



# Manchester Eco-District

Calgary's first mixed use low-carbon district

EVDS 616: Urban Infrastructure and Land Use  
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VISION + GOALS

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100%  
renewable energy



Fair share  
ecological footprint



Scandinavian  
levels of equity



80%  
GHG reduction

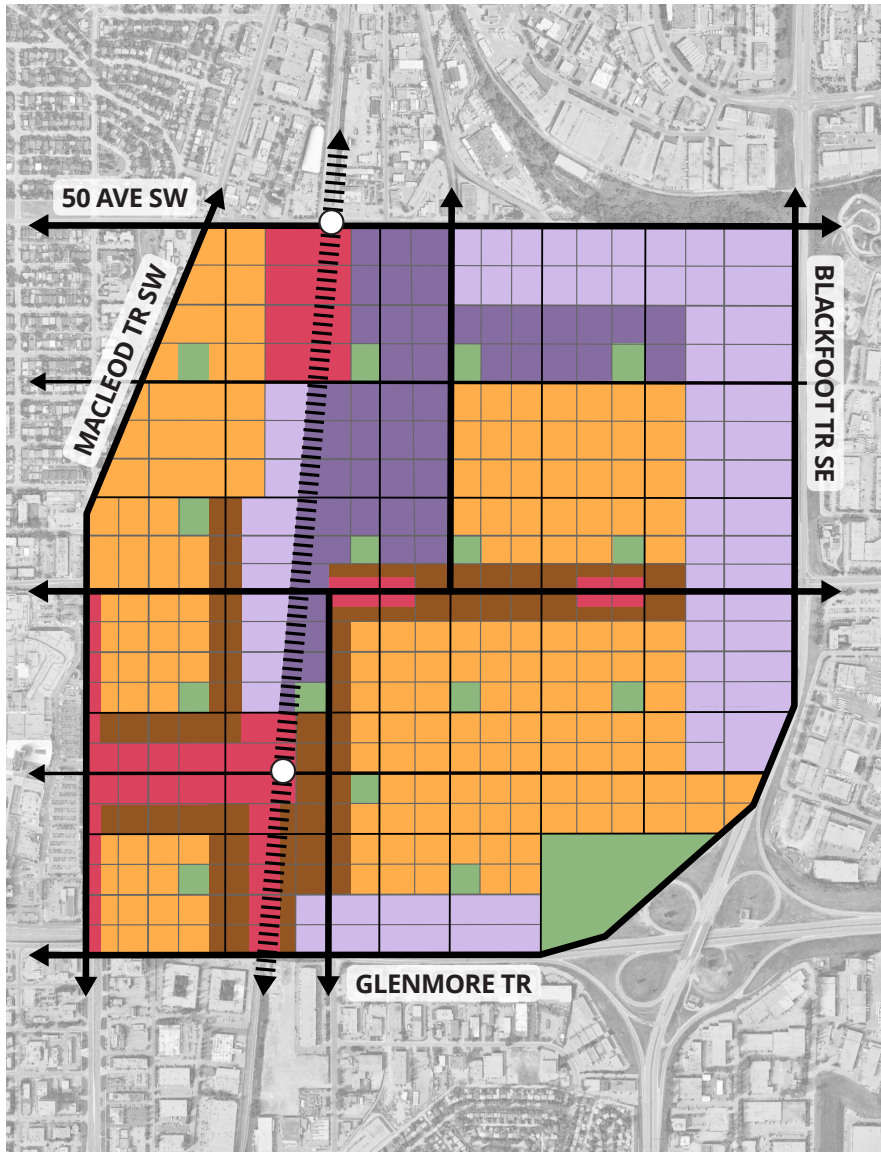


Zero waste  
to landfill



Alternatives to  
car use

# LAND USE PLAN + TYPOLOGIES



## Mixed use 1

**Residential**  
5 - 12 storeys  
**Office space**  
2 - 3 storeys  
**Light industrial**  
1 storey



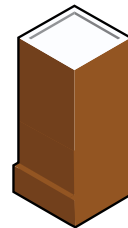
## Mixed use 2

**Residential**  
5 - 12 storeys  
**Office space**  
2 - 3 storeys  
**Retail**  
1 storey



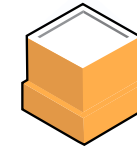
## Res. (high)

