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Sustainability Engagement Drivers

ESG in the capital markets



Asset **Owners**



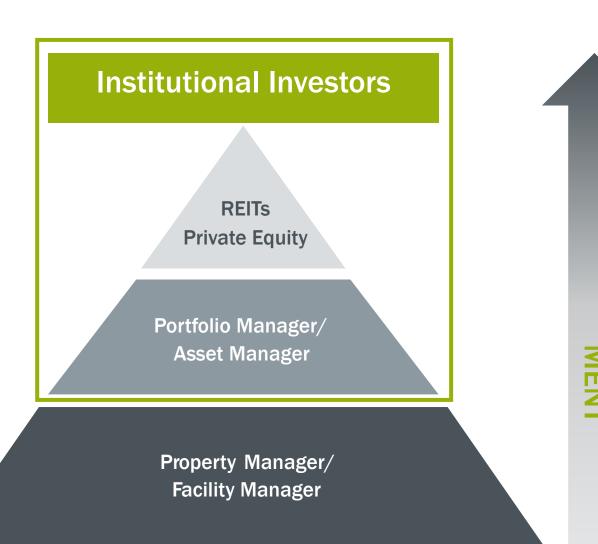
Capital Markets

Company / Portfolio





Building





Enhance and protect shareholder value by assessing and empowering sustainability practices in the real asset sector

GRESB Reporting Framework

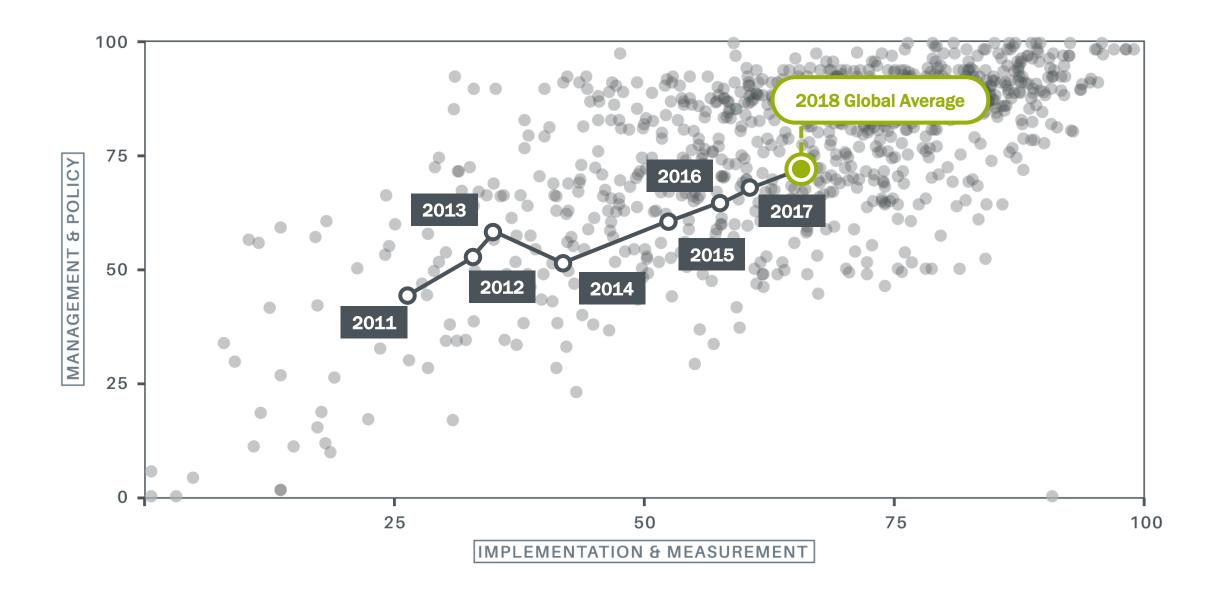
Annual ESG disclosure for real asset portfolios

