



Republic of Rwanda  
Ministry of Infrastructure

MININFRA



# Feasibility Study on Introduction of Electric Mobility Options in Rwanda

28 NOVEMBER 2018





## Presentation outline

1. Background
2. Rationale
3. Scope of the Study
4. Way forward





## Background

- GoR through MININFRA and MoE is conducting a feasibility study on introduction of electric mobility to investigate deeply and provide a comprehensive way to ensure the preparedness of the country towards a shift from gasoline and diesel vehicles to electric vehicles
- Study consists of data gathering to set the baseline, technical assessments, awareness raising, developing the enabling policies, standards and incentives and explore financing for bankable cases



## Rationale

- Increasing level of air pollution across the globe has been a cause of concern for policy makers
- Cause of growing air pollution is related to a variety of sources, with transport sector being significant contributor
- Motorcycles are the fastest growing transport mode, and have major climate and air quality impacts



## Rationale (Cntd)

Green House Gas and CO2 emissions by sector

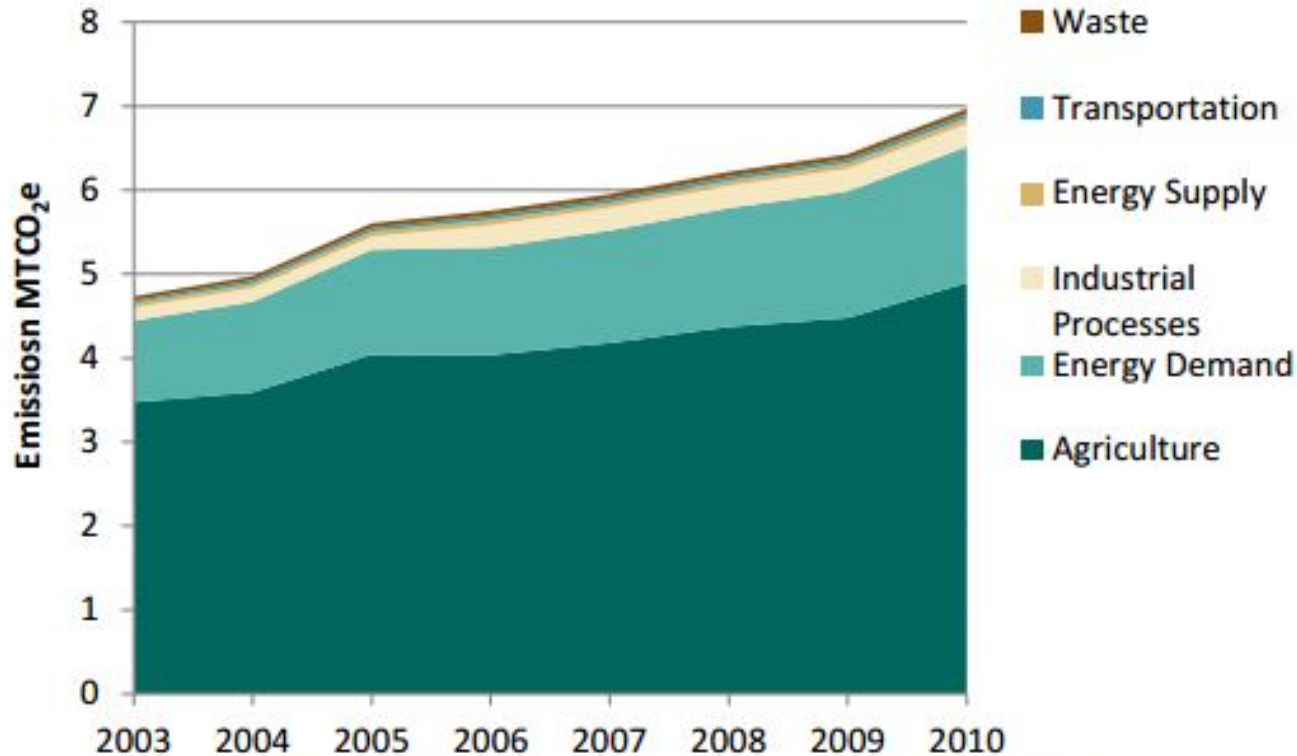


FIGURE 2: TOTAL EMISSIONS BY SECTOR 2000-2010 (MTCO<sub>2</sub>E EXCLUDING LULUCF)