**Residential**  
1 - 12 storeys



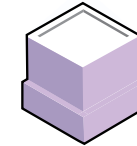
## Res. (med)

**Residential**  
1 - 8 storeys



## Light indust.

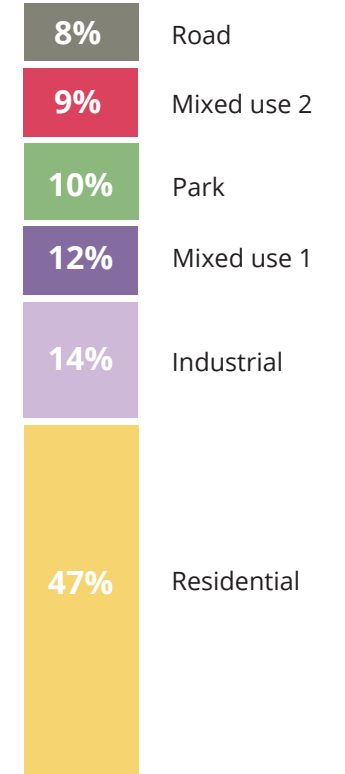
**Light industrial**  
1 - 4 storeys



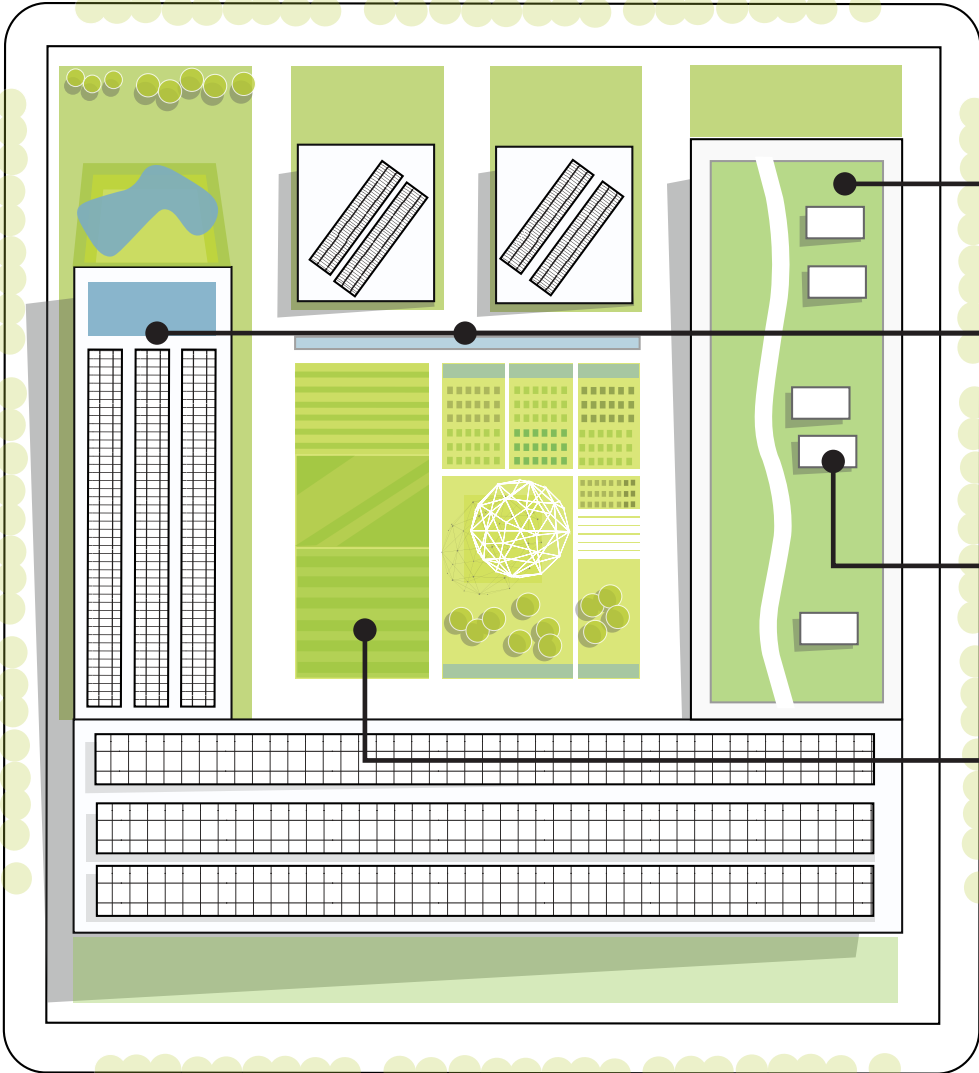
## Open spaces



## Land use breakdown



# HOUSING + FOOD INFRASTRUCTURE

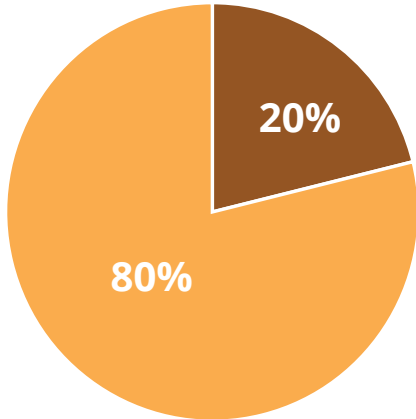


Green roofs

Rainwater/snow melt collection for agricultural use

