SEA of Solutions

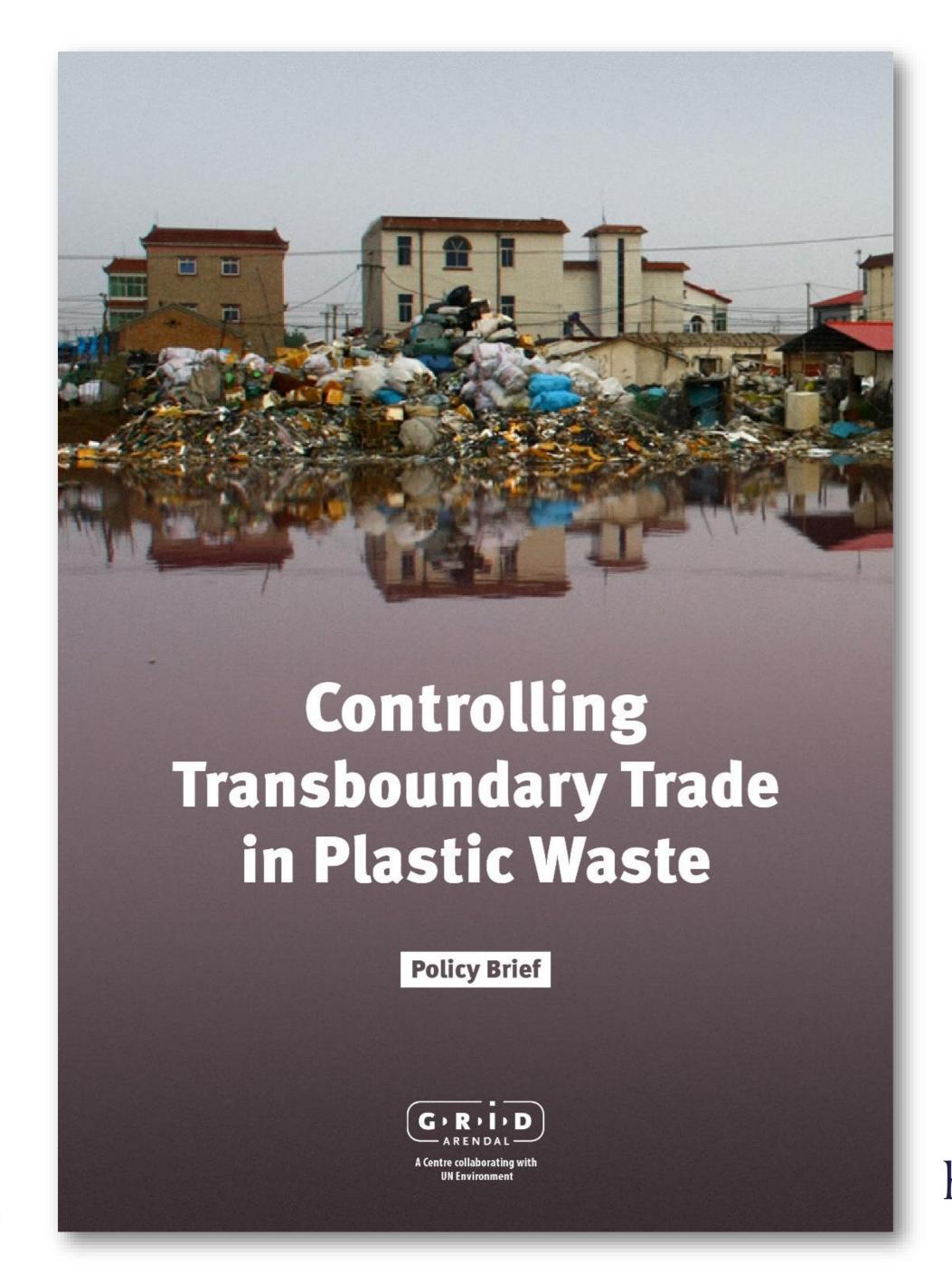
partnership week for marine plastic pollution prevention 11-14 november 2019

