

City GHG Emissions Inventories and the City-wide Approach to Carbon Finance

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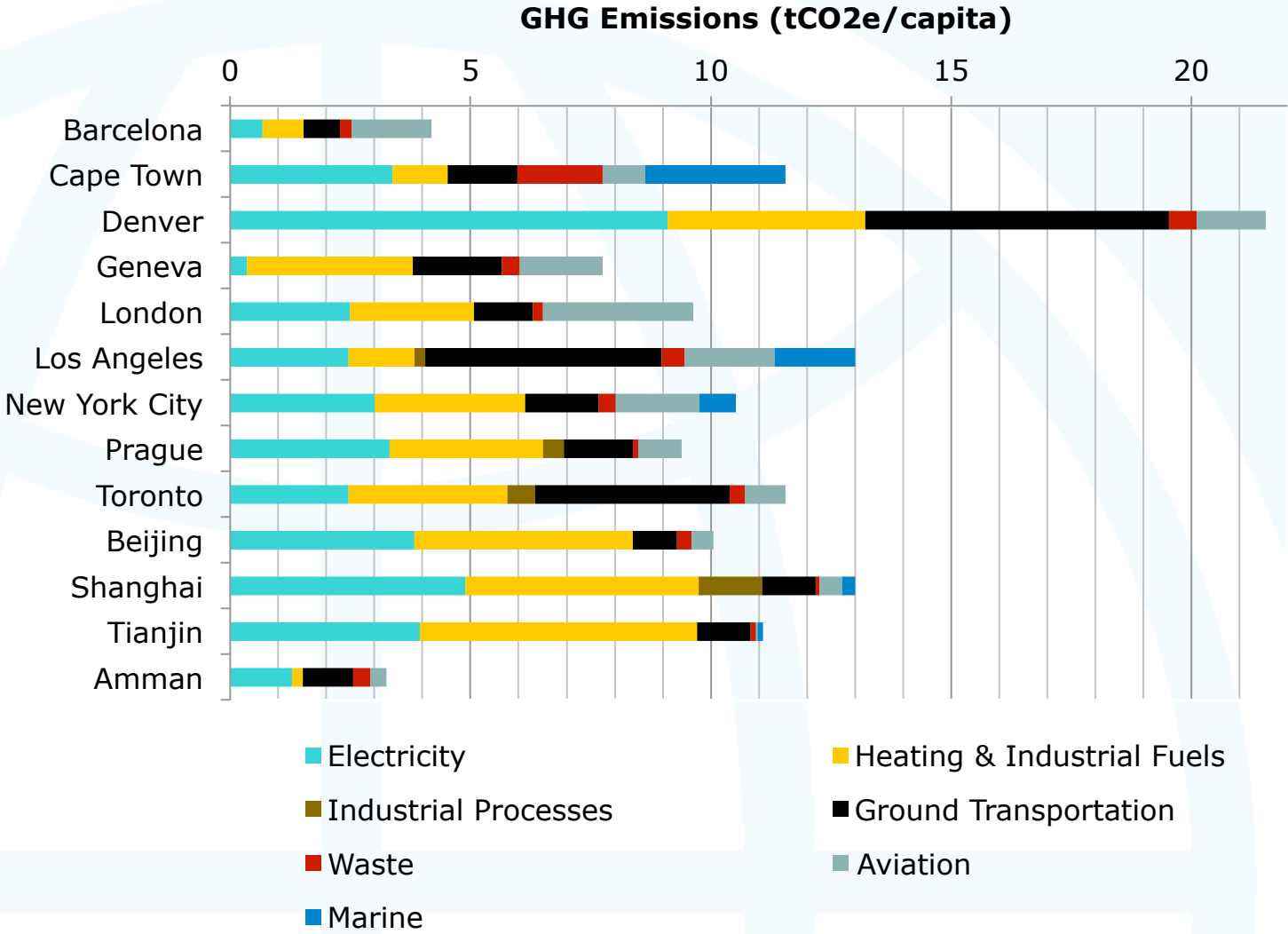
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An international standard for measuring city GHG emissions is essential for global climate mitigation

- ❖ An open, global protocol for attributing GHG emissions is needed in order to establish baselines and monitor progress
- ❖ Proliferation of protocols and methods for city GHG inventories
 - e.g. ICLEI USA; Bilan carbone (France); Project 2 Degrees (CCI); GRIP (Europe); CO2 Grobbilanz (Germany)
- ❖ Launched at World Urban Forum in Rio, March 2010
 - Partnership among UNEP, UN-HABITAT, World Bank; also harmonized with C40, ICLEI, OECD and others
- ❖ Work ongoing with client cities, in conjunction with World Bank Group regional operations
 - e.g. Amman, Bangkok, Dar es Salaam, Jakarta, Mexico City, Quezon City, Sao Paulo
 - Plans to work with a number of Chinese cities

