

Best practice in fixed income and environmental issues

Hilkka Komulainen, Project Manager, Fixed Income and Infrastructure



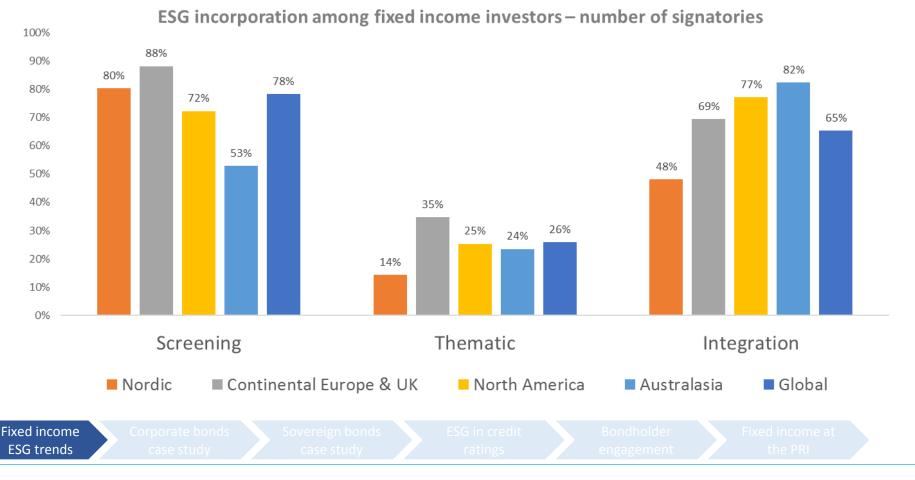


Finsif Annual Seminar, Helsinki, 13 October 2016

An investor initiative in partnership with UNEP Finance Initiative and UN Global Compact

ESG strategies in fixed income

Both globally and in the Nordics, screening is the most popular ESG strategy for PRI signatories

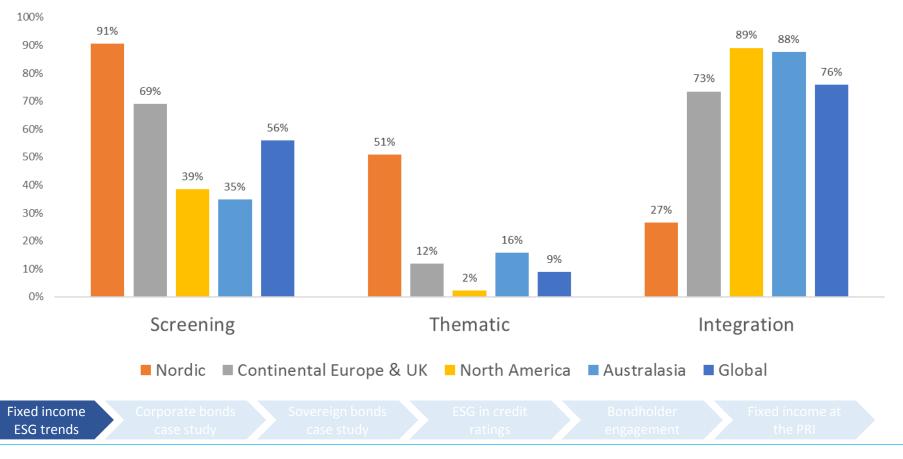




ESG strategies in fixed income

However, globally, ESG integration covers the largest AuM volume of signatory FI assets

ESG incorporation among fixed income investors - % of actively managed assets

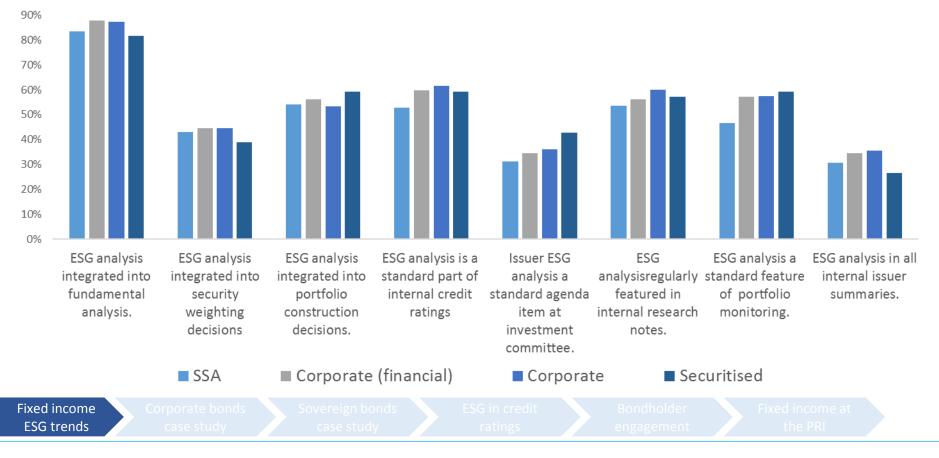




ESG Integration approaches in FI

ESG integrated in fundamental analysis, internal credit ratings or research

Approaches to ESG Integration – global data





100%

Corporate bonds and climate change

Resilience to climate change in the UK water sector

 Climate change focus in water utilities in Southern England – drought and flooding will impact company ability to deliver quality service

Process



• Gross/ net risk scores: local conditions/ company capability to overcome challenges

Results

- Top operational risks: climate change (flooding), population growth, legal reductions in water abstraction. Local conditions highly relevant
- ESG not the primary factor in assessing water utilities' debt, but provides understanding of which companies are facing the biggest operational challenges from climate change and their capacity to overcome them





Sovereign bonds: Energy and climate ratings

Impact of energy and climate change on sovereign risk is underestimated, mandates dedicated credit rating

60,000 R2 = 0.9879 50,000 40,000 30,000 20,000 10,000 0 6.000 8.000 2.000 4.000 10.000 12.000 14.000 Primary energy consumption (TOE m) Sovereign bonds case study

Credit rating dedicated to energy/climate

Growth dynamics: 35%	Energy supply risk: 13% Consistency of energy price policy: 9% Sectors exposure to energy risk: 9% Economic exposure to climate evolution: 4%
Government budget: 30%	Energy asset: 6% Energy-climate revenues: 12% Energy-climate expenditure: 12%
Social & political stability: 20%	External financing needs: 10% Liquidity risks: 5%
External risks: 15%	Impact on socio-economic vulnerability: 12% Energy linked conflicts: 4% Energy-climate governance: 4%



Regression test on global GDP and energy consumption (1965-2013)

ESG in credit ratings

Increasing credit rating agency focus on environmental issues

 Many credit ratings methodologies incorporate certain ESG factors, but may not be a predominant factor in the rating outcome

Moody's

- Cross-sector heat map considers sector exposure to environmental risks
- 86 sectors assessed 11 sectors with elevated credit exposure – all carbon related
- Carbon regulations and air pollution are the most frequently identified environmental risks

S&P Global

- Research: how environmental and climate risk is already affecting corporate ratings
- 60 ratings actions over 2 years directly correlated with E&C risk
 →Low number but increasing
- Green bonds and ESG assessments





Statement on ESG in Credit Ratings

PRI is working with credit rating agencies to encourage more systematic and transparent consideration of ESG in issuer creditworthiness

Broad involvement of CRAs and investors:

- 6 credit ratings agencies S&P, Moody's, Dagong, RAM, Scope, Liberum
- 111 fixed income investors

Two-year PRI project:

- Develop understanding of links between ESG issues and issuer creditworthiness
- Relation between ratings horizons and ESG materiality
- Improve transparency on ESG related risks



Corporate bond

as Sover

lds

ESG in credit ratings



incorporate ESG factors into investment analysis and decision-making processes:

- decision-making processes; seek appropriate disclosure on ESG issues by investee
- entities; report on activities and progress towards implementing resonsible investment.

