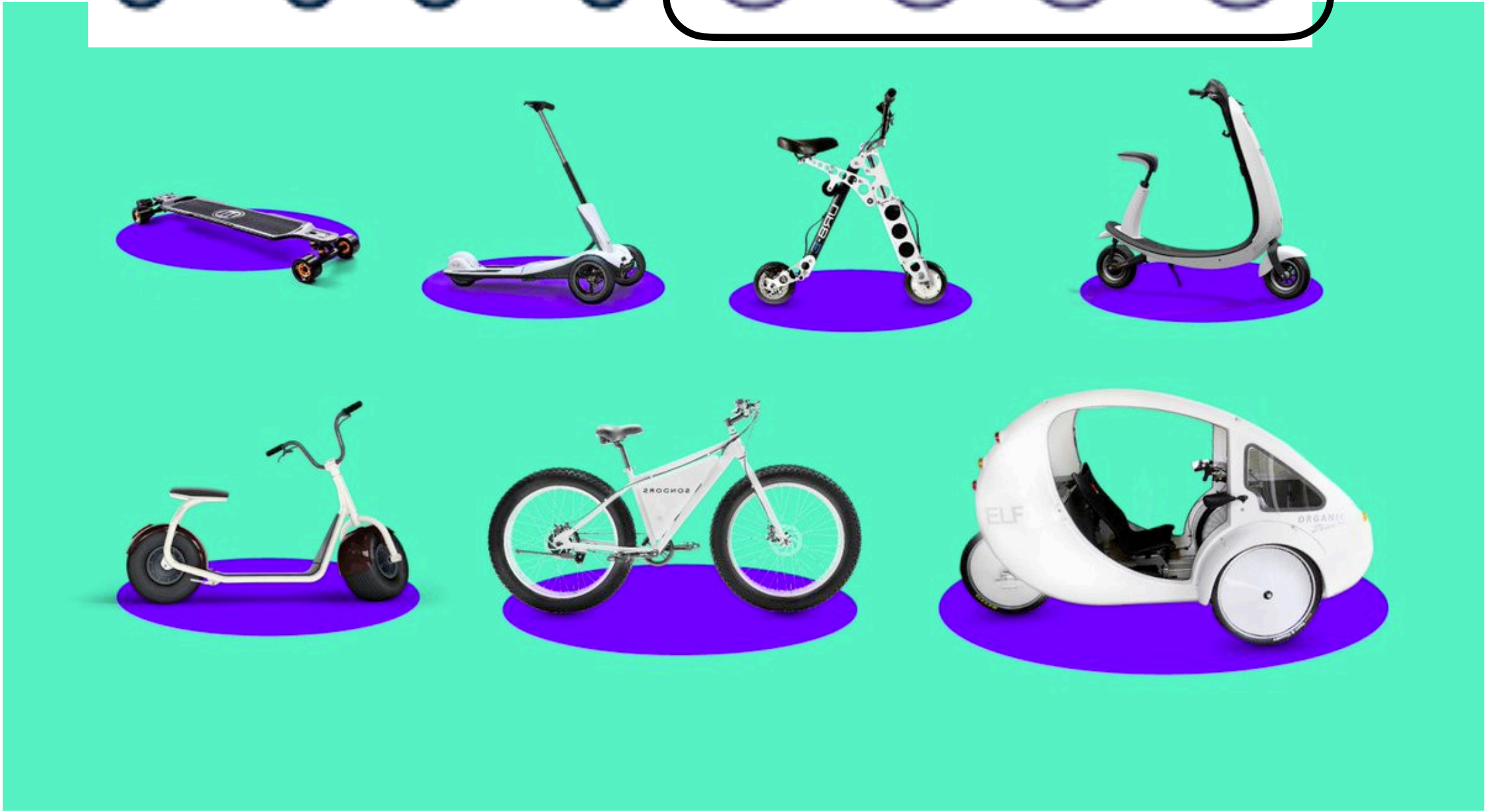
E-bikes



E-scooters



E-skateboards





# micromobility vehicles



# Spotted in the wild in Halifax

description: \n WHERE?	<u>crosswalks</u>	<u>on streets</u>	<u>sidewalks</u>	<u>painted bike lanes</u>	<u>protected bike lanes</u>	<u>multi-use trails</u>
<i><b>AT human power</b></i>						
<b>adult pedestrian</b>						
<b>younger pedestrian</b>						
<b>pedestrian + wheels</b>						
<b>manual wheelchair</b>						
<b>roller blades</b>						
<b>on skateboard</b>						
<b>on bicycle</b>						
<b>on kick scooter</b>						
<b>on cargo bike, rickshaw</b>						
<i><b>Micromobility</b></i>						
<b>e-Scooter</b>						
<b>e-skateboard</b>						
<b>Segway</b>						
<b>e-Bike</b>						
<b>CWA Trishaw</b>						
<b>Power wheelchair</b>						
<b>Mobility Scooter</b>						



