Using Weather & Climate Data To Advance Retail Sustainability, Asset Protection, & Operational Resilience RILA Retail ESG Initiative



September 8, 2022

WELCOME



Erin Hiatt Vice President, Corporate Social Responsibility RILA

erin.hiatt@rila.org

AGENDA

- 1. Welcome & Introductions | Antitrust
- 2. Overview of NOAA Environmental Data with Deke Arndt, NOAA NCEI
- 3. Overview of Argonne's CCRDS approach with Tom Wall, Argonne
- 4. Case Studies with Jess Filante, AT&T and Mani Balakrishnan, Zebra
- 5. Q&A with speakers
- 6. Discussion
- 7. Next Steps

Antitrust Statement

RILA believes strongly in competition. Our antitrust laws are the rules under which our competitive system operates. It is RILA's policy to comply with both the letter and the spirit of antitrust laws. This Antitrust Statement has been adopted to avoid even the appearance of impropriety under the antitrust laws.

At any association meeting, participants must avoid any discussion of the following subjects in order to avoid even an appearance of impropriety:

- Do not discuss current or future prices, price quotations or bids, pricing policies, discounts, rebates, or credit terms.
- Do not discuss cost information such as production costs, operating costs, or wage and labor rates.
- Do not discuss profits or profit margins, including what is a "fair" profit margin.
- Do not discuss allocating markets, territories, or customers.
- Do not discuss current or future production or purchasing plans, including plans to take facility downtime, production quotas, or limits on output.
- Do not discuss refusing to deal with any suppliers, customers, or competitors (or any class or type of suppliers or customers).
- Do not require or pressure any supplier, customer, or competitor to adopt any particular actions or policies.
- Never agree on any aspect of future pricing or output.

Do not engage in prohibited discussions before a meeting or after a meeting is over. These antitrust guidelines apply not only in formal RILA meetings, but also in hallways, casual conversations, phone calls, emails, text messages, cocktail parties, golf outings, or any other setting that is related in any way to the RILA. If you have questions or concerns, or if you are uncertain about the propriety of any subject of discussion or proposed activity, you should stop the discussion immediately and bring the issue to the attention of RILA staff, or consult your company's general counsel.

BROADER CONTEXT

How might weather and climate data analysis...

- ...support existing supply chain and asset protection/loss prevention preparedness and resiliency efforts?
- ...inform product procurement and merchandising?
- ...support ESG efforts and evolving reporting expectations re: TCFD, SASB/ISSB, SEC reporting on risk evaluation and scenario analysis?



Hear Duke Energy Sustainable Solutions along with Argonne Lab and Stewart & Stevenson discuss energy resiliency.

Spotlight: Energy Resiliency in the Supply Chain

- In the final webinar of RILA's 2021 Transportation & Sustainability Series, Argonne National Laboratory spoke about the current and future state of energy resiliency.
- Listen to the recording and view the slides <u>here!</u>

NOAA INFORMATION FOR CLIMATE RESILIENCE AND SUSTAINABILITY

BY [ERIN HIATT] | 06/17/2022

By Derek Arndt, Jenny Dissen, Michael Brewer, Erin Hiatt, Emily McAullife

In October 2021, the U.S. The Department of Commerce (DOC) worked with RILA's Erin Hiatt and several retailers to coordinate a listening session for the retail industry and the National Oceanic and Atmospheric Administration (NOAA). The goal of the session was to understand needs and opportunities to better leverage NOAA's climate information for the retail industry's tactical and strategic decision-making around climate resilience and sustainability.



Spotlight: NOAA Information for Climate Resilience and Sustainability

- In October 2021, the U.S. The Department of Commerce (DOC) worked with RILA's Erin Hiatt and several retailers to coordinate a listening session for the retail industry and the National Oceanic and Atmospheric Administration (NOAA).
- The goal of the session was to understand needs and opportunities to better leverage NOAA's climate information for the retail industry's tactical and strategic decision-making around climate resilience and sustainability.
- Read a blog recapping the session <u>here!</u>

REMINDERS

- 1. Recording and slides will be shared as follow up, along with relevant links/resources
- 2. Please participate in aggregated audience polls!
- 3. How to ask a question or make a comment:
 - 1. Pose questions at any time <u>via the Q&A box</u>. Only questions submitted with the Q&A box will be considered. We will answer them during the Q&A portion of the agenda.
 - 2. Feel free to use chat to otherwise provide comments or respond to open-ended panelist questions (including "Other" option in live polls).

