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### **ESG 101 & Climate Risk Management**

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### Introduction



Dirk Cockrum

Managing Director

FORVIS ESG & Climate Risk

dirk.cockrum@forvis.com

303.503.0550

#### forvis.com

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### **AGENDA**

- ESG Defined
- ESG's Drivers
- ESG Frameworks & Standards
- How to Get Started Building an ESG Program
- ESG Reporting Examples
  - **ESG Reporting Best Practices**

# **ESG** Defined



### What Is ESG?

#### **Environmental, Social, & Governance**

Set of metrics & standards for an organization's operations that meet growing stakeholder demand for information about an organization's impacts in these areas & how the organization addresses those impacts & governs itself.

13%<sup>1</sup>

#### **Environmental**

- Emissions levels, intensity, & trends
- Climate-related risks
   & opportunities
- Energy management& efficiency
- Water use
- Waste management

32%

#### Social

- Human capital development
- Talent attraction & retention
- Diversity, equity, & inclusion (DEI) programs
- Corporate citizenship& philanthropy

55%<sup>1</sup>

#### Governance

- Board composition & committee structure
- Executive compensation
- Bribery & corruption prevention programs
- Risk & crisis management
- Cybersecurity



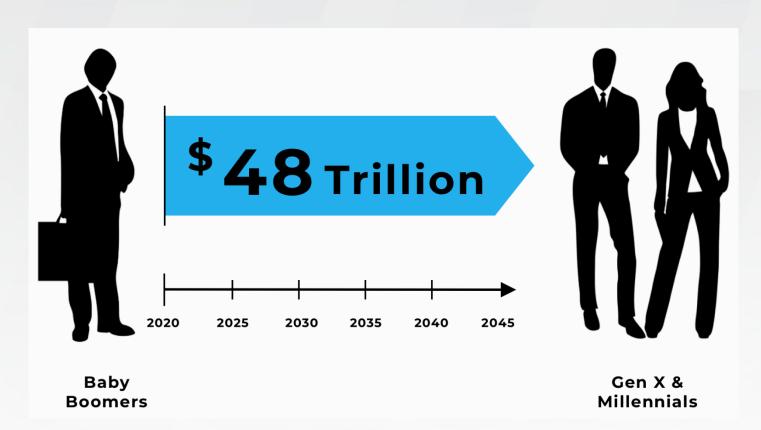
<sup>1</sup>Weights per S&P Global's 2021 Corporate Sustainability Assessment Methodology for Banks

# **ESG Drivers**





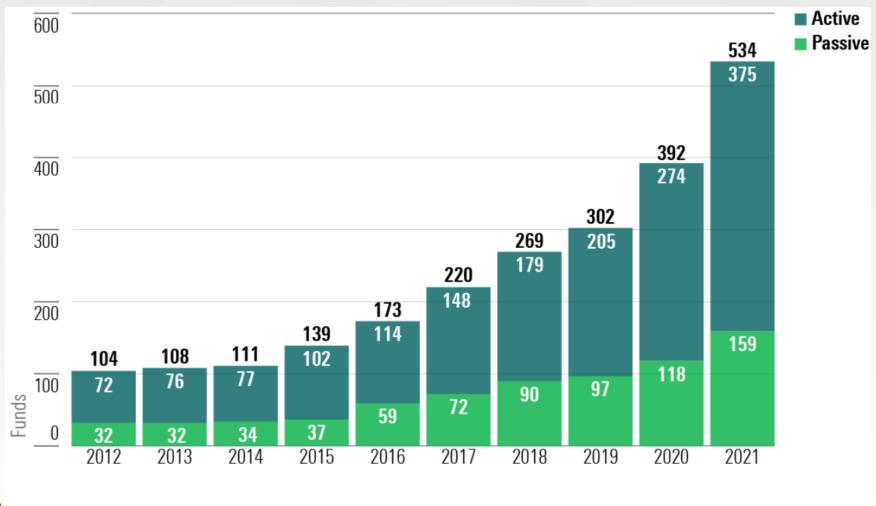
# **ESG's Drivers – Demographics**



- In the U.S., according to Cerulli
  Associates, over the next 25
  years, baby boomers will transfer
  nearly \$48 trillion in assets to
  their heirs & charities
- This enormous transfer of wealth is believed to be a driving force of ESG in the coming years
- In many major markets, including the U.S. & EU, ESG integration is being seen as part of a fiduciary duty

# ESG's Drivers - Sustainable Investing

The Sustainable Funds Universe: A Fivefold Increase in the Past Decade





FORV/S Source: Morningstar Direct. Data as of Dec. 31, 2021. Note: Includes funds that have been liquidated during this period.

