

ENVIRONMENTAL SOCIAL GOVERNANCE

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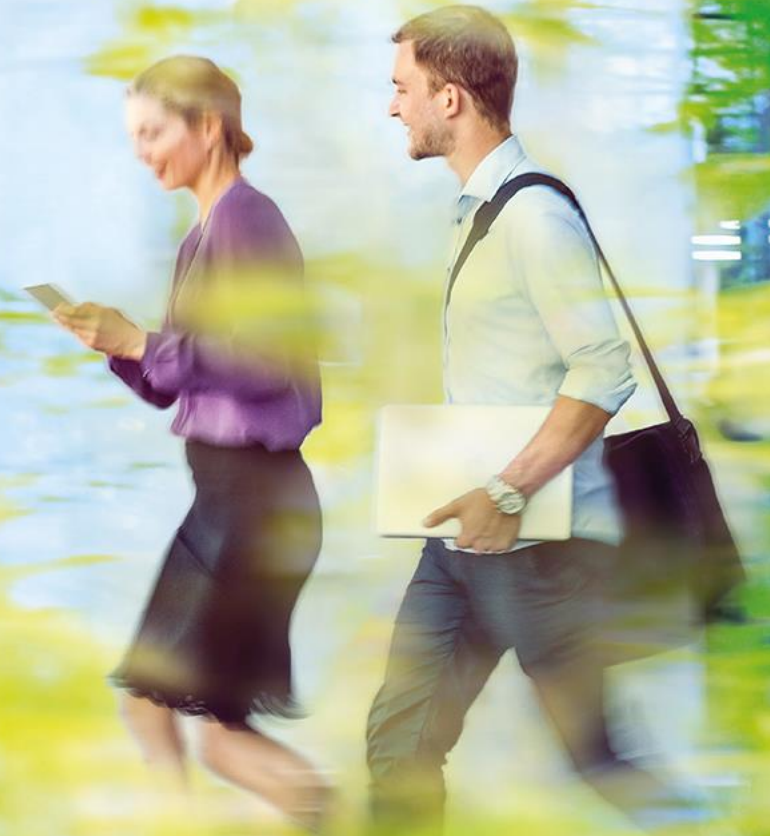
RE-BUILDING: ROTTERDAM

12-07-2023

IMPULSE SUSTAINABILITY

Marco Villares

Drees & Sommer NL



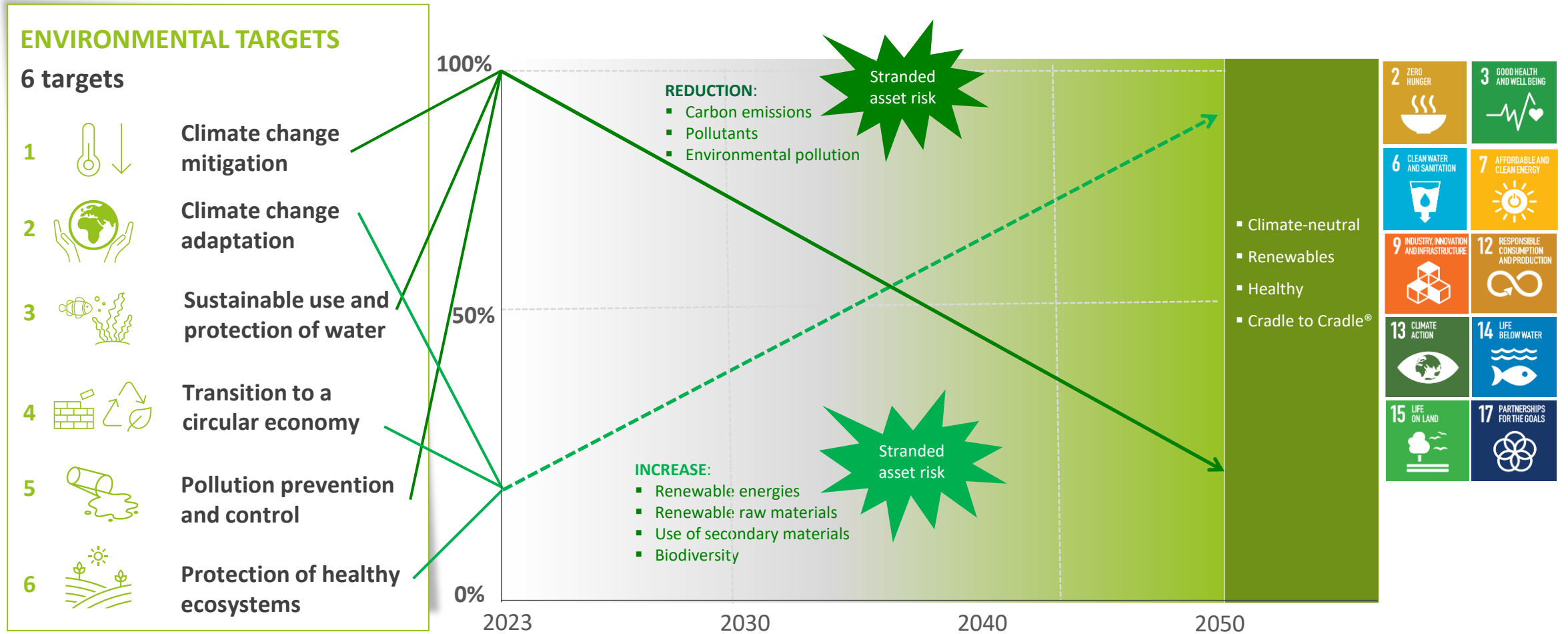
WHAT is ESG?