## **Characteristics**

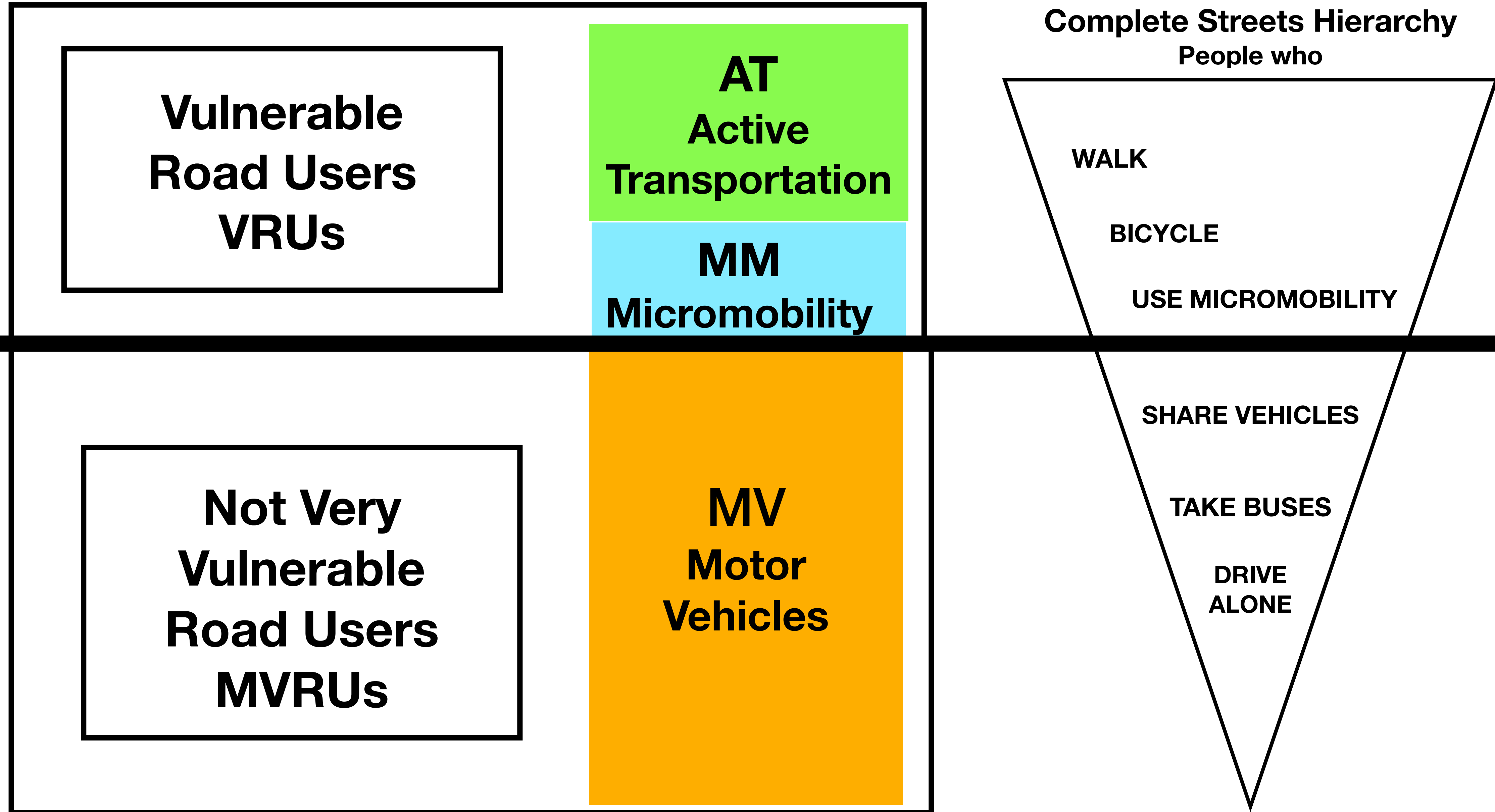
- **battery-electric motors**
- **low mass**
- **small pavement-print**
- **low speed**
- **offer low user protection**
- **low cost**
- **no licensing or registration**

## **Vehicles**

- **e-Bikes:** personal, rickshaws,  
cargo bikes
- **Segways**
- **e-Scooters**
- **e-Skateboards**
- **power wheelchairs**
- **mobility scooters**



# Who gets injured or killed? 2 categories



# In crashes physics rules

**Momentum matters**

 **a cyclist,**

 **a motor vehicle**

**200:1**

# Vulnerable Road Users

vs

# Motor Vehicle Road Users.....

**Vulnerable Road Users  
may be**

- **untrained people**
- **toddlers**
- **centenarians**
- **deaf or blind,**
- **illiterate,**
- **non-English speakers**
- **Olympic athletes**
- **distracted**
- 