Sectoral analysis of GHG emissions from selected cities



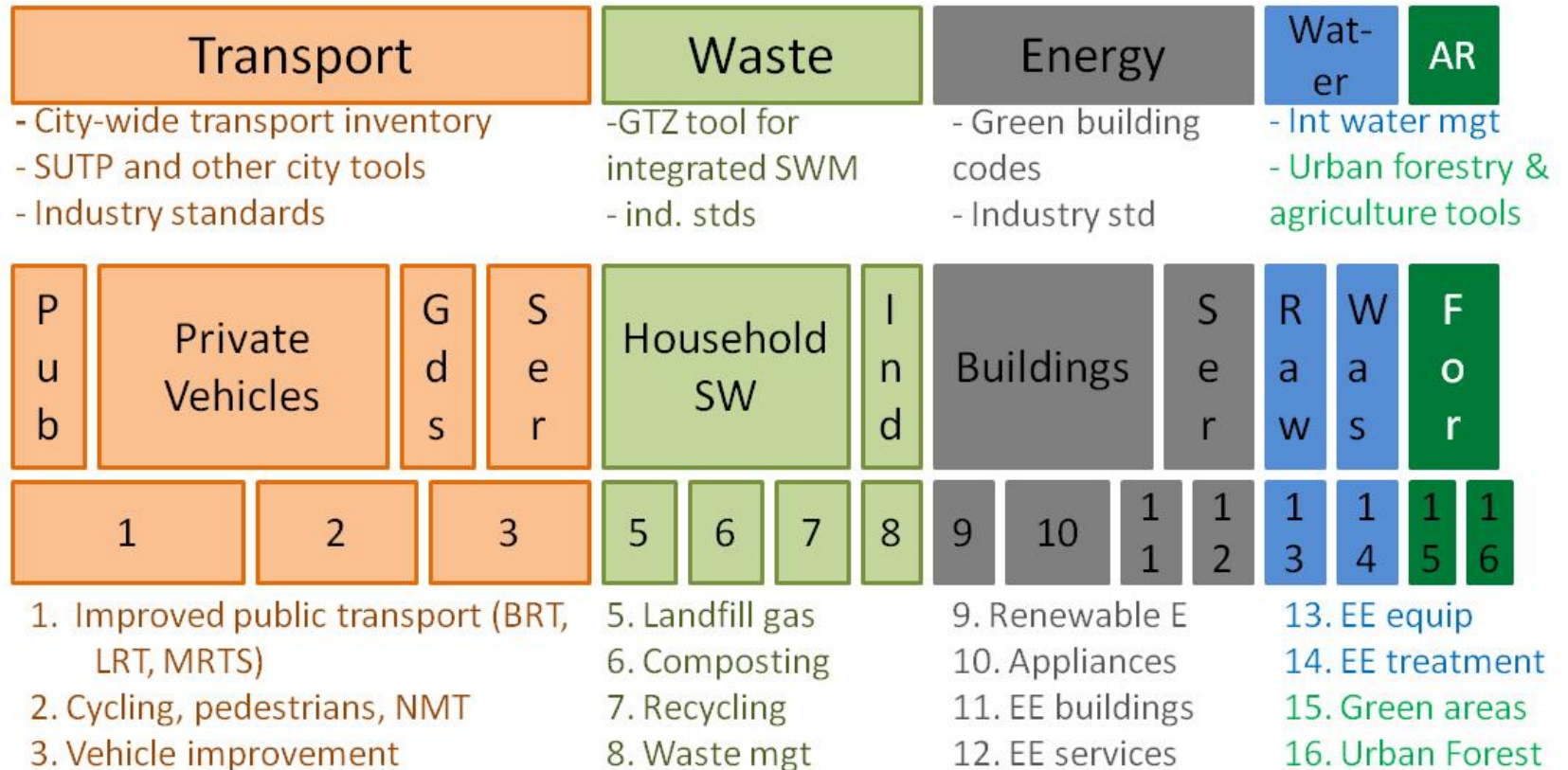
A city-wide approach to carbon finance enables aggregation of city GHG reductions

- ❖ Rationale: overcome hurdle of high transaction costs for individual CDM Project Activities (CPAs) in a given city
- ❖ The door is now open for city-wide Programmes of Activities (PoAs)
 - Cancun: Decision 3/CMP.6 – Parties requested CDM Executive Board (EB) to simplify PoAs for multiple methodologies, “including for possible city-wide programmes”
 - Sept 2011: EB 63/Annex 4 – Standard for Application of Multiple CDM Methodologies for PoAs
- ❖ VCS generally accepts all CDM rules, so now – in principle – could validate a city-wide project
- ❖ Next step is to register a city-wide PoA, and start generating CERs
- ❖ As ever, uncertainty on post-2012 regime

