

Urban and Village Power from waste

Make your own green energy

Sandra Sassow | June 2018



News from the world...

- 7-10 billion tons of urban waste being produced every year
- 3 billion people with no access to controlled waste disposal facilities
- Volume of waste in low-income African and Asian cities is likely to double by 2030

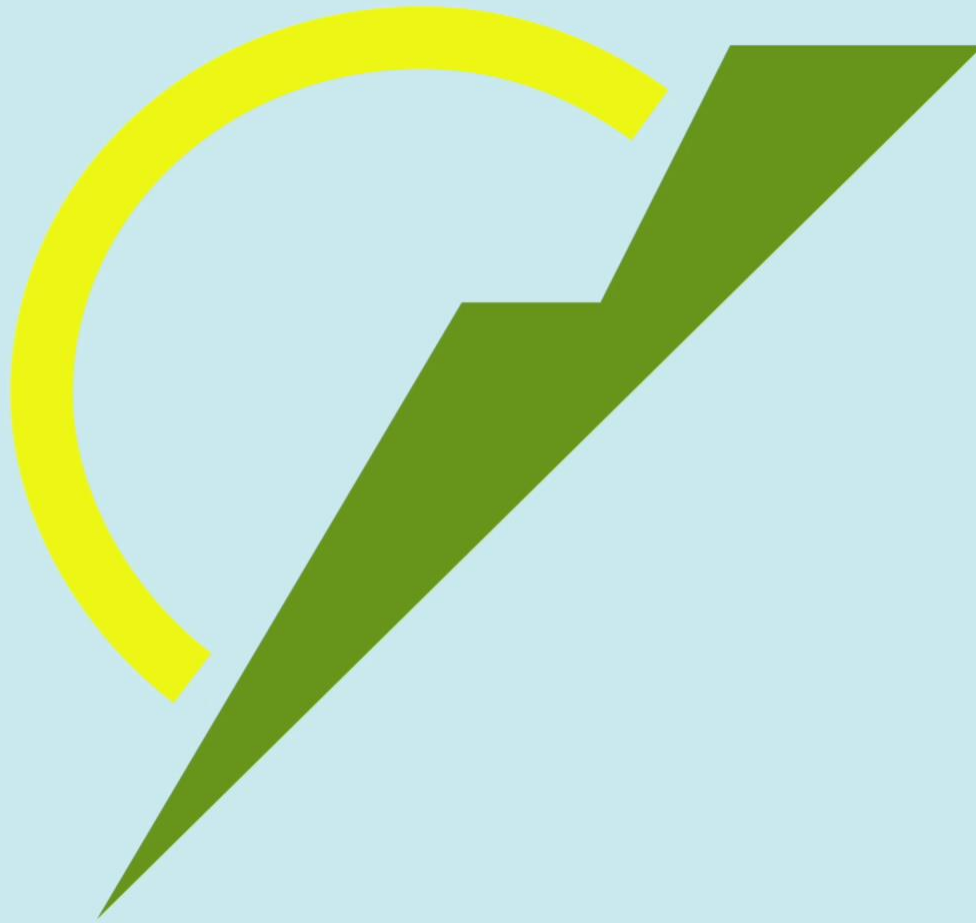


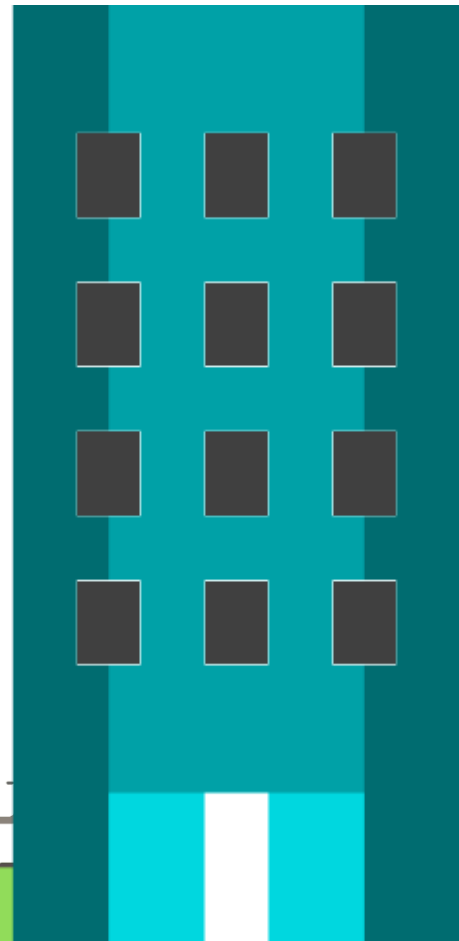
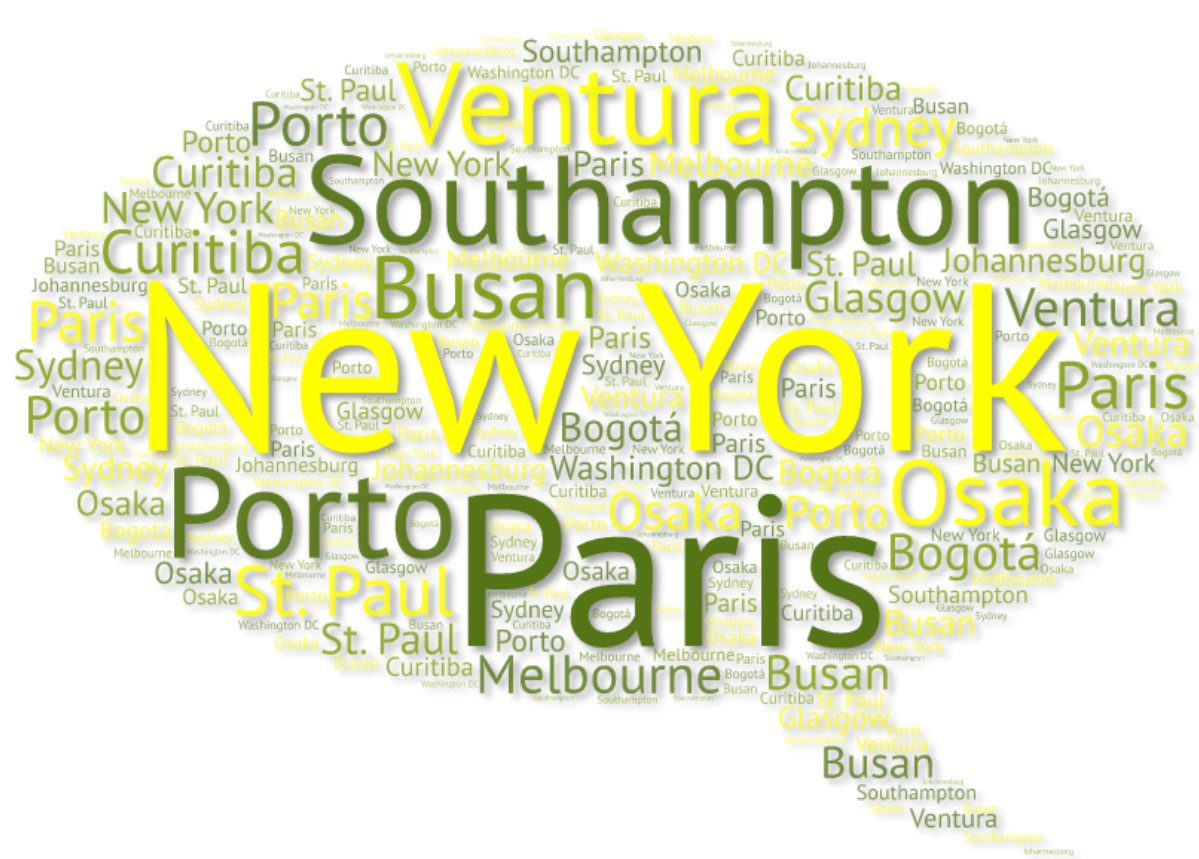




