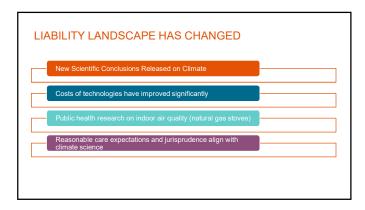


AIA CES INFORMATION	N
Taking the Lead to	Address Climate Change
Credit:	1.0 Learning Unit (HSW)
Provided by:	Victor US
Provider Number:	K048
Course Number:	VOS660-DE
The speaker is:	Yvonne Castillo

### REPORTING YOUR PARTICIPATION

- Certificates of Completion are available for downloading from the link provided immediately following the program.
- This course is registered with AIA CES for continuing professional education credit. As such, it does not include content deemed or construed to be an approval or endorsement by the AIA.
- You will receive a satisfaction survey following the program and if you are an AIA member and provide a valid AIA membership number, your participation will be reported to AIA CES for AIA members.
- Others will self-report.

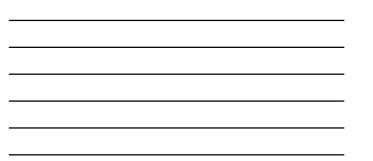


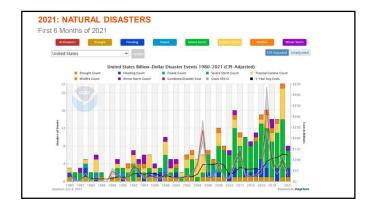


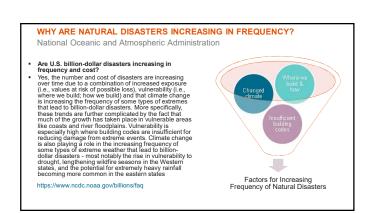


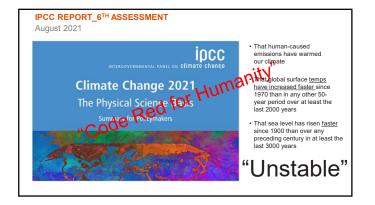
### RECENT HISTORY IN US: NATURAL DISASTERS Costs to US 2016-2020\*

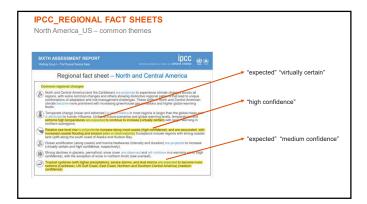
DISASTER TYPE			PERCENT FREQUENCY		PERCENT OF TOTAL COSTS	COST/EVENT			
Drought	4	0.5	4,9%	\$14.58 <sup>(B)</sup>	2.3%	\$3.68	\$2.98	45 <sup>†</sup>	97
Flooding	9	1.6	11,196	\$42.88	6.8%	\$4.88	\$8.68	86	17
Freeze	1	0.2	1.2%	\$1.1B	0.2%	\$1.18	\$0.2B	0	0
Severe Storm	45	9.0	55.6%	\$96.78 <sup>(0)</sup>	15.3%	\$2.18	\$19.38	158	32
Tropical Cyclone	15	3.0	18.5%	\$401.88 <sup>(8)</sup>	63.8%	\$26.88	\$80.48	3,419	684
Widfire	5	1.0	6.2%	\$69.88 0	11.199	\$14.08	\$14.08	230	46
Winter Storm	2	0.4	2.5%	\$3.58	0.6%	\$1.88	\$0.7B	31	6
All Disasters	81	16.2	100.0	\$630.28	100.0%	\$7.88	\$126.0B	3,969	794