Specifically, as find income investors, and as the primary users of credit ratings, the signatories of this statement will support formal integration of ESG factors into ratings, investment decision making, which will increase investor confidence in the quality and utility of these ratings. To support these efforts, these investors seek to participate in dialogo and engage in collaborative initiatives with other investors of crasting apprecision for the terms of the term investor for the straining apprecision of the terms of the term investor fields.

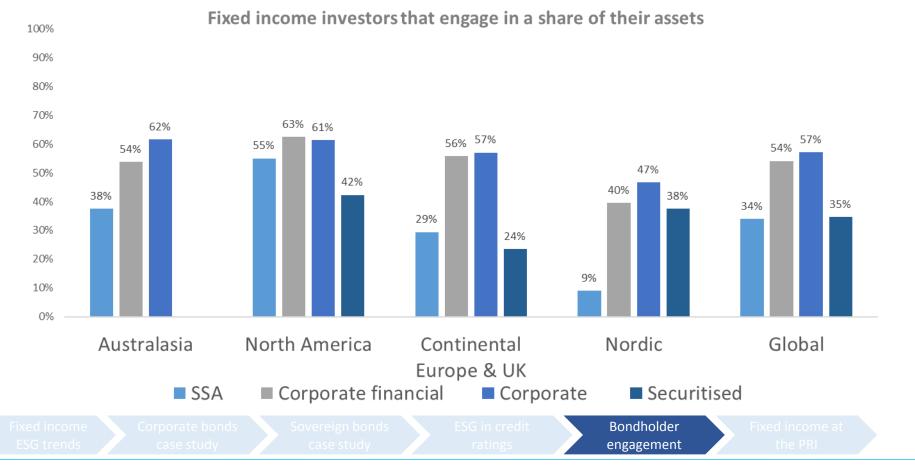
ixed income a



Finsif Annual Seminar, Helsinki, 13 October 2016

Bondholder engagement

Emerging practice? PRI signatories report engagement either as bondholders or jointly as a bondholder and shareholder





Finsif Annual Seminar, Helsinki, 13 October 2016

Fixed income at the PRI

PRI resources

- Fixed Income investor guide
- Spotlight on ESG in corporate bonds
- Spotlight on ESG in sovereign bonds



On-going projects

- Bondholder Engagement
- ESG in Credit Ratings

How can you get involved?

- Provide case studies
- Speak in or attend webinars and events
- Project Working Groups & PRI Advisory Committees
- Sign Statement on ESG in Credit Ratings and engage ratings agencies

Fixed income at the PRI



ANY QUESTIONS?

hilkka.komulainen@unpri.org yulia.sofronova@unpri.org





Best practice in equities, proxy voting and engagement

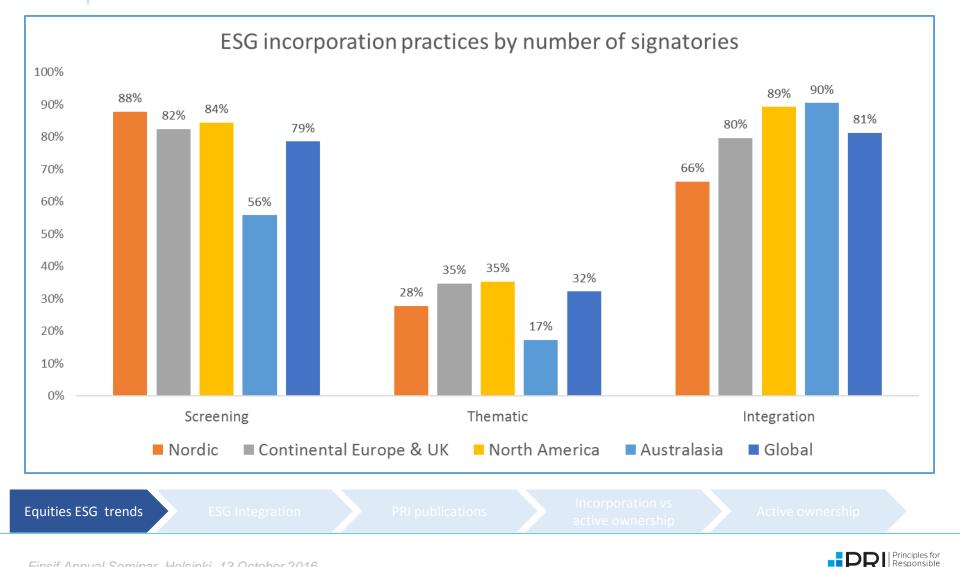
Justin Sloggett, Senior Manager, Listed Equity and Hedge Funds

f 🎽 in



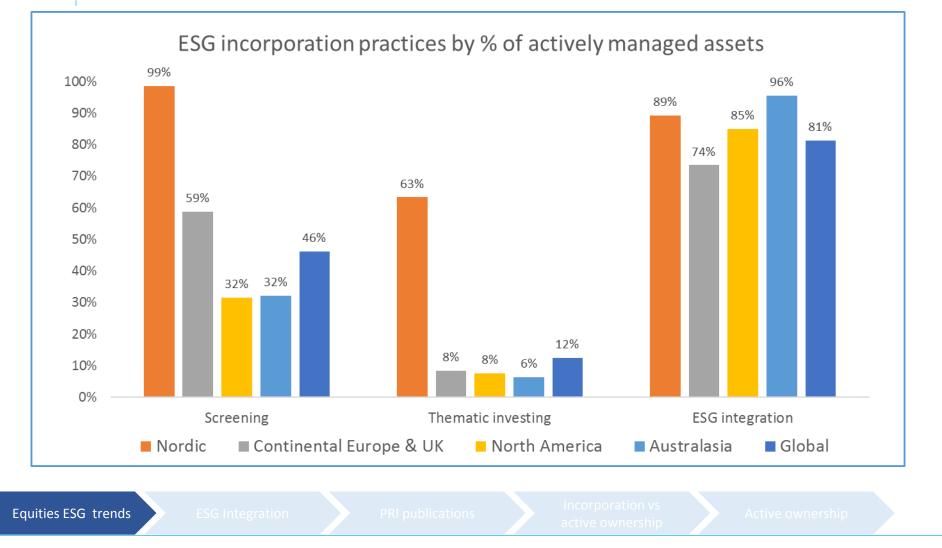
An investor initiative in partnership with UNEP Finance Initiative and UN Global Compact