DEKEARNDT CHIEF OF CLIMATE SCIENCE AND SERVICES DIVISION NOAA NATIONAL CENTER FOR ENVIRONMENTAL INFORMATION





National Centers for Environmental Information (NCEI)

September 2022

NOAA / RILA Relationship

... and some information from NCEI

Deke Arndt (and Jenny Dissen and Mike Brewer) National Centers for Environmental Information North Carolina Institute for Climate Studies

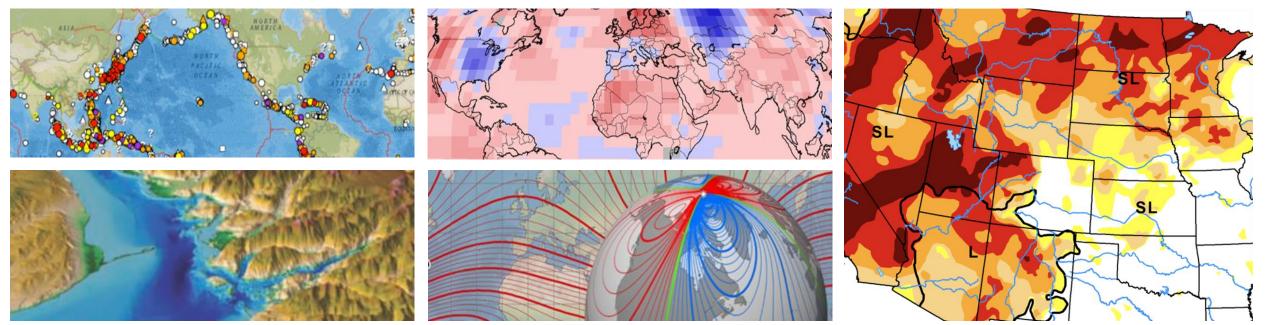
NCEI Products and Services

Range of Products

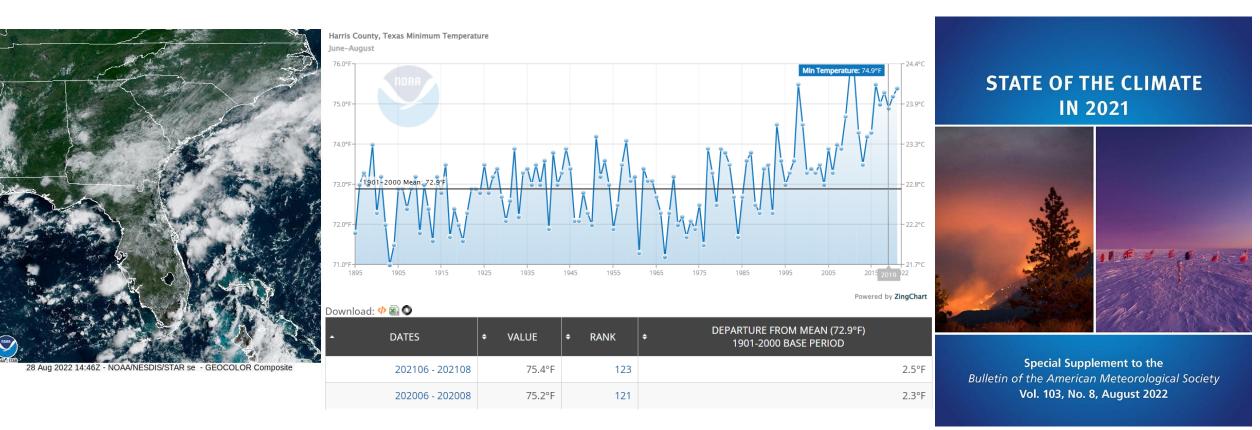
- Time scale: Hourly to Decadal
- Geographic scale: Local to Global

Technical Expertise

- Aerosols to Coastal Inundation
- Drought Monitoring to Ocean Surface Winds
- Paleoclimatology to US/Global Climate Monitoring



Current / Recent / Historical data explains events and outcomes, aligns with your history, informs case studies, feeds your models with ground-truth



What is "Normal" in Ft. Lauderdale? What is the current drought condition in Lincoln? How severe was the drought of 2012?

Future / Forward-looking information explains events and outcomes, aligns with your history, informs case studies, feeds your models with ground-truth