FROM ENVIRONMENTAL RISKS (EU TAXONOMY) TO 2050 TARGET


Environmental risks, climate change, and stranded asset risks





HOT TOPICS FOR REAL ESTATE - 1

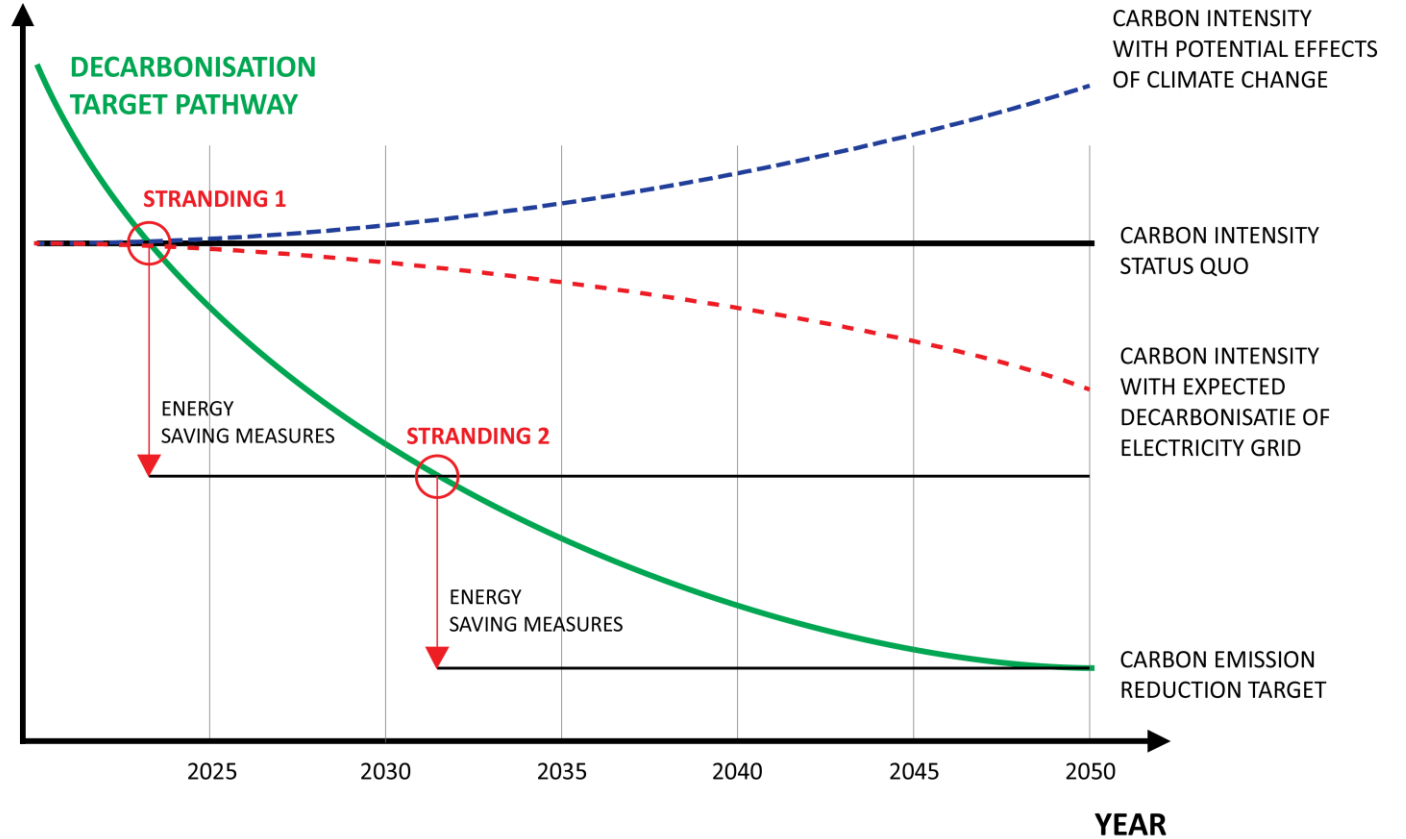
Decarbonisation



CARBON RISK REAL ESTATE MONITOR

Identification of the risk of STRANDED ASSETS due to increasingly stringent laws and regulations on energy-related emissions.

GREENHOUSE GAS EMISSIONS related to building's energy use
kg CO₂ equivalent per m²





HOT TOPICS FOR REAL ESTATE - 2

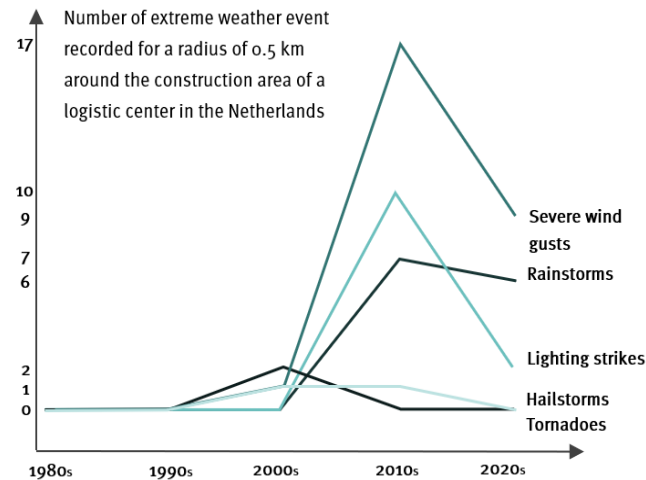
Climate Risk Assessment

Climate Risk and Vulnerability Assessment

Definition of relevant climate risks using IPCC climate models

