



Unit 2

Productive uses for E-mobility

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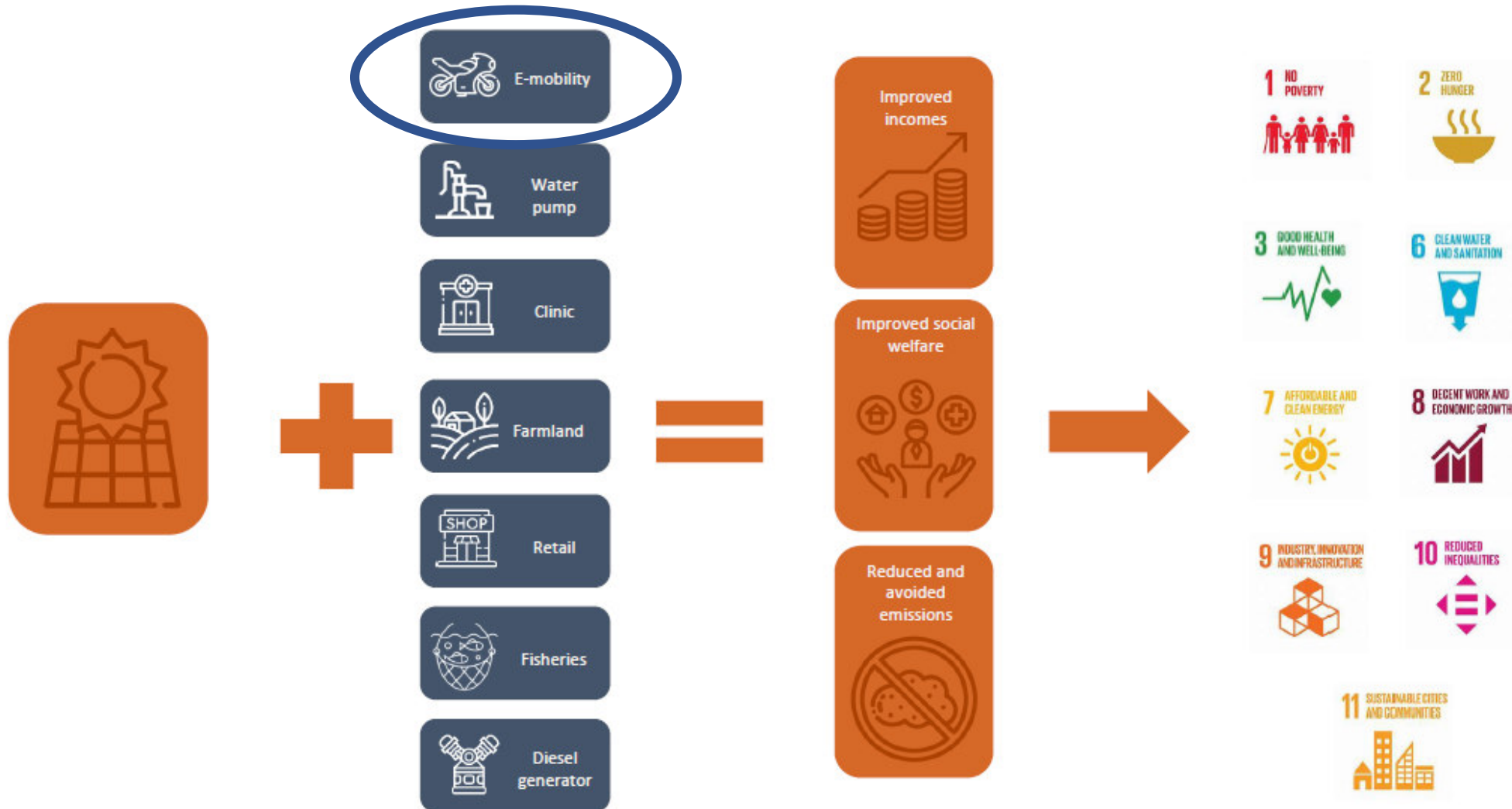
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In this video you will learn:

- What do we mean by productive use of e-mobility?
- Overview of E-mobility use cases in urban areas
- Case study: e-bikes for urban deliveries
- Overview of E-mobility use cases in rural areas
- Case study: Wetu in Western Kenya with E-motorcycles



Productive use of energy → e-mobility



Source: PREO 2021: The Power of the Productive Use of Energy – an impact investment frontier https://www.preo.org/wp-content/uploads/2021/10/PREO_PUE-Opportunity-Report_Oct-2021.pdf