How are signatories incorporating **ESG factors?**





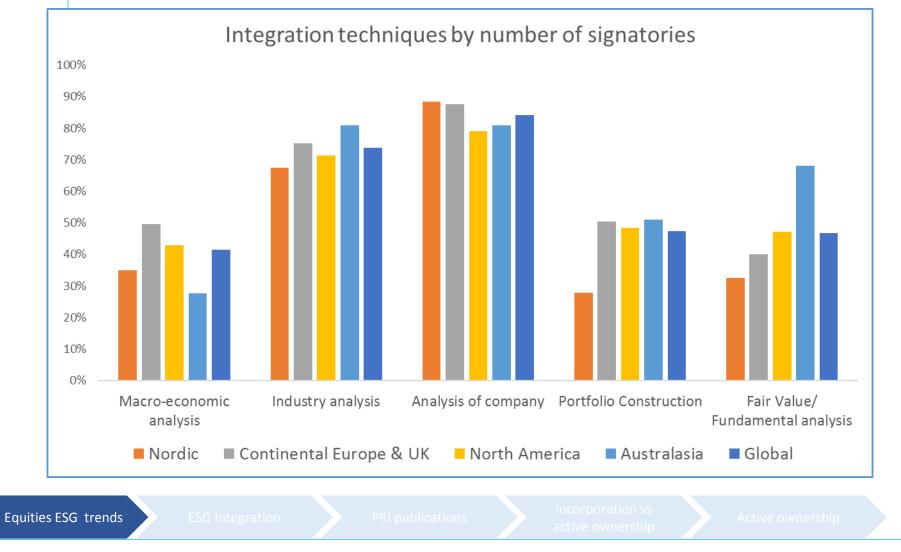
How are signatories incorporating ESG factors?





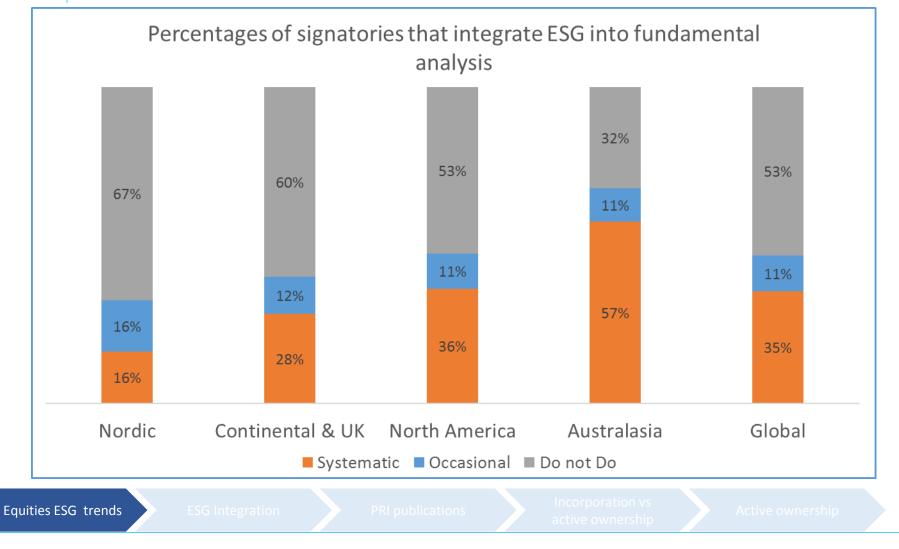
Finsif Annual Seminar, Helsinki, 13 October 2016

Integration techniques





Trends in fundamental analysis



Principles for Responsible Investment

ESG INTEGRATION ACROSS INVESTMENT STRATEGIES

Equities ESG trends

ESG Integration

PRI publications

ncorporation vs



ESG incorporation in passive strategies

Incorporation and integration techniques

- Passive strategies can incorporate ESG factors.
- Enhanced passive strategies can integrate ESG factors.

Case study

• Due to an ESG score of 32.85, the component weight of an oil & gas company was reduced by 25% in comparison to the parent index

SD-KPIntegration Score	Component weights
0 - 20	under-weighted 50%
20.01 - 40	under-weighted 25%
40.01 - 60	not changed
60.01 - 80	over-weighted 25%
80.01 - 100	over-weighted 50%
Equities ESG trends ESG Integration	

ESG integration in smart beta strategies

Integration techniques

- Portfolio construction techniques that include ESG weights to adjust the holdings of constituents of an index
- The purpose is to create risk-adjusted returns, reduce downside risk and / or enhance portfolio's ESG risk profile.

Case study

- A water smart beta index was constructed by:
 - Selecting constituents from water supply sectors;
 - Identifying suitable companies operating in water-intensive industries;
 - Including innovative water solutions providers.



ESG integration in quantitative strategies

Integration techniques

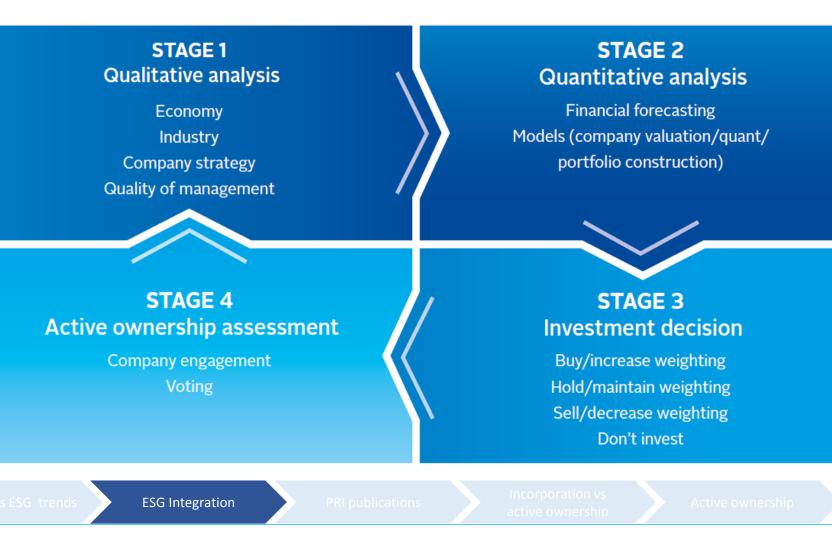
- The quant model adjusts the weights of securities with poor ESG rankings to zero.
- The quant model adjusts the weights of each security in accordance with a statistical relationship between an ESG dataset and asset price movements / company fundamentals.

Case study

• The maximum allowable position in an offshore drilling company was reduced from 1.5% to 0.5% due to high financial and reputational risks related to water pollution and healthy & safety.



Four stage integration model



PRI Principles for Responsibil Investmen

Integration techniques

Adjust sales or sales growth rate

- Future revenues and revenue growth rates have a significant impact on the fair value of a company as well as on other related variables.
- To forecast revenues, investors will typically take a view on how fast the industry is growing and whether the specific company will gain or lose market share.
- ESG factors can be integrated into these forecasts by increasing or decreasing the company's sales growth rate by an amount that reflects the level of ESG opportunities or ESG risks.



