



WASTE MANAGEMENT AND THE TRANSITION TO A CIRCULAR ECONOMY

OECD EXPERIENCE AND IMPLICATIONS FOR EMERGING ASIA

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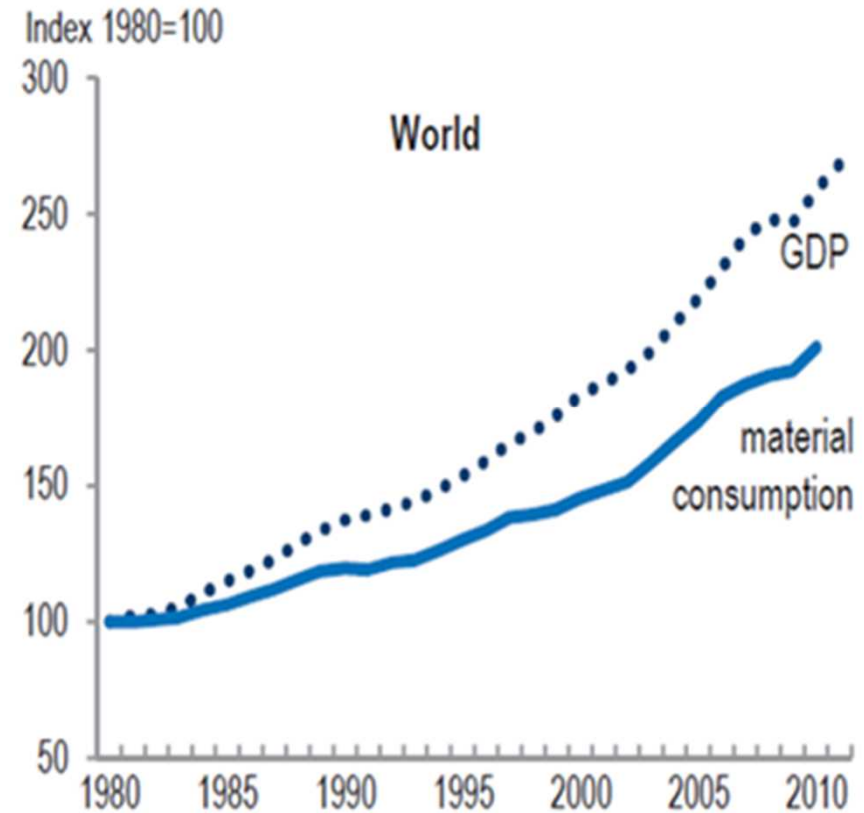
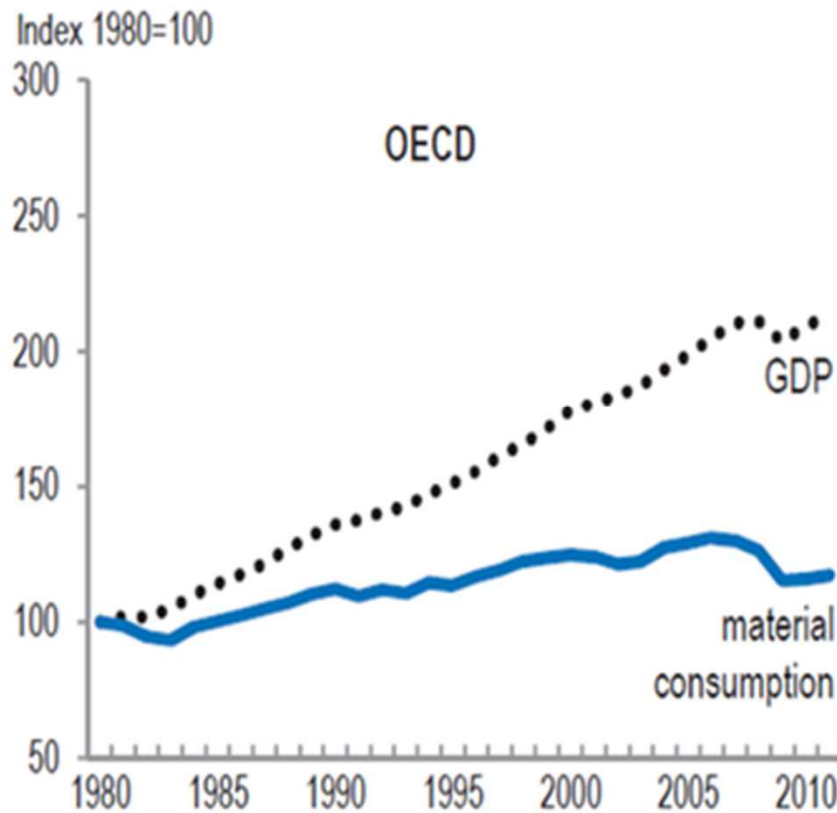
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Some progress on decoupling materials consumption from economic activity