Examples of productive uses of E-mobility

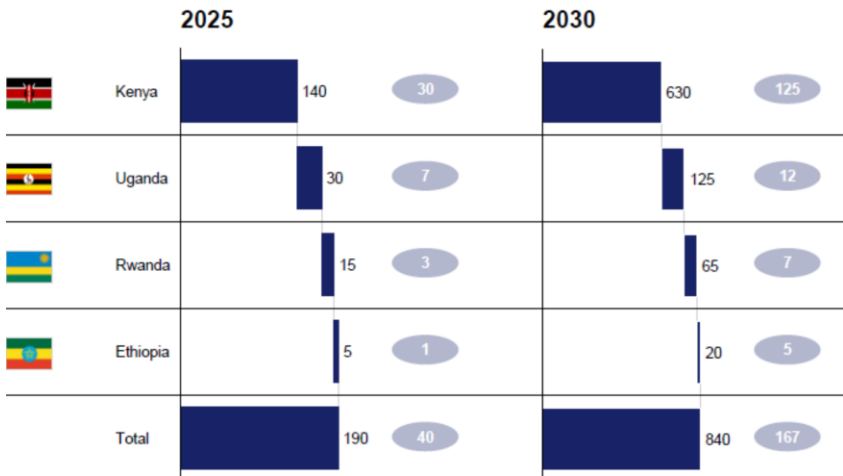
- Passenger transport
- Postal services
- Food /grocery delivery
- Last mile logistics
- Health centers/Medical supplies/Emergency services
- Cleaning services/ Waste collection



Source: Solutions Plus

The importance of Light Electric Vehicles for Africa

Projected E2W parc¹ in East Africa, '000 Average annual sales ('000 units) over 5 years



Source: Manufacturing Africa 2021. Opportunity and investment potential for electric vehicles in Kenya



Source: World Bank. 2021. Pathways to Electric Mobility in the Sahel. Two and three-wheelers in Bamako and Ouagadougou.

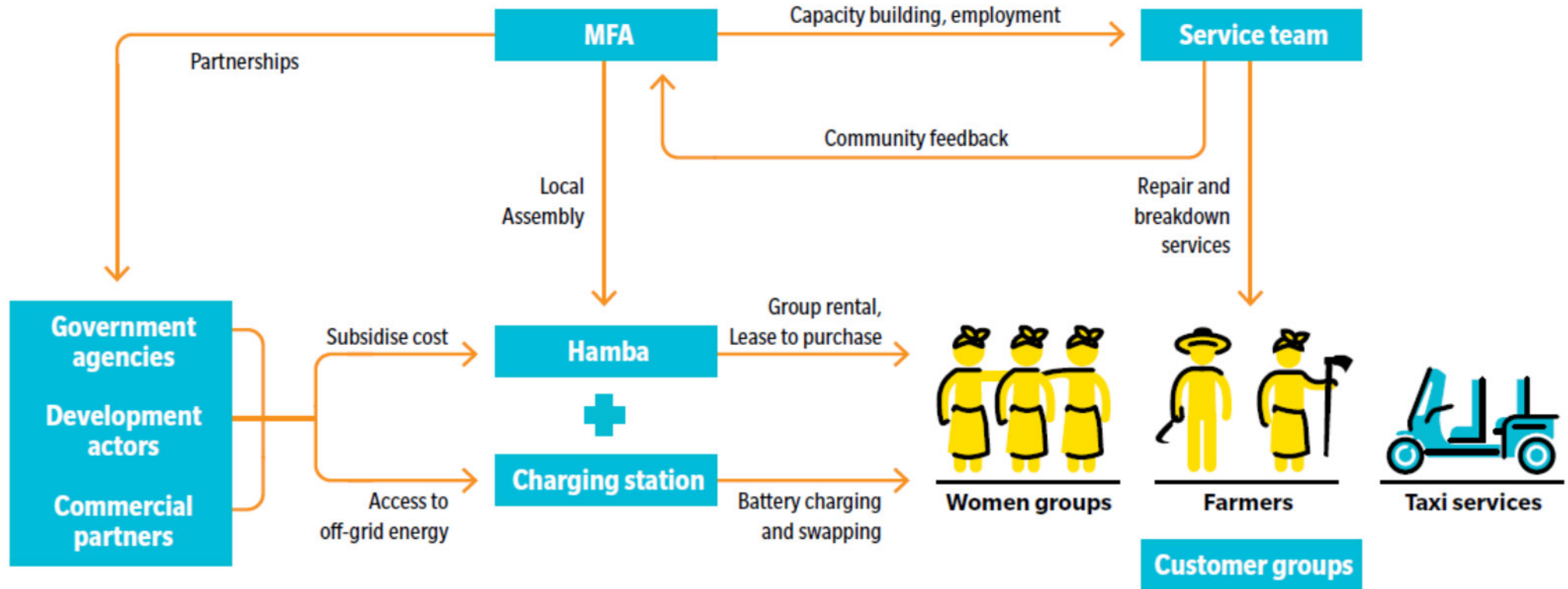
Rural Use cases

Expansion of e-mobility in rural areas can strengthen food systems and increase the incomes of small-holder farmers in the least developed areas



Source: Mobility for Africa

Mobility for Africa -Zimbabwe (2)