ESG Integration

PRI publications

Incorporation vs active ownership



Case study - ESG opportunities from changes to emissions testing

- The investor explored the ESG risks and opportunities created by changes to European emissions standards, including:
 - Impact on margins and R&D budgets of vehicle manufacturers;
 - Competitive edge of vehicle manufacturers (i.e. mix of diesel and petrol; alternative vehicles);
 - Growth opportunities for auto part suppliers of combustion engines;
 - Growth opportunities for auto part suppliers of alternative vehicles;
 - Impact on raw material providers to the automotive sector.



ESG Integration

PRI publications

ncorporation vs octive ownership



Case study - ESG opportunities from changes to emissions testing

- The investor assessed the market opportunity of electric vehicles for a petrochemical manufacturer. Three steps:
 - Valuing the revenue opportunity Quantified the manufacturer's target of KRW 2tr revenue from batteries by 2017;
 - 2. ESG assessment Analyzed safety track record and business ethics;
 - 3. Market price Examine the company's share price with its peers.
- The investor took the following view on the company's market value:
- The market has not priced in manufacturer's target for revenue from batteries;
- The market is slow to price in structural changes, such as increasing environmental regulation and demand for batteries.

Equities ESG trends

ESG Integration

PRI publications

active

ive ownership



Integration techniques

Adjust operating costs or operating margin

- Investors can make assumptions about the influence of ESG factors on future operating costs by adjusting them directly or adjusting the operating profit margin.
- Direct adjustment is possible if operating costs can be forecasted with reasonable accuracy, for example the construction cost of a desalination plant.
- Indirect adjustment through the operating margin may be used if the level of disclosure is limited, for example the loss in production caused by poor health and safety standards.



Case study - ESG risk in mining

- The analyst explored the ESG risks from water scarcity in the mining sector, including:
 - Negative impact on production;
 - Local community unrest;
 - Potential loss of operating permit;
 - Delays in obtaining environmental permits.
- The analyst examined the impact of operating a new desalination plant on company financials:
 - Construction costs Capital expenditure increased by US\$400 -900mn;
 - Operating costs Pre-tax operating costs increased by US\$80mn per annum from 2021.





Case study - ESG risk in mining

• The analyst created 3 scenarios, which assessed the impact on share price:

Bull	GBp 877	Bull case price deck + 10% CLP depreciation vs. USD + 5% sustainable cost reduction across operations + 10% total capex cut.
Base	GBp 670	Base case valuation is based on our DCF valuation using MSe LT commodity prices at \$3.4/lb for copper. We include all future projects in our base case, including additional costs for the desalination plant.
Bear	GBp 434	Bear case price deck + 20% capex overrun at growth projects + higher Antucoya opex + 10% CLP appreciation vs. USD + desalination plant costs at upper end or range + construction of new tailings dam at El Mauro.

Equities ESG trends

ESG Integration

PRI publications

tive ownership



INTEGRATION PUBLICATIONS

Equities ESG trends

ESG Integration

PRI publications

ncorporation vs ctive ownership



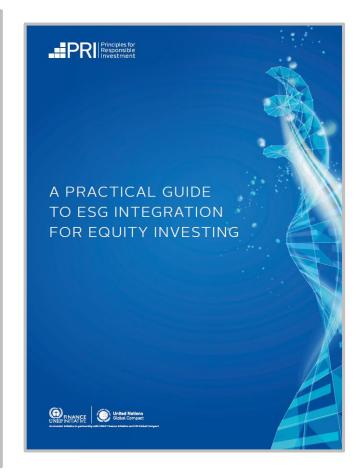
PRI's integration publications

Integrated Analysis publication (2013)

 Case studies on integration in fundamental investment strategies.

A Practical Guide to ESG Integration for Equity Investing (2016)

- ESG integration across the active-topassive investment spectrum.
- ESG integration across the investment value chain from asset owner to sell-side investment research provider.



Equities ESG trends

ESG Integration

PRI publications

ncorporation vs active ownership



PRI's new integration publication

- 1. Integration techniques: Guidance and case studies on integrating ESG factor(s) into:
 - Fundamental strategies
 - Quantitative strategies
 - Smart beta strategies
 - Passive strategies
- 2. Sell-side research: Types of ESG-integrated sell-side research
- **3. Assessing external managers**: Guidance for asset owners on how to identify investment managers with good integration practices
- **4. Impact on investment process:** Guidance on structuring an ESG-integrated investment process