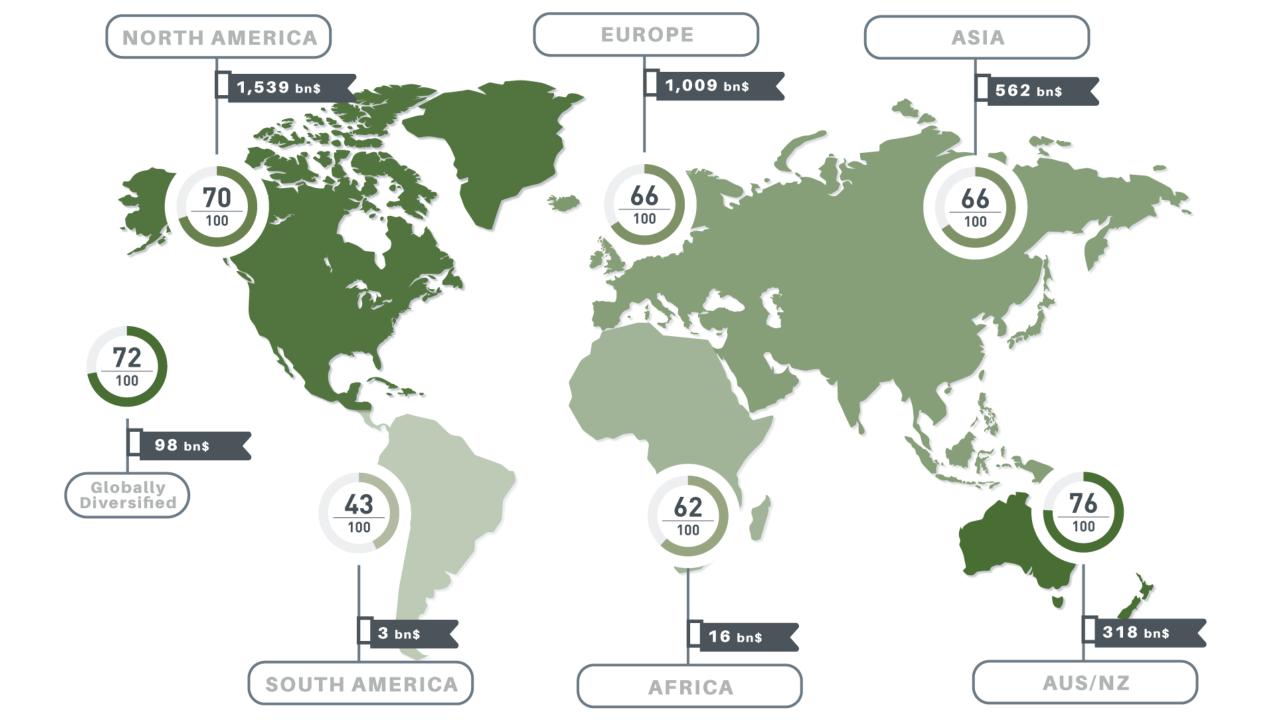


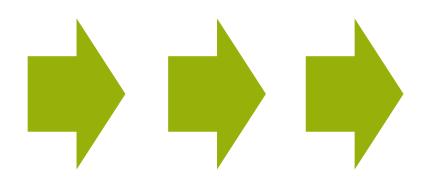
Assesses the ESG performance of property companies, fund managers and developers