Controlling transboundary trade in plastic waste

MARIA TSAKONA WASTE MANAGEMENT EXPERT

NOVEMBER 2019

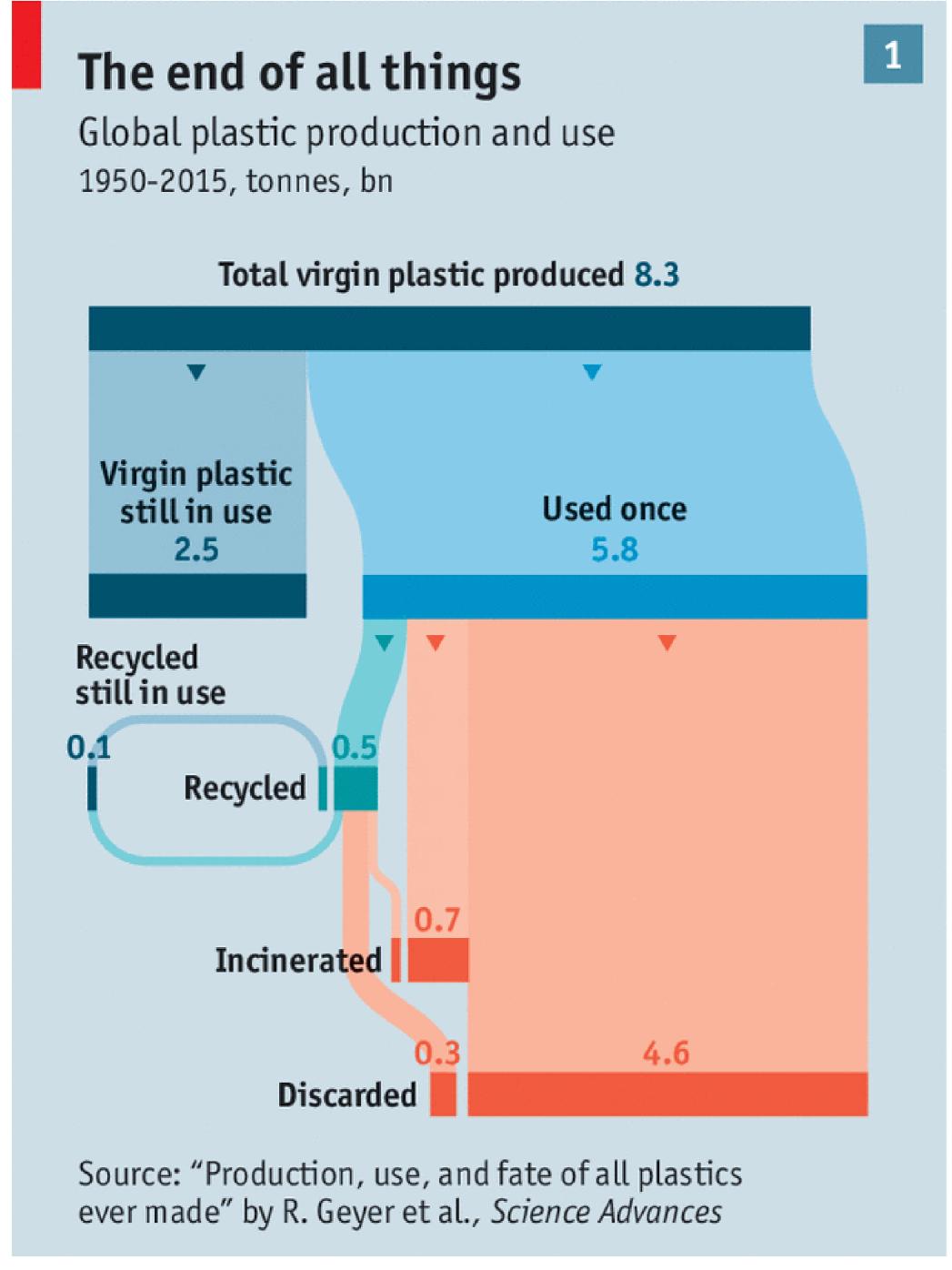