Decoupling trends, OECD and world, 1980-2010



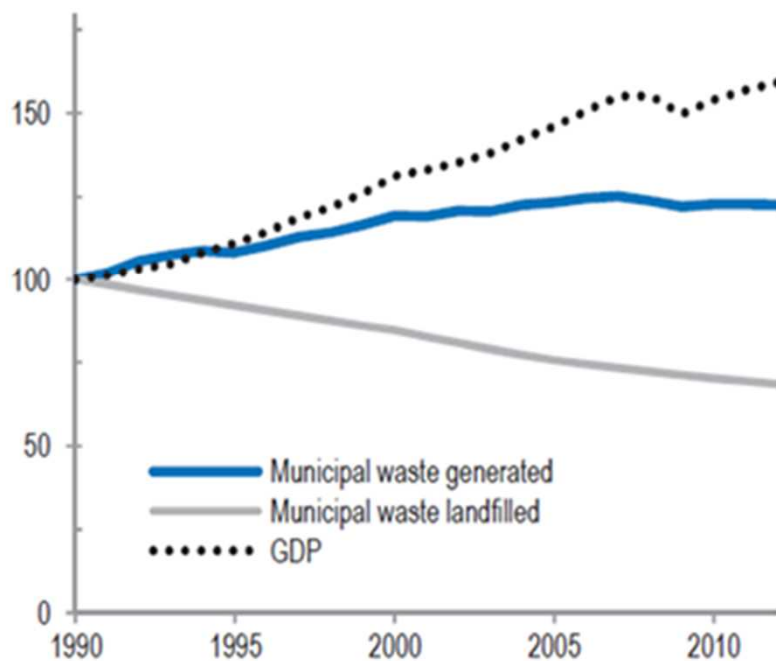
Source: SERI/WU (2014) material flows database. www.materialflows.net



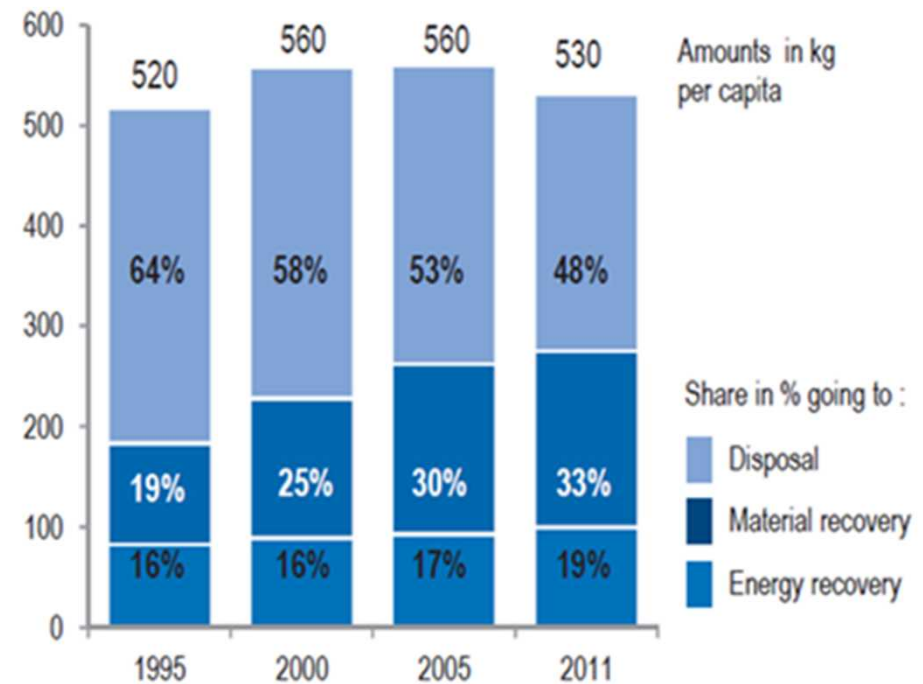
Decoupling downstream

Trends in municipal waste, OECD

Decoupling trends,
municipal waste generation versus GDP, OECD, 1990-2012



Municipal waste management,
recovery and disposal rates, OECD, 1995-2011



Source: OECD (2014), "Municipal waste", *OECD Environment Statistics* (database).