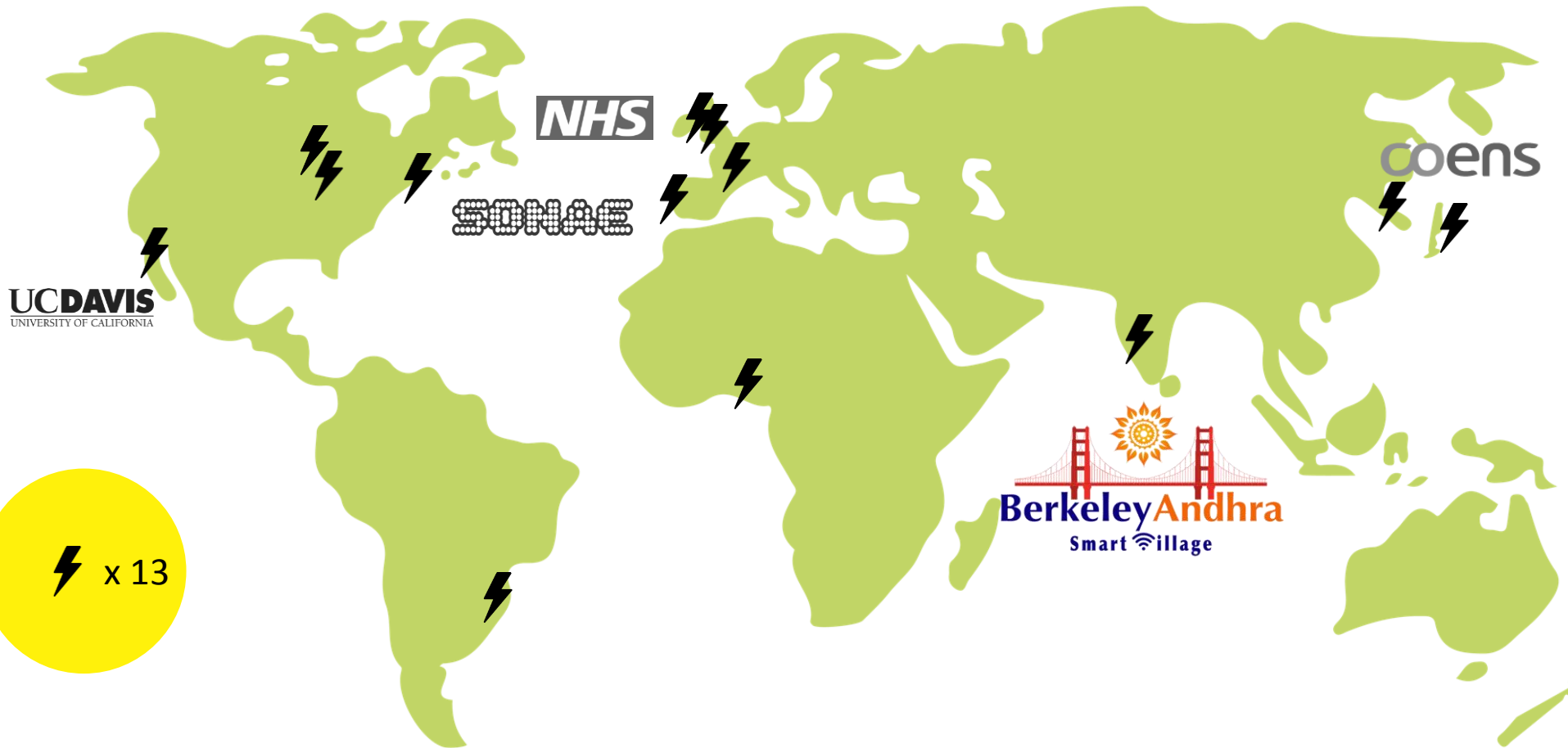
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⚡ x 13



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IAP



UK



17 Agents/ Resellers



HSBC



BAKER BOTTS



Partners





INDIA

- India generates about 62 million tonnes of garbage every year
- More than 72% of waste in India remains untreated