Detailed Forecast		Sea Level Rise Viewer				Ente	r ar					
Tonight	Partly cloudy, with a low around 61. South v	Sea Level Rise	WATER LEVEL	VIEW B	Y SCENARIO	BY YEAR ?		~				
Thursday	Partly sunny, with a high near 83. Breezy, w could gust as high as 25 mph.	Local	10ft - 9ft -			♥ Location: Town	of Greenville,	Wisconsi	in			
Thursday Night	A 20 percent chance of showers and thunde 5 to 10 mph, with gusts as high as 15 mph.	Scenarios	8ft - 7ft -			DURATION	1	year	2 years	5 years	AVERAGE RECURREN	NCE INTERVAL
Friday	Mostly cloudy, with a high near 66. West wi	Mapping Confidence	6ft –			60-min	1	.15	1.33	1.65	1.95	2.37
Friday Night	Mostly cloudy, with a low around 46. West v	Ø	5ft -	2100 : 5.25ft		2-hr	1	.40	1.62	2.00	2.35	2.85
Saturday	Sunny, with a high near 68. Light west wind	Marsh Migration	4ft -			3-hr	1	.57	1.80	2.21	2.59	3.15
	mph.	ĥ	3ft -	2080 : 3.44ft		6-hr	1	.87	2.13	2.61	3.06	3.71
Saturday Night	Mostly clear, with a low around 44. West win		2ft - 🖣	2060 : 2.03ft		12-hr	2	2.18	2.50	3.07	3.61	4.39
Sunday	Sunny, with a high near 69. Calm wind beco	-∿•	and a second sec	2040 : 1.05ft		24-hr	2	2.52	2.88	3.54	4.15	5.05
Sunday Night	Mostly clear, with a low around 46. West wi	Hiph Tide	мннм	2020 : 0.43ft	FOR INTERME	2-day	2	2.90	3.28	3.99	4.66	5.66
		i	b			3-day	3	8.17	3.58	4.34	5.07	6.14
						4-day	3	3.41	3.86	Atlas 14: 3.10 in		6.58
						7-day	4	80.	4.60	Projected Value:	3.58 in	7.69

10-day

4.68

5.27



8.60

90% Confidence Interval: 2.78-4.89

Expert Assessment: Past, Present Future *combines the state of the scientific understanding with robust blended and diverse data sets into easy-to-digest summaries*

🕯 🛛 ABOUT 👻 CHAPTERS 👻 DOWNLOADS 👻



Front Matter

About this Report Guide to the Report

Summary Findings

1. Overview

National Topics

2. Our Changing Climate

- 3. Water
- 4. Energy Supply, Delivery & Demand
- 5. Land Cover & Land-Use Change
- 6. Forests

7. Ecosystems, Ecosystem Services, & Biodiversit

- 8. Coastal Effects
- 9. Oceans & Marine Resources

National Topics (cont.)

- 13. Air Quality 14. Human Health
- 15. Tribes & Indigenous Peoples
- 16. Climate Effects on U.S. International Interests
- 17. Sector Interactions, Multiple Stressors, & Complex Systems

Regions

- 18. Northeast
- 19. Southeast
- 20. U.S. Caribbean
- 21. Midwest22. Northern Great Plains
- 23. Southern Great Plains
- 24. Northwest
- 25. Southwest

- Responses
- 28. Reducing Risks Through Adaptation Actions
- 29. Reducing Risks Through Emissions Mitigation

Appendices

- 1. Report Development Process
- 2. Information in the Fourth National Climate

Assessmen

3. Data Tools

- 4. Looking Abı
- 5. Frequently /

DELAWARE

Key Messages

Temperatures in Delaware have risen more than 3°F since the beginning of the 20th century. Under a higher emissions pathway, historically unprecedented warming is projected during this century. Heat waves are projected to be more intense and cold waves less intense.

Precipitation is projected to increase, as are the number and intensity of extreme precipitation events.

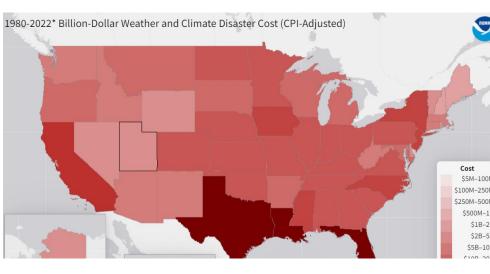
Since 1900, global sea level has risen by about 7–8 inches and is projected to continue to rise, with a likely range of 1–4 feet. Delaware sea level rise has been higher due to land subsidence (sinking). The number of tidal floods has been increasing. The low-elevation areas of Delaware are highly vulnerable to sea level rise.

NOAA National Centers for Environmental Information | State Climate Summaries 2022 150-DE

Delaware is located on the eastern coast of the North American continent. Its mid-latitude location and proximity to the Atlantic Ocean greatly influence its climate, which is characterized by cold winters and warm summers. The jet stream is often located near the state, particularly in winter and spring. Storm systems associated with the jet stream bring frequent precipitation and fluctuating temperatures. The state often experiences strong winter storms known as nor'easters, which derive their energy from the contrast between cold air in the continental interior and warmer air over the western Atlantic Ocean. Delaware, with the lowest average elevation of all the U.S. states, experiences land subsidence. Its shoreline spans



