

This is Where Change Begins

# INTEGRATING AN SDG FRAMEWORK INTO GLOBAL LEARNING

**Strategic Planning Group –  
Meeting #2**

**Jan. 31, 2020**

## What Are the Biggest Challenges We Face?

Climate Change 40

Other 3

Income Disparity 25

Cyber Dependency 20

Environmental Degradation 8

Civility 4

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# Integrating SDG Framework into Global Learning Commitment Subcommittee

- Ryan McPherson – UB
- Peter Velz – SUNY System
- Francesca Cichello – ESC
- Susan Deer – Rockland
- Mary Ellen Mallia – Albany
- Slava Babenchuk – Suffolk
- Sid Laveti – Student Rep
- Mark Lichtenstein – ESF
- Daniel Knox – SUNY System

**Charge:** Make recommendations for aligning education, research, **operations** and community/public relations with the SDGs framework, including case studies that provide examples of good practice

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The background features a complex, abstract pattern of white lines and arrows on a blue background. The pattern consists of solid lines, dashed lines, and arrows pointing in various directions, creating a sense of movement and interconnectedness. The lines and arrows are scattered across the entire page, with some forming larger, more defined shapes and others being smaller, more intricate details.

## Roadmap:

- A Little Context
- Opportunity
- Proposal
- Alignment
- Dice Games
- The Framework
- Talking Back

# SUNY Sustainability Coalition

Jared Woodcock, Agriculture Coordinator, Adirondack Community College

Mary Ellen Mallia, Director of Sustainability, University at Albany

Cherise Haase, Alfred University

Sandy DeJohn, Utilities Manager, Binghamton University

Nicholas Scaturro, Environ Health & Safety Specialist, Brockport

Tim Scherbatskoy, Broome Community College

Mary Jo Graham, Buffalo State College

Ryan McPherson, Chief Sustainability Officer, SUNY Buffalo

Kelly Carter, Sustainability Coordinator, Canton College of Technology & Potsdam

Joseph Batchelder, Director, Facilities Management, Cobleskill College of Agriculture & Technology

Sarah Zemanick, Cornell University, NYS College of Agriculture & Life Sciences

Beth Klein, Sustainability Coordinator, Cortland

Sadie Ross, Empire State College

Mark Lichtenstein, Chief of Staff & VP for Sustainability, College of Environmental Science & Forestry

Neil Ramos, Farmingdale

Chris Helm, Fashion Institute of Technology

Michael Jabot, Fredonia

Karen Huffman Kelly, Genesee Community College

Dan DeZarn, Geneseo

Nick Laino, Senior VP for Admin & Finance, Herkimer County Community College

Penny Hill, Hudson Valley Community College

Mike Martello, Sustainability Officer, Jamestown Community College

Bruce Alexander, Jefferson Community College

William Herrmann, Maritime College

Valarie Avalone, Director Planning, Monroe Community College

Lisa Mitten, Sustainability Coordinator, New Paltz

Michael Neiderback, Chair, Council on Green Efforts, NYS College of Ceramics at Alfred State

Maureen Dolan, Old Westbury

Hannah Morgan, Sustainability Coordinator, Oneonta

Sean Vormwald, Onondaga Community College

Gaea Austin, College of Optometry

Kirsten Gabrielsen, Sustainability Coordinator, Orange County Community College & SUNY Orange