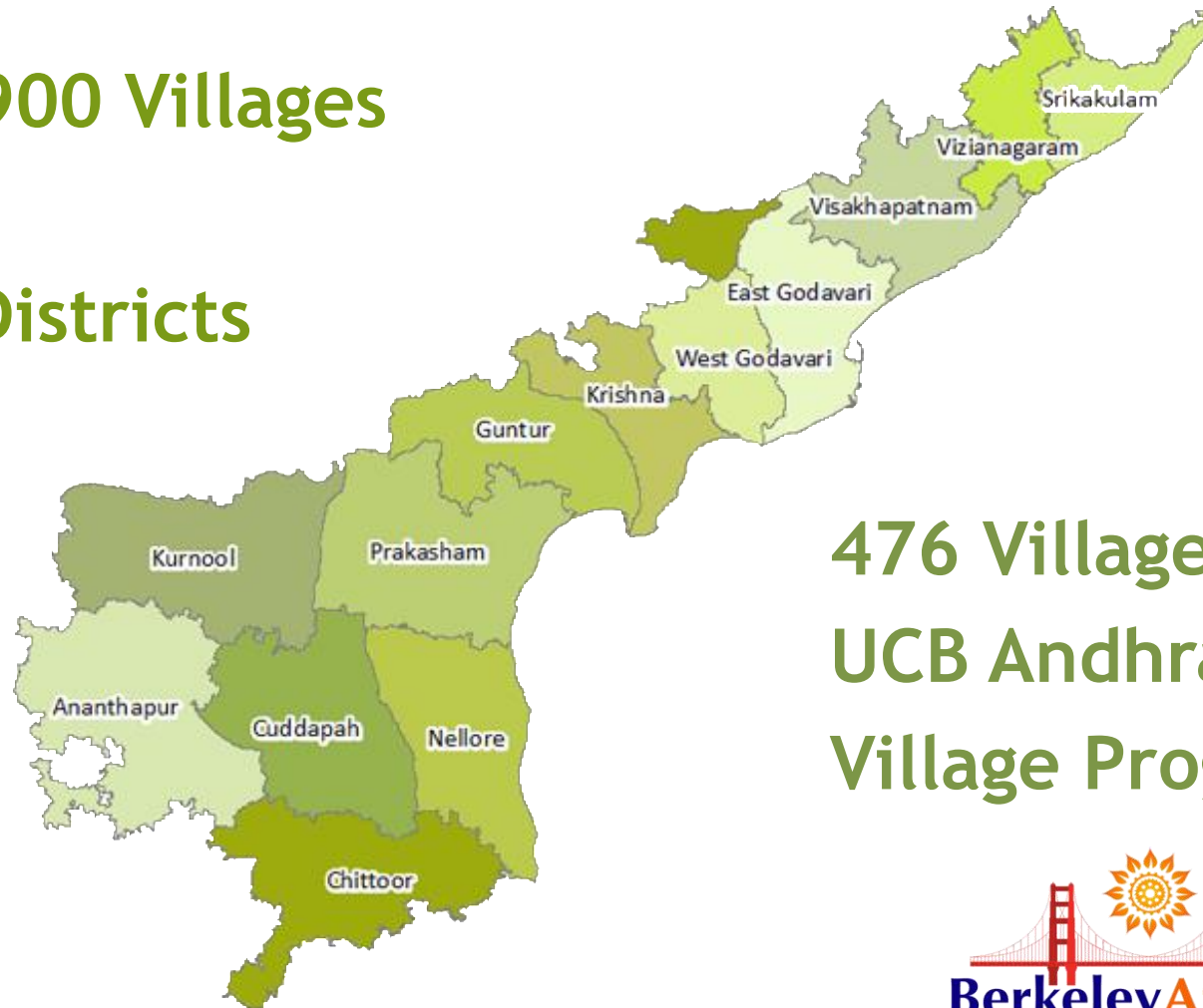
That's higher than many countries' total daily waste generation taken together.



Andhra Pradesh

13,900 Villages

13 Districts



476 Villages - UCB Andhra Smart Village Programme





Challenges



Manufacturing to Scale


Demand management

Field Support requirement

Manufacture of IP protected parts

Import component count reduction

Make your own green energy

A decorative graphic at the bottom of the slide consisting of a series of vertical green bars of varying heights, creating a wavy, forest-like effect.