### **ESG Drivers – U.S. Commitments**

### President Biden has pledged that the U.S. will:

- Cut greenhouse gas emissions 50% to 52% by 2030 from 2005 levels
- Have net-zero emissions by 2050

### GHG breakdown

- 31% Manufacturing (cement, steel, plastic, oil refining, etc.)
- 27% Electricity
- 19% Agriculture
- 16% Transportation
- 7% Heating, cooling, & refrigeration

Source: Rhodium Group



### **ESG Drivers – Regulatory Developments**

May 5, 2021 – Presidential Executive Order on Climate-Related Financial Risk

Orders development of federal lending, underwriting, & procurement requirements

March 4, 2021 – SEC Established Enforcement Task Force Focused on Climate & ESG Issues

October 21, 2021 – Financial Stability Oversight Council (FSOC) Report: Climate-Related Financial Risks

- "Climate change is an emerging and increasing threat to U.S. financial stability"
- Outlines regulatory recommendations for financial regulators

March 21, 2022 – SEC Proposed Mandatory Climate Reporting

March 30, 2022 – FDIC Issued Principles for Climate-Related Financial Risk Management for Large Financial Institutions



# **SEC Proposed Climate Reporting Rule**

### Intent



 To give investors clear, consistent, & comparable climaterelated information

### Governance



- Who on the board oversees climate-related risks
- What is their expertise
- How are they informed
- Frequency of discussion
- Involvement in target & goal setting
- Management's role & expertise

### **Strategy**



- Physical risks, acute & chronic
- Transition risks, acute & chronic
- Impact on strategy, business model, outlook, capital allocation
- Affect on financial statements



# SEC Proposed Climate Reporting Rule cont.

### **Risk Management**



- Process for identifying, assessing, & managing risks
- If have a transition plan:
  - Board involvement
  - Actions taken in the reporting year
  - Metrics & targets used to measure progress

### **Financial Metrics**



- Financial impacts of
  - Severe weather events
  - Transition activities
- Expenses & capital expenditures
  - To mitigative weather events
  - For transition activities
- Impacted estimates & assumptions

### **GHG Emissions**



- Scope 1 & Scope 2 GHG emissions
- Scope 3 emissions, if material or included in targets and goals
- Gross emission & intensity



### **Types of Emissions**

Scope 1: Emissions a company generates

Scope 2: Emissions a company creates indirectly, for example by using electricity

Scope 3: Emissions generated up & down the company value chain, including by suppliers, customers, financed emissions



# SEC Proposed Climate Reporting Rule Schedule

Registrant Type	Disclosure & Attestation Compliance Dates (assuming a December 2022 effective date and December 31, fiscal year end)						
	Scope 1 &2	Attestation – Sc Emiss	Scope 3 Emissions Disclosures,				
	Emissions and Proposed Disclosures	Limited Assurance	Reasonable Assurance	if material or in reduction target or goal			
Large Accelerated	Fiscal year 2023 (filed in 2024)	Fiscal year 2024 (filed in 2025)	Fiscal year 2026 (filed in 2027)	Fiscal year 2024 (filed in 2025)			
Accelerated	Fiscal year 2024 (filed in 2025)	Fiscal year 2025 (filed in 2026)	Fiscal year 2027 (filed in 2028)	Fiscal year 2025 (filed in 2026)			
Non-Accelerated	Fiscal year 2024 (filed in 2025)	Exempted	Exempted	Fiscal year 2025 (filed in 2026)			
Smaller Reporting Company	Fiscal year 2025 (filed in 2026)	Exempted	Exempted	Exempted			



### What Does Climate Change Have to Do with Banking?

- "Climate risk is likely to have a major influence on banks' loan quality, and depending on how climate change unfolds, and on the policy response to it, the losses that ensue could be substantial."
- "Our analysis shows that climate risk is likely a key determinant of banks' loan quality and creditworthiness."
- "Loan losses could be around 20% higher under the most extreme climate scenario."