Greenhouses for local year-round production

Community gardens

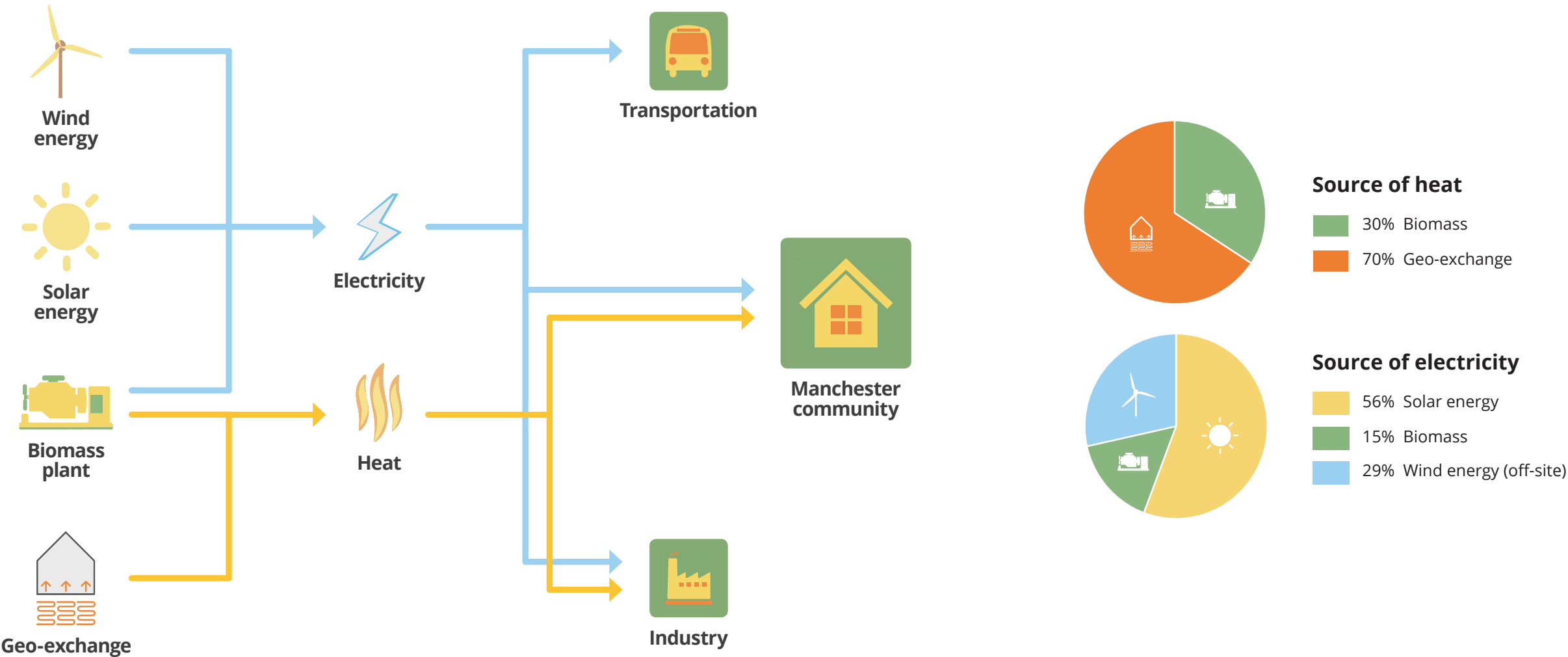


**Population breakdown**

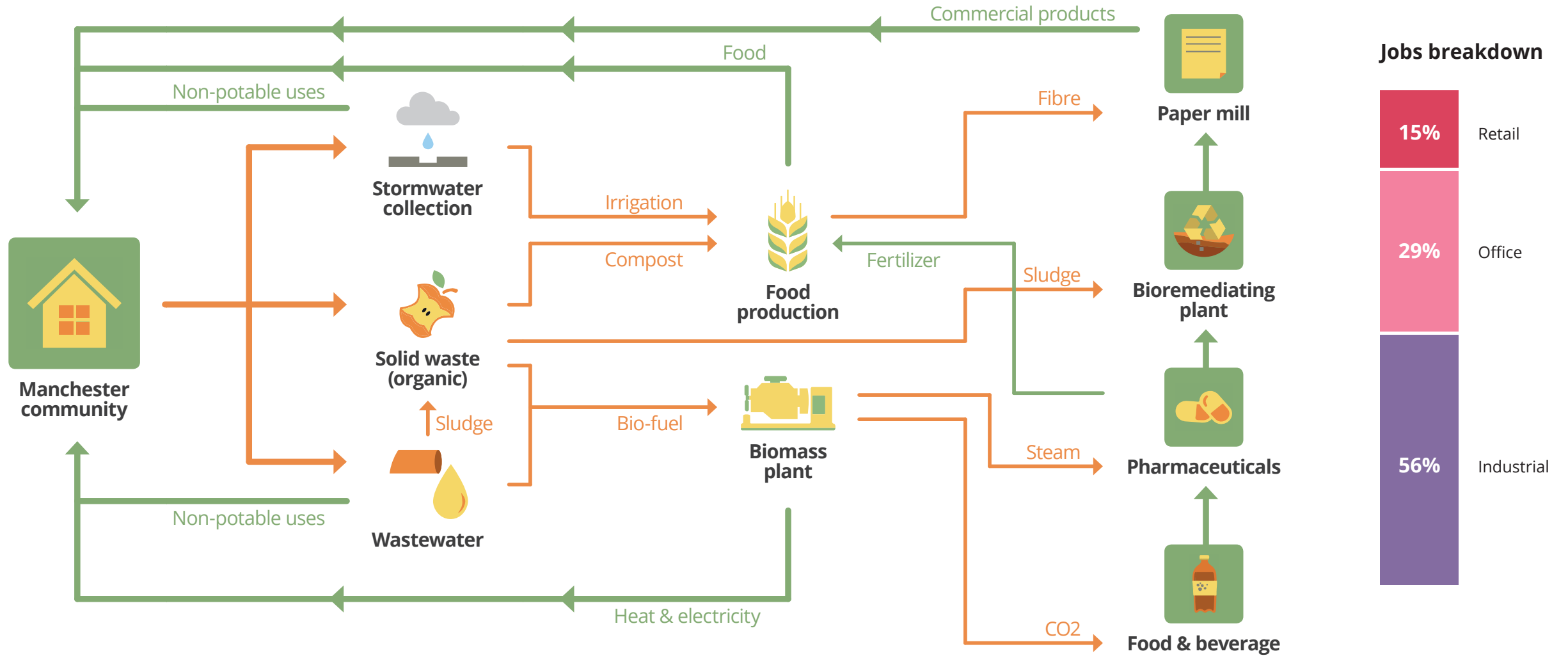
- High density  
12,500 persons
- Medium density  
47,000 persons