Jamie Adams, Sustainability Coordinator, Oswego

Tom Kelly, Purchase

Naomi Davies, Director of Facilities, Queensborough Community College

Lorinda Hill, Rockland Community College

Thomas Lanzilotta, Sustainability Energy Manager, Stony Brook

Nick Palumbo, Director of Sustainability, Suffolk County Community College

Larry Reeger, Director of Sustainability, Sullivan County Community College

Eric Mazzone, Energy Manager, SUNY

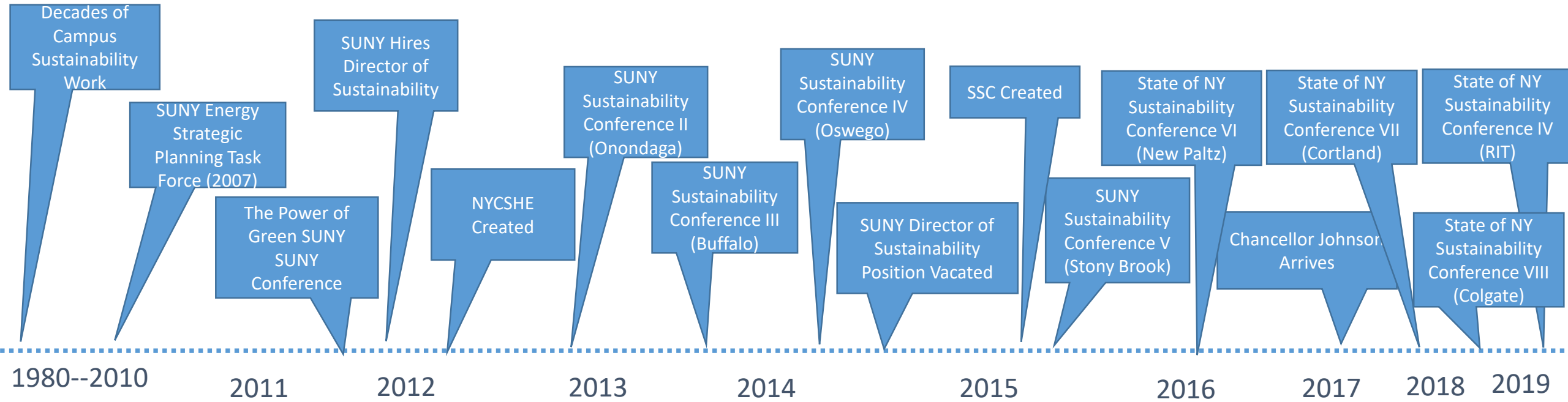
Evan Glanzman, SUNY Downstate Medical Center

Mark Bremer, SUNY Polytechnic Institute

James Turner, Tompkins Cortland Community College

Tom Pelis, Upstate Medical University

# Timeline



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### **SSC Goals:**

- To serve as the sustainability voice for the State University of New York
- Increase sustainable thinking, literacy and practice throughout the SUNY curriculum, operations, research and engagement
- Create greater statewide and national awareness of campus sustainability accomplishments through numerous tactics STARS and other vehicles
- Leverage the immense expertise and human capital throughout SUNY campuses (professionals, students and faculty)
- Advocate for greater sustainability public policy at the state, federal and local levels

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## **SSC Mission:**

*The SUNY Sustainability Coalition mobilizes change through collective action and collaboration in order to ensure sustainable, thriving campuses and communities throughout New York State.*

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# Opportunity



Fall of 2017....





Mary Ellen



# Framework Working Group

Dan DeZarn, Director of Sustainability, Geneseo

Alexandra (Sasha) Farrell, Graduate Sustainability Coordinator, ESF

Mark Lichtenstein, Director of Sustainability/CoS, ESF

Ryan McPherson, Chief Sustainability Officer, University at Buffalo

Alexandre Poisson, Sustainability Coordinator, ESF

Mary Ellen Mallia, Director of Sustainability, University at Albany

Lisa Mitten, Sustainability Coordinator, SUNY New Paltz

Valarie Avalone, Director of Planning, Monroe Community College

7 meetings over the course of 4 months

with lots of individual lifting

# Triple Bottom Line

*A framework with three integrated aspects: social (or empowerment), environmental (or ecological) and financial (or profit)*



# Progress Toward Policy Goals

## Climate and Energy



### GOAL

### PROGRESS

Climate neutral by 2025

UC emits 3% less greenhouse gas emissions than it did in 2000, despite expanding campus built space by 14.2 million assignable square feet, representing an increase of 23%. UC's emissions reductions are equal to removing 35,800 cars from the road.