**bicycles, eScooters,  
people, ... VRUs  
are NOT engineered for  
crash-worthiness.**

**Legal MV Road Users are**

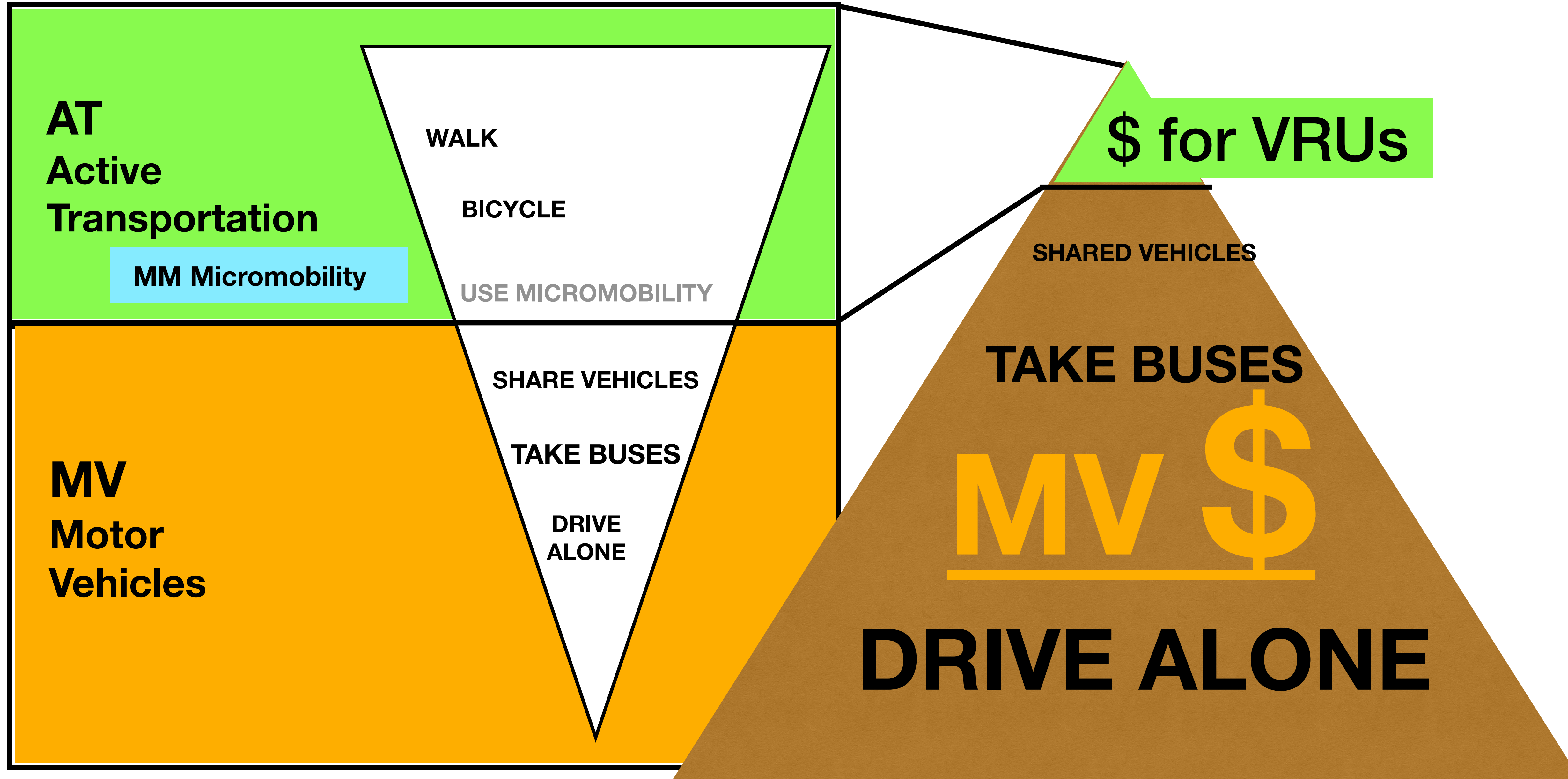
- **adults,**
- **trained,**
- **tested**
- **licensed to operate their  
motor vehicles**
- **presumed to be alert &  
in control**

**Cars, trucks, buses must be  
engineered**

- **for crash-worthiness**
- **to protect their occupants**
- **(but not to protect anyone  
else)**



# Where Halifax PUTS OUR MONEY & its attention...



**Start the improvements where our  
less privileged and most vulnerable  
live, walk, bike, ...**

**There are no “accidents”: there are badly designed roads**

**We must change our city to end crashes which kill and maim.**



**“AAA” Bike paths are not enough.  
Change, operate and maintain streets  
for Vulnerable Road Users’ safety.  
They’ll be safer for MVRUs, too.  
and more climate friendly, greener.**

**Thank you.**