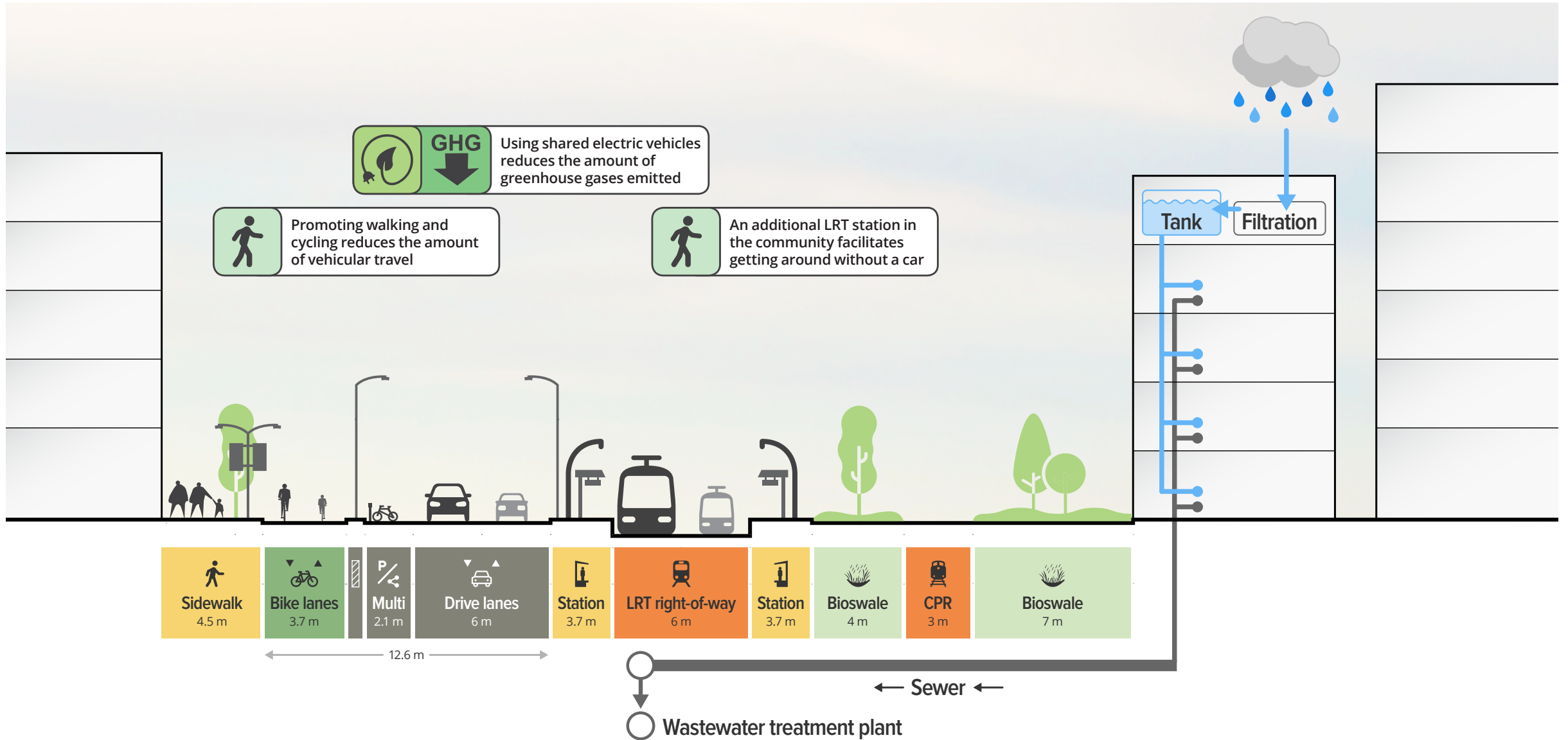
# RENEWABLE ENERGY CYCLE



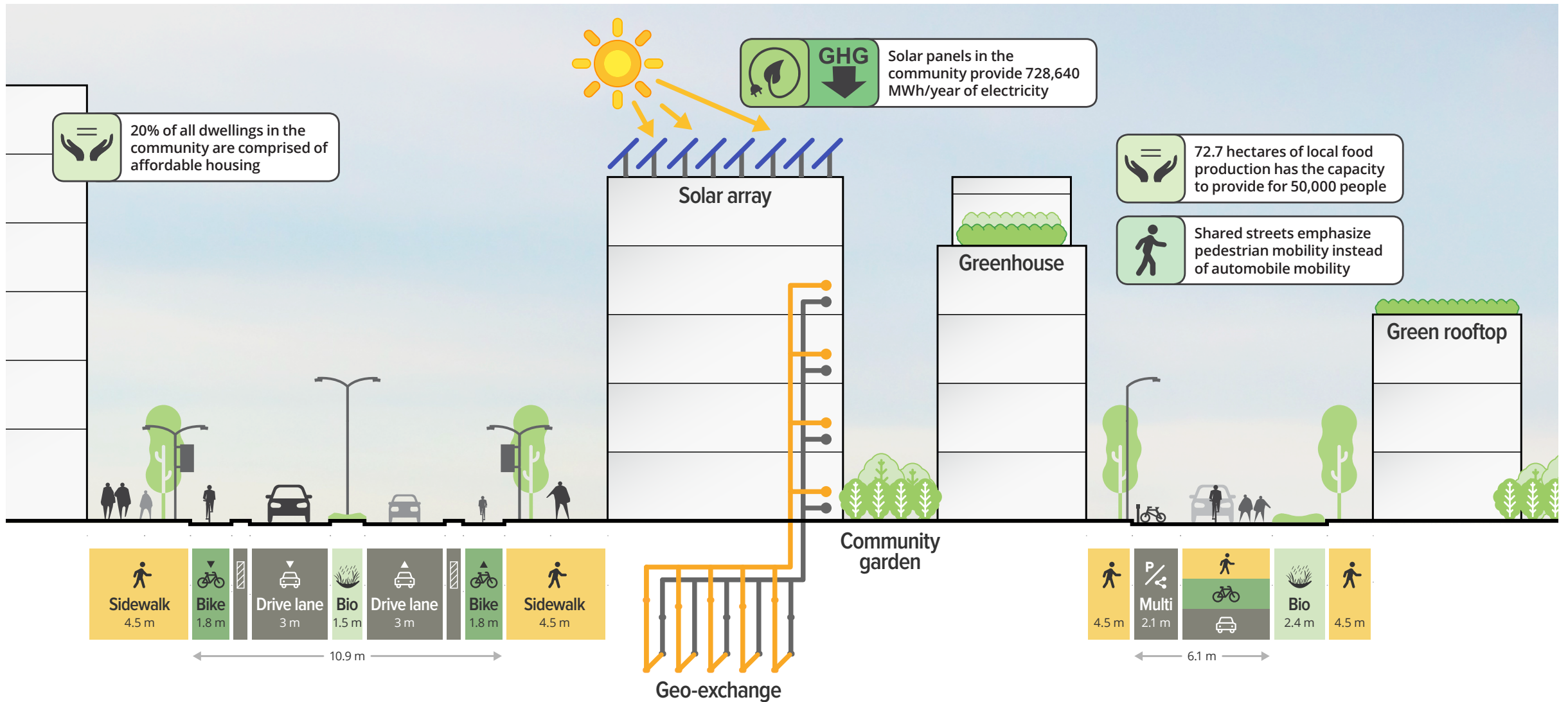
# MATERIAL FLOWS + CIRCULAR ECONOMY



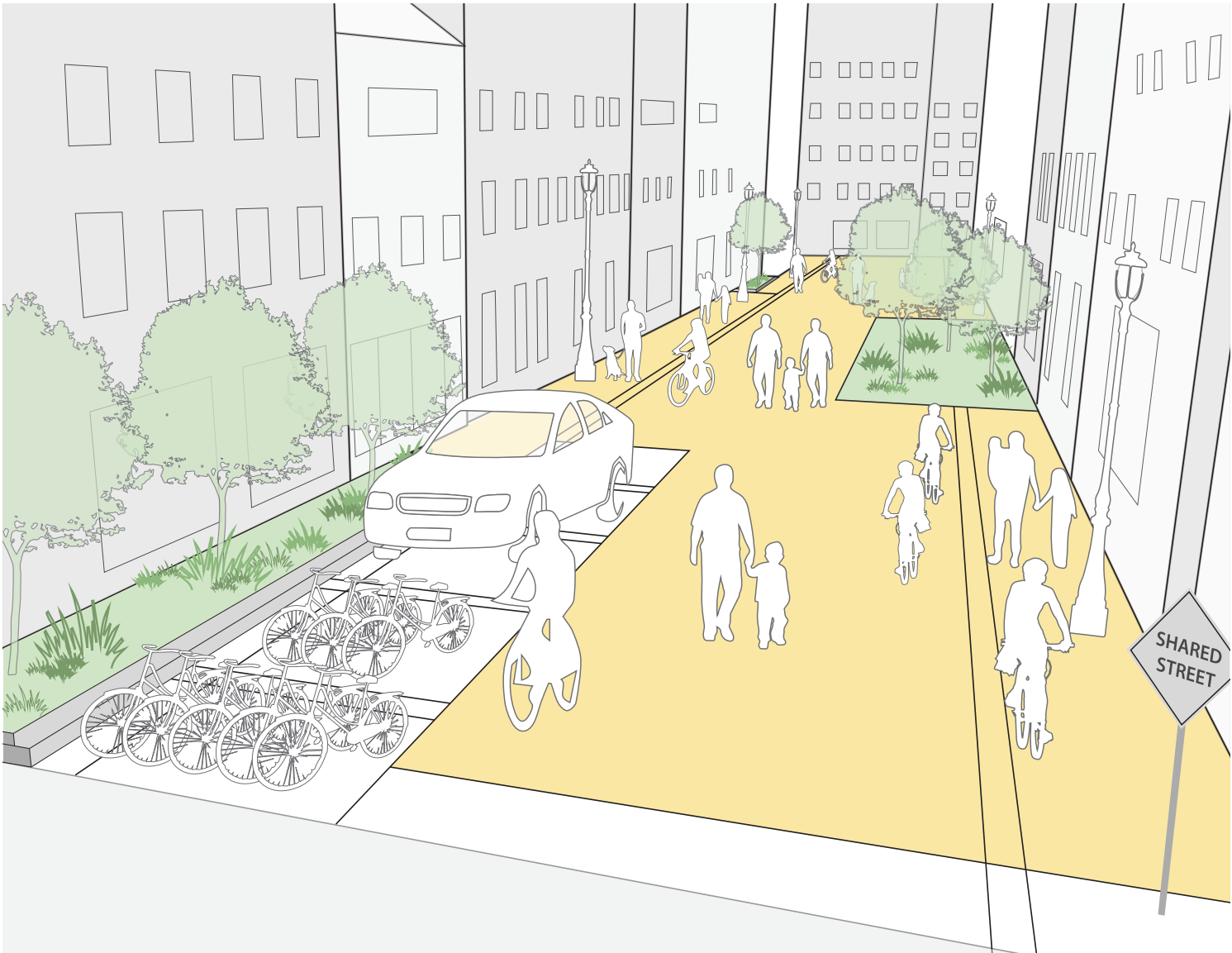