10 MW of on-campus renewable energy by 2014

Campuses exceeded this goal in 2013. More than 36 MW of on-site solar energy, is currently installed, enough to power more than 10,000 homes for a year. Another 80 MW of off-site solar will provide roughly 14% of UC's total electricity use.

## Green Building



### GOAL

### PROGRESS

LEED Silver minimum for all new construction

252 Total LEED-certified Buildings  
51: Platinum    132: Gold  
56: Silver       13: Certified

Certify at least one LEED EBOM certification on each campus

37 certifications across 8 campuses

## Waste



### GOAL

### PROGRESS

Zero Waste by 2020

76% of campus waste was diverted from landfills in 2015-16.

UC sends 198 lbs per person to landfill per year, 26% less than other comparable universities.

### AWARDS

#### STARS GOLD-CERTIFIED UC CAMPUSES

Riverside  
Merced  
Santa Cruz  
Santa Barbara



## Food



### GOAL

### PROGRESS

By 2020, 20% of UC foodservice spending will be from sustainable product

20% of UC food purchases in 2015-16 were sourced from sustainable products. 6 of the 10 campus' residential dining services and four of the campus' retail services have met the goal four years early. 3 of the 5 medical centers have also met the goal early.

Certify at least one foodservice facility on each campus as a green business

7 of the 10 campuses and 5 medical centers have certified at least one foodservice facility as a green business.

## Transportation



### GOAL

### PROGRESS

50% of all new light-duty fleet vehicles by 2025 to be zero emission or hybrid

29% of all new fleet vehicles in 2015 were purchased as all-electric or hybrids.

By 2050, more than 60% of UC employees will commute by means other than single-occupancy vehicles (SOV)

In 2015, 53% of UC employees biked, walked, carpooled or took public transit to campus, nearly double the statewide average of 27%.

## Water



### GOAL

### PROGRESS

Reduce per capita potable water use 20% by 2020 and 36% by 2025

UC Davis, Irvine, Merced and San Francisco have already met or exceeded the 2025 goal. In total, campuses saved enough potable water this year over last to fill 647 Olympic sized swimming pools.

#### SIERRA COOL SCHOOLS (2016)

3rd Irvine  
8th Davis  
18th Santa Cruz



#### PRINCETON REVIEW GREEN COLLEGES (2016)

7th UC Santa Cruz  
13th UC Santa Barbara





**HESI**

**HIGHER EDUCATION**

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**SUSTAINABILITY INITIATIVE**