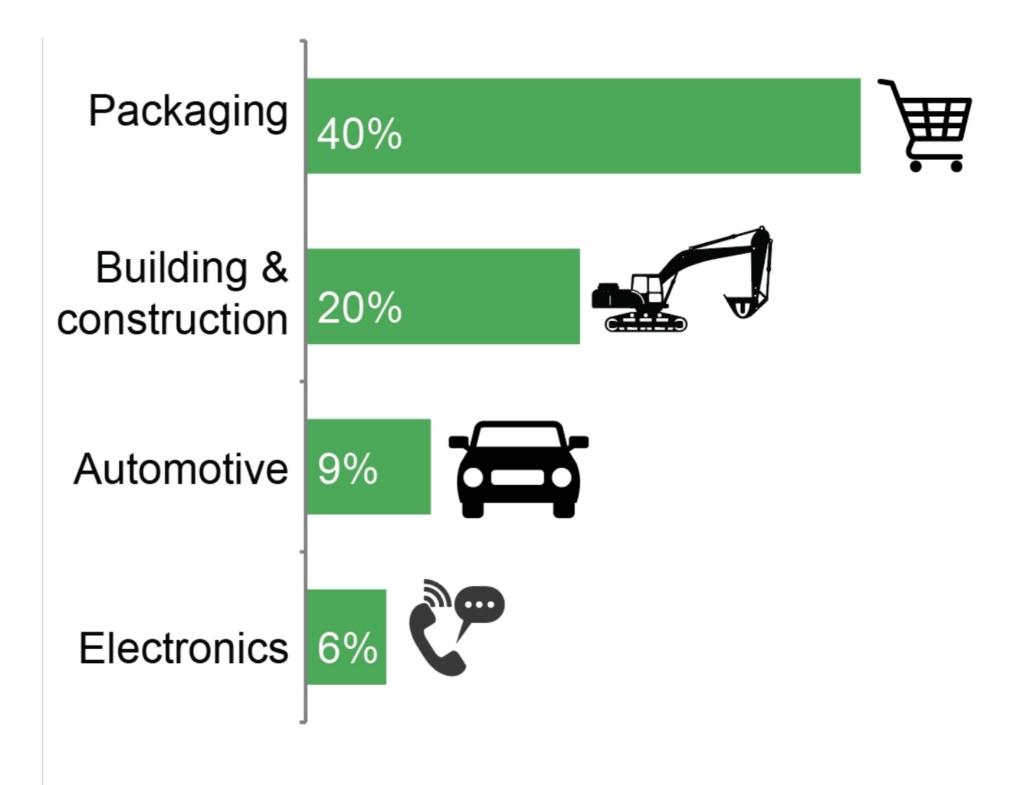
- 1. Flaws in the current global recycling model
- 2. Impacts of plastic scrap transboundary movement
- 3. Recommendations



