

COP21 COMPLIANCE AND SUSTAINABLE DEVELOPMENT THROUGH
INTEGRATED SOLID WASTE MANAGEMENT: IMPLEMENTATION
PERSPECTIVES OF THE CIRCULAR ECONOMY IN THE PEARL RIVER
DELTA AREA

By

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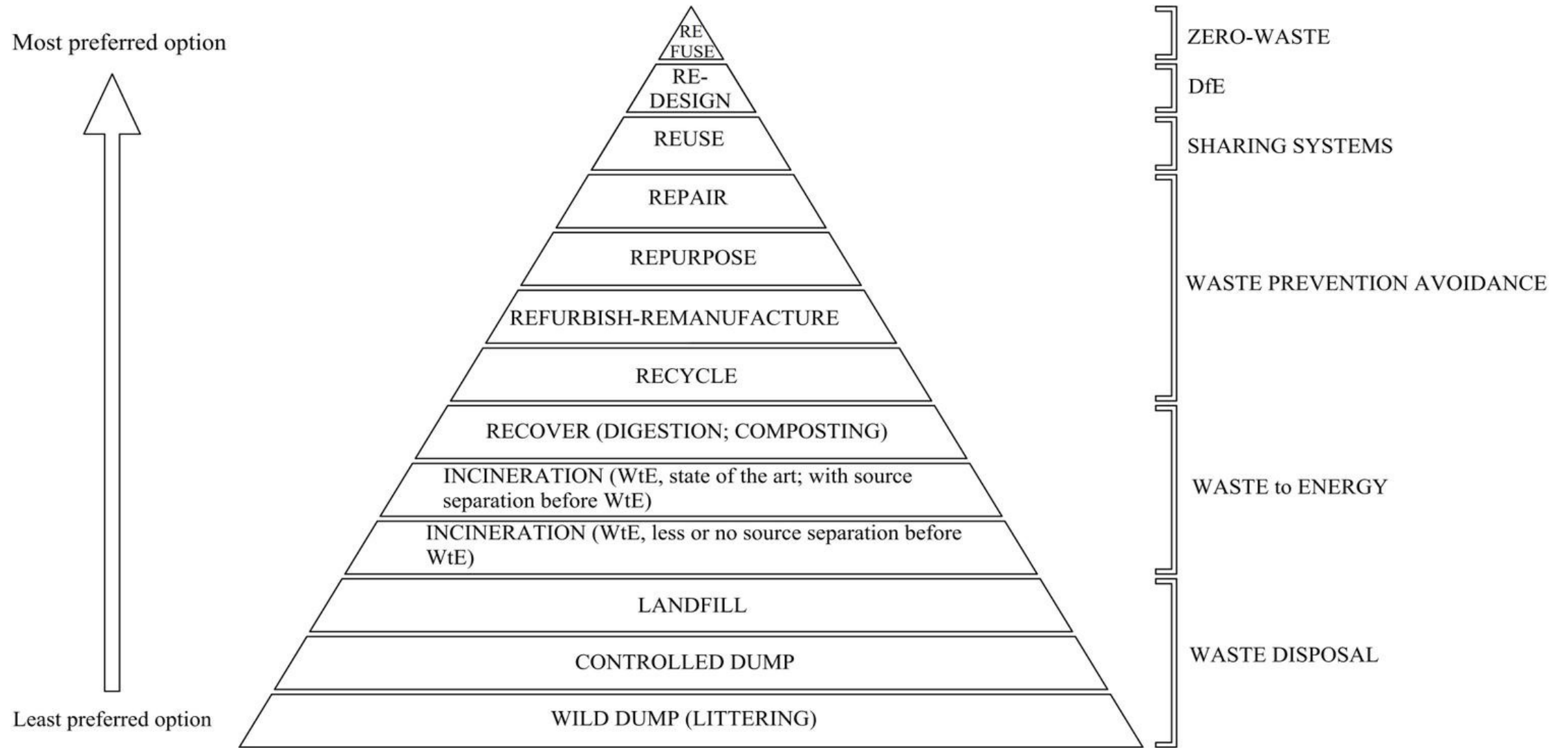
Mitigation through Waste Prevention, Minimization, and Management and Synergies Relation with SDGs (Source: IPCC2022 AR6 WG III p.54)