Evaluation of vulnerabilities

Adaptation measures to reduce risk and increase resilience of buildings

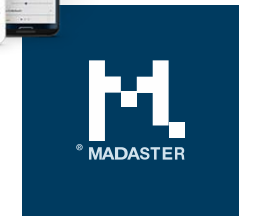
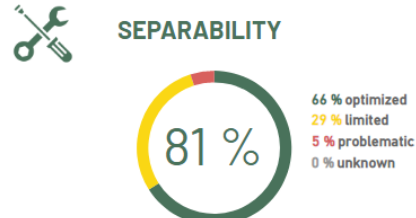
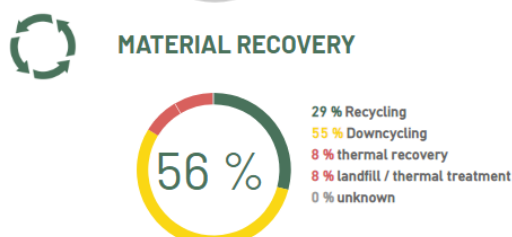
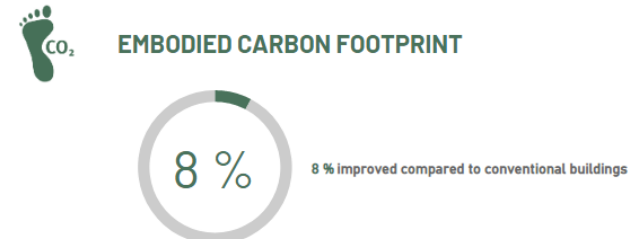
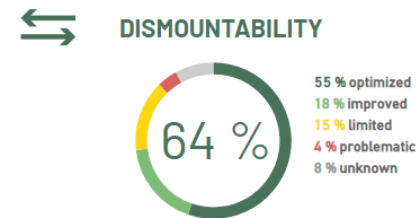
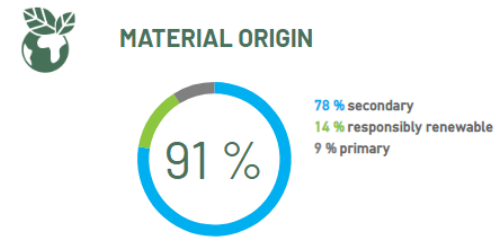
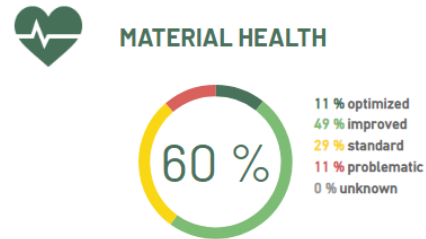




HOT TOPICS FOR REAL ESTATE - 3

Circularity Passport for Buildings

-  Health according to Cradle to Cradle®
-  CO2-Footprint
-  Demountability
-  Separability of materials
-  Recyclability of products
-  Available raw material assets



Or other...