Assesses ESG performance of real estate lenders

Assesses the ESG performance of infrastructure assets and portfolios





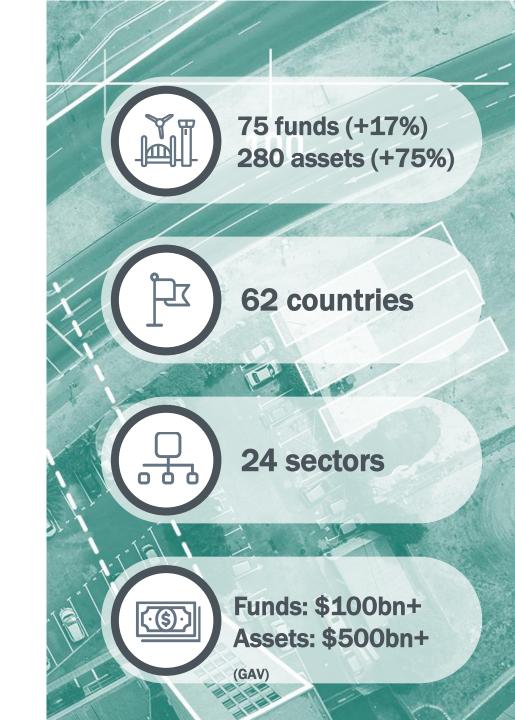






2018 RESULTS

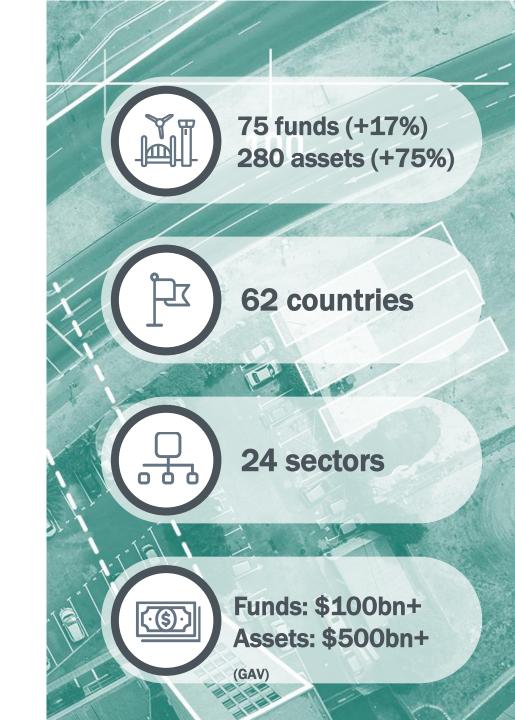
Sustainable Real Assets



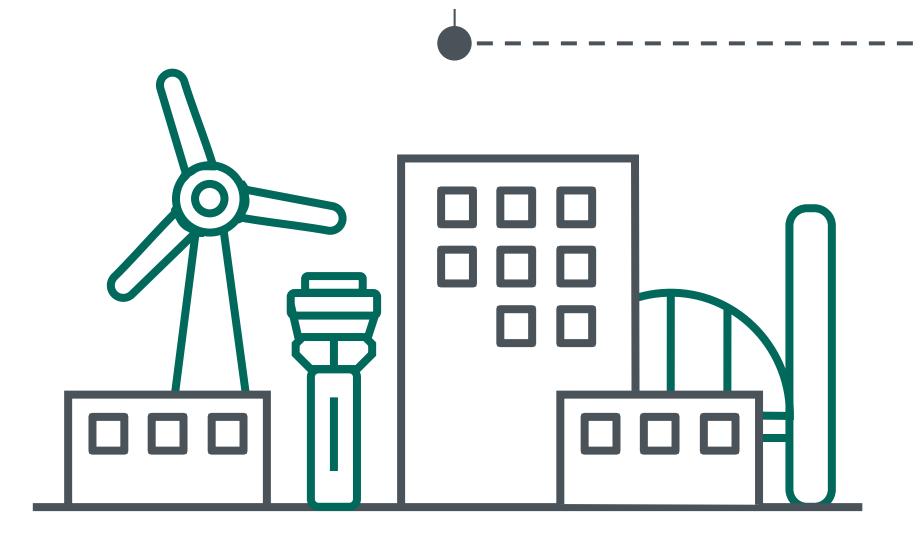


2018 RESULTS

Sustainable Real Assets



MORE INFRASTRUCTURE





REAL ASSETS



Regulatory environment

Long-term investment in illiquid assets

Importance for society

Opportunities

Sustainable infrastructure source of deal flow

Anticipating changing regulations and developments

Investors want to understand the non-financial risks that can severely impact returns and reputation