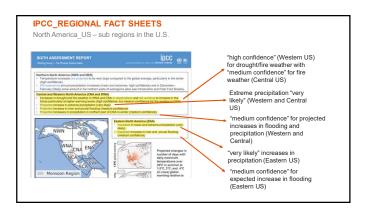




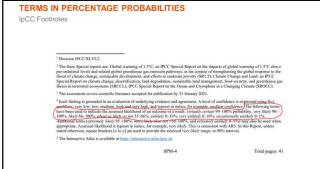


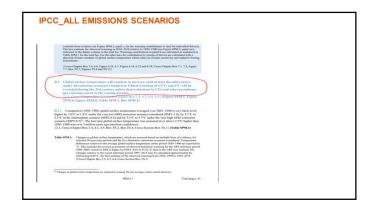


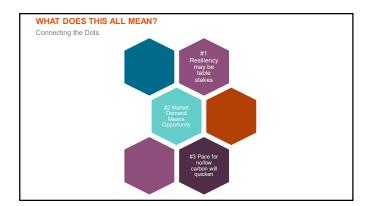


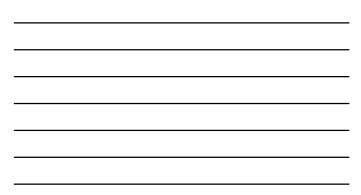










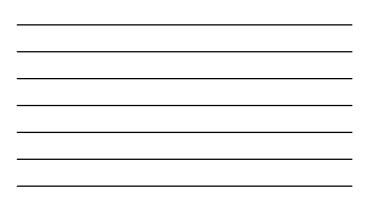


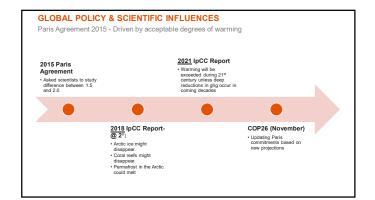




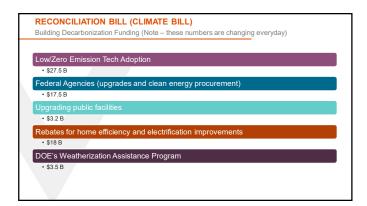
- Consume 3/4 of electricity used in the US
- Account for 40% of primary energy use and corresponding ghg
- And current footprint is going to double by 2060

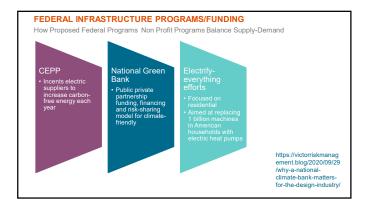


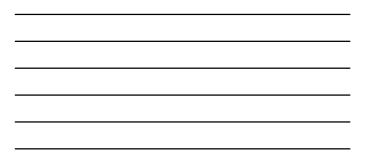




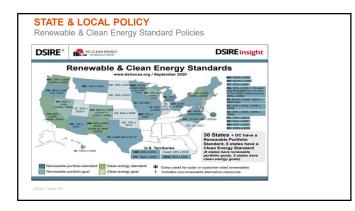
FEDERAL ACTIVITY		
2021		
January		
<ul> <li>Paris Agreement</li> <li>Net Zero by 2050</li> </ul>		
March		
American Jobs Plan		
April		
Earth Day Summit		
October		
Infrastructure     Bipartisan package     Climate package     Climate Adaptation Agency Planning		



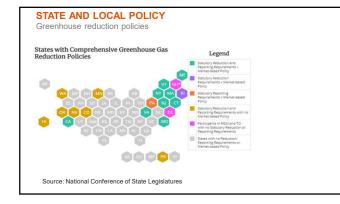






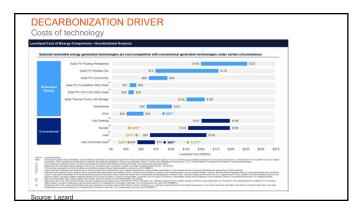








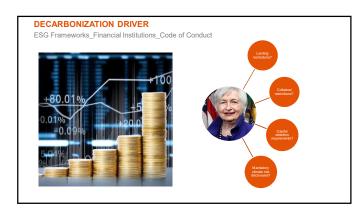
California	
<ul> <li>Buy Clean Act</li> <li>SB 596 (Cement regulation)</li> </ul>	
New York & New Jersey	
Low Embodied Carbon Concrete Leade	rship Act
Colorado	
• Buy Clean Act	
Portland & Marine County	