Progress and challenges in an OECD context

- Decoupling materials consumption and waste generation.
- Greater use of economic instruments (e.g. Landfill and Incineration Taxes and Extended Producer Responsibility).
- Resource Efficiency increasingly part of overarching national strategies.

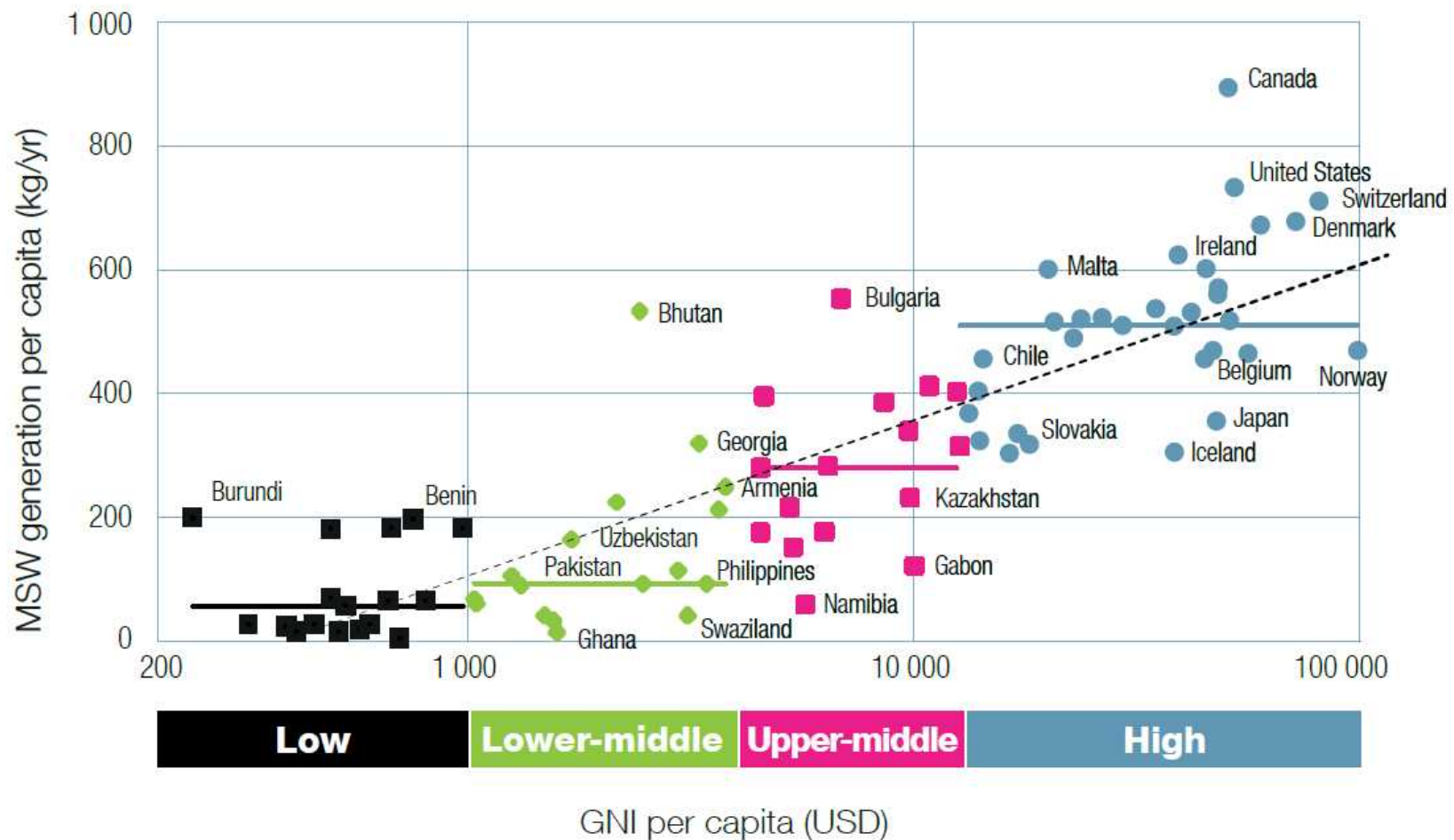
But

- Policy landscape remains fragmented to address specific materials, products, lifecycle stages, market players.