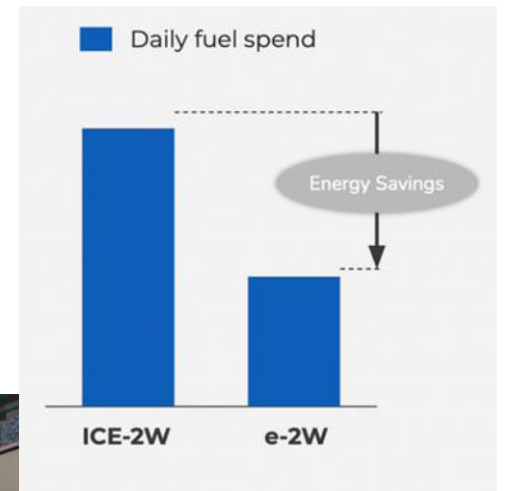
Source: Efficiency for Access, 2021: Business Model Innovations Addressing Affordability: Case Studies

Urban use cases

Moto-taxis



Deliveries



Source: Solutions Plus: Ampersand and EVM Africa

Utility E-Bikes for urban and non urban areas



Illustration by TafyTang Arts Windhoek (<https://www.facebook.com/tafytang.arts/>)

Shared Economy: WeTu Solar Hubs

- 7 solar powered hubs serving as charging stations with a capacity of a total of 150kWp
- WePower provides renewable energy for e-mobility solutions and leasing services for solar lanterns for small-scale fishing
- WeMobility offers e-mobility solutions such as e-cargo bikes and e-Boda-Bodas

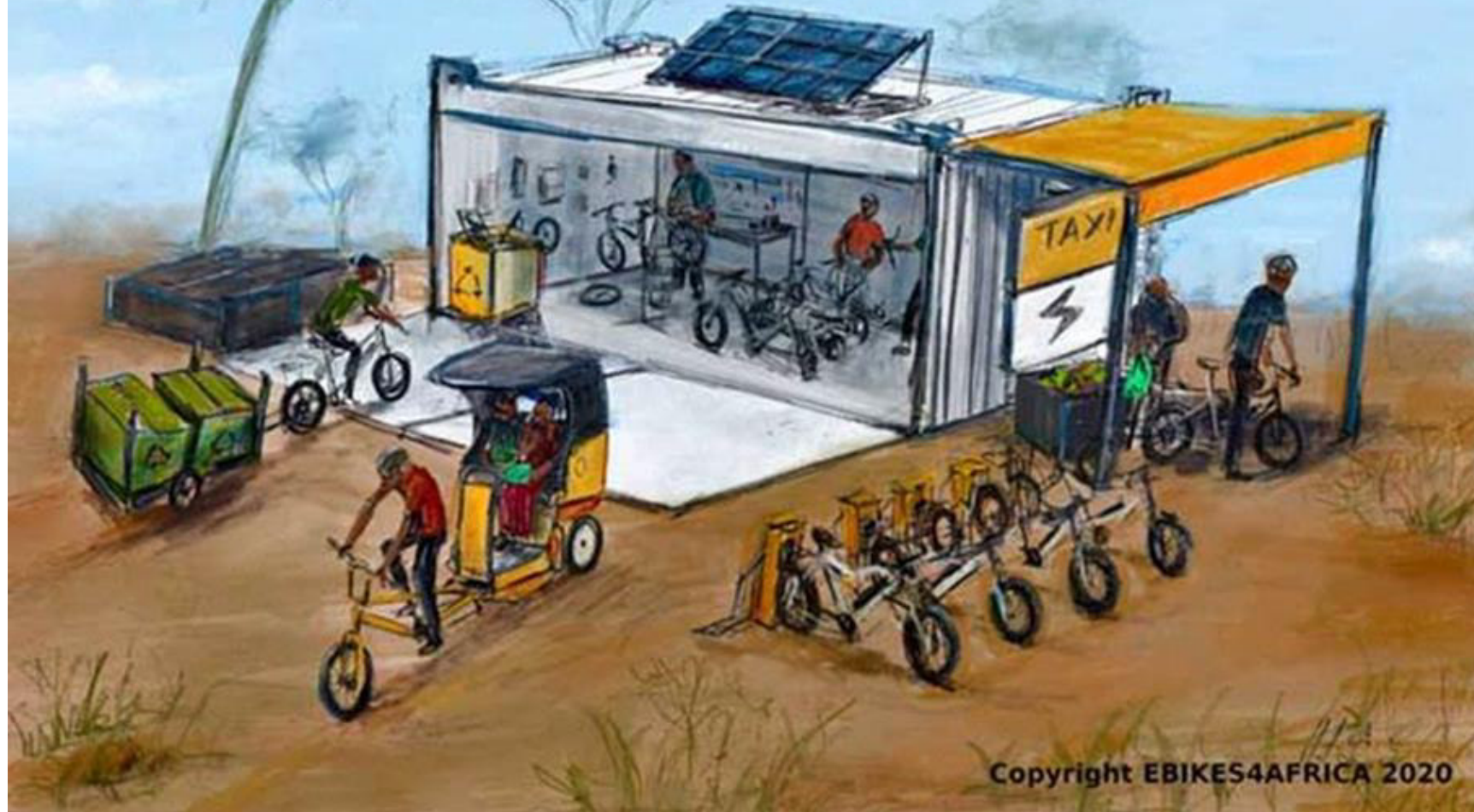


Source: wetu.co.ke



The E-Hub

Mobilizing African Communities



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Key References

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THANK YOU

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