Source: Moody's Investors Service on October 4, 2021



### Climate change creates opportunities and challenges for the banking industry.

#### Opportunity: Financing a green agenda



Transformation of energy production toward renewables



Plant refurbishments to avoid or capture and store carbon emissions



Electrification of transport and automation of mobility

#### Challenge: Protecting balance sheets from uncertainty



Real-estate market collapse in low-lying areas



Increased risk of major crop failures with implications for meat and dairy producers



Closures of coal-powered power plants before end of useful life

Up to \$500 billion in annual adaptation costs<sup>1</sup>

For banks in the European Union, up to 15% of the balance sheet is at risk<sup>2</sup>

McKinsey & Company



Costs until 2050, according to the UN Adaptation Gap Report (2018).

<sup>&</sup>lt;sup>2</sup> Based on analysis of 46 sample EU banks and their portfolio composition in industries and geographies likely affected by physical and transition risks.

# Opportunities Related to Global Systemic Risk

Global systemic risk		Investment gap (per annum)	Transformational investment examples		
Climate change	· Ö	\$2.4 trillion <sup>6</sup>	Cleantech infrastructure, renewable energy, sustainable natural resources		
Water security	00	\$670 billion <sup>7</sup>	Food production, energy production, water quality infrastructure		
Geopolitical stability		Cross-trend opportunities	Infrastructure, renewable energy, climate-resilient infrastructure, automated manufacturing		
Technological evolution		\$1.7 trillion <sup>8</sup>	Tech-related venture capital, electric vehicles, renewable energy, global connectivity, battery storage, mobile networks, fintech		
Demographic shifts	a Da	\$1.5 trillion <sup>9, 10</sup>	Education, healthcare, infrastructure, care of ageing populations		
Low and negative real long-term interest rates	<b>&gt;&gt;</b>	Cross-trend opportunities	Venture capital, distressed debt, infrastructure		
Total*		\$6.27 trillion			



# **ESG Frameworks**& Standards



### **Common ESG Perspectives & Assumptions**

- Public disclosure of performance data leads to improved performance
- Only public information is considered
  - If an organization isn't disclosing how they manage a risk, it is assumed that the organization is not managing that risk
  - Exceptions
    - Some S&P Global, Fitch, & Moody's ESG ratings
    - Customers who want details for procedures, training, audit results, etc.
  - Organizations are rated based on machine readable public information
  - ESG information needs to be consolidated into a report
- Governance, Governance





### Consolidating ESG Frameworks & Standards









**Investors** 

**Standards by Industry** 

**Primary Audience** 

**How to Determine What to Report** 

**Basis for Materiality** 

Multistakeholder

Stakeholder Analysis

Sustainable Development



**Financial** 

**ISSB** 



International Sustainability Standards Board



# Task Force on Climate-Related Financial Disclosure (TCFD)



#### Governance

The organization's governance around climaterelated risks & opportunities

### **Strategy**

The actual & potential impacts of climate-related risks & opportunities on the organizations businesses, strategy, & financial planning

### **Risk Management**

The process used by the organization to identify, assess, & manage climate-related risks

### **Metrics & Targets**

The metrics & targets used to assess & manage relevant climate-related risks & opportunities



# Sustainability Accounting Standards Board (SASB)

- Standard setting process modeled after FASB
- Organized by industry
- Identify ESG topics most likely to be financially important for an industry sector
- Intended for an investor audience
- Unique standards for over 70 industries
- Allows for comparability between companies within the same industry



# **Sustainability Disclosure Topics & Accounting Metrics – SASB**

Topic	Accounting Metric	Category	Unity of Measure	Code
Data Security	(1) Number of data breaches, (2) percentage involving personally identifiable information (PII), (3) number of account holders affected [2]	Quantitative	Number, Percentage (%)	FN-CB-230a.1
	Description of approach to identifying & addressing data security risks	Discussion & Analysis	n/a	FN-CB-230a.2
Financial Inclusion & Capacity Building	(1) Number & (2) amount of loans outstanding qualified to programs designed to promote small business & community development [3]	Quantitative	Number, Reporting Currency	FN-CB-240a.1
	(1) Number & (2) amount of past due & nonaccrual loans qualified to programs designed to promote small business & community development	Quantitative	Number, Reporting Currency	FN-CB-240a.2
	Number of no-cost retail checking accounts provided to previously unbanked or underbanked customers	Quantitative	Number	FN-CB-240a.3
	Number of participants in financial literacy initiatives for unbanked, underbanked, or underserved customers [4]	Quantitative	Number	FN-CB-240a.4