Amaravati: Vision to be world class capital



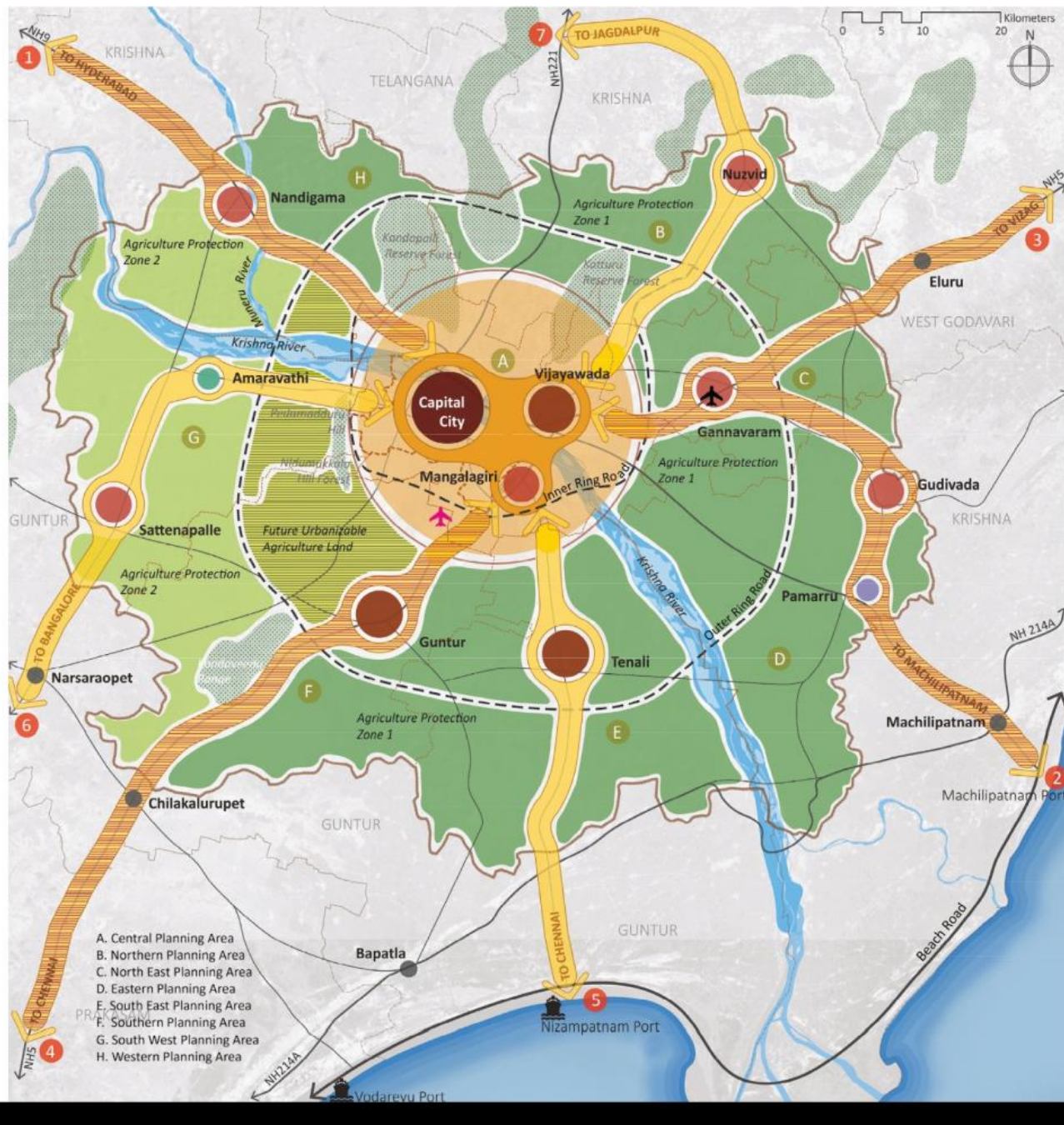
- Jobs for all
- World Class Infrastructure
- Quality of living
- Identity and heritage
- Efficient Resource Management
- Clean and Green



GREEN PLAN

The master plan designed by the Singapore government for AP's new capital Amaravathi marks 21% of the total area of 217 sq. km for a green network. It envisages creating 5.6 million jobs in the city and its environs that will be home to 13.5 million people by 2050.