Source: IISD 2013. Republic of Rwanda: Greenhouse gas emissions baseline projection

Transportation sector causes a large proportion of the emissions in Rwanda



## Rationale (Cntd)

- Major proportions of pollution in Rwanda are found along the major roads as result of vehicular traffic;
- Electric versions have zero emissions - if using renewable energies - are cost competitive and have minimum direct impact on the environment



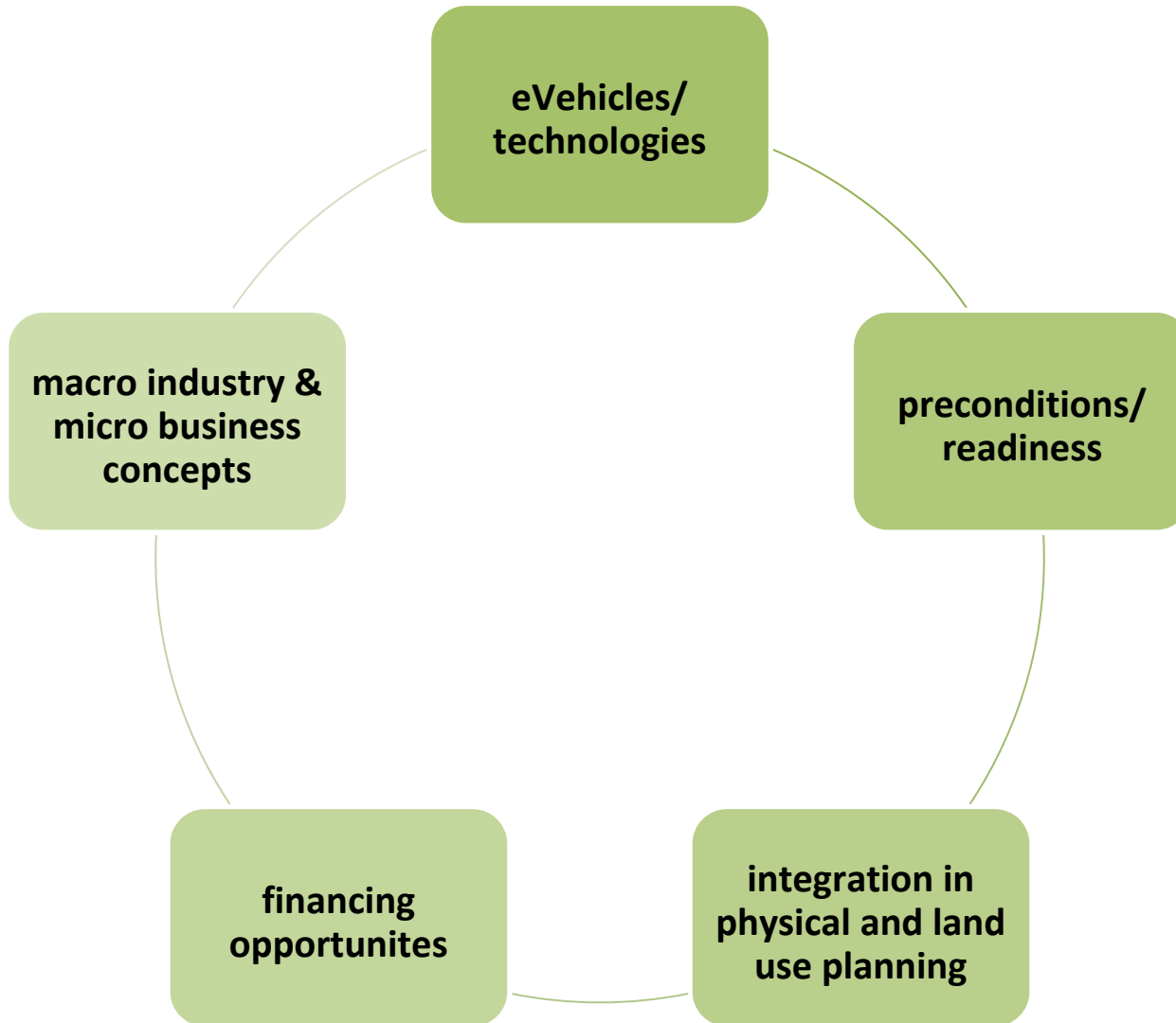
## Rationale (Cntd)