Billion Dollar Disasters & Risk



				Socioeconomic Vulnerabilities	S. Barbara County
				Below Poverty (% of Population)	14.80%
Historic Risk	S. Barbara County	California	U.S.	Income (Per Capita Income)	\$34,229.00
Drought Risk	100.00	33.35	11.61	No High School Diploma	19.00%
Flooding Risk	15.38	14.18	9.13	(% of Population)	
Freeze Risk	10.57	2.71	15.72	Age 65+ (% of Population)	14.60%
Severe Storm Risk	6.36	8.85	16.99	Age < 18 (% of	22.30%
Tropical Cyclone Risk		0.14	4.36	Population)	0.000/
Wildfire Risk	37.47	28.74	6.30	Disabled % of Population	9.90%
Winter Storm Risk	1.72	5.91	13.71	Single Parent Households	8.80%
Weather + Climate Combined Risk	57.38	26.21	13.30	(% of Population)	
Social Vulnerability Index (SoVI®)	39.18	38.53	38.35	Minority Population (% of	55.10%
Future Risk	S. Barbara County	California	U.S.	Population) Limited English (% of	11.00%
Agricultural Damage (% Change)	17.40%	7.46%	-11.91%	Population)	
Mortality (Change in Deaths/100k)	5.54	4.17	9.16	Mobile Homes (% of Homes)	4.40%
Energy Expenditures (% Change)	-0.16%	4.50%	9.24%	-	E C004
High-Risk Labor (% Change)	-1.33%	-1.06%	-1.51%	No Vehicle (% of Households)	5.60%
Coastal Storm Damage (% GDP)			0.29%		
Total Damage (% County GDP)	1.60%	2.23%	4.57%		
No Vehicle (% of Households)	5.60%				



Thank You!

- We want to help the industry address its climate challenges and opportunities
- We want to help the industry understand its climate challenges and opportunities
- We want to help the folks that help the industry ...





DR. THOMAS WALL

PROGRAM LEAD, ENGINEERING & APPLIED RESILIENCE ARGONNE NATIONAL LABORATORY





OVERVIEW: CENTER FOR CLIMATE RESILIENCE AND DECISION SCIENCE

THOMAS A. WALL, PH.D. Program Lead, Engineering & Applied Resilience Decision and Infrastructure Sciences Division





ARGONNE'S ROLE IN CLIMATE RESILIENCE Center for Climate Resilience and Decision Science

- The Center for Climate Resilience and Decision Science (CCRDS) conducts research and analysis to enable unmatched climate-risk informed decision-making and adaptation planning for public and private stakeholders facing a variety of climate-related challenges around the world.
- The CCRDS is comprised of a multidisciplinary scientific team that collaborates with research partners to ensure that climate risk-informed decision-making is contextualized in socio-economic, infrastructure, environmental, and fiscal realities so that mitigation actions are grounded in science and practicable for immediate implementation.



Argonne National Laboratory





CCRDS SPONSORED RESEARCH PROJECTS





Office of Science









OFFICE OF Cybersecurity, Energy Security, and Emergency Response





AND INFORMING DECISIONS



FOUNDATIONAL CLIMATE DATA

ANALYSIS AND **APPLICATIONS**

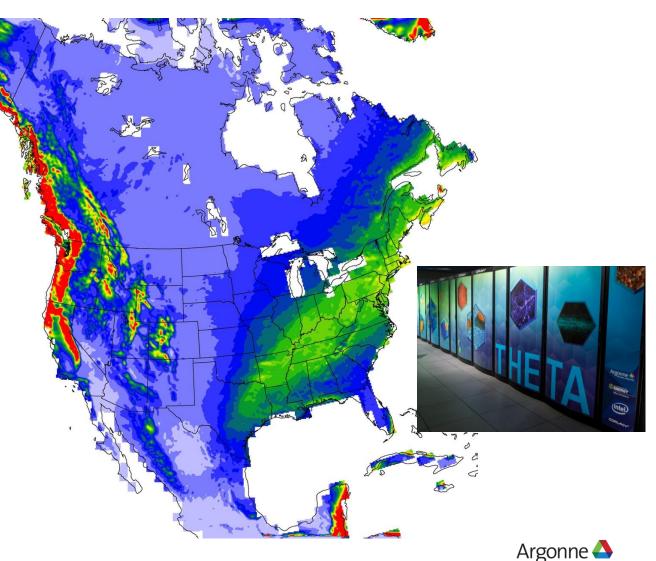
RISK ESTIMATES TO INFORM DECISIONS



LOCAL CLIMATE PROJECTIONS THROUGH DYNAMIC DOWNSCALING

ARGONNE'S DYNAMICALLY DOWNSCALED, REGIONAL CLIMATE MODELING IS A UNIQUE CLIMATE RESOURCE

- High resolution, neighborhood level (12km)
- Scientific transparency: widely published and scientifically peer reviewed modeling and outcomes
- Dynamical downscaling offers improvements over statistical downscaling
 - Physics-based, addresses non-stationarity
 - Produces 60+ unique climate variables
- RCP8.5 (upper limit) + RCP4.5 (~Paris accords)
 - Useful for infrastructure protection and disaster planning

