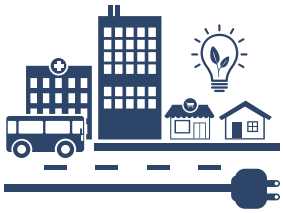
SWITCHING GEARS
ENABLING ACCESS TO SUSTAINABLE URBAN MOBILITY

Access to sustainable urban mobility is a necessity for vulnerable populations and it is at the basis for achieving many sustainable development goals (SDGs).

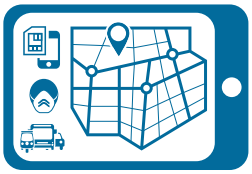
Cities account for 70 percent of worldwide GHG emissions and 50 percent of the world's population, but only 3 percent of Earth's land area. By 2050, both urban transport energy consumption and emissions are expected to double. Most of this growth will happen in developing countries.

Fast-growing cities present an opportunity to avoid grid-locked growth patterns and to integrate sustainable energy and transport solutions. Small-to-medium-sized cities in Africa, Asia and Latin America, where a large share of future urban growth is expected, have been divided into four city types:



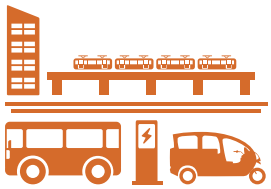
EFFICIENCY OPPORTUNISTS

- Fastest growing cities in the period 2020-2030, with a time sensitive opportunity to act on their mobility needs
- Indicated for interventions that reap the benefits of energy efficiency
- Present a special opportunity for countries where fuel economy policies are in place



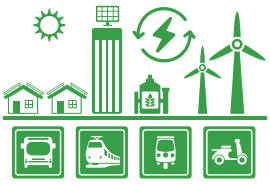
DIGITAL DISRUPTORS

- Cities that can gain significantly from potential co-benefits of improved energy and mobility
- Population exposed to air pollution and at risk due to unsafe roads
- Utilize digital technology as a solution to gain access to mobility



ELECTRIC VEHICLE LEAPFROGGERS

- Cities that can profit from vehicle electrification, as they have urban access to electricity, especially renewable electricity
- Population exposed to air pollution
- Factor in quality of roads



RENEWABLE DRIVERS

- Cities that have renewable resources available
- Look at renewable energy indicators, including use of biofuels, renewable energy in transport and renewable electricity
- Support access to sustainable urban mobility through renewable energy

Three solutions for delivering sustainable mobility in cities

SOLUTION 1:
Integrated energy, land-use and mobility planning

We integrate not just land use and urban planning, but also the energy sector and energy efficiency, reaping multiple benefits of a systems approach.

Ideal for:

Efficiency Opportunists

Renewable Drivers

SOLUTION 2:
Demand-side targeting and management

By using demand-side management mapping of mobility and energy, there is a greater chance to efficiently utilize both, by avoiding unnecessary travel and energy use

Ideal for:

Digital Disruptors

Renewable Drivers

SOLUTION 3:
Electric mobility

We ensure that the energy supply for mobility is as clean as possible; this will be more effective when the energy sector for electric mobility is included from the outset.

Ideal for:

Electric Vehicle Leapfroggers

Renewable Drivers