	SDG	IPCC 2022 AR6 WG III (p.54)	Remark
1	No poverty	Synergies (high confidence)	FLW prevention
2	Zero hunger	Synergies (medium confidence)	FLW prevention
3	Good health and wellbeing	Both synergies & trade-offs (medium confidence)	Recycling and No-to-Littering (NtL)
4	Quality education		Recycling and NtL
5	Gender equality		
6	Clean water and sanitation	Synergies (high confidence)	Recycling and NtL
7	Affordable and clean energy		Recycling and NtL
8	Decent work and economic growth	Both synergies & trade-offs (medium confidence)	
9	Industry, innovation and infrastructure	Synergies (high confidence)	

Mitigation through Waste Prevention, Minimization, and Management and Synergies Relation with SDGs (Source: IPCC2022 AR6 WG III p.54)

	SDG	IPCC 2022 AR6 WG III (p.54)	Remark
10	Reduced inequalities		FLW prevention
11	Sustainable cities and communities	Synergies (high confidence)	FLW prevention Recycling and no littering
12	Responsible consumption and production	Both synergies & trade-offs (high confidence)	FLW prevention Recycling and no littering
13	Climate action		FLW prevention
14	Life below water	Synergies (high confidence)	Recycling and no littering
15	Life on land	Synergies (high confidence)	Generation of fly & bottom ash occupy land resource
16	Peace, justice and strong institutions	Synergies (medium confidence)	FLW prevention
17	Partnership for the goals		FLW prevention Recycling and no littering

Resource & Waste Hierarchy

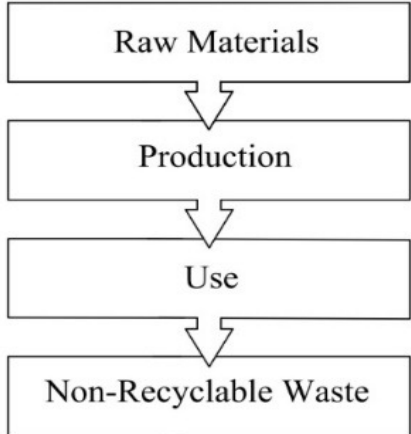


(Source: author, inspired from: Humanity on the Move 2016, p. 81)

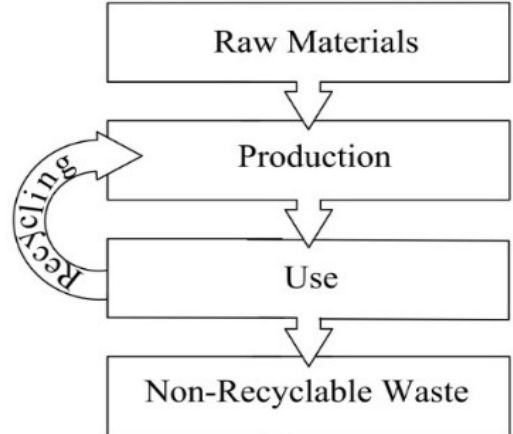
From a Linear to a Recycling to and Circular Economy