ESG INCORPORATION VS ACTIVE OWNERSHIP

Equities ESG trends

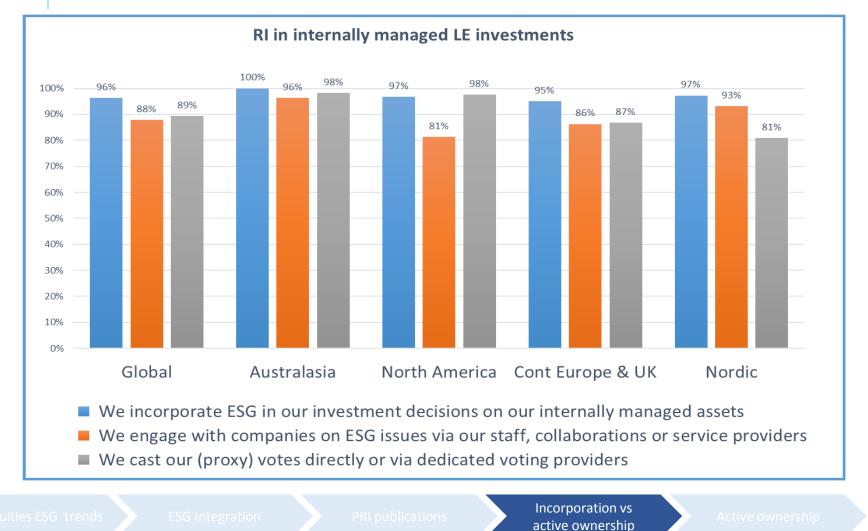
ESG Integration

PRI publication

Incorporation vs active ownership



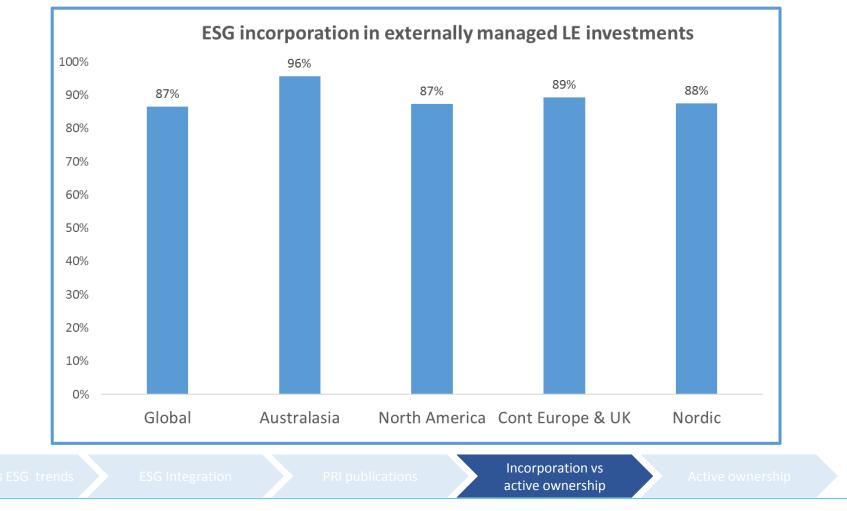
Internally managed equity investments





Externally managed equity investments

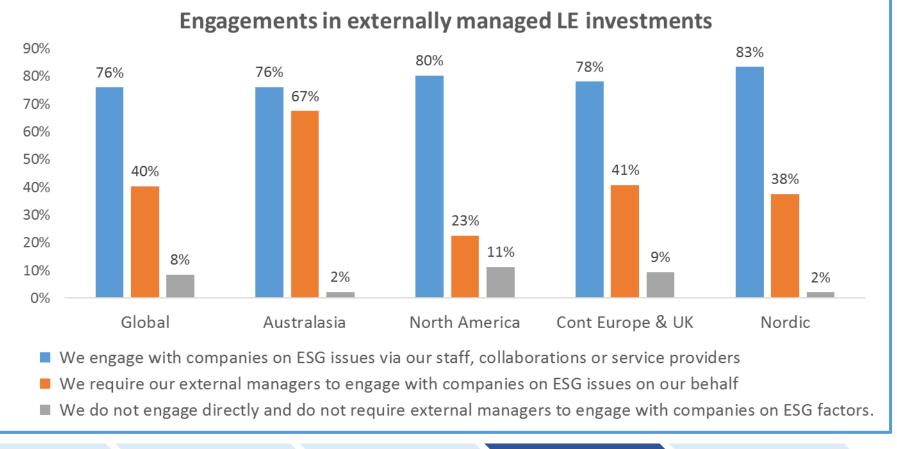
ESG Incorporation





ESG incorporation versus active ownership

Engagements



Equities ESG trends

SG Integration

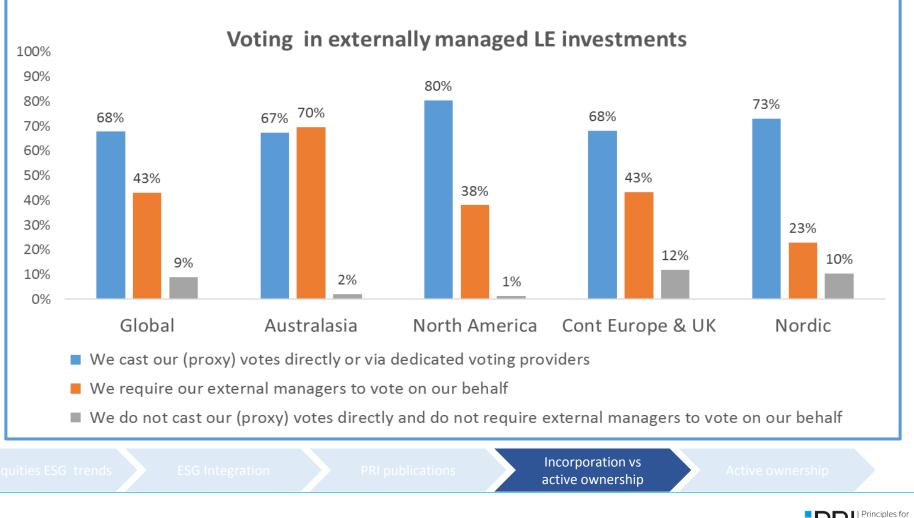
PRI publications

Incorporation vs active ownership



ESG incorporation versus active ownership

Proxy voting



BEST PRACTICE IN ENGAGEMENT

Equities ESG trends

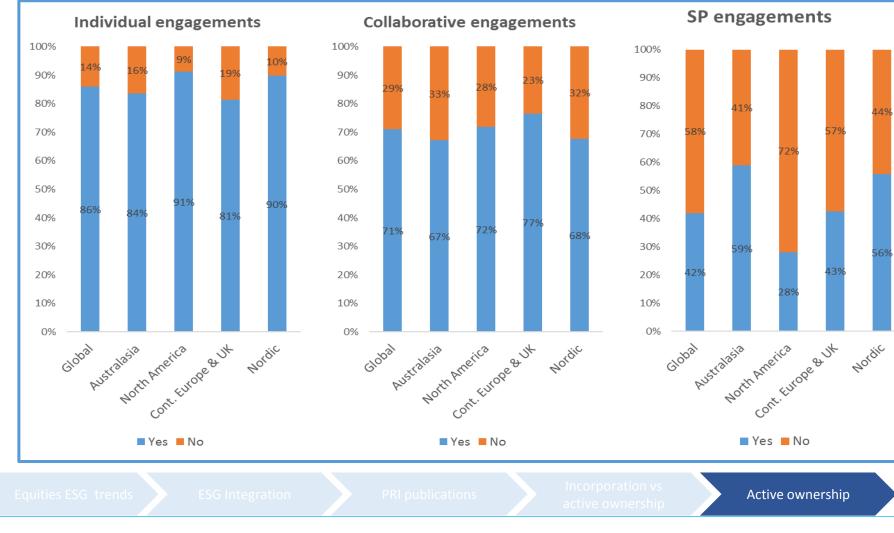
ESG Integration

PRI publication

Incorporation vs active ownership



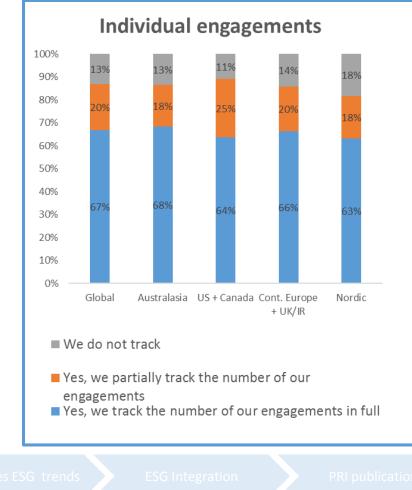
Types of engagements

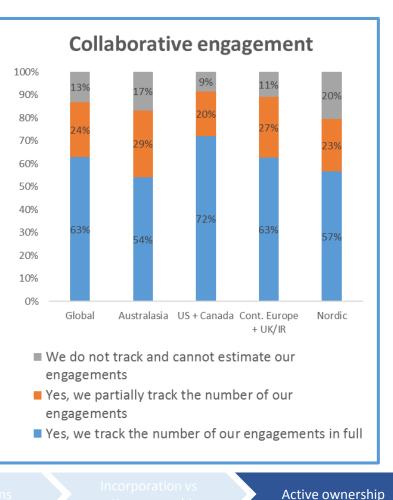