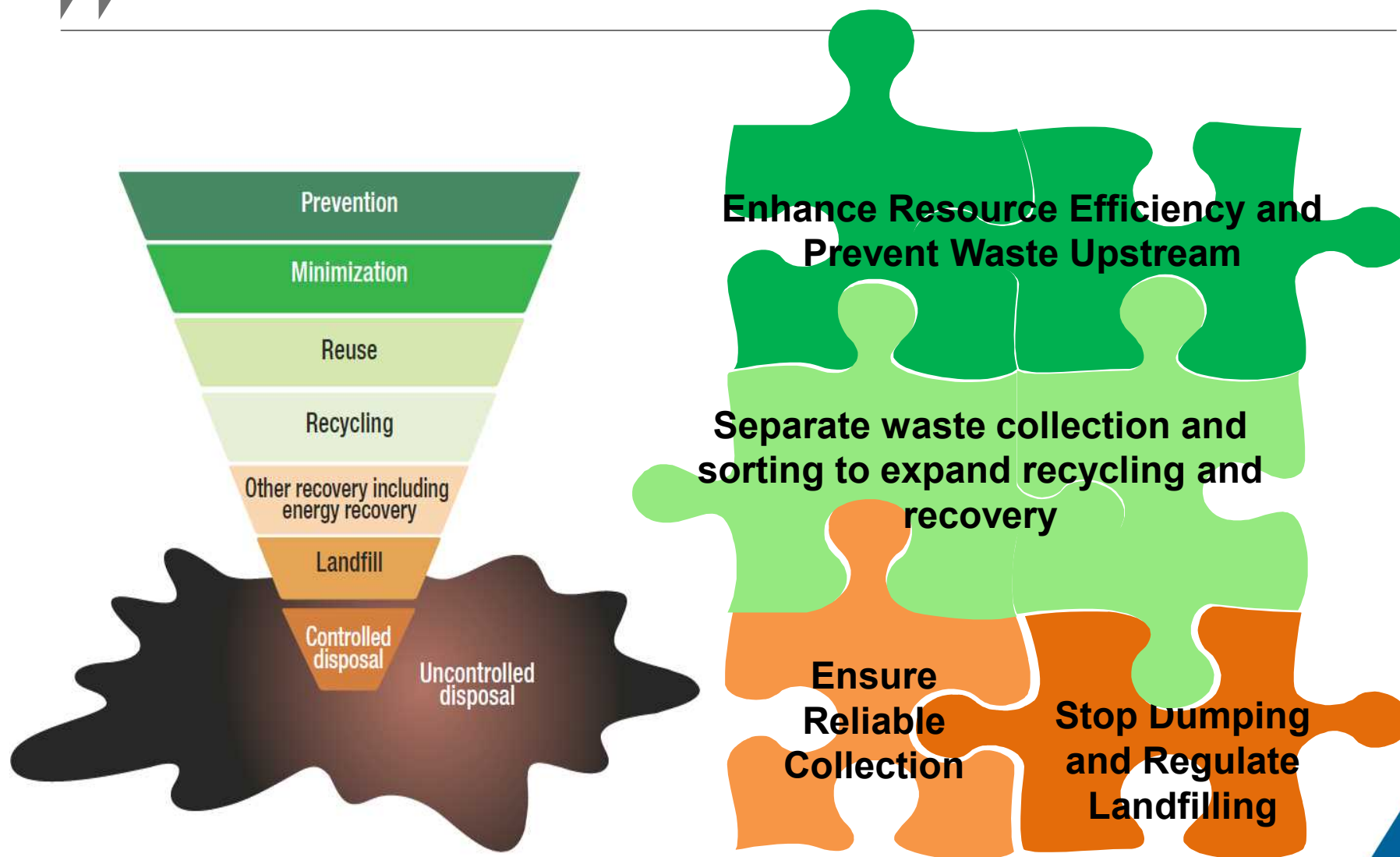
Overall, Municipal Solid Waste per capita continues to track income levels



Source: UNEP and ISWA (2015)