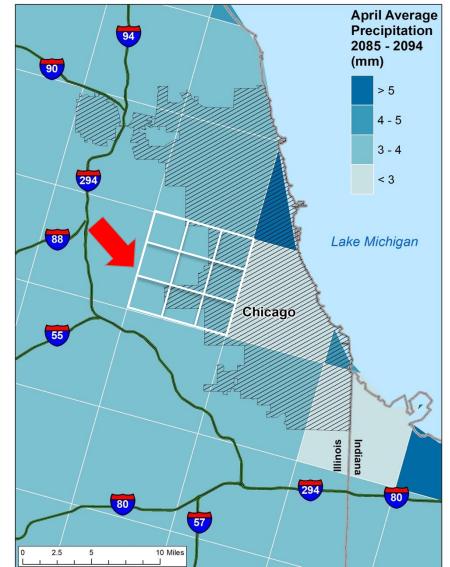




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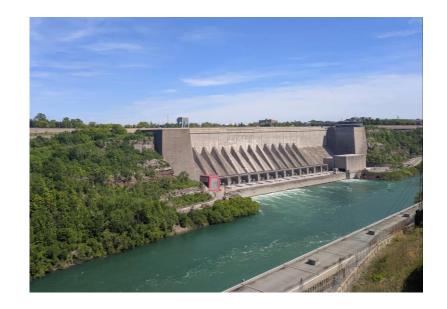






EXAMPLE APPLICATION TO INFORM DECISIONS Argonne, New York Power Authority plan for the future in a changing

- Enables NYPA to better assess how its ability to generate, transmit and deliver electricity may be affected by climate change.
- Using state-of-the-art climate and infrastructure system modeling techniques, and a powerful supercomputer, to identify the risks.
- The study will help NYPA plan investments in its infrastructure and strengthen its resilience against climate change.







climate

THANK YOU





U.S. DEPARTMENT OF ENERGY Argonne National Laboratory is a U.S. Department of Energy laboratory managed by UChicago Argonne, LLC.





JESSICA FILANTE DIRECTOR, GLOBAL ENVIRONMENTAL SUSTAINABILITY

AT&T



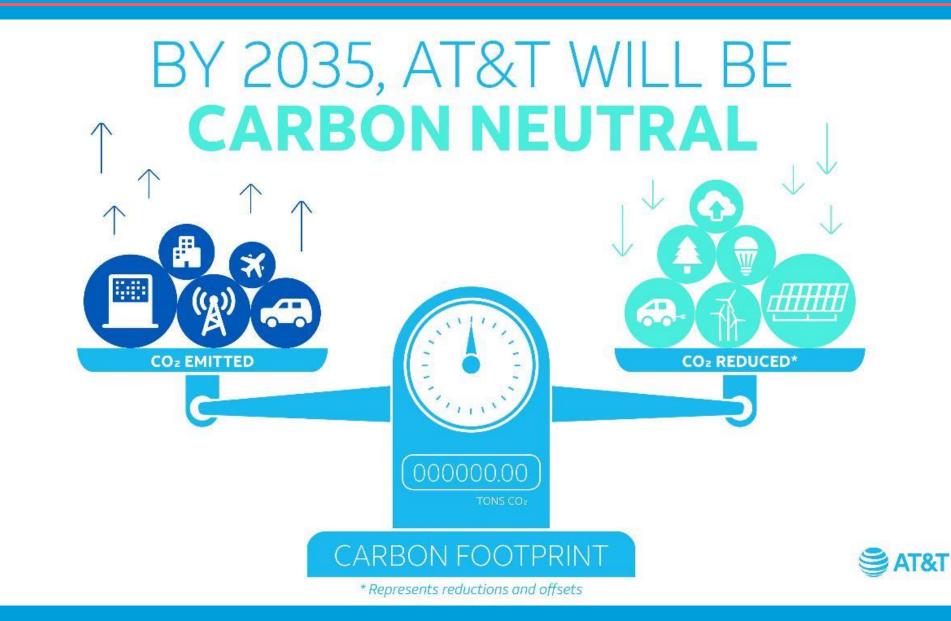
AT&T Corporate Social Responsibility

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Solutions of the solutions Caloon Neutrality **Climate Change**







Science-based target (SBT) of 1.5 degrees by 2030 Supply Chain SBT goal 50% by 2024

The Power of Connection | AT&T Corporate Responsibility / July 2022 / © 2022 AT&T Intellectual Property - AT&T Proprietary

SAT&T

CONNECTIVITY

AT&T's Smart Climate Solutions help business customers reduce carbon emissions

Our goal is to reduce global emissions by one gigaton by 2035.