Investor Members









































Fund Manager, Asset Operator and Company Members



























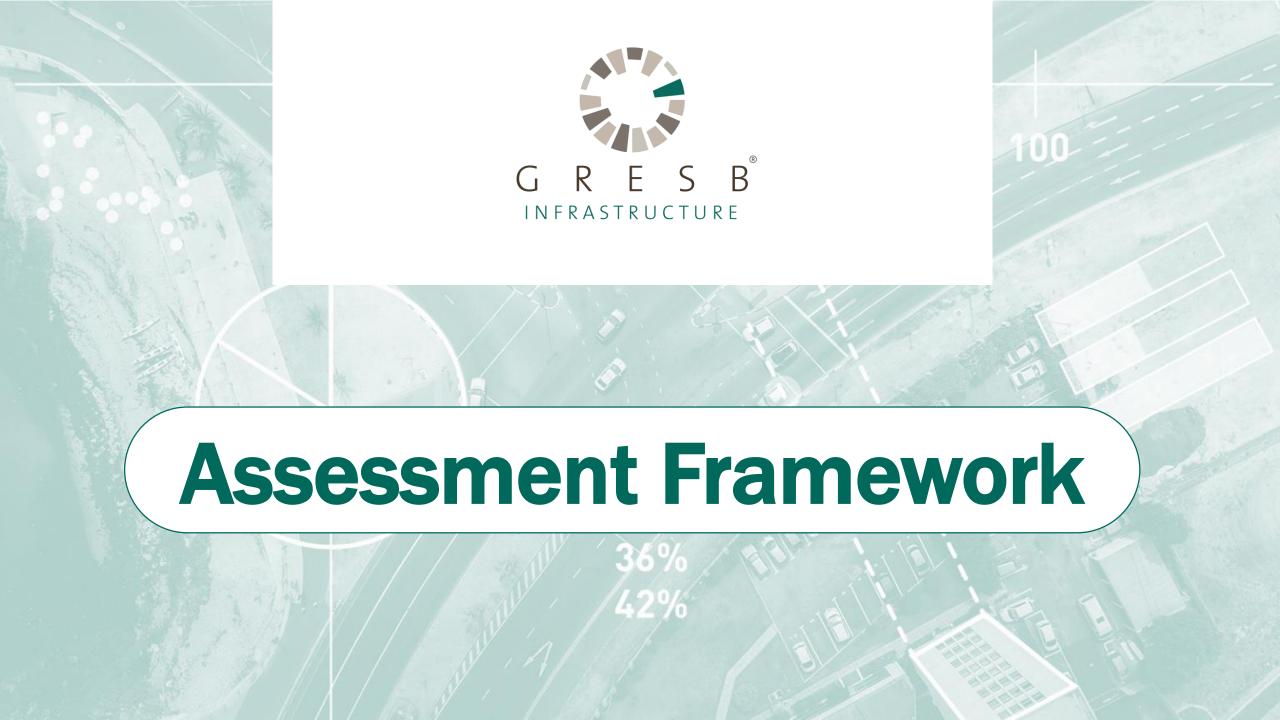




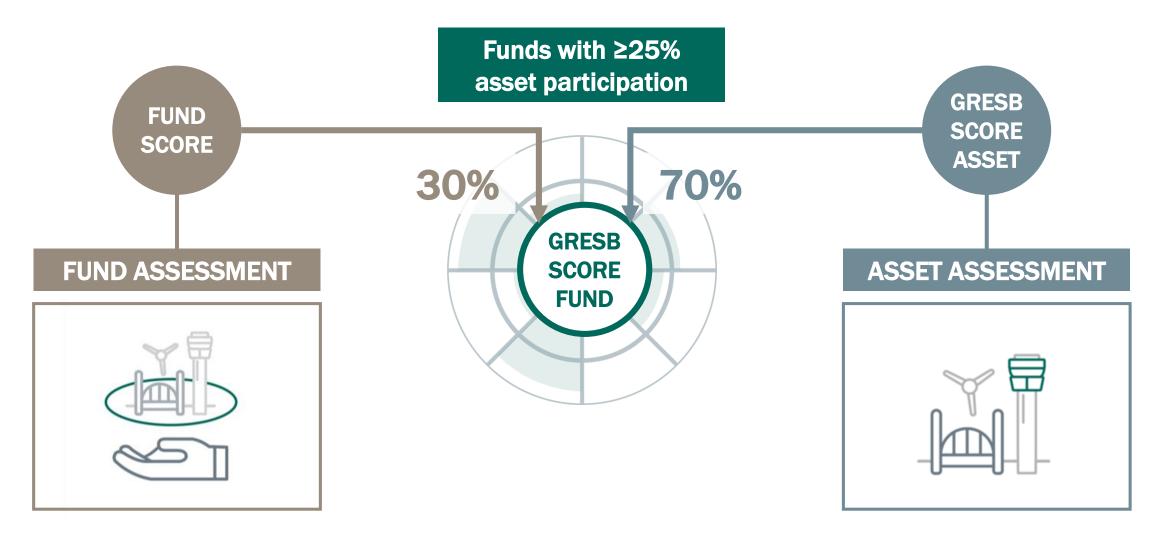


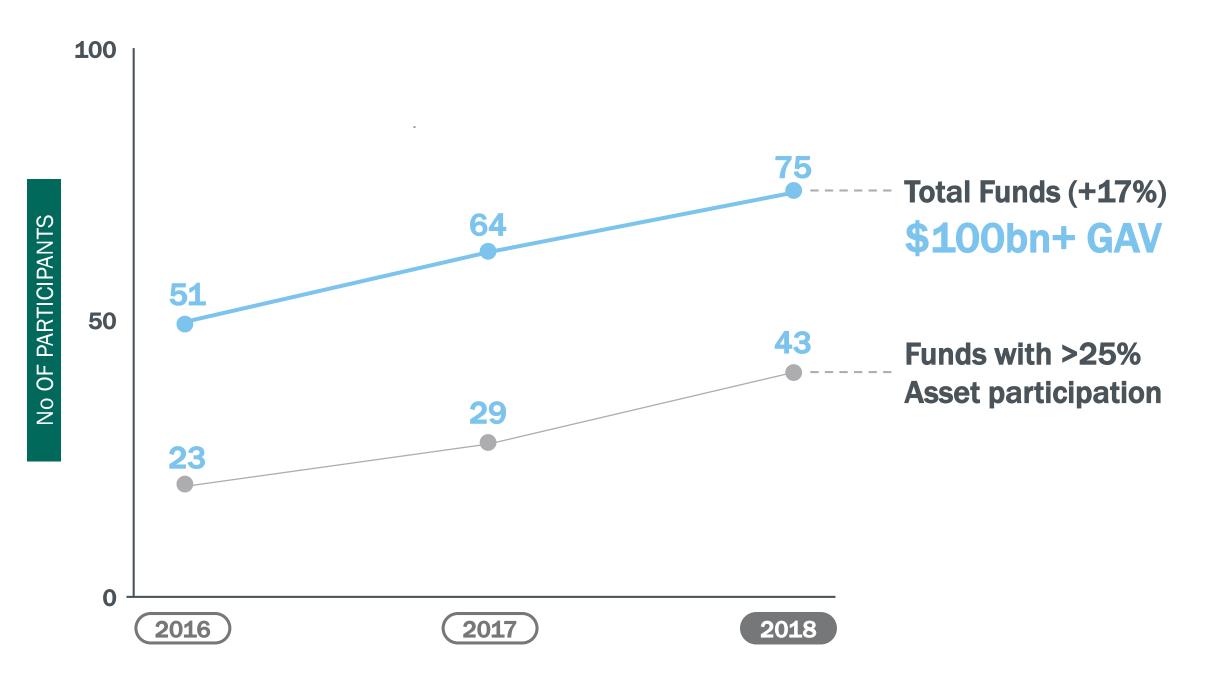


