

How Technology Shaped the Future of Recovered Paper Markets

Vivian Ou





IOT Devices (sensors)

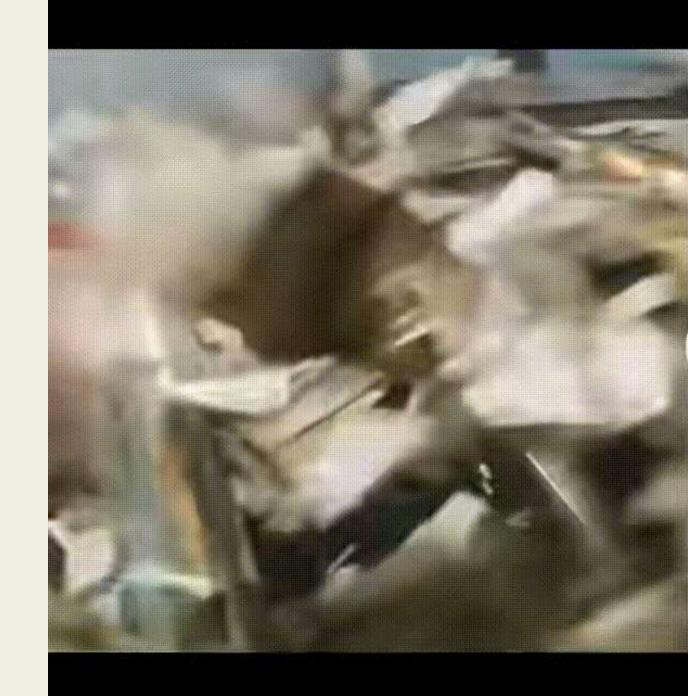
4G IOT Garbage Can Monitor







Optical Sorter





Auger Screen



Robots



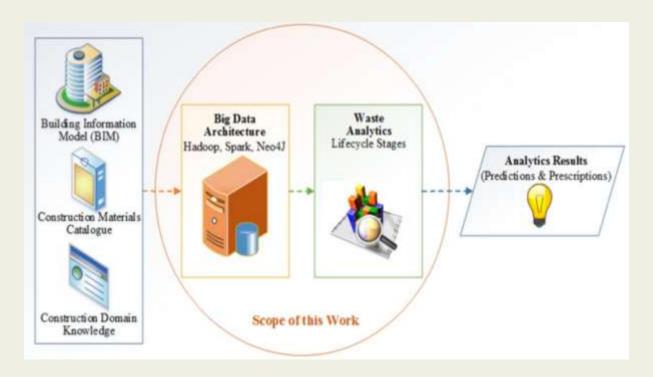
Robotics Arms

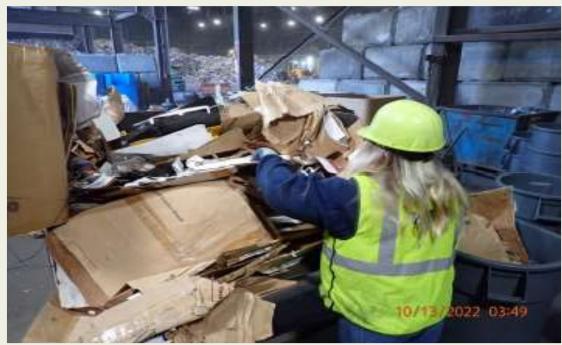


Human Sorting



Big data analyze vs Human Sorting







ASEAN Recovered **GDP Growth: 7.09%**; Import Volume: 3.9M tons; **Paper Market** (In 2024) GDP Growth: 5.4%; CAMBODIA Import Volume: 0.8-1.0M tons; GDP Growth: 2.5%; Import Volume: 1.9-2.9M tons; BRUNE GDP Growth: 4.4%; Import Volume: 0.1-0.2M tons; GDP Growth: 5.1%; **Import Volume: 3.8M tons;** GDP Growth: 5.0%; Import Volume: 1.9M tons;



Milestone of quality control polices of ASEAN

Indonesia

Implemented 100% preshipment inspection on recovered paper import in Apr. 2019; Added 2% contamination limit in 2020.

Malaysia

Mandatory inspection via SIRIM for import recovered paper in Jan. 2022, with a ban on mixed paper.

Myanmar

Issued guideline for importation and inspection of recovered paper under custom in Dec. 2021.

Philippines

Started standard development in 2022.

Thailand

Banned plastic waste in 2019; Set contamination limit of 2% on import recovered paper in Apr. 2025.

Vietnam

Stopped issuing license for mixed paper import in Jul. 2018; Implementation of 2% impurity limit for RCP in Oct. 2018; Banned mixed paper import in Jan. 2022.