From a linear to a circular economy

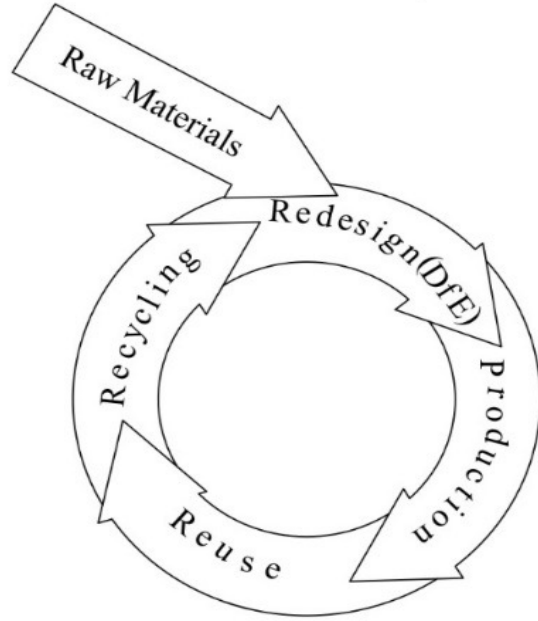
Linear economy



Recycling economy



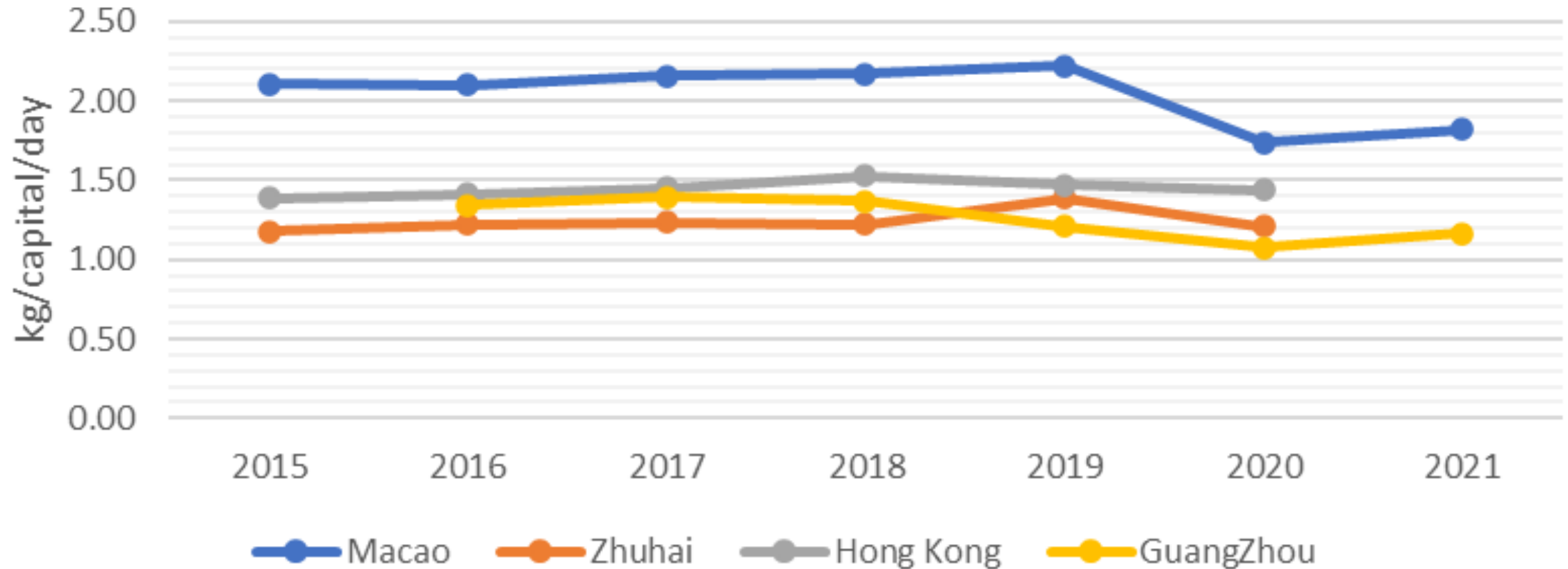
Circular economy



(Source: Author, inspired by UNEP 2019, p. 27).

Comparative Analysis, Discussion, and Critic

MSW disposal rates for Macao, Zhuhai, Hong Kong, Guangzhou from 2015-2021



(Environmental Protection Bureau Macao SAR, 2022) (Statistics Bureau of Zhuhai, n.d.)(Hong Kong Environmental Protection Department, n.d.-h)(Guangzhou Municipal Ecological Environment Bureau, n.d.)

Thank You for Listening !!!

Q & A