Rwanda's immediate opportunities are projected in sustainable public transportation, motorcycle taxis, heavy load vehicles and car sharing concepts



# Scope of the Study







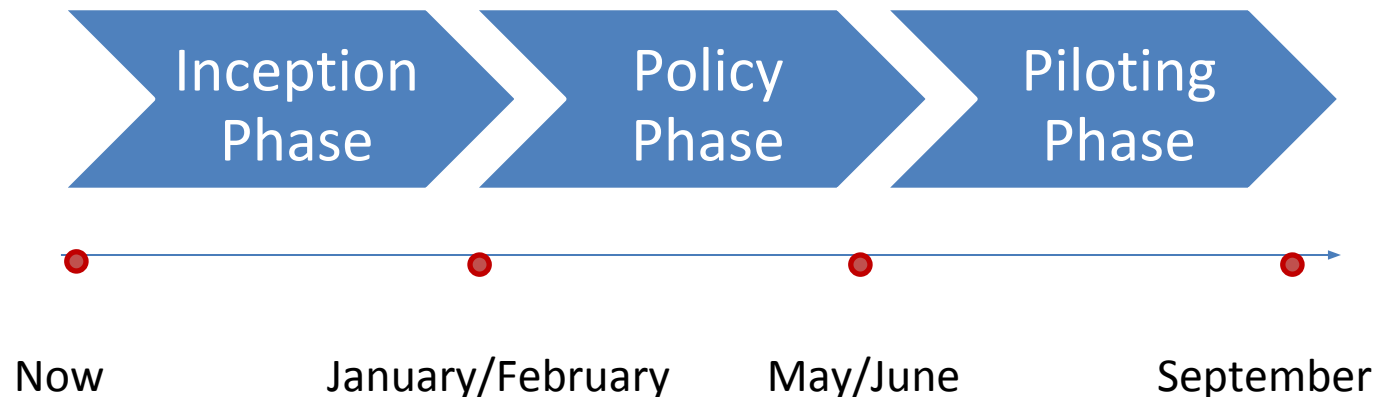
## Specific Tasks

- TASK 1 eMobility: Baseline study and feasibility study for eMobility by April 2019
- TASK 2 eMobility: Policy options and implementation by April 2019
- TASK 3 eMobility: Development demonstration pilot project proposal for eMobility by September 2019



## Progress and Way Forward

- Detailed action plan developed
- Data collection ongoing in Rwanda
- Preparations of baseline setting, target indicator setting for Rwanda, development of the GHG emissions model and development scenarios





## Ongoing activities

### Stakeholders to be brought on board (not exhaustive)

- RTDA
- MINEDUC/WDA – skills, curricula
- MINICOM– motorcycle federations regulation/monitoring, information on manufacturing sector
- PSF – SMEs charging infrastructure, infos on manufacturing sector
- REG – charging infrastructure, national grid, mini grids
- RRA (data)
- RNP/Motor vehicle inspection (data, feasibility)
- RURA (regulation, transport operating licenses)
- RCA (Rwanda Cooperatives Agency)
- Motorcycle cooperatives, e.g. SafeMotos
- Private sector players (Volkswagen, Ampersand etc)



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THANK YOU