Elements of a city-wide approach to carbon finance

Municipal Authority

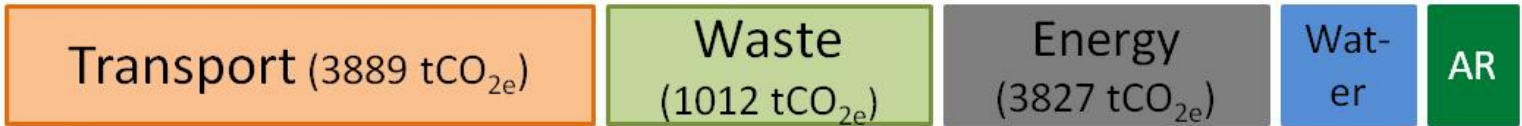
City-level GHG Inventory



Example: Greater Amman Municipality, Jordan

Greater Amman Municipality

City-level GHG Inventory (10,256ktCO_{2e} or 3.7tCO_{2e} pc, 2008)



1. Improved public transport (BRT, LRT, MRTS)

2. Cycling, pedestrians, NMT

3. Vehicle improvement

5. Landfill gas

6. Composting

7. Recycling

8. Waste mgt

9. Renewable E

10. Appliances

11. EE buildings

12. EE services

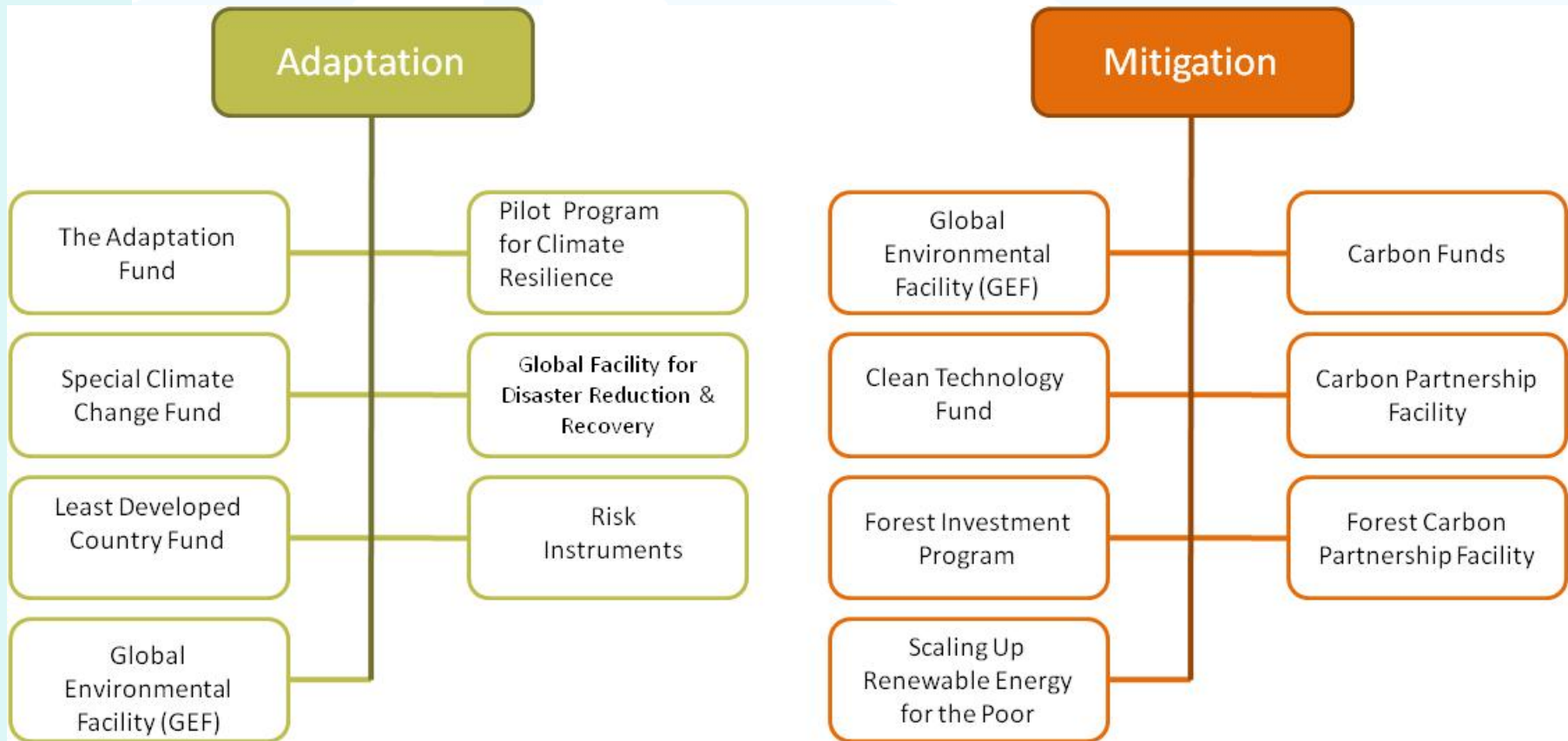
13. EE equip

14. EE treatment

15. Green areas

16. Urban Forest

Look to climate finance more broadly, but there is less available than commonly thought



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List of Acronyms

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Mitigation

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