http://www.grida.no/publications/443



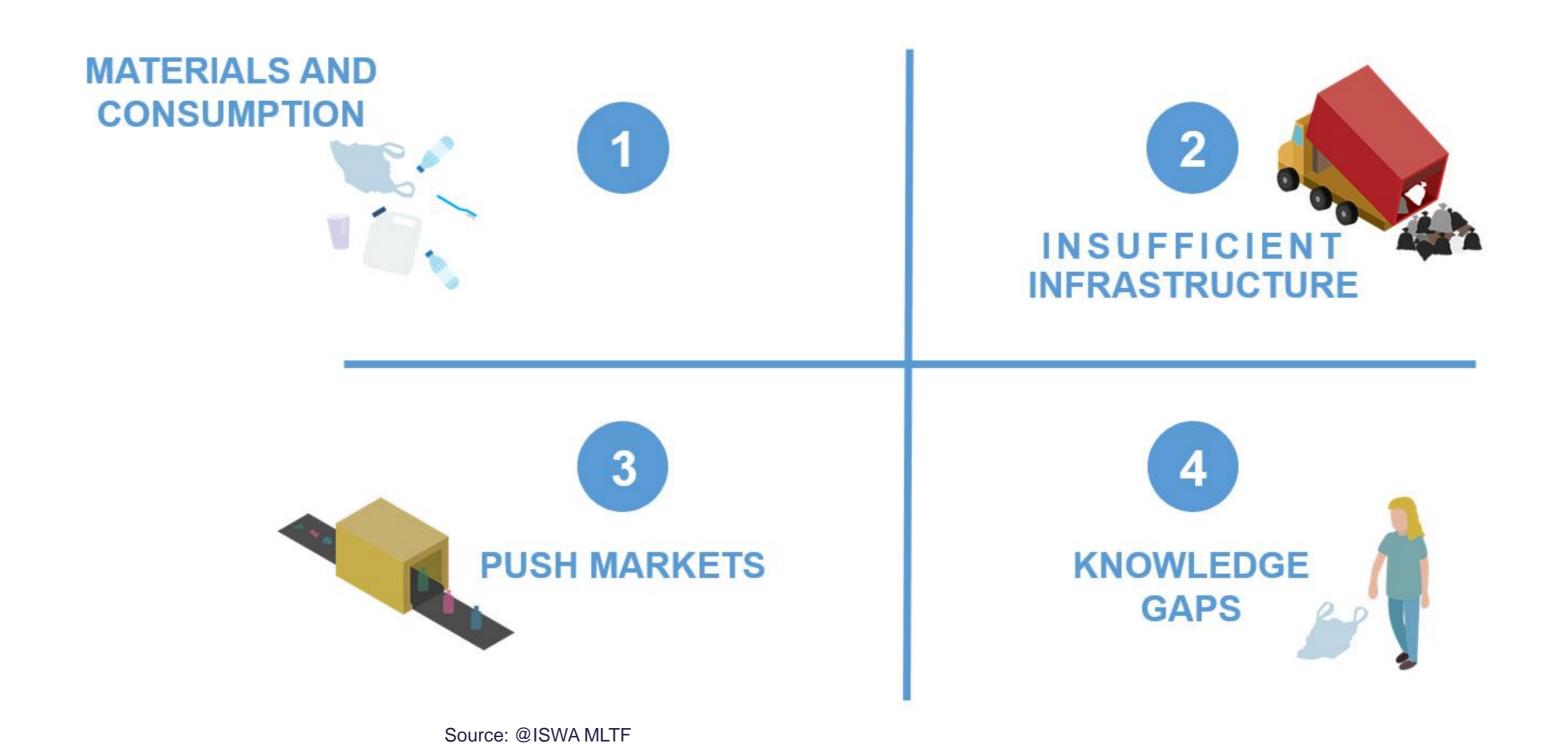
THE GLOBAL PLASTIC INDUSTRY



Source: IHS Markit.

GLOBAL PLASTIC RECYCLING ONLY 9%

GLOBAL SYSTEMIC FAILURES





FLAWS IN THE CURRENT GLOBAL RECYCLING MODEL

Drivers of plastic leakages from collected waste

POLICY

- High recycling targets in developed countries that heavily rely on transboundary movement.
- Emerging trade restrictions in recipient countries starting with China and followed by other countries.
- Under current regulations, scrap plastic does not require control for the transboundary movement.
- Lack of traceability or obligation for exporters to demonstrate the environmental performance of exported waste recycling.

COMPLIANCE

- Existing international trade codes do not match control requirements. This promotes low accountability and transparency throughout the value chain.
- Weak enforcement of pollution control in recipient countries.
- Competent authorities in waste importing countries lack capacity to monitor the amount of waste entering their territories.

MARKET INDICATORS

- Low grade, mixed, unsorted and contaminated scrap plastics are costly to process and have little or no market value.
- Low oil and gas prices make virgin plastic cheap and undermine the market for secondary plastic feedstock.
- Global trade deficit with China lowers return shipping costs.
- Low demand for recycled feedstock and materials.
- Lower environmental controls, working standards and cheaper labour make it cost effective to export waste to emerging economies.



FLAWS IN THE CURRENT GLOBAL RECYCLING MODEL

Drivers of plastic leakages from collected waste

WASTE MANAGEMENT, TRANSPORTATION AND TECHNOLOGY

- Insufficient recycling and technological capacity along with high capital and operational costs in industrialized countries.
- Despite advancing methodologies to recycle plastic, there are still technological shortfalls that make sorting scrap plastic challenging
- Low-tech recycling at emerging economies
- Delays in transportation trade hubs e.g., over-supply at ports in emerging scrap plastic markets.

