# The state of the circular economy: waste valorization in Hong Kong and Rotterdam

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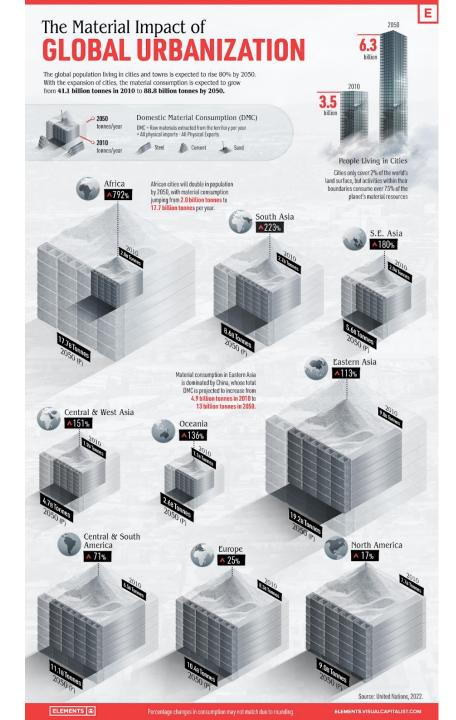
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### In 2050

+ 100% materials globally

+800% in Africa

+ 25% in Europe

60% of all global waste is from construction

**Renovation** generates 30 times more waste than construction

A fully urban material stream

High (urban) circularity gap

High risk: 6-12% of GDP is from construction industry

### Reuse is good but it does not equal reduction

How to set up a CDW value chain that thrives out of the reuse and downscaling of waste

How to transition from a large one that exploits raw materials?

## 3 challenges

### The responsibility of waste management

- High costs + low value = high public responsibility
- Which regulations for higher value waste?

### The **geography** of waste infrastructures and locations

- From global to regional waste facilities
- Which new regional infrastructures?

#### The discourses on the economic value of waste

- From a problem to a development opportunity
- Which political strategies to create a circular building coalition?