PRI Principles for Responsible Investment

Tracking the number of engagements

Individual versus collaborative

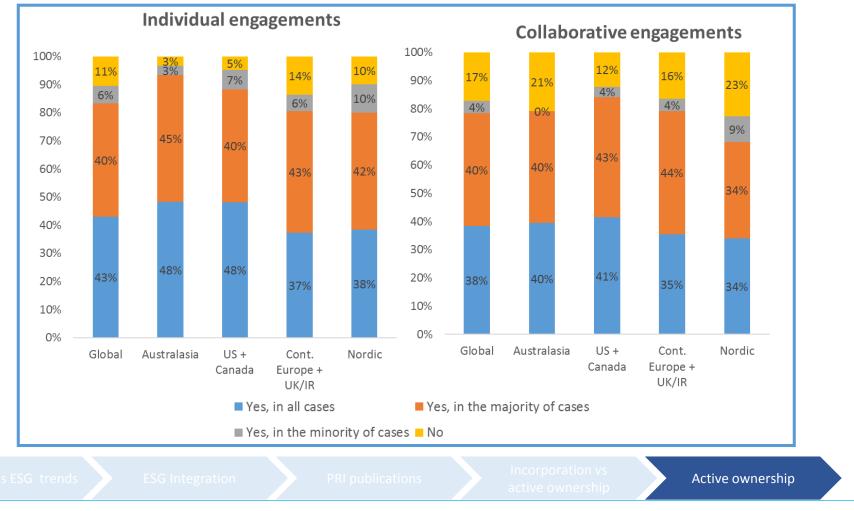






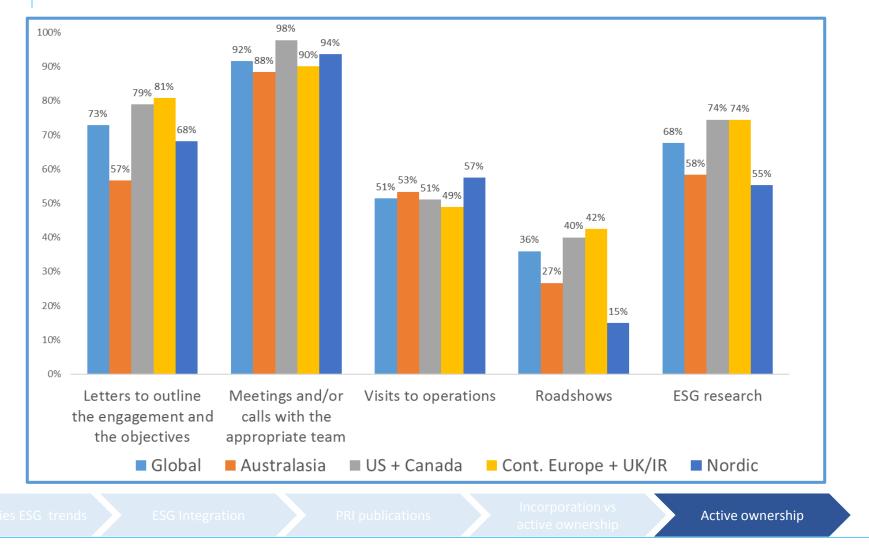
Tracking the impact of engagements

Individual versus collaborative





Engagement methods





BEST PRACTICE IN PROXY VOTING

Equities ESG trends

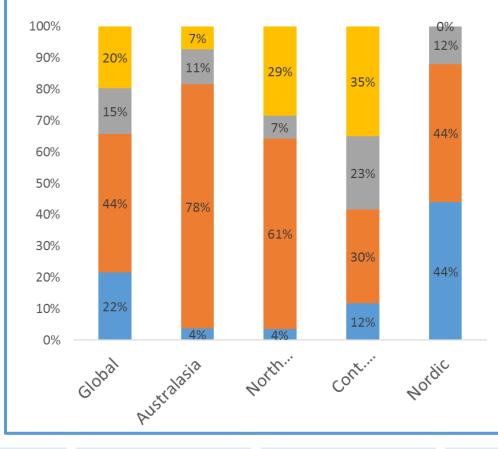
ESG Integration

PRI publication:

Incorporation vs active ownership



Voting approach by asset owners



Asset owners

- We hire service provider(s) that make voting decisions on our behalf.
- We hire service provider(s) that make voting decisions on our behalf, except for some predefined scenarios
- We hire service provider(s) that make voting recommendations or provide research
- We use our own research or voting team and make our own voting decisions without the use of service providers.