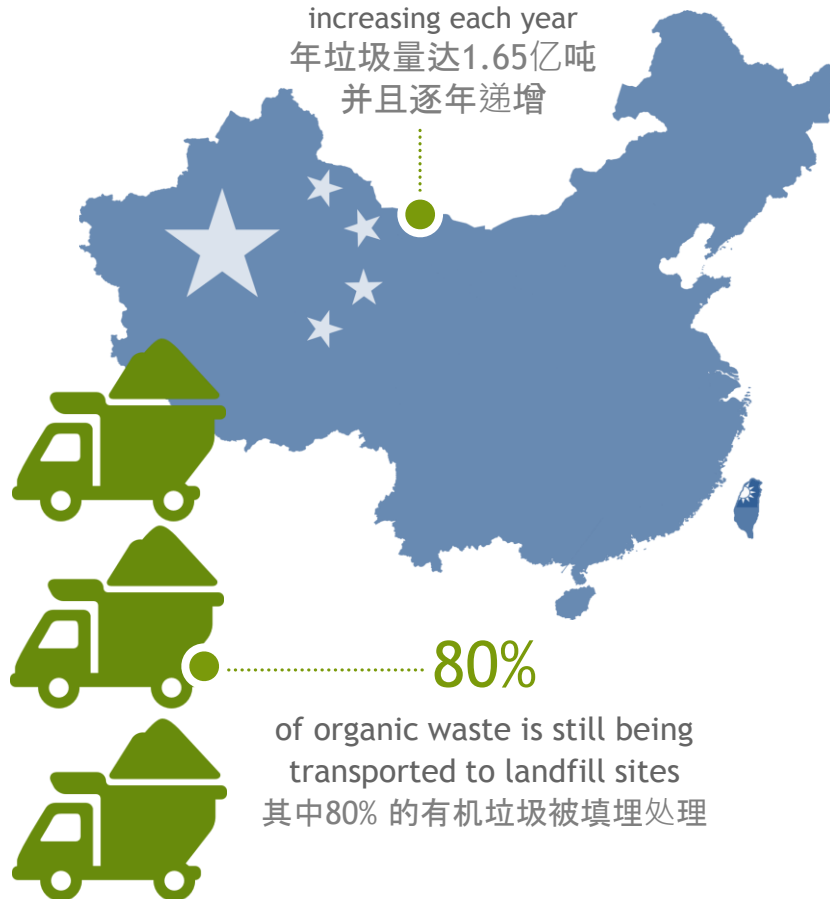
-  Urban growth corridors
-  Central mega city
-  River
-  Forest
-  Capital city
-  Existing key city
-  Key city outside capital region boundary
-  Potential tourism centre
-  Potential logistic centre
-  Agriculture protection zone 1
-  Agriculture protection zone 2
-  Future city expansion area
-  Priority development corridors
-  Ring road/city bypass
-  National highway
-  State road
-  Airport
-  Reserve for future airport
-  Port
-  Planning boundary



165M tonnes

of annual organic waste in China,
increasing each year

年垃圾量达1.65亿吨
并且逐年递增



现存问题:

1. Increasing organic waste production, processed mainly via landfill or incineration with low energy recovery.
与日剧增的有机垃圾量, 其中绝大多数被填埋和焚烧处理
2. Conventional, centralised waste processing methods require waste transport, adding to the processing costs and carbon emissions.
传统的垃圾集中式处理涉及到垃圾的转移及运输, 因此增加了处理成本以及运输过程中产生的温室气体
3. Getting remote locations connected to power and water supply and appropriate waste disposal remains challenging.
一些边远地区的能源紧张问题以及垃圾处理设施的挑战

The power of waste



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Thank You