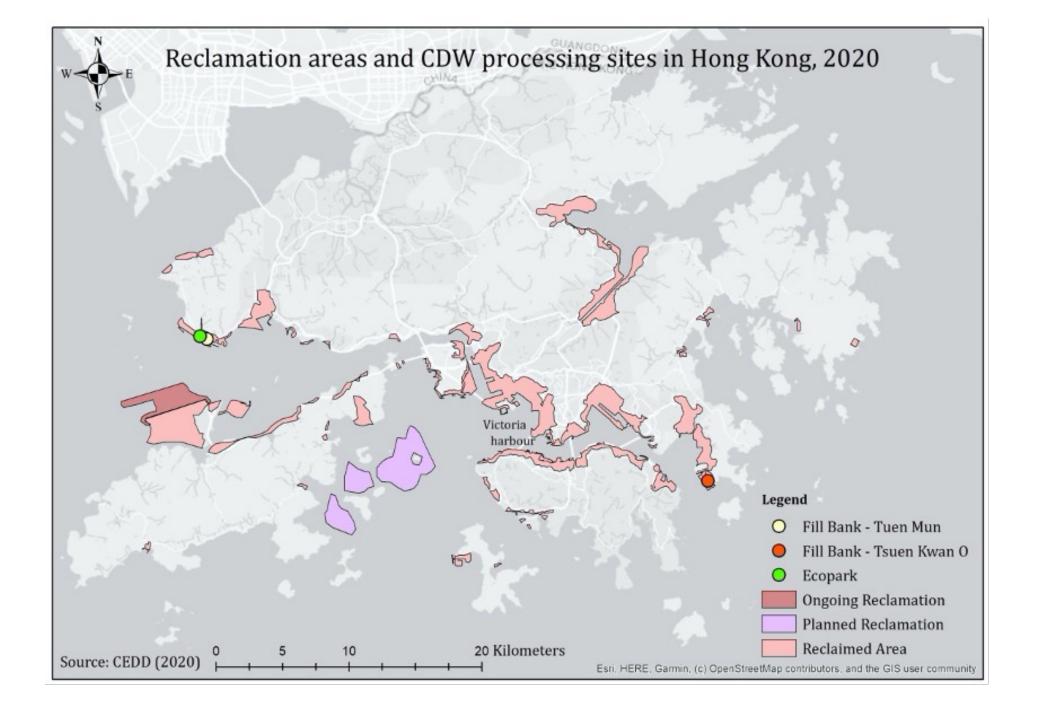
# 2 cases of city-regions

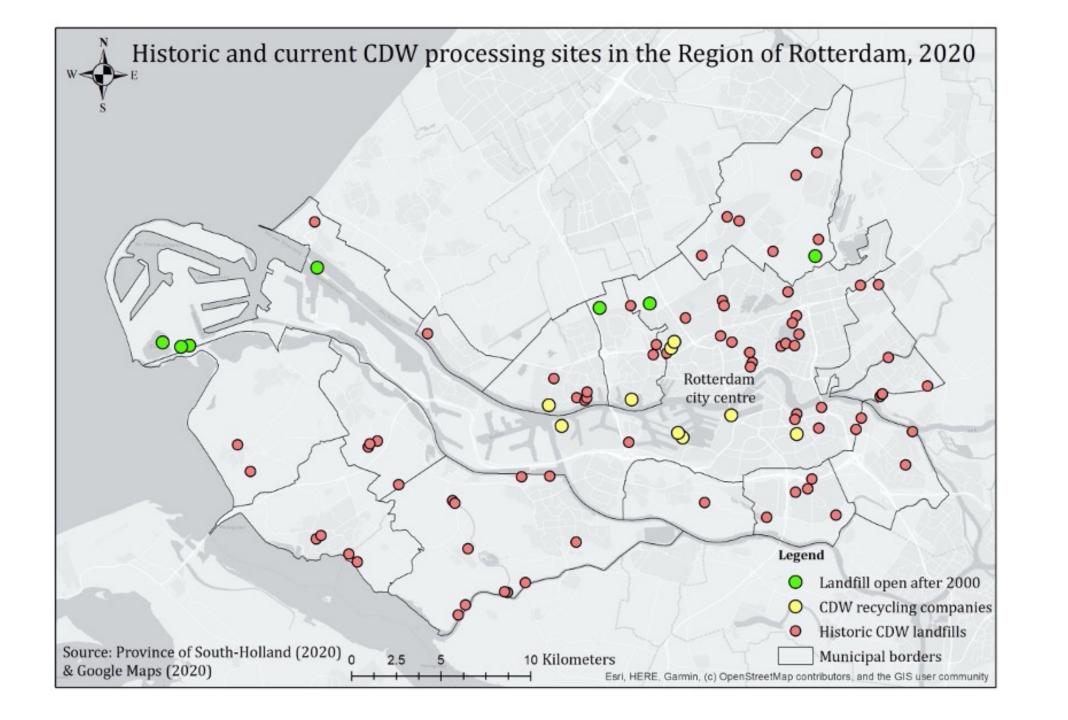
Hong Kong & Rotterdam

Why this comparison?
Similarities
Differences

The valorization of waste







	Post-war	1970s – 1980s	1990s – 2020s
Periods:	Waste disposal	Waste management	Waste valorization
Governance rationale	No restrictions or regulations on CDW	Prohibitions public regulations and (mostly) public disposal Reclamation or landfilling	Privatization, marketization, partnership. Increased landfilling charges
Geography	Scattered and local	Regionalization and displacement of unsorted components	Concentration of CDW processing capacity. Multi-utility industrial sites near agglomerations
Economic-environmental nexus	CDW Secondary to (re)construction. Resource dependency	Increasing concerns about waste's environmental burden on economy	Waste as opportunity for regional economic development
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