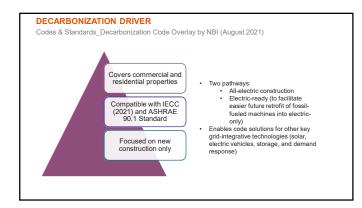


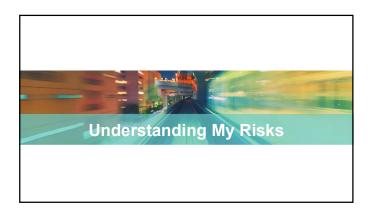
















### FUNDAMENTAL PREMISE

Standard of Care\_Reasonableness

It is a duty to exercise the degree of learning and skill ordinarily possessed by a reputable design professional practicing in the same or similar locality and under similar circumstances.

Am I keeping up with other firms and their practice?

Am I pushing my firm and my practice <u>enough</u> on clim. changes in my region?

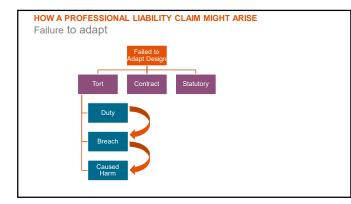
Have I met with leaders in my firm to discuss how we're goin to help clients adapt their projects to a changed climate?

NCARB MODEL LANGUAGE Code of Conduct

Architect's **primary** duty is to protect the **public's** health, safety, and welfare. In discharging this duty, an architect shall act with reasonable care and competence, and shall apply the knowledge and skill ordinarily applied by architects in good standing, practicing in the same locality.







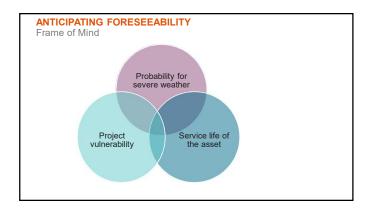
## FUNDAMENTAL PREMISE

Standard of Care

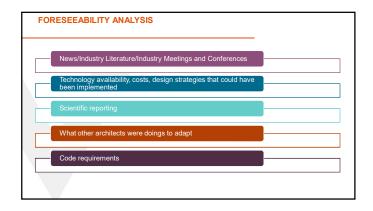
The standard of care for all professional services performed or furnished by Consultant under this Agreement will be the **skill and care** used by members of Consultant's profession practicing under **similar circumstances** at the **same time** and in the **same locality**.

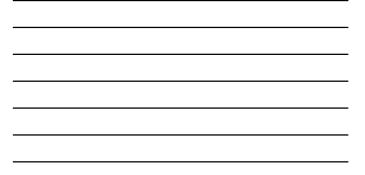












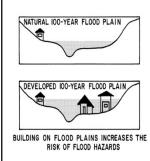
A CASE IN POINT...DEFENSE OF 'INDUSTRY CUSTOM' REJECTED The T.J. Hooper Case (1932)



an Museum of Tort La

"Indeed in most cases reasonable prudence is in fact common prudence; but strictly it is never its measures; a whole calling may have unduly lagged in the adoption of new and available devices. It never may set its own tests, however persuasive be its usages. Courts must in the end say what is required; there are precautions so imperative that even their universal disregard will not excuse their omission."

### FORESEEABILITY OF HARM



LH Bell & Associates v. Granger (1975) The Court found the engineer negligent in design of a bridge and liable for damages to a  $3^{\rm rd}$ party who owned adjacent property that was flooded because the design "failed to consider and protect against foreseeable flooding of adjacent properties."



### LIABILITY THROUGH CONTRACTUAL EXPOSURE What does your contract say?

# Standard of care?

 Are you agreeing to perform the work with skill and care as other members of the profession practice in the same locality under similar circumstances?

### Scope of Services?

 Is the scope written <u>broadly</u> enough to imply that your services include an analysis of climate impacts? Or is the scope written <u>specifically</u> with phrases that include environmental assessments, environment impacts?

### Provisions to indemnify owner?

 Are you agreeing in your contract to indemnify the owner for injury or property suffered by third parties as a result of your failure to perform design services in accordance with the standard of care?