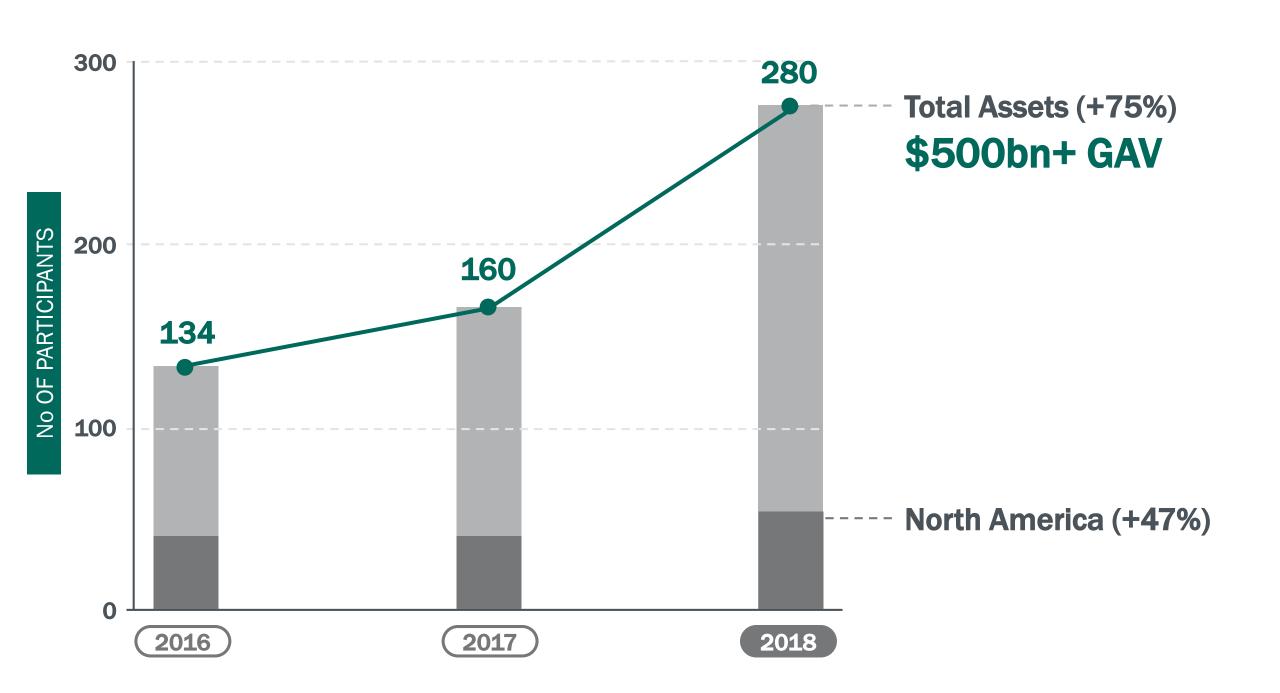


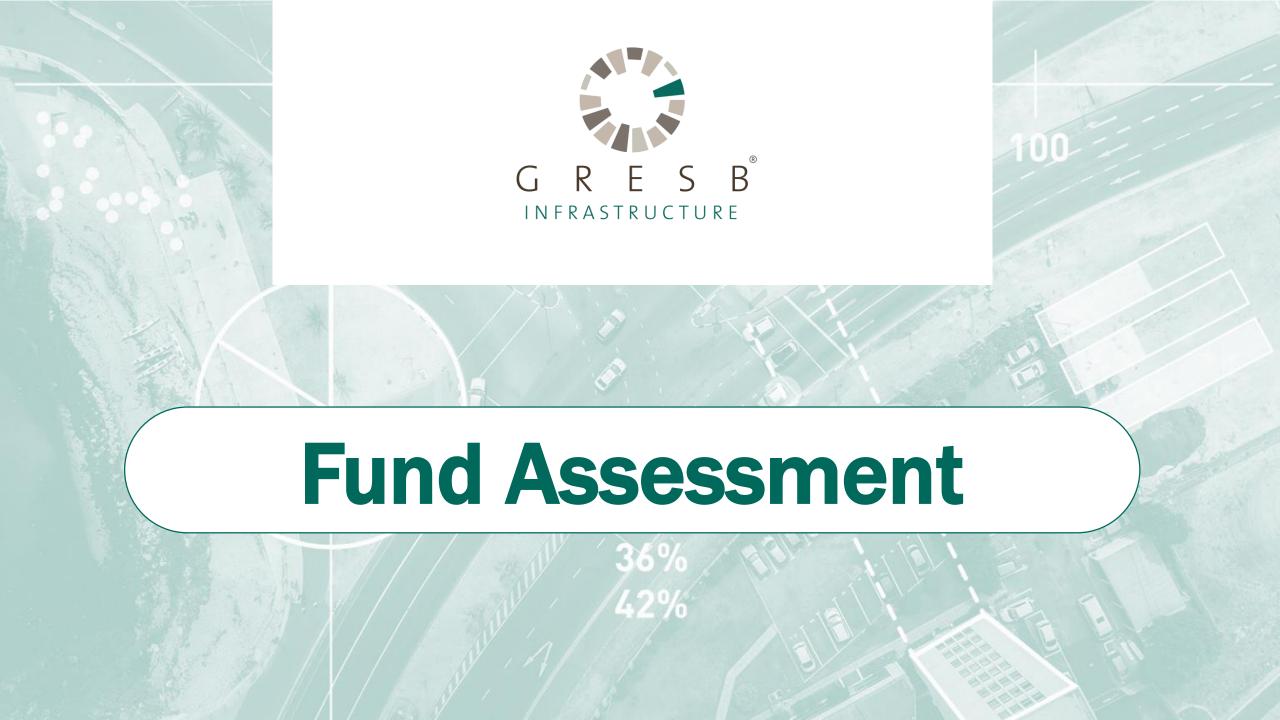


Two complimentary assessments









Funds Improving in Almost All Areas

11 Indicators in the Fund Assessment





GRESB Aspects

Global













STAKEHOLDER ENGAGEMENT 50