<sup>[2]</sup> Note to FN-CB-230a.1- Disclosure shall include a description of corrective actions implemented in response to data breaches

<sup>[4]</sup> Note to FN-CB-240a.4— Disclosure shall include a description of financial literacy initiatives



<sup>[3]</sup> Note to FN-CB-240a.1— Disclosure shall include a description of how the entity's results of the Community Reinvestment Act (CRA) Examinations are integrated into its financial inclusion & capacity building strategy

# Sustainability Disclosure Topics & Accounting Metrics – SASB

Table 1. Sustainability Disclosure Topics & Accounting Metrics (continued)

Topic	Accounting Metric	Category	Unity of Measure	Code
Incorporation of ESG	Commercial & industrial credit exposure, by industry	Quantitative	Reporting currency	FN-CB-410a.1
Factors in Credit Analysis	Description of approach to incorporation of environmental, social, & governance (ESG) factors in credit analysis	Discussion & Analysis	n/a	FN-CB-410a.2
Business Ethics	Total amount of monetary losses as a result of legal proceedings associated with fraud, insider trading, anti-trust, anti-competitive behavior, market manipulation, malpractice, or other related financial industry laws or regulations <sup>[5]</sup>	Quantitative	Reporting currency	FN-CB-510a.1
	Description of whistleblower policies & procedures	Discussion & Analysis	n/a	FN-CB-510a.2
Systemic Risk Management	Global Systemically Important Bank (G-SIB) score, by category <sup>[6]</sup>	Quantitative	Basis points (bps)	FN-CB-550a.1
	Description of approach to incorporation of results of mandatory & voluntary stress tests into capital adequacy planning, long-term corporate strategy, & other business activities	Discussion & Analysis	n/a	FN-CB-550a.2

<sup>[5]</sup> Note to FN-CB-510a.1- The entity shall briefly describe the nature, context, & any corrective actions taken as a result of monetary losses

<sup>[6]</sup> Note to FN-CB-550a.1— The entity shall describe whether the Global Systemically Important Bank (G-SIB) score is calculated by the entity or obtained from regulatory authorities & whether the entity is required to report the underlying data to the regulators



# **Sustainability Disclosure Activity Metrics – SASB**

Activity Metric	Category	Unity of Measure	Code
(1) Number & (2) value of checking & savings accounts by segment: (a) personal & (b) small business	Discussion & Analysis	Number, Reporting Currency	FN-CB-000.A
(1) Number & (2) value of loans by segment: (a) personal, (b) small business, & (c) corporate [7]	Quantitative	Number, Reporting Currency	FN-CB-000.B

[7] Note to FN-CB-000.B - Mortgage loans as well as revolving credit loans shall be excluded from the scope of disclosure







### **ISSB Exposure Draft Standards**

- General Requirements for Disclosure of Sustainability-Related Financial Information
  - Other ISSB Standards set specifics
  - Directs preparers to SASB Standards, in absence of IFRS standard
- 2. Climate-Related Financial Disclosures
  - Incorporates TCFD recommendations
  - Industry-specific metrics based on SASB Standards

#### Both

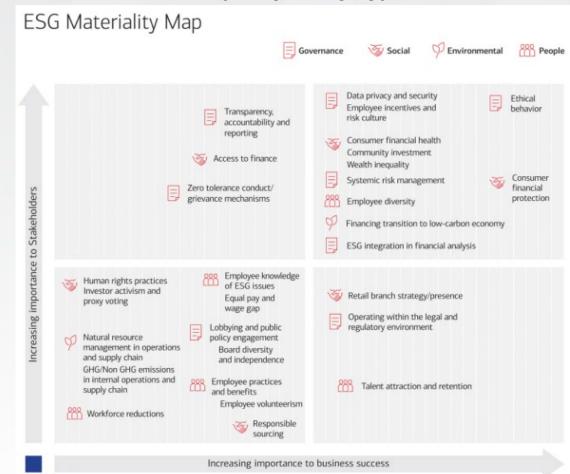
- Same reporting period as financial statements
- Reported at the same time as financial results
- Disclosure themes
  - Governance
  - 2. Strategy
  - 3. Risk management
  - 4. Metrics & targets