How much is a Gigaton?

The emissions from 1.6B flights from Los Angeles to New York

Preparing Our Infrastructure and Our Communities



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AT&T's Approach to Manage Physical Risk to Infrastructure and Network Performance

Background

Several years ago, the CSR organization collaborated with Argonne National Lab to generate climate data that help us visualize **how climate change will affect our network and operations** out to mid-century. Using this data, we can take steps to **prepare our infrastructure** to withstand more frequent and severe extreme weather.

Climate Data Helps Us Capture Risk Posed By

- Inland flood depths (Precipitation-based)
- Coastal flood depths (Storm Surge & Sea level rise)
- Wind Speeds
- Drought
- Wildfire

Differentiated Data Set

- Forward-looking data (most use historical FEMA data that doesn't incorporate sea level rise, temp changes and other climate factors)
- High resolution (data is downscaled to neighborhood level)
- Integrating into network planning and maintenance software so engineers can make better decisions
- Based on worst case scenario

MANI BALAKRISHNAN DIRECTOR OF SUSTAINABILITY AND SOCIAL RESPONSIBILITY ZEBRA TECHNOLOGIES







Environmental Social Governance

Climate Scenario Analysis 2022 RILA Climate Conference

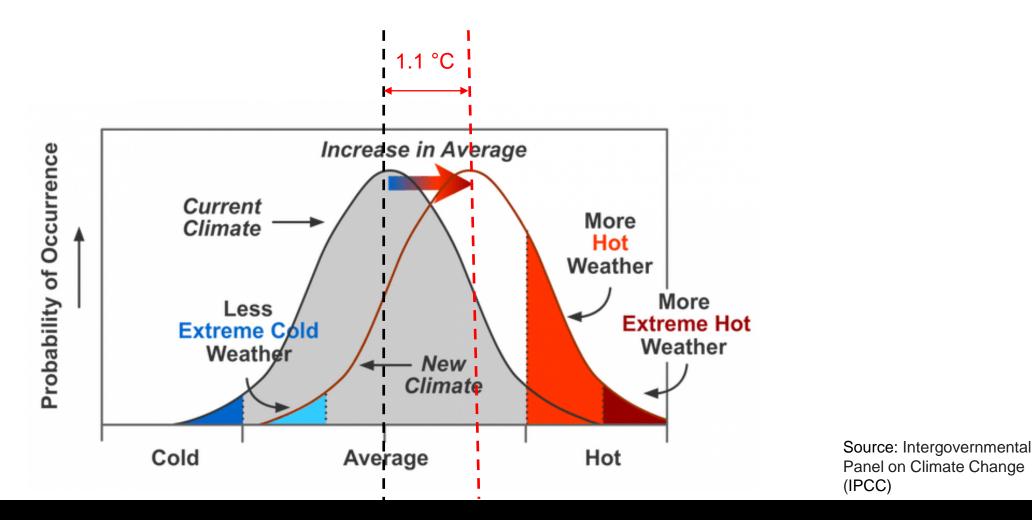
Mani Balakrishnan Director Sustainability and Social Responsibility



SCIENCE BASED TARGETS

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

Global Warming and Extreme Events



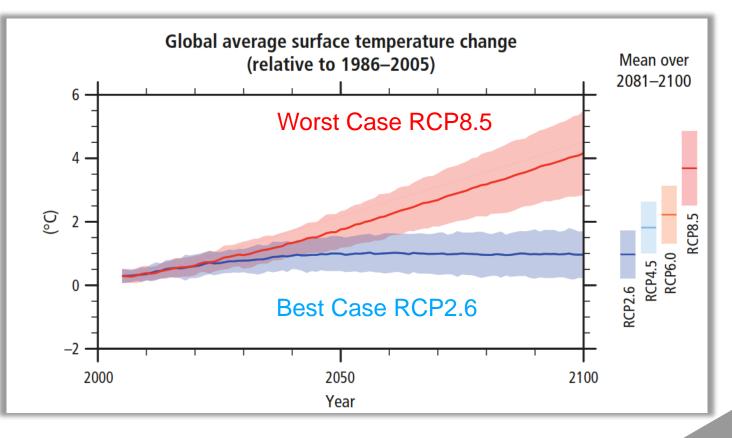
A slight increase in mean earth temperature causes an exponential increase in the risk of extreme weather events

IPCC Guidance

Hazard, Exposure and Vulnerability to characterize climate risks

Scenarios: Projected increase of global mean surface temperature by the end of the 21st century (2081-2100) relative to 1986-2005

Representative Concentration Pathway	Projected Increase in Temperature
RCP2.6	0.3°C to 1.7°C
RCP4.5	1.1°C to 2.6°C
RCP6.0	1.4°C to 3.1°C
RCP8.5	2.6°C to 4.8°C