Equities ESG trends

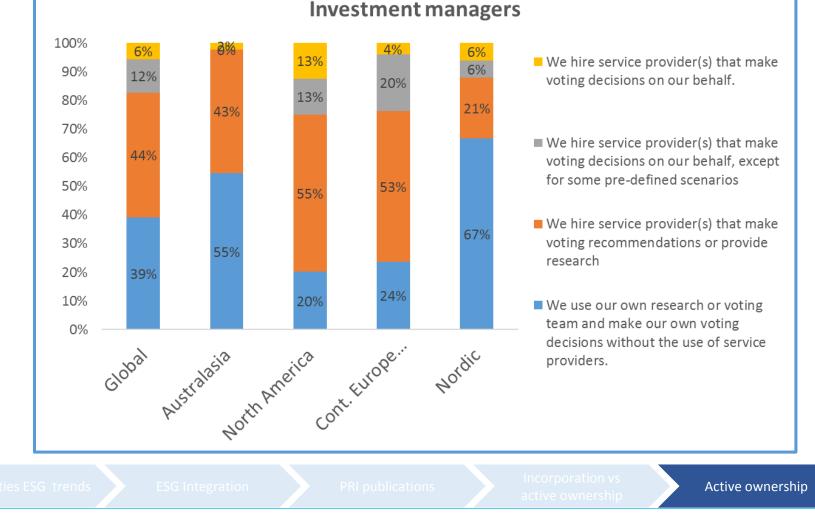
ESG Integration

PRI publications

ncorporation vs ctive ownership

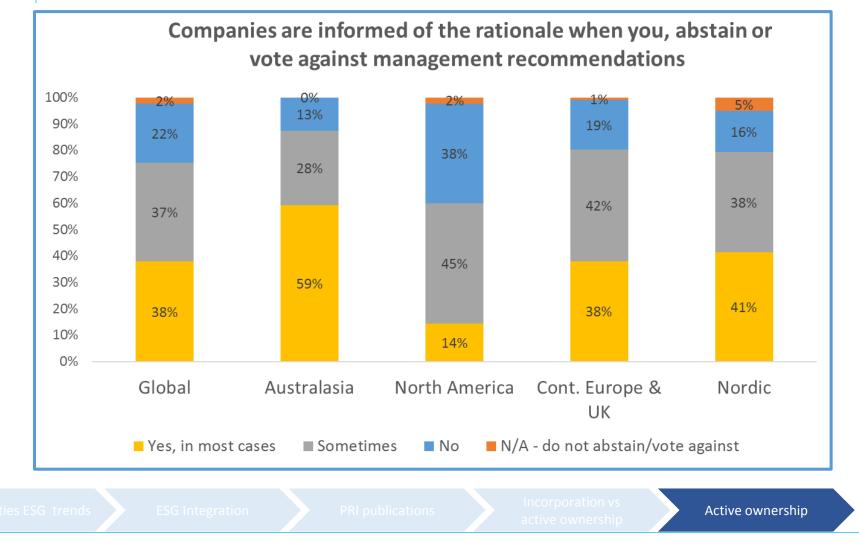


Voting approach by investment managers



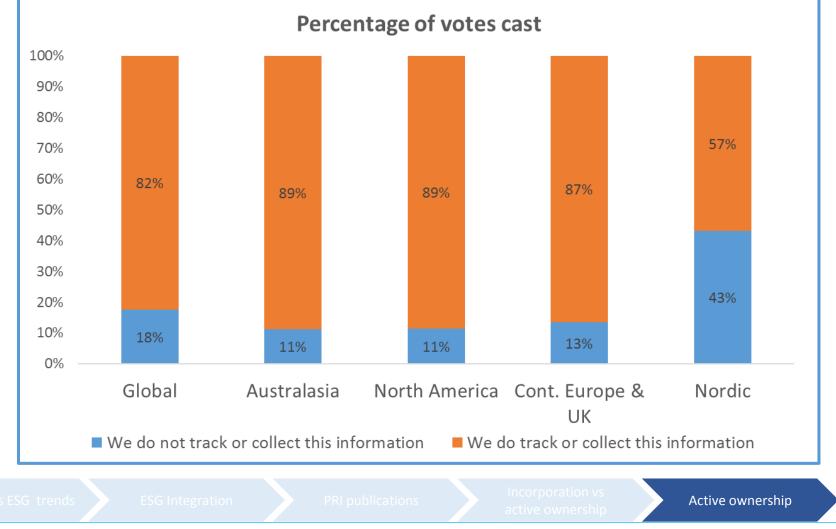


Abstention and voting against





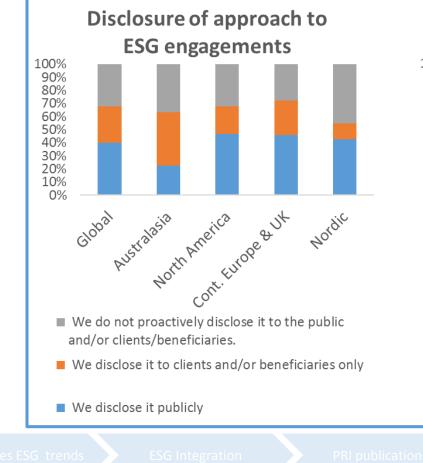
Tracking votes

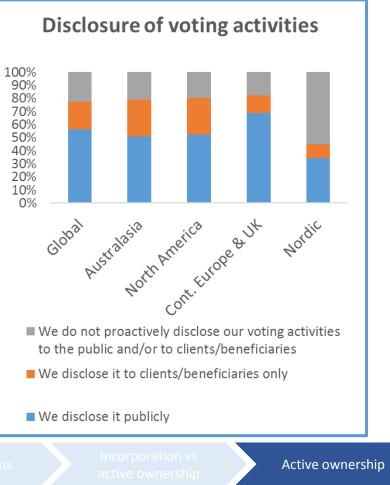




Disclosing active ownership activities

Engagement versus voting







Finsif Annual Seminar, Helsinki, 13 October 2016

CASE STUDIES ON INTEGRATING ACTIVE OWNERSHIP

Equities ESG trends

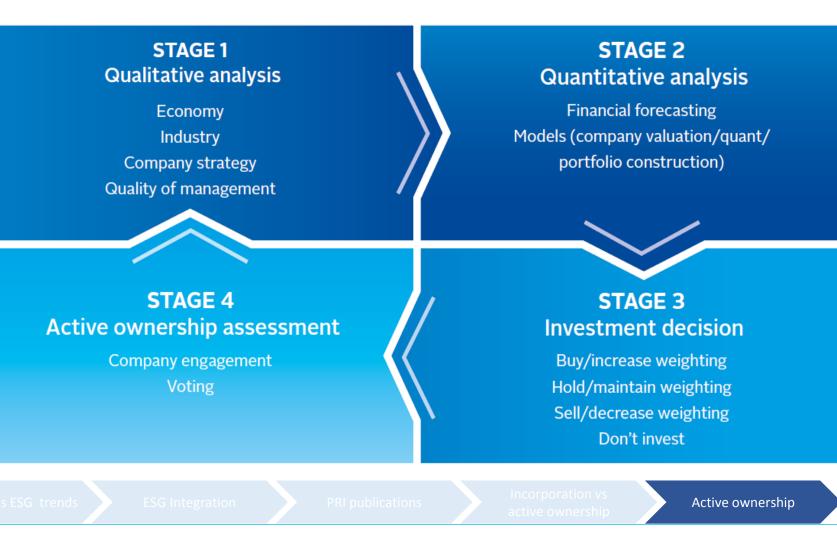
ESG Integration

PRI publication

Incorporation vs active ownership



Four stage integration model

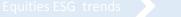


Finsif Annual Seminar, Helsinki, 13 October 2016

Case study 1

Using proprietary tools to inform engagements

- ESG dashboard provides access to proprietary and third-party ESG research on each stock in the investible universe.
- ESG portfolio monitor provides the aggregate ESG risk across portfolios in both absolute and benchmark-relative terms.
- It shows whether the company is currently being engaged, the progress made in the engagement and whether and the investor has voted against management.
- ESG specialists and portfolio managers will discuss the analysis and "at risk" stocks and agree engagement objectives.



ESG Integration

PRI publications

Incorporation vs active ownership



Case study 2

Engagements affecting portfolio construction

- The Director Engagement Program involves regular analyst visits and the involvement of member of the Board of Directors of VNH and the fund's asset manager.
- The program leads to rebalancing portfolios in accordance to the outcome of engagements.
- After successfully engaging with a pharmaceutical company on independency of the board, the investor increased its holdings to the maximum permitted limit.
- The investor divest fully from two rubber manufacturer, after being made aware by a NGO of corruption and deforestation.



Case study 3

Engaging companies before investing

- The investor identified an US industrial measurement tools manufacturer as an attractive investment opportunity but there is no long term sustainability strategy.
- During an initial due diligence meeting with the management team, the investor shared their analysis and presented a roadmap to a sustainability strategy.
- The company subsequently committed itself to the roadmap, and the investor took an initial stake and offered the prospect of a stake increase.
- It is estimated that benefits from adopting the road map amounts to over US\$12.3 million in pre-tax annual operating savings, US\$243 million in total market cap after a five-year holding period and an additional 60 basis points in annual return.