PERFORMANCE INDICATORS 48



CERTIFICATIONS
& AWARDS

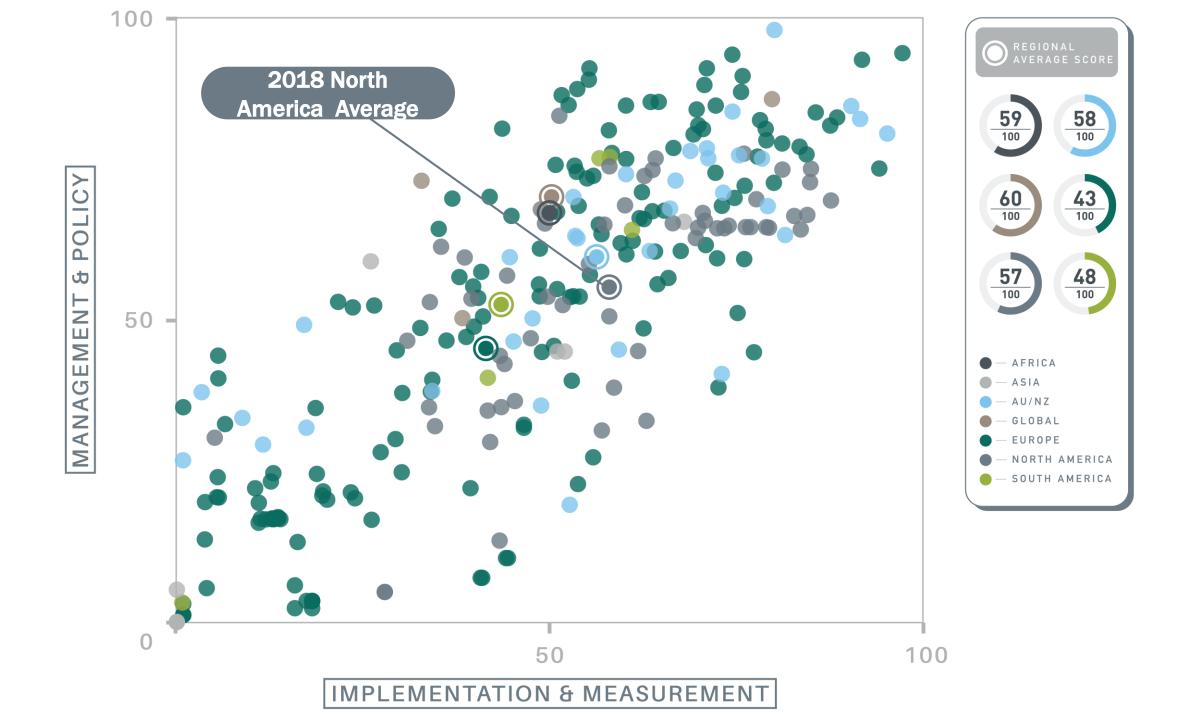
2018

2017

2016

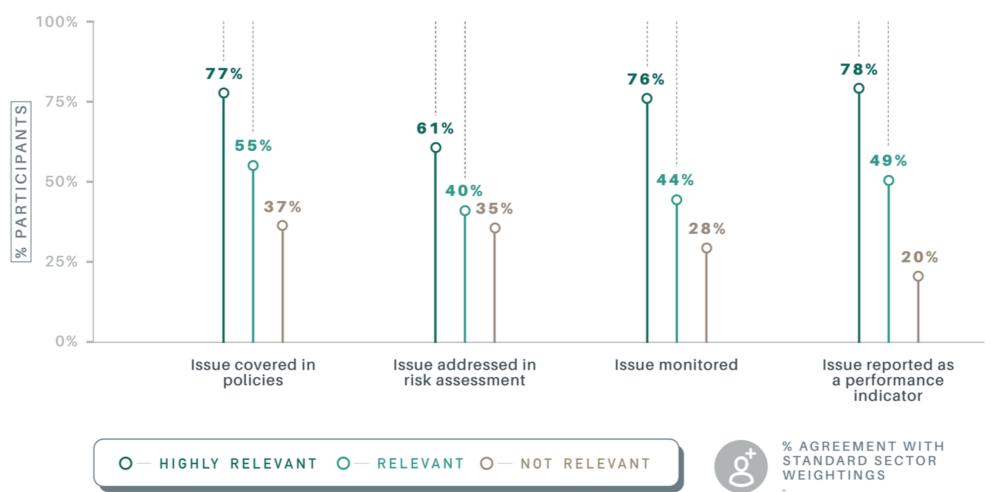
decreased compared to 2017





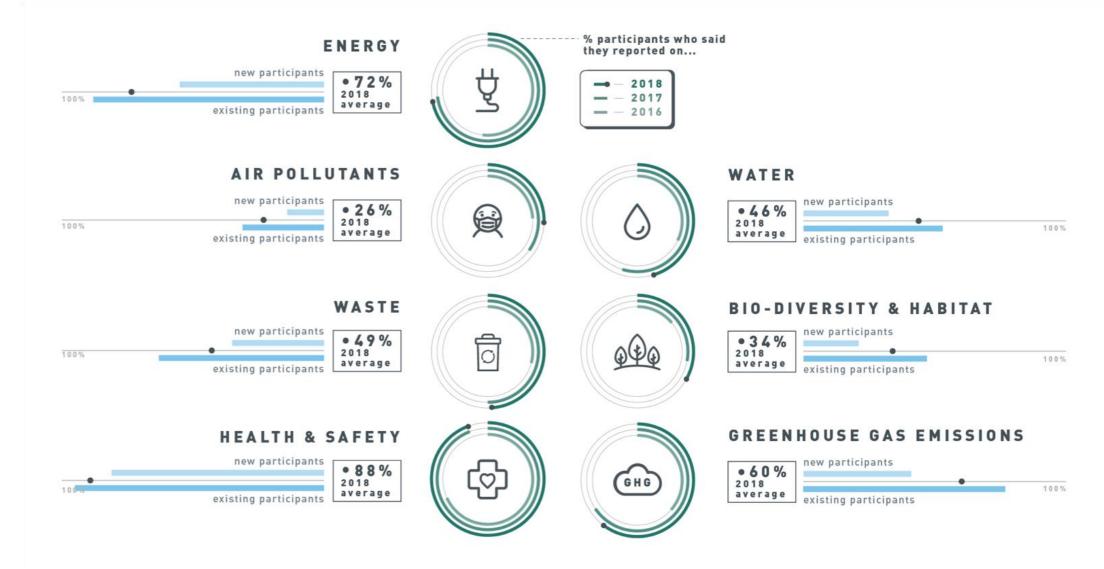
Materiality Approach Strongly Supported

92% agreement with standard sector weightings



Reporting on ESG Performance

Strongly Affected by New Participants



Intensity Metrics

Towards Standard Performance Metrics

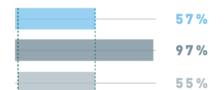


1. ENERGY

Energy intensity =
Energy Consumption / output
(MWh/output)