CULTURE

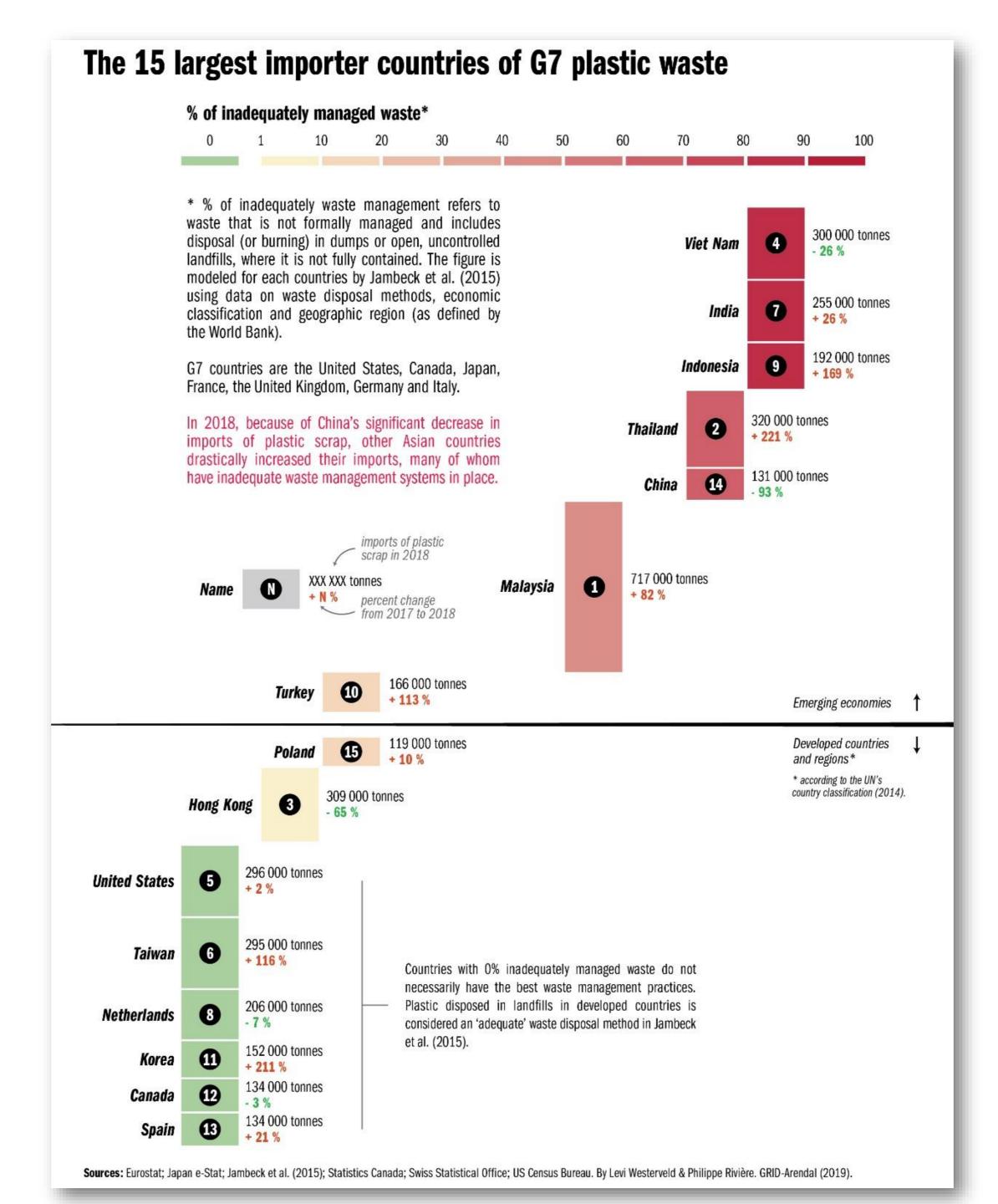
- Single-use plastic consumerism trends.
- While some plastic products such as building materials have long lifecycles, the majority of plastic products have a short lifetime lasting between one day and two years.



Chinese import restriction -2018

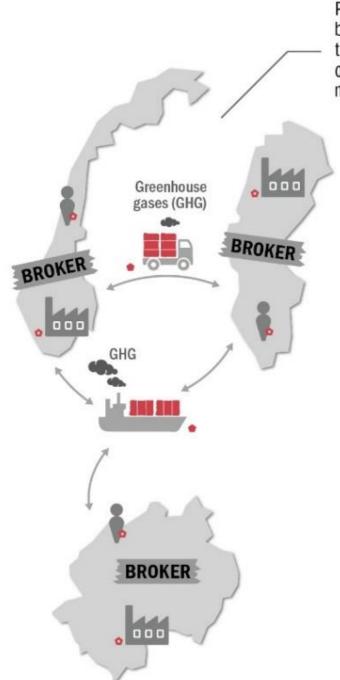
Asian countries drastically increased imports