### **Global Report Initiative**

- Identify material topics by
  - Significance of the organization's effects on the economy, environment, & society, which can indicate its contribution, positive or negative, to sustainable development
  - Substantive influence on the stakeholder assessments & decisions
- Takes into account
  - Employee & shareholder interests & expectations
  - Interests & topics raised by contractors, suppliers,
     local communities, vulnerable groups, & civil society

#### **Bank of America**





# How to Get Started Building an ESG Program



# AICPA ESG Recommendations Steps Clients Can Take for ESG Reporting & Assurance

There is a significant financial interest in reported ESG information, so the credibility & reliability of that information is essential

Apply financial reporting rigor to measurement & reporting of ESG information

- 1. Establish governance
- Incorporate ESG into ERM processes
- Establish board oversight over ESG matters
- Pick ESG reporting frameworks
- Determine which ESG KPIs are most relevant & important
- 2. Apply financial reporting processes to ESG data
- Assess data source types
- Determine whether policies exist so that data are
  - Reasonable & accurate
  - Timely & reliable
  - Consistent & comparable
- Develop & document internal controls for data gathering & reporting
- Engage a CPA firm to perform a readiness assessment to help prepare for assurance

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 $Source: \underline{https://www.aicpa.org/press/pressreleases/2021/leading-accounting-association-releases-six-2021-esg-trends-for-accounting-and-finance-professionals.html}$ 

# How to Get Started – Four-Phase Approach for Building an ESG Program

### Assess

- Define what success looks with executive leadership
- Assign an executive sponsor, lead, & support committee
- Develop a year one plan & obtain budget
- Conduct a materiality assessment to understand what's important
- Inventory ESG data already collected for other purposes
- Determine which frameworks
   & standards to use
- Conduct a gap analysis of policies & programs

### Design

- Develop an ESG narrative & messaging
- Design ESG report based on internal & external expectations
- · Identify data sources
- Develop controls to confirm consistency, comparability,
   & reliability of data
- Develop communication plan for different audiences
- Evaluate technology solutions for reporting
- Provide transparency of reporting processes

### **Implement**

- Develop an ESG webpage
- Establish repeatable reporting processes
- Draft the report using ratings criteria to develop MD&A
- Use a structured, machinereadable format
- Conduct third-party readiness assessment/assurance
- Develop & implement controls remediation plan
- Use financial reporting process for report review & approval
- Finalize & publish
- Execute messaging & communication plans

### **Monitor**

- Actively seek key stakeholder feedback
- Measure & refine reporting & messaging based on stakeholder feedback
- Develop feedback tracking process to capture, prioritize, assign, & document completion of tasks addressing feedback
- Implement priority control enhancements
- Develop a year two to five plan & budget

Ongoing Third-Party Assurance from Independent Accounting Firm to Enhance the Reliability of & Confidence in Reported Information



# ESG Reporting Examples



# **ESG Strategy**

"The Rule of 3" Is Commonly Used



### Accelerate the transition to a low-carbon economy through our \$250 Billion Environmental Finance Goal

Finance and facilitate environmental solutions over five years in support of:

- Renewable Energy Energy Efficiency
- Clean Technology Green Buildings
- Sustainable Transportation
   Water Quality and Conservation
- Circular Economy
- Sustainable Agriculture and Land Use



### Measure, manage and reduce the climate risk and impact of our client portfolio

Enhance our TCFD implementation and disclosure through policy development, portfolio analysis and stakeholder engagement