1. Commu	nicate and document hazard mitigation issues
What hap	ppens if operations cease because of a flood or power outage?
<ul> <li>What if c</li> </ul>	ritical facilities/infrastructure are impacted in storm or fire?
<ul> <li>What if c</li> </ul>	ritical personnel cannot access the building or cannot communicate?
<ul> <li>What if y</li> </ul>	our critical information, communication and technology are impacted?
<ul> <li>How long needed?</li> </ul>	can you go without revenue? Do you have contingency funds for repairs that would be
Does the and harn	building house people? If so, think through shelter in place conditions during a disaster is to tenants/occupants? Where will these people live during the repairs?
2. Be read	y to decline work, if necessary

### CONTRACTUAL PROTECTIONS Informed Consent

The Design Professional will design in compliance with existing codes and regulations in place and applicable to the design services at the time the design is prepared. Project Owner understands that the Design Professional cannot anticipate changes in the project's site or environment unless the Project Owner specifically has those possible changes analyzed by a consultant and contractually requires that the changes be considered during the design stage of the project. Project Owner recognizes that the Design Professional has a right to rely on the information provided through the Project Owner by the Project Owner's consultant.

### CONTRACTUAL PROTECTIONS

Disclaimers

During the Project design, Design Professional shall examine current codes and standards and shall use professional skill and care to design Project to meet the requirements of current codes and standards identified as applicable to the Project. Design Professional by training and experience does not possess the expertise to assess the effects of climate change or extreme climate events not addressed by current codes and standards on the Project and assumes no responsibility beyond the professional skill and care in designing to current codes and standards.

### CONTRACTUAL PROTECTIONS

Waivers

Because disruptive climate events are unforeseeable at the time this contract for services was negotiated, Project Owner agrees that it will waive any claim against the Design Professional related to climate events that exceed those addressed by existing codes and standards.

Project Owner waives all consequential damages caused by disruptive climate events that are not identified in the contract as needing to be addressed by the Design Professional. Consequential damages include but are not limited to loss of use, income, profil, financing, business or reputation.

### CONTRACTUAL PROTECTIONS Limitation of Liability

Project Owner limits the Design Professional's liability to the Project Owner and anyone claiming through the Project Owner for costs, losses, or damages resulting from changes in the environment and site that exceed existing and applicable codes and are not identified at the time of the design as design parameters. Design Firm's sole liability will be based on actual damages to the extent caused by the Design Firm's failure to design to existing and applicable codes.

### CONTRACTUAL PROTECTIONS

Contractual Indemnity Obligation

In recognition of Project Owner's decision to have Design Professional design only to existing codes and standards, Project Owner agrees to defend Design Professional against any third-party claims alleging harm caused by Design Professional's failure to design to climate events not addressed by existing codes and standards and to indemnify Design Professional for any costs, losses, or damages to Design Professional resulting from such allegations.

CONTRACTUAL PROTECTIONS Prohibition of Third-Party Beneficiaries

Services provided by the Design Professional are solely for the Project Owner's benefit and no third party is granted the right to rely on the design services provided by Design Professional.

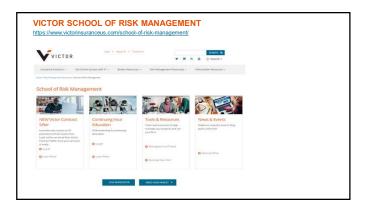
### PROFESSIONAL LIABILITY INSURANCE Victor Policy

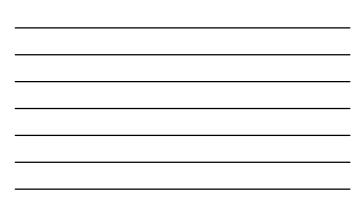
III. DEFINITIONS

Professional services mean those services that the Insured, or any person or entity, including joint ventures, for whom the Insured is liable, performs for others on behalf of a Named Insured in the Insured's practice as an architect, engineer, interior designer, land surveyor, LEED® green building program consultant, landscape architect, construction manager, scientist, or technical consultant.









### OTHER RESOURCES

AIA Resilience and Adaptation Online Series

AIA 2030 Online Series

Embodied Carbon 101 Series

AIA Trust Resources

BuildingScienceFightClub.com