Inadequate waste management systems





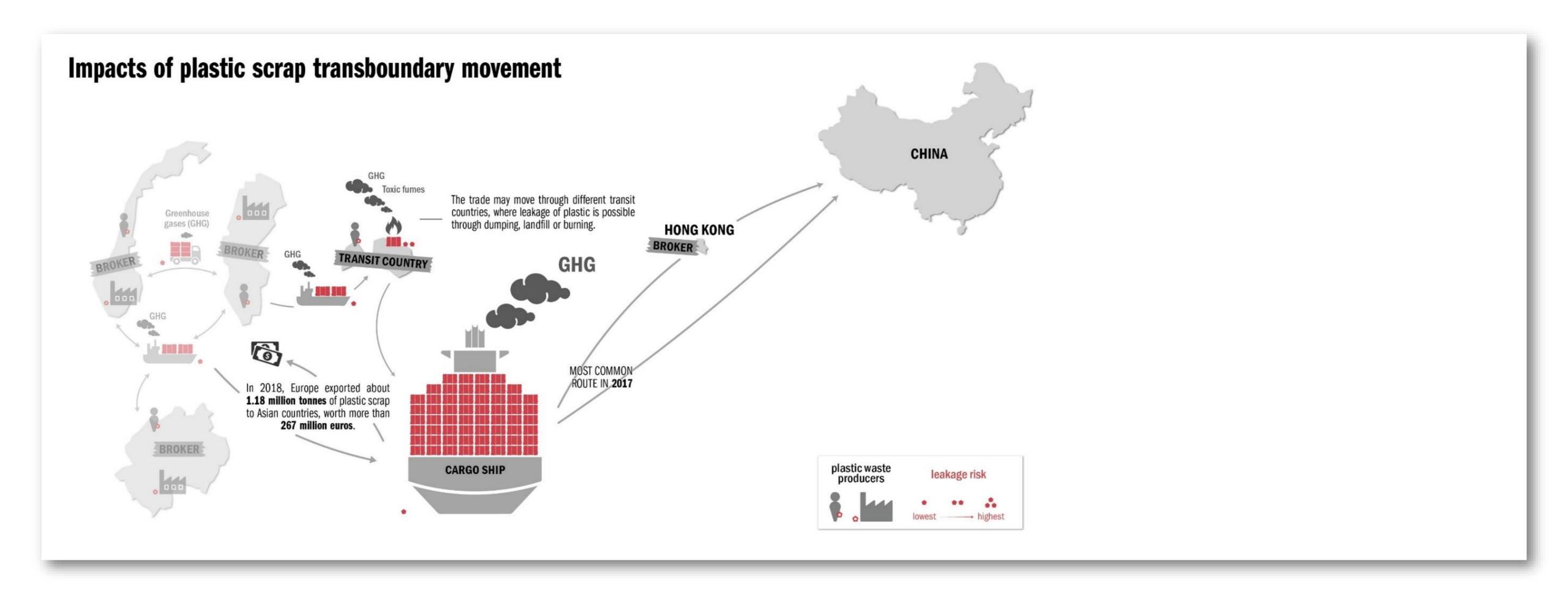
Impacts of plastic scrap transboundary movement



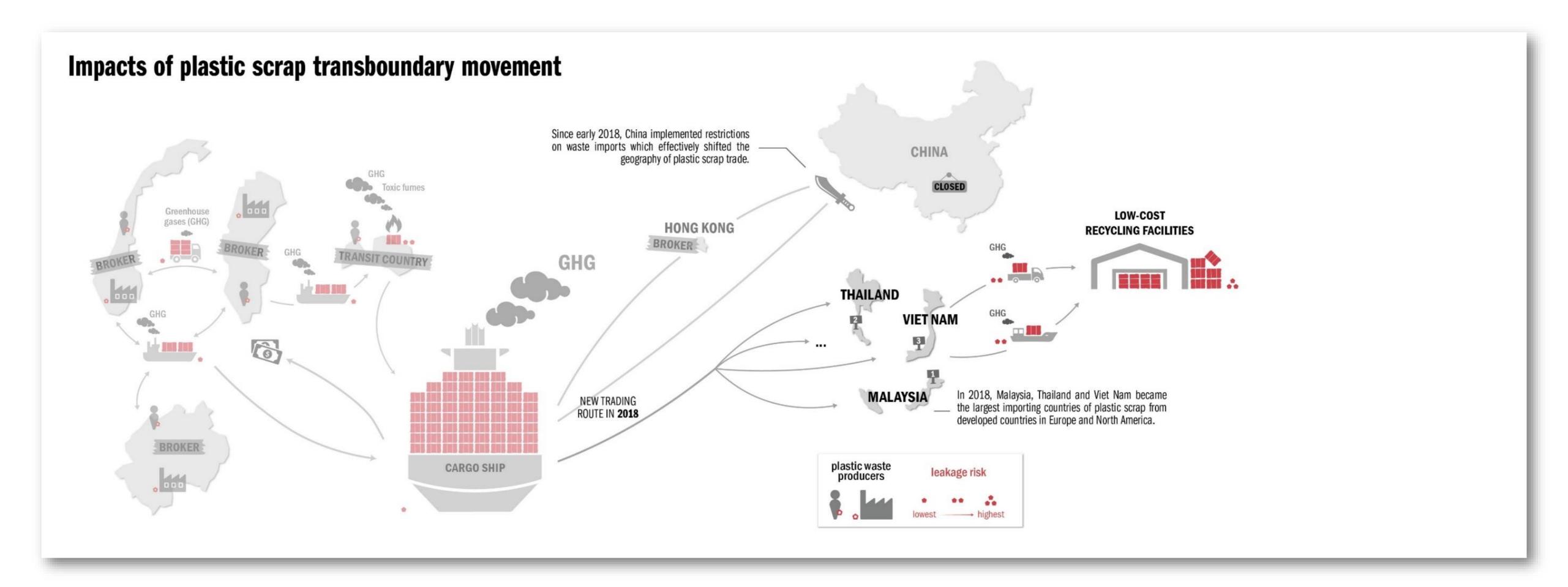
Plastic scraps are traded continuously between businesses across countries such as in the EU. This trade leads to GHG emissions in the air and escapes of macro and micro-plastics into the terrestrial and marine environments during transportation.