PRI'S COLLABORATION PLATFORM

Equities ESG trends

ESG Integration

PRI publication

Incorporation vs active ownership







Search Collaborations



SUGGESTED COLLABORATIONS





Deadline: May 04, 2016



Deadline: May 06, 2016

Submit proposal





Deadline: May 06, 2016

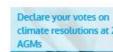




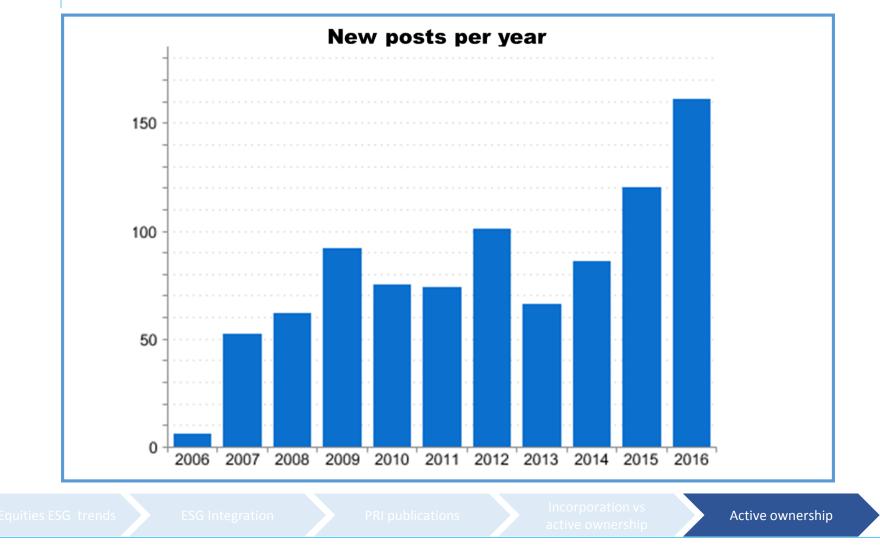






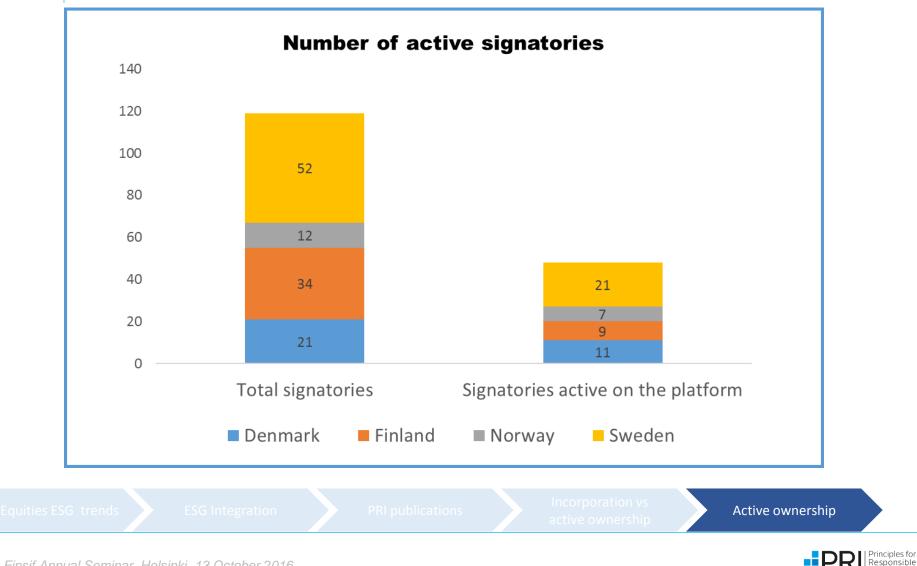


Use of the platform globally





Use of the platform in the Nordic region





2016 proxy voting season

Key trends in Responsible Investment

85 resolutions shared on PRI Collaboration platform:

Climate Change

- Nearly 30 resolutions at companies in US, Canada and Europe
- Request for companies to report on operational emissions management, portfolio resilience to a 2-degree scenario, renewable energy sourcing or public policy positions on climate change.
- 98.2% support at Suncor, and an average of 36.9% votes in favour at Exxon, Chevron, Anadarko Petroleum and Occidental Petroleum

Proxy access:

- Initiative led by NY City Comptroller and the NYC pension funds to nominate directors for the board using the corporate ballot
- 72 companies targeted in 2016
- Resolutions posted on Collaboration platform had an average vote in favour of 57.6%





2016 proxy voting season – cont.

Key trends in Responsible Investment

85 resolutions shared on PRI Collaboration platform:

Lobbying disclosure:

- Growing area for shareholder dialogue. Request for companies to disclose spending on political activity and/or establish more robust board-level oversight
- 20 resolutions at companies including Google, Pfizer, AT&T, TransCanada, Enbridge
- Majority received over 25% votes in favour

Equities ESG trends

SG Integration

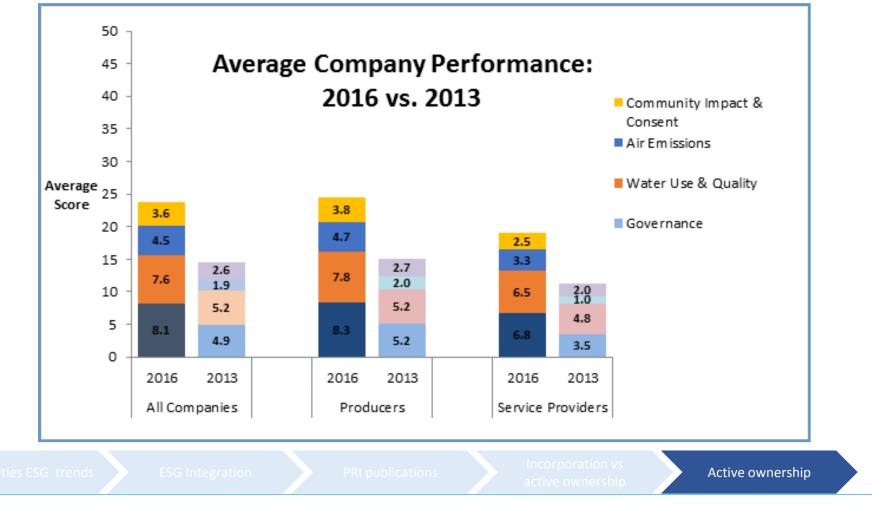
PRI publications

Incorporation vs active ownership



Collaborative engagement on fracking

Results of a 3 year engagement (2013-2016)





Priority ESG Issues

PRI will carry out further work across the organisation on these issues over the next 3 years



ENVIRONMENTAL Climate change Water risk

Fracking Deforestation SOCIAL Labour standards Human rights Inequality Gender diversity

GOVERNANCE Tax Anti-corruption Proxy voting Board accountability Executive pay

CLIMATE CHANGE



- Most commonly cited issue in this year's signatory survey
- Cross-cutting
- Dedicated work programme in the Blueprint

Equities ESG trends

ESG Integration

PRI publication

Incorporation vs active ownership



RI trends – climate change

Nordic AOs need to communicate to IMs they consider climate change a long-term risk

- Importance of climate change as long term investment risk
 - Nordic AOs (76%) assign a higher importance global average (66%)
 - Nordic IMs (50%) fall below the average for IMs globally (59%)
 - Reflected in the activities and tools listed for tackling climate change, with AOs listing the various options more often than IMs.

• Activities to tackle climate change risk:

- AOs: Seeking climate change integration by companies (64% of AOs)
- IMs: Targeted low carbon or climate resilient investments (47% of IMs).
- Tools to manage risks and opportunities:
 - **Carbon footprinting** most popular for both AOs (71%) and IMs (47%), Nordic AOs use this proportionally more than the global average (53%).
 - Also popular: Encouragement of internal/external portfolio managers to monitor emissions risk among both Nordic AOs (50%) and IMs (44%).





ANY QUESTIONS?

justin.sloggett@unpri.org yulia.sofronova@unpri.org