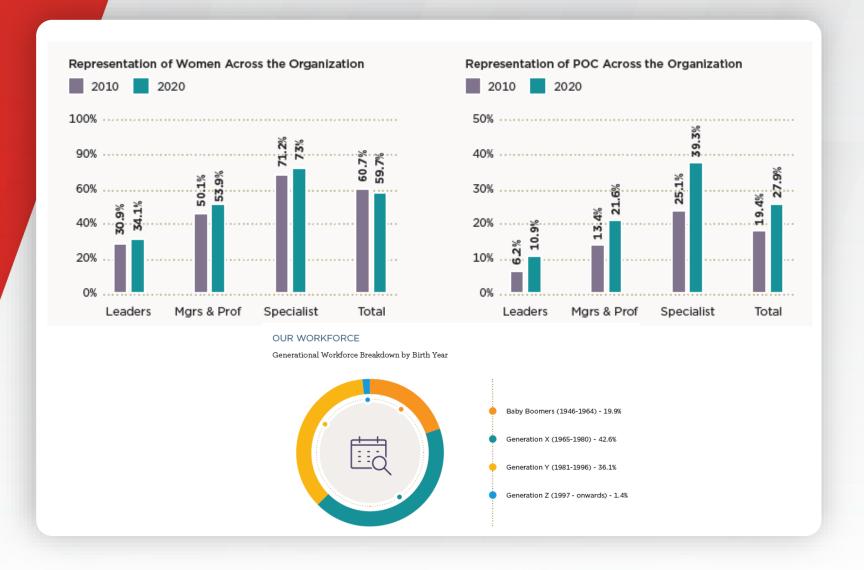
### Reduce the environmental footprint of our facilities and strengthen our sustainability culture

Continue to minimize the impact of our global operations through operational footprint goals, and further integrate sustainable practices across the company

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# Charts & Infographics

Workforce Data



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# **ESG Data Tables**

Increasingly the Most Important Part of ESG Reports

ESG Data								
Topic	Accounting Metric	Units	2018	2019	2020	SASB(a)	GRI (Core)(b)	SDGs
Air Quality	Air emissions for the following pollutants:							
	$\mathrm{NO}_{\mathrm{X}}$ (excluding $\mathrm{N}_{2}\mathrm{O}$ ) $\dagger$	Thousand metric tons	58.7	57.9	52.2	EM-MD-120a.1 EM-EP-120a.1	305-7	3 11 12
	\$O <sub>X</sub> †	Thousand metric tons	0.3	0.4	0.3	EM-MD-120a.1 EM-EP-120a.1	305-7	3 11 12
	VOCs†	Thousand metric tons	13.7	14.4	12.7	EM-MD-120a.1 EM-EP-120a.1	305-7	3 11 12
	$PM_{10}\dagger$	Thousand metric tons	1.3	1.4	1.4	EM-MD-120a.1 EM-EP-120a.1	305-7	3 11 12
Supply Chain Management	Percentage of small business, diverse, and veteran-owned supplier procurement spend vs. total supplier procurement spend*	%	-	31 %	41 %		414-1	8 9
	Total small business, diverse, and veteran-owned supplier spend*	Millions	-	\$1,593	\$1,675		414-1	8 9
	Percentage of service suppliers subject to performance audits*	%	100%	100%	100%			
	Number of service suppliers audited*	#	172	248	569			
	Percentage of service suppliers	%	5%	7%	17%			
Prevention of Corruption and Bribery	Legal or regulatory fines, settlements, or penalties associated with bribery and corruption*	Dollars	\$0	\$0	\$0	EM-EP-510a.2	205-2	16
	Contributions to political campaigns, candidates, and parties*	Thousands	\$0	\$0	\$0		415-1	16
	Payments to lobbying organizations*	Thousands	\$575	\$265	\$197		415-1	16
Political Contributions	Trade association dues*	Thousands	\$2,502	\$2,523	\$2,680		415-1	16
	Non-deductible portion of trade association dues attributed to lobbying and political expenditures?	Thousands	\$180	\$225	\$212			
	Payments made in relation to ballot measures*	Thousands	\$10	\$0	\$0			
Employee Training &	Hours of employee development training*	Thousand hours	211	228	351		404-1	8 9
Development	Total investment in employee training*	Millions	-	-	\$27			8 9

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# **ESG Reporting Best Practices**



### **ESG** Reporting Best Practices

Commit to getting value out of the process & the data that comes from it

Engage with investment community to understand how they are integrating ESG into investment decisions

Implement controls over ESG reporting with the same discipline & controls over financial reporting

Start reporting with ESG data already collected for other purposes

Use your financial reporting processes as a model to get started



### **Questions?**



Dirk Cockrum

Managing Director

FORVIS ESG & Climate Risk

dirk.cockrum@forvis.com

303.503.0550

#### forvis.com

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