Challenges and priorities for Emerging Economies

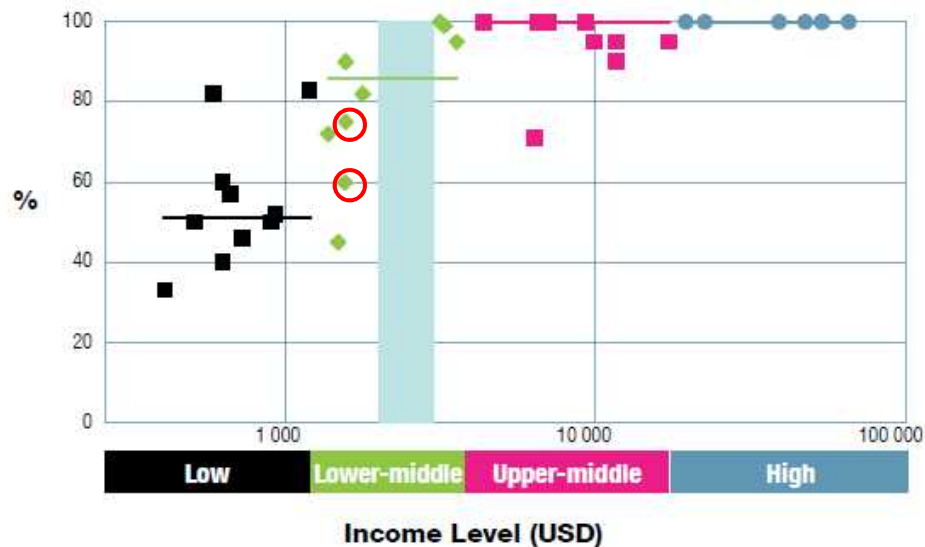


Source: UNEP and ISWA (2015)



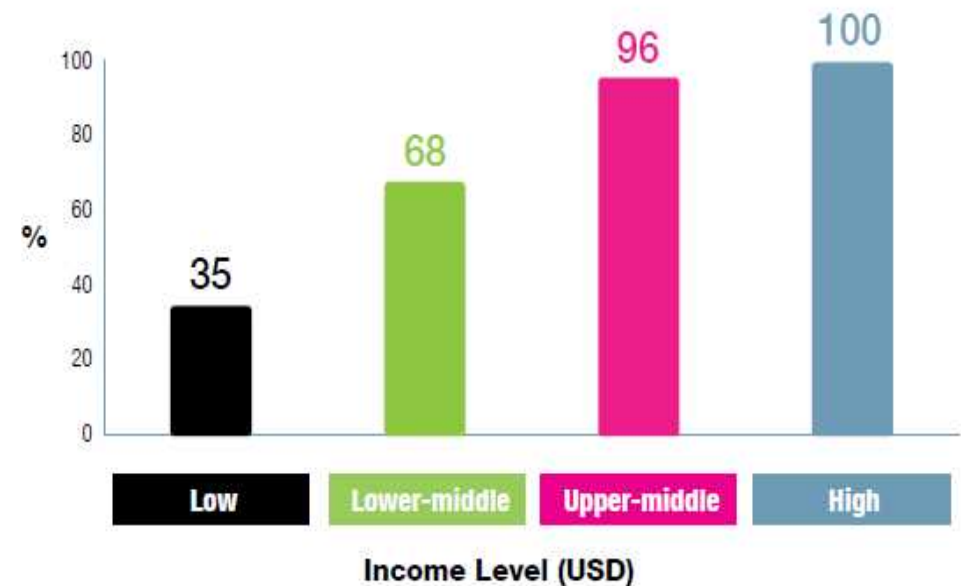
1. Close the waste collection gap, stop dumping

Waste collection coverage



Note: 2012 data for selected cities.

Controlled disposal rate



Note: 2012 data for selected cities.





2. *Ensure waste separation at the source*





3. Integrate informal workers in the formal sector





4. *Ensure foresight and flexibility to avoid stranded assets*





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<http://www.odishanewsinsight.com>



5. Embed infrastructure decisions within a broader policy framework

Strategic and political governance

- Legal basis
- State institutions to enforce regulation
- Entities in charge of waste management

Social development

- Informal sector integration
- Environmental awareness

Strengthening the recycling market

- Secondary materials
- Repair and refurbishing sector

Policy instruments ensuring finance and cost coverage

Regulatory enforcement





Thanks for your attention

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