Breaking the Plastic Wave

A Comprehensive Assessment of Pathways Towards Stopping **Ocean Plastic Pollution**

We developed perhaps the most comprehensive plastic system modelling tool to create a global analysis that evaluates various strategies to reduce ocean plastic flows and quantifies the associated economic, environmental, and social implications of each pathway.

Business-as-Usual: an untenable trajectory

Without action, the annual flow of plastic into the ocean will nearly triple by 2040, to 29 million metric tons per year. Current government and industry commitments are likely to reduce this figure by only 7 per cent.

BY 2040

GENERATION

INTO OCEAN

IN THE OCEAN

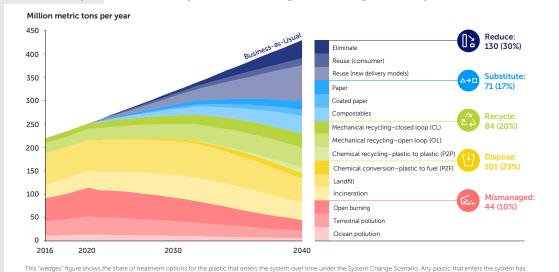
MILLION METRIC TONS

ANNUAL FINANCIAL RISK TO RUSINESSES IF THEY'RE **REQUIRED TO COVER WASTE MANAGEMENT COSTS**

Systemic change can reduce ocean plastic pollution by 80% by 2040

Industry and governments have the solutions today to reduce plastic pollution into ecosystems by about 80 per cent below projected Business-as-Usual levels by 2040 while also delivering on social, economic, and environmental objectives. Achieving this requires applying all system interventions concurrently, ambitiously, and starting immediately.

Fate of plastic under systemic change: a 'wedges' analysis



VIABLE PATH TOWARDS REDUCTION OF OCEAN PLASTIC **POLLUTION**

MULTIPLE CO-BENEFITS RELATIVE TO BUSINESS-AS-USUAL BY 2040:



700,000 ሕሕ

The innovation gap: near-zero leakage needs significant innovation

INNOVATION TO FOCUS ON 3 AREAS:



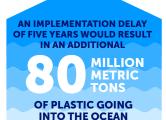
IN REMOTE/ **RURAL AREAS**



SOLUTIONS FOR FLEXIBLE PLASTICS AND MULTIMATERIALS



MICROPLASTIC **LEAKAGE FROM TYRES**



The time to act is now

It is not the lack of technical solutions that is preventing us from addressing plastic pollution, but rather inadequate regulatory frameworks, business models, and funding mechanisms. The time is now: If we want to significantly reduce plastic leakage, we have the solutions at our fingertips.



SYSTEMIQ