# BUSINESS AND THE SUSTAINABLE DEVELOPMENT GOALS:

*Best practices to seize opportunity and maximise credibility*

**Marlon Verles**  
Chief Executive Officer  
Gold Standard

**Thomas Vellacott**  
Chief Executive Officer  
WWF Switzerland



## 2018 AASHE Conference & Expo

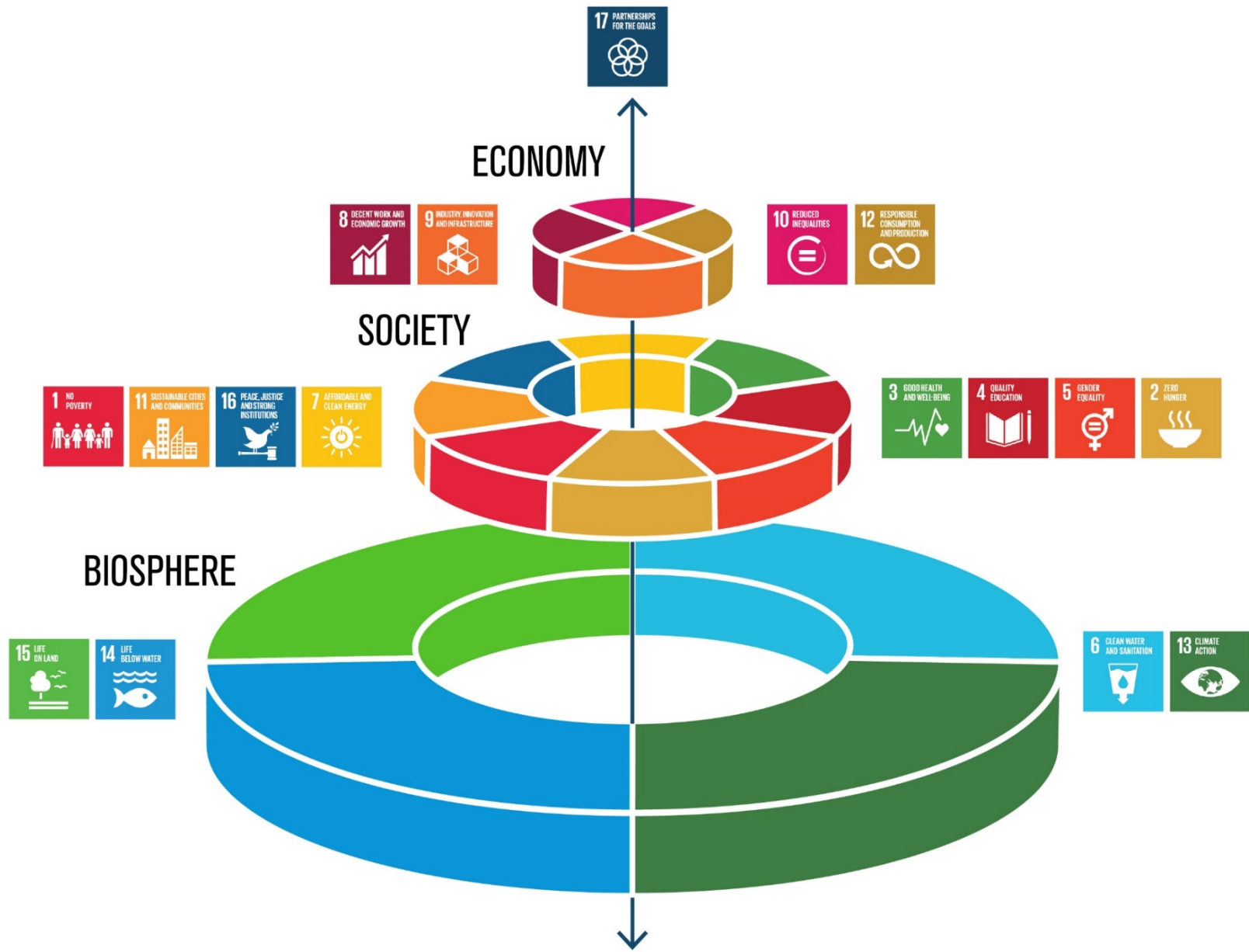
*Global Goals: Rising to the Challenge*

October 2–5, 2018 • Pittsburgh, PA



The Association for the Advancement  
of Sustainability in Higher Education





“The SDG’s are our shared vision of humanity and a social contract between the world's leaders and the people,” said UN Secretary-General Ban Ki-moon. “They are a to-do list for people and planet, and a blueprint for success.”

**2016-2030**







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# Proposal



# *The Framework for a More Sustainable SUNY*

## THE GOALS AND DRAFT TARGETS



# Flexibility

(not one size fits all)