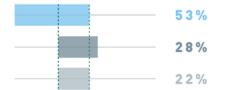


Energy intensity = Energy Consumption / GAV (MWh/\$)

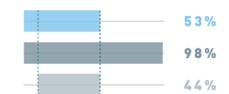


2. GHG EMISSIONS

GHG intensity =
GHG (scope 1 & 2) / output
(tCO2e/output)

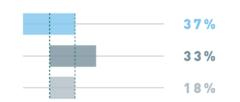


GHG intensity =
GHG (scope 1 & 2) / GAV
(tCO2e/\$)



3. WATER

Water intensity = Water Consumption / output (ML/output)

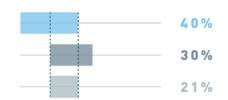


Water intensity = Water Consumption / GAV (ML/\$)

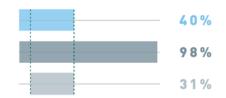


4. WASTE

Waste intensity =
Total Waste disposed / output
(Tonnes/output)

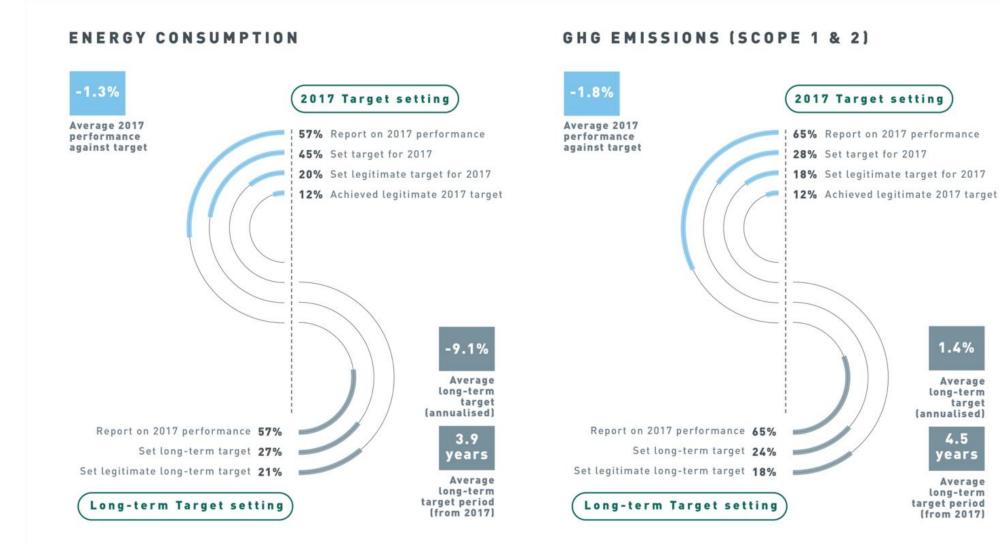


Waste intensity =
Total Waste disposed / GAV
(Tonnes/\$)



Performance Targets

Room for Improvement



1.4%

Average

long-term

4.5

years

Average

long-term

target period

(from 2017)

(annualised)

Fund - Sector Leaders

Sector Diversified



Renewable Power Generation



Other Sectors



Europe



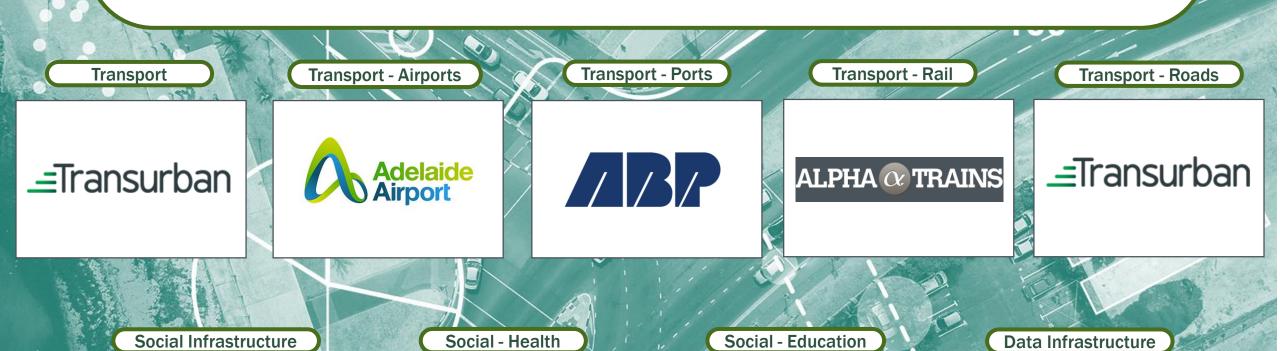
Globally Diverse



Other Regions



Asset - Sector Leaders











Asset - Sector Leaders





2018 RESULTS

Sustainable Real Assets