HOT TOPICS FOR REAL ESTATE - 4

Pollution prevention and control

Building components and materials must not contain substances of high concern

Indoor air quality thresholds

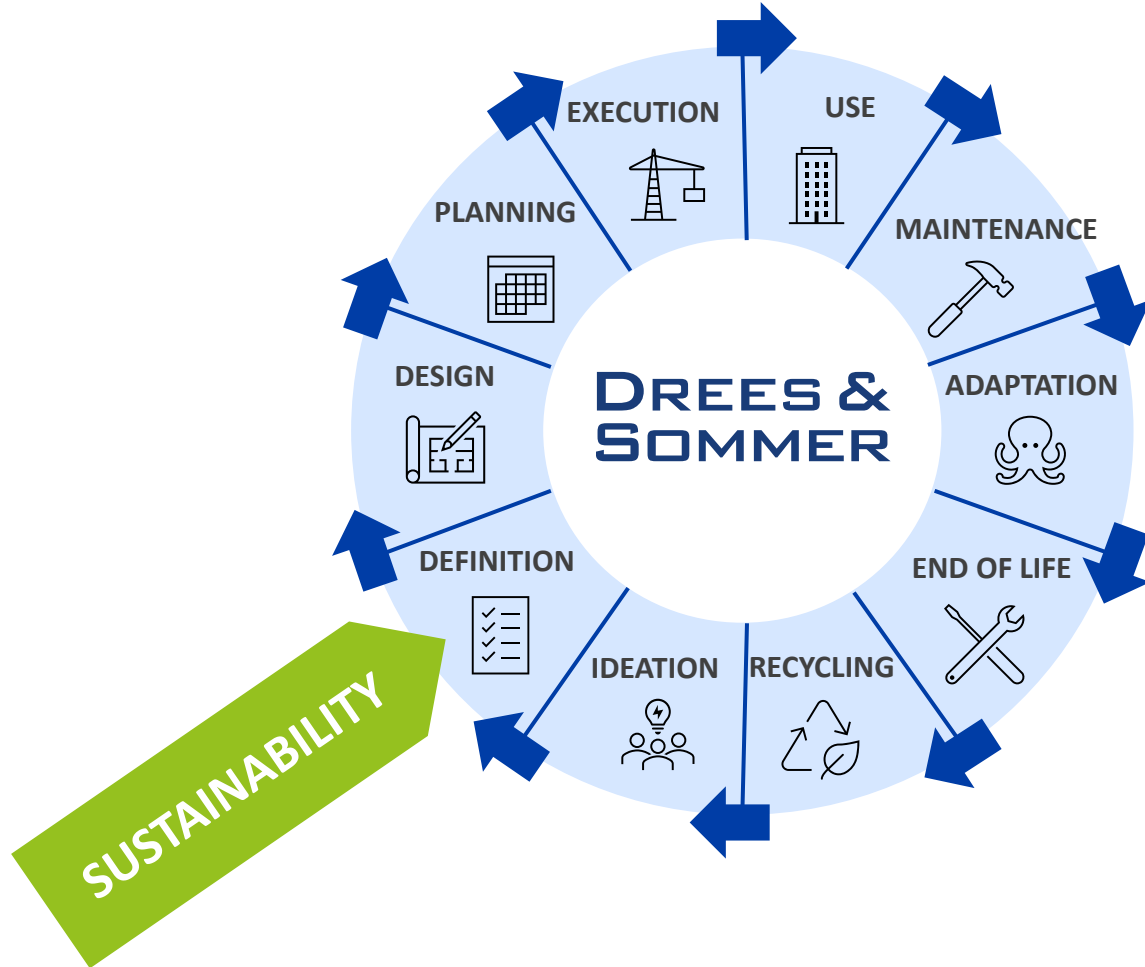
Testing of site for pollutants if potentially contaminated





KEY MESSAGE

INTEGRATE sustainability from the start



SUCCESSFUL BUILDINGS

LIVEABLE CITIES

HIGH RETURN PORTFOLIOS

POWERFUL INFRASTRUCTURE

FUTURE-ORIENTED CONSULTING



DREES &
SOMMER