# MAIN STREET



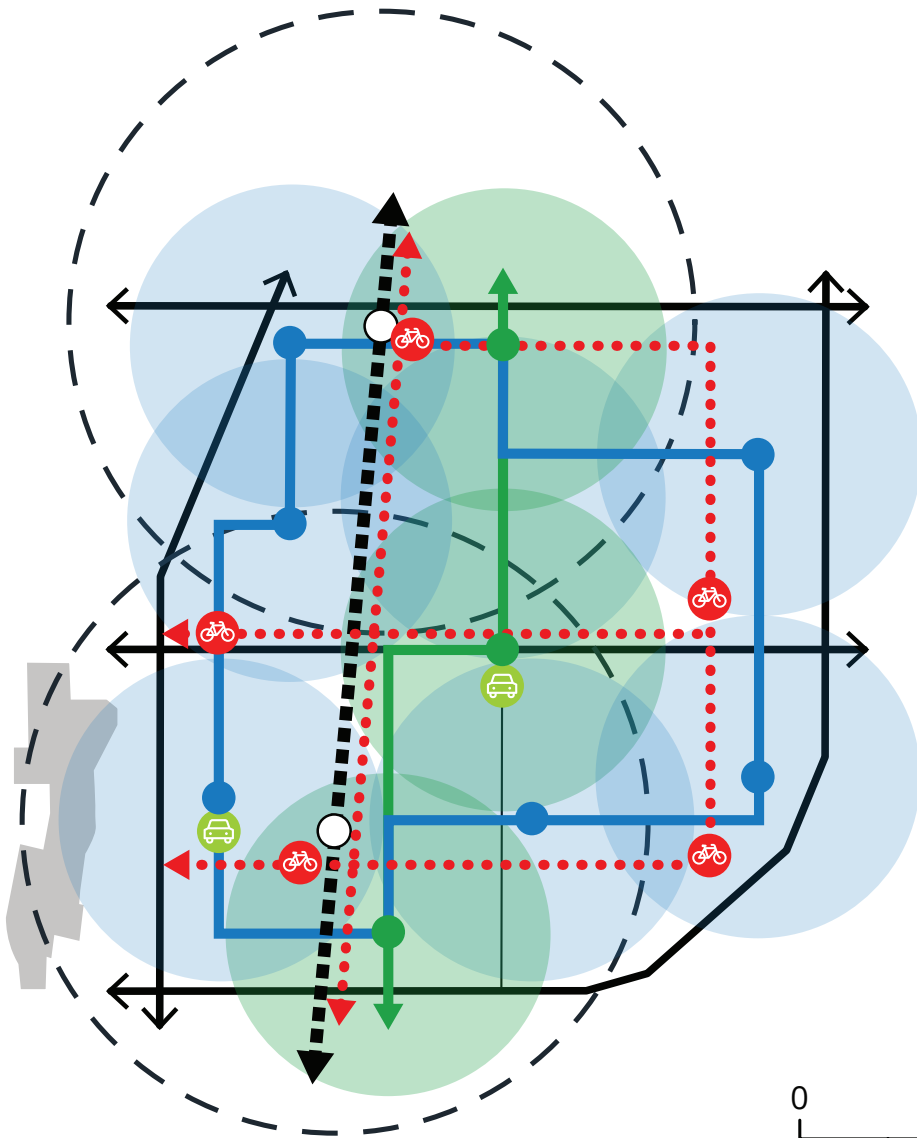
# ARTERIAL STREET + SHARED STREET



# SHARED STREETS



# WALKABILITY





800 m from LRT stop

400 m from local bus loop stop


400 m from regional bus route stop


## TRANSIT CIRCULATION

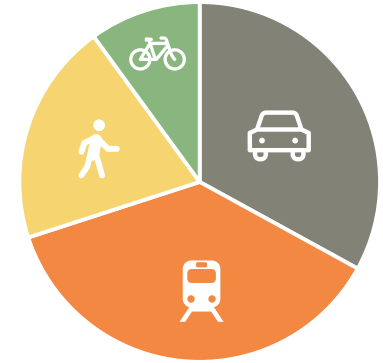
 Bike-share pickup/dropoff

 Car-share pickup/dropoff


 LRT station

 Local bus route stop

 Regional bus route stop



## Transportation mode share

 37% Transit

 20% Walk

 10% Bike

 33% Shared motor vehicle



**Thank you**