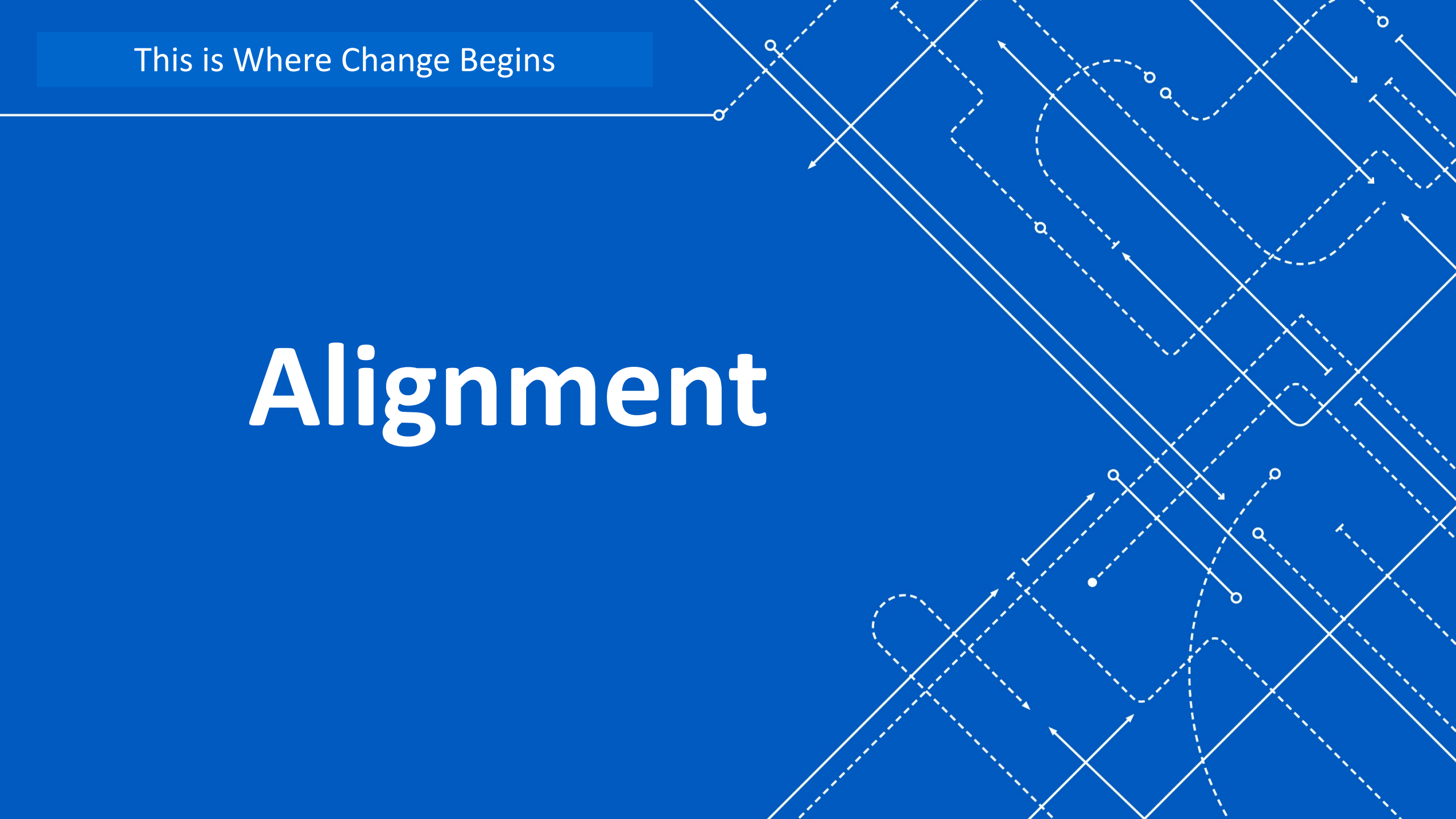
No  
Command  
Control

# Tools

(money & policy)

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# Alignment





A woman with short blonde hair, wearing a grey blazer and a necklace, stands at a podium on a stage. The podium is dark with a circular logo that says 'SUNY'. Behind her, large, blue, 3D letters spell out 'SUNY'. The scene is dimly lit, with blue light highlighting the letters and the speaker. The audience is visible in the foreground, mostly in silhouette.

# SUNY

“The United States has to get a grip on our carbon emissions, and SUNY, as an engine of innovation, has a major responsibility to lead. Certainly, our students, who are highly committed to sustainability, want and expect us to lead.”

-Chancellor Kristina Johnson



# New York Coalition for Sustainability in Higher Education



S · U · B · O · A

STATE UNIVERSITY OF NEW YORK BUSINESS OFFICERS ASSOCIATION

# New York Clean Energy Standard



Reforming the  
Energy Vision

**fight**  
climate change

**reduce**  
harmful air pollution

**ensure**  
a diverse, reliable  
**affordable** energy supply