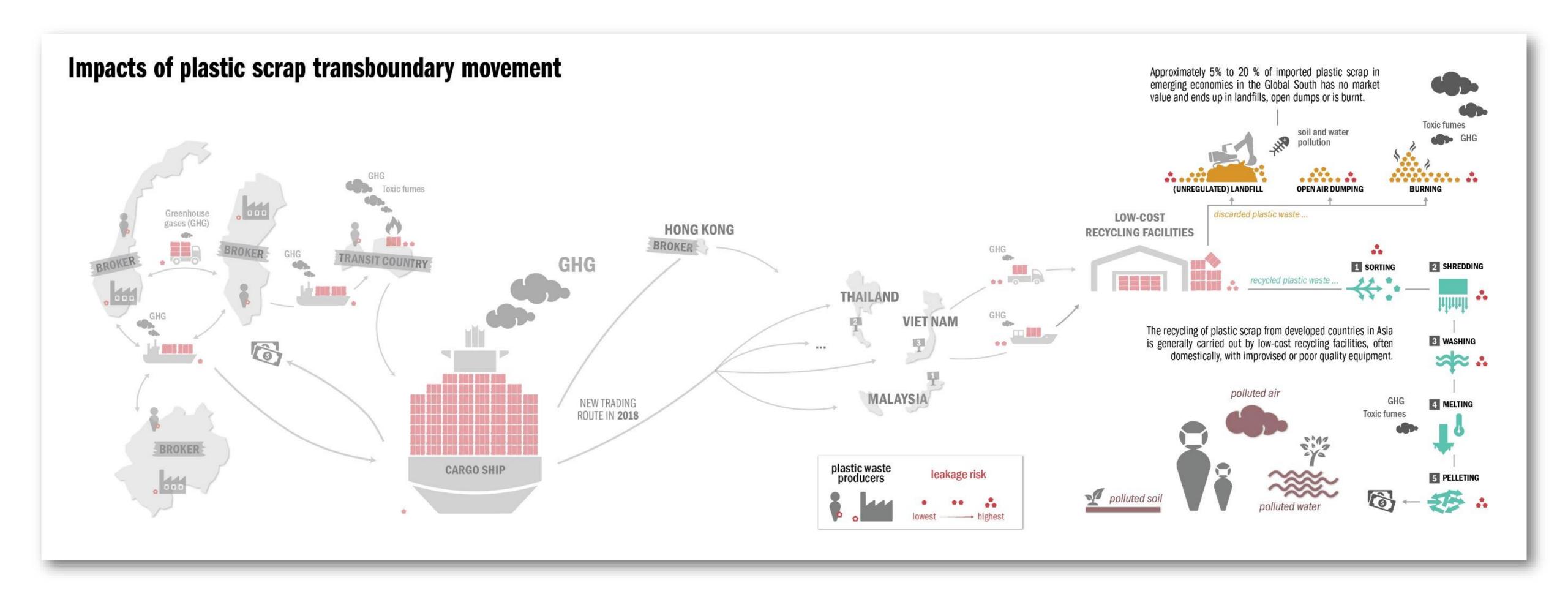






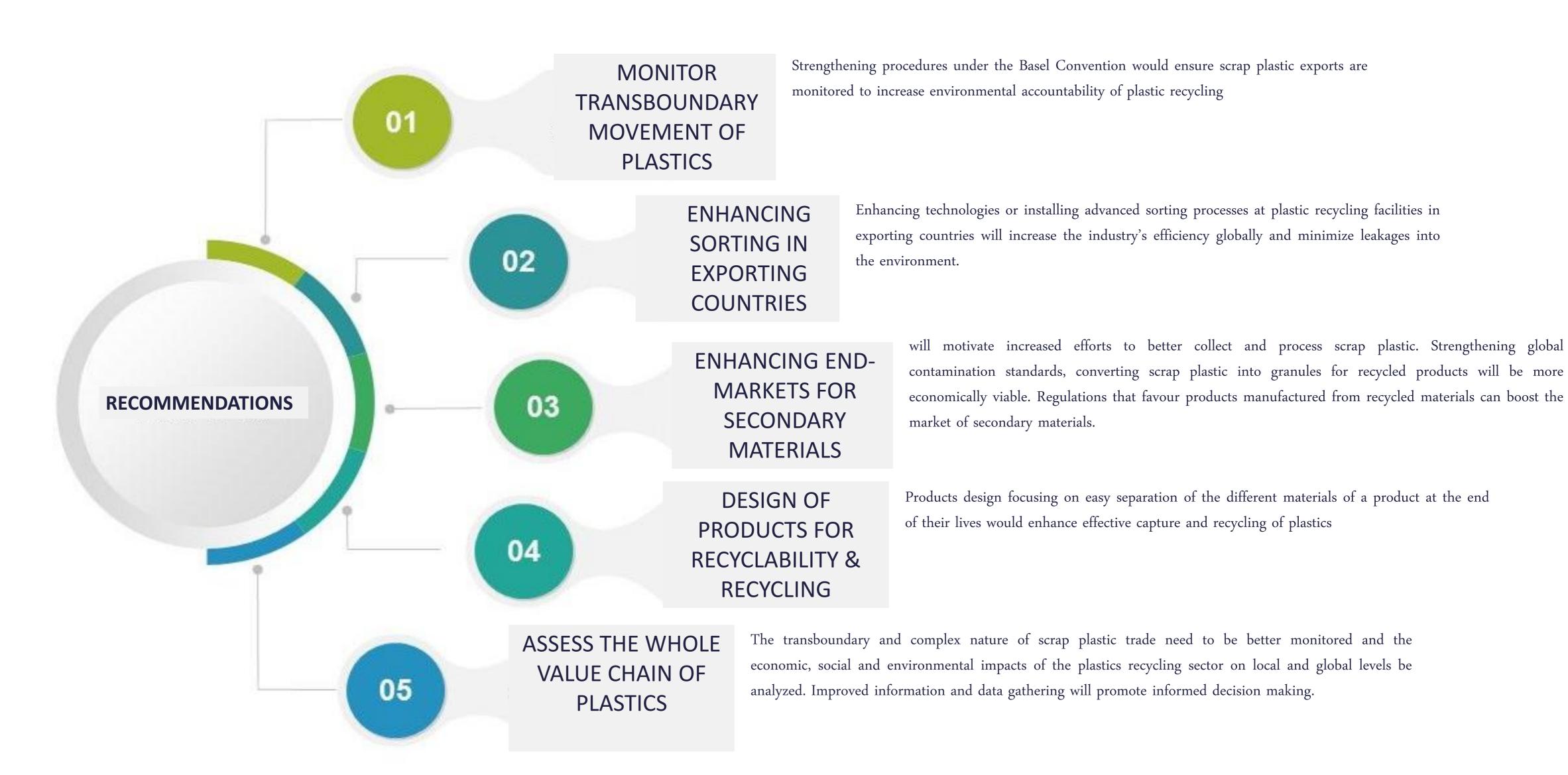








RECOMMENDATIONS





THANK YOU

MANAGINGTHESPATIALCRIMEHEADUNIVERSITYSTATE MARINEPROGRAMMEREPORTINGLEADERPOLARPLANNING GRID COMMUNICATIONS SCIENTISTAND CHIEF ENVIRONMENTS DIGITAL WATERS COMMUNITY HR ECOSYSTEMS DIRECTOR PROJECT MANAGERAD VISOR SCIENCES JUNIORS ENIORISSUES COASTALOFFICER MANAGEMENT CONTROLLER ASSISTANT TO MOUNTAIN SECRETARY SUSTAINABLEINDIGENOUS FINANCES CONSULTANT PRESIDENT VISUAL CARBONOFEX PERT RESOURCESE CONOMIES WRITERS ARCTIC DEVELOPMENT ADMINIST RATIONARENDALENVIRONMENTAL TRANSBOUNDARYS WEBPRINTE CONOMISTAD MINISTRATOR BLUEASSISTANT COMMUNISTRATOR





www.grida.no

MARIA TSAKONA

WASTE MANAGEMENT EXPERT

maria.tsakona@grida.no