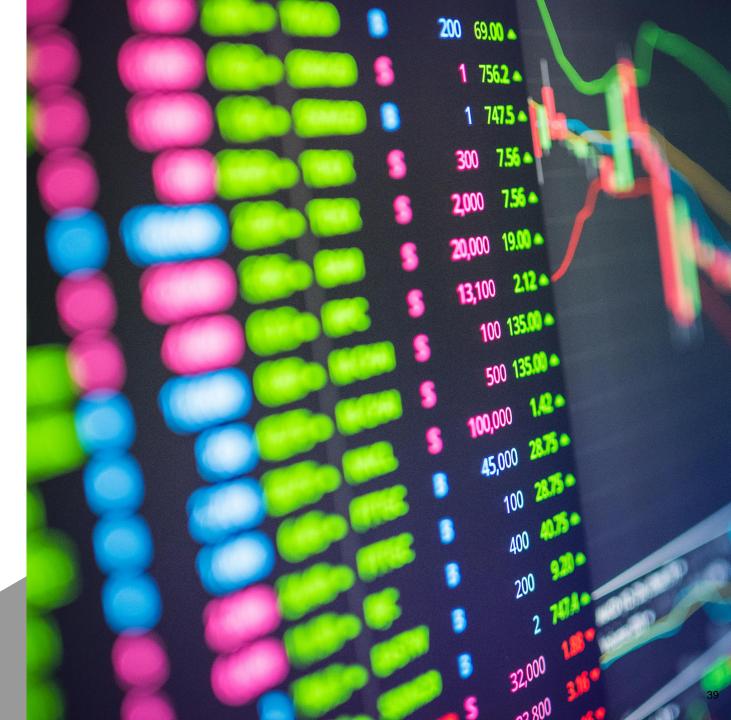
Stakeholder Expectations

- Robust public disclosure
 - Qualitative and Quantitative
 - Defensible assumptions
 - Company-wide scope
- Raise climate risk awareness across the company
 - Balance trade-offs between emissions reduction activities and emissions increasing activities



Current State of Climate Scenario Analysis

- Climate risk tools
- TCFD disclosures
- Climate data considerations



Zebra's Risk Characterization

- Overall approach
- Identify the top climate risks
 - Flooding was our predominant risk
 - Combined climate effects important in the longer term
- Risk Characterization
 - Flood return period, business importance, and site elevation as proxies for hazard, exposure, and vulnerability
 - Consistent scoring methodology

Core	Data	Characterization of Risk and Point Allocation						
Components of Risk	Assessed	High (4 points)	Moderate (3 points)	Low (2 points)	Very Low (1 point)			
Hazard	Flood return period	15 years	38 years	62 years	100 years			
Exposure	Business importance	4	3	2	1			
Vulnerability	Elevation	under 20 feet	from 21-40 feet	from 41-100 feet	over 100 feet			
Overall	2 x Hazard x Exposure x Vulnerability	Ranges from 1 point to 128 points						

Improvised along the way!

- Complex Electronics Supply Chain
 - Prioritized indirect suppliers with single and sole source dependencies aggregated by watershed
 - Assessed each watershed when characterizing risks
- Top 10 customer areas by revenue
 - Used distributor point of sale location data

Zebra Footprint Watershed 177 Southeastern China/Taiwan 176 China Yangtze River/Shanghai 173 North Coastal China/Japan/Korea 179 Thai/Malaysia/Singapore 79 Western Europe 174 China Jiangsu/Shandong 283 US Pacific Columbia River Basin 365 US Pacific Central 372 Philippines Manilla 282 US Pacific Northwest 355 US Upper Missouri Basin 358 US/Mexico Rio Grande Basin 333 Upper Mississippi Basin 339 US Atlantic Northeast 370 Indonesia 366 Australia - Victoria 357 US Texas Gulf Basin 361 Central America

Climate climate risks under the best and worse case scenarios

	Overall Risk Level											
		1 (Low) . 4 (Moderate)		7 (High)					
		2 (Low)		5 (Moderate)					10			
	3 (Low)			6 (Moderate)		9 (High)						
						-						
	Zebra-Operated Locations					Third Party Locations						
	Engineering Operations				Wareh	-		ousing			Suppliers	
Zebra Footprint Watershed	2 C	4 C	2 C	4 C	2 C	4 C	2 C	4 C	2 C	4 C	2 C	4 C
079 Western Europe												
104 Southern India												
173 N. Coastal China/Japan/Korea												
174 China Jiangsu/Shandong												
176 China Yangtze River Basin												
177 Southeastern China/Taiwan												
178 Vietnam Mekong Basin												
179 Thai/Malaysia/Singapore												
257 Brazil Parana River Basin												
282 US Pacific Northwest												
283 US Columbia River Basin												
331 Canada Lake Ontario												
333 US Upper Mississippi Basin												
339 US Atlantic Northeast												
341 US Atlantic Southeast												
350 US Arkansas												
355 US Upper Missouri Basin												
357 US Texas Gulf Basin												
358 US/Mexico Rio Grande Basin												
359 Central Mexico												
361 Central America												
365 US Pacific Central												
366 Australia Victoria												
370 Indonesia												
372 Philippines Manilla												