WM Snapshot¹ (NYSE: WM)

Houston, TX
Headquarters

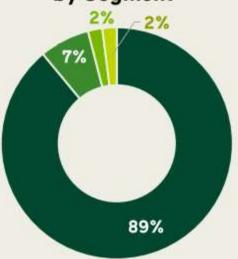
1971 Founded

\$97B Market Cap²

~62k Employees³ **\$22.1B** 2024 Revenue

\$6.6B 2024 Adj. Operating EBITDA⁴

2024 Revenue by Segment⁴



- Collection and Disposal
- Recycling
- Healthcare Solutions
- Renewable Energy

Vertically-Integrated Asset Network with Unmatched Size and Scale³

Recycling Facilities

WMHS Facilities

WM Asset Network

506

Solid and Medical Waste Transfer facilities 262

Active solid waste landfills

105 Recycling facilities 497
Hauling operations

69 Autoclaves

Medical Waste Incinerators

WM Asset Locations



- 1. Waste Management, Inc. is a holding company, and all operations are conduced by subsidiaries.
- 2. As of 5/31/2025.
- 3. As of 12/31/2024.
- 4. See the Appendix for additional information about non-GAAP measures.



2024 HIGHLIGHTS

Material is REPURPOSED

We're reimagining a circular economy.



16 million

tons of material recovered for recycling¹



3.8 million

tons of organics processed



reduction in Scope 1 and 2 GHG emissions since 2021

Energy is RENEWABLE

We're innovating for climate progress.



\$11.4 million

toward Your Tomorrow education benefits

live sustainably.

Communities are THRIVING

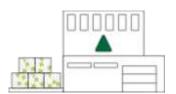
We're empowering people to



2

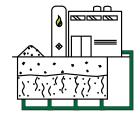
recycling facilities in new markets **10**

automation projects completed



5

new, WM-owned renewable natural gas plants brought online



6%

reduction in overall injuries compared to 2023³

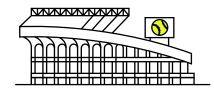
3.23

Total Recordable Injury
Rate (TRIR) safety
performance



15

Major League Baseball® Clubs and **11 additional sports venues** engaged with sustainability advisory services



45%

of landfill gas for beneficial use





18,000

acres of landfill capped to enable and enhance landfill gas capture 13,500

acres actively managed for wildlife preservation⁴





545,000

tons of annual recycling capacity added in 2024



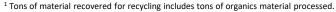
58.1 million

MMBtu of landfill gas converted to energy for sale/use²



\$27.6 million

in charitable contributions, **1% of net income** directed to social impact and workforce development programs



² Landfill gas converted to energy is a measure of energy/produced at renewable energy facilities on WM landfills, inclusive of WM-owned-and-operated and third-party.



³ Includes employees and contingent labor workforce.

⁴ Acres are actively managed through Wildlife Habitat Council certified programs.

Expected Recycling Automation Upgrades and New Markets Map



Forward Looking Statements

This document contains forward-looking statements, including all statements regarding future events, future investments and all outcomes or benefits of such investments. Such statements are based on the facts and circumstances as of the date the statements are made and are subject to risks and uncertainties that could cause actual results to be materially different. Please see Part I, Item 1A of the Annual Report on Form 10-K, and subsequent Forms 10-Q, available at investors.wm.com for information regarding such risks and uncertainties. WM assumes no obligation to update any forward-looking statement.

CONFIDENTIAL AND PROPRIETARY INFORMATION OF WM





2024 HIGHLIGHTS

16 million tons
 of material recovered for recycling¹

12

new or upgraded recycling facility projects

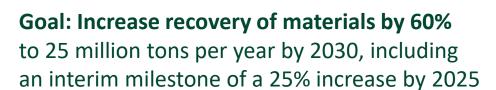
545,000 tons

annual recycling capacity added in 2024

3.8 million tons

of organics processed

OUR CIRCULARITY PROGRESS



- 5% increase in materials recovery since 2021
- 25 out of 39 planned recycling growth projects complete by the end of 2024
- On track to invest over \$1.4 billion in recycling infrastructure from 2022 to 2026
- Expected to increase annual recycling capacity by 2.8 million tons by 2026





¹ Tons of material recovered for recycling includes tons of organics material processed.

Quality Upgrade



Mixed Paper



Premium SRPN



Impact on the ASEAN RCP Market

Opportunities

- Reduce risk at custom
- Reduce mill down time
- Improve mill efficiency and product consistency
- Supports ASEAN's sustainability goals

Challenges

 Confusion of prices due to different qualities



Thank you

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