Closing Thoughts

- Dealing with data uncertainties
- Robust public climate risk disclosure avoids the need to fill out separate risk survey investor requests on scenario analysis, each with a different methodology
- Thank you to DOE Better Climate
 Initiative and Argonne Labs



Zebra's Sustainability Website





Sustainability Accounting Standards Board (SASB) Reporting

CDP (Carbon Disclosure Project) Reporting

External Verification Of Zebra's Carbon Emissions

Climate Risk Characterization And Scenario Analysis



OPEN DISCUSSION

LIVE POLL RESULTS

*Note for live polls, the survey results represent a "snapshot in time" of some RILA member companies' policies and activities related to the topics covered by this survey as well as the responses of other, non-retail company representative webinar attendees. Not all RILA member companies participated in the survey and more than one representative from a company may have responded. Therefore, the survey results do not represent a complete picture of the policies and activities of the whole RILA membership or the retail industry on these issues.

Poll 1: Has your company experienced major disruptions to its operations due to natural disasters this year?

- 1. Yes **57%**
- 2. No **43%**

Poll 2: What facilities are of highest concern for your organization to maintain electricity access/resiliency? Select all that apply.

- 1. None of these **0%**
- 2. Not sure **0%**
- 3. N/A **5%**
- 4. Stores 74%
- 5. Distribution/fulfillment centers **68%**
- 6. Offices **32%**
- 7. Manufacturing facilities **32%**
- 8. Other (share in chat)

Poll 3: Which if any are part of your company's preparedness efforts to support employees in regions being hit with a natural disaster event? Select all that apply.

- 1. None of these 7%
- 2. Not sure **36%**
- 3. N/A **7%**
- 4. Alerts 50%
- 5. Access to resources **50%**
- 6. Emergency transportation **0%**
- 7. Prep facilities for overnight stays 21%
- 8. Other (share in chat)

Poll 4: What long-term preparedness measures has your company explored? Select all that apply.

- 1. None of these 10%
- 2. Not sure **30%**
- 3. N/A **10%**
- 4. Floodgates 5%
- 5. Backup power **50%**
- 6. Microgrids **5%**
- 7. Load minimization **5%**
- 8. Other (share in chat)

Poll 5: Has your company conducted a climate scenario analysis?

- 1. No **53%**
- 2. Not sure 6%
- 3. N/A **12%**
- 4. Yes, for domestic operations 6%
- 5. Yes, for international operations **0%**
- 6. Yes, for both domestic and international operations **24%**

Poll 6: How does your organization make the business case to analyze climate and/or weather data? Select all that apply.

- 1. Not sure **27%**
- 2. N/A **20%**
- 3. We do not have a process for estimating this business case 27%
- 4. Estimate avoided LP/AP costs **20%**
- 5. Estimate avoided supply chain/sourcing disruption costs **33%**
- 6. Estimate increased sales (e.g., seasonal, weather or climate event-specific) 20%
- 7. Estimate community impact **13%**
- 8. Estimate PR impact **13%**
- 9. Improved investor relations 20%
- 10. Other (share in chat)

Poll 7: The future climate impacts of greatest concern to my organization are... Select all that apply:

- 1. Extreme high temperatures 67%
- 2. Extreme low temperatures 44%
- 3. High winds **33%**
- 4. Heavy rains 44%
- 5. Coastal flooding **78%**
- 6. Inland/river flooding 67%
- 7. Hurricanes **67%**
- 8. Other Share in chat

Poll 8: The region of the world I'm most concerned about future climate change impacting my business and/or supply chains are ... Select all that apply:

- 1. United States **38%**
- 2. North America **63%**
- 3. South/Central America **38%**
- 4. Europe **13%**
- 5. Africa **25%**
- 6. SE Asia **38%**
- 7. South Asia **75%**
- 8. Australia/Oceana 0%
- 9. Other Share in chat

Poll 9: Has your company used NOAA or Argonne climate data and information or tools? Select all that apply.

- 1. No **43%**
- 2. Not sure **14%**
- 3. N/A **29%**
- 4. Yes, for weather/natural disaster preparedness only **14%**
- 5. Yes, for strategic planning including resiliency planning **14%**
- 6. Yes, for climate risk mapping and/or business scenario planning **14%**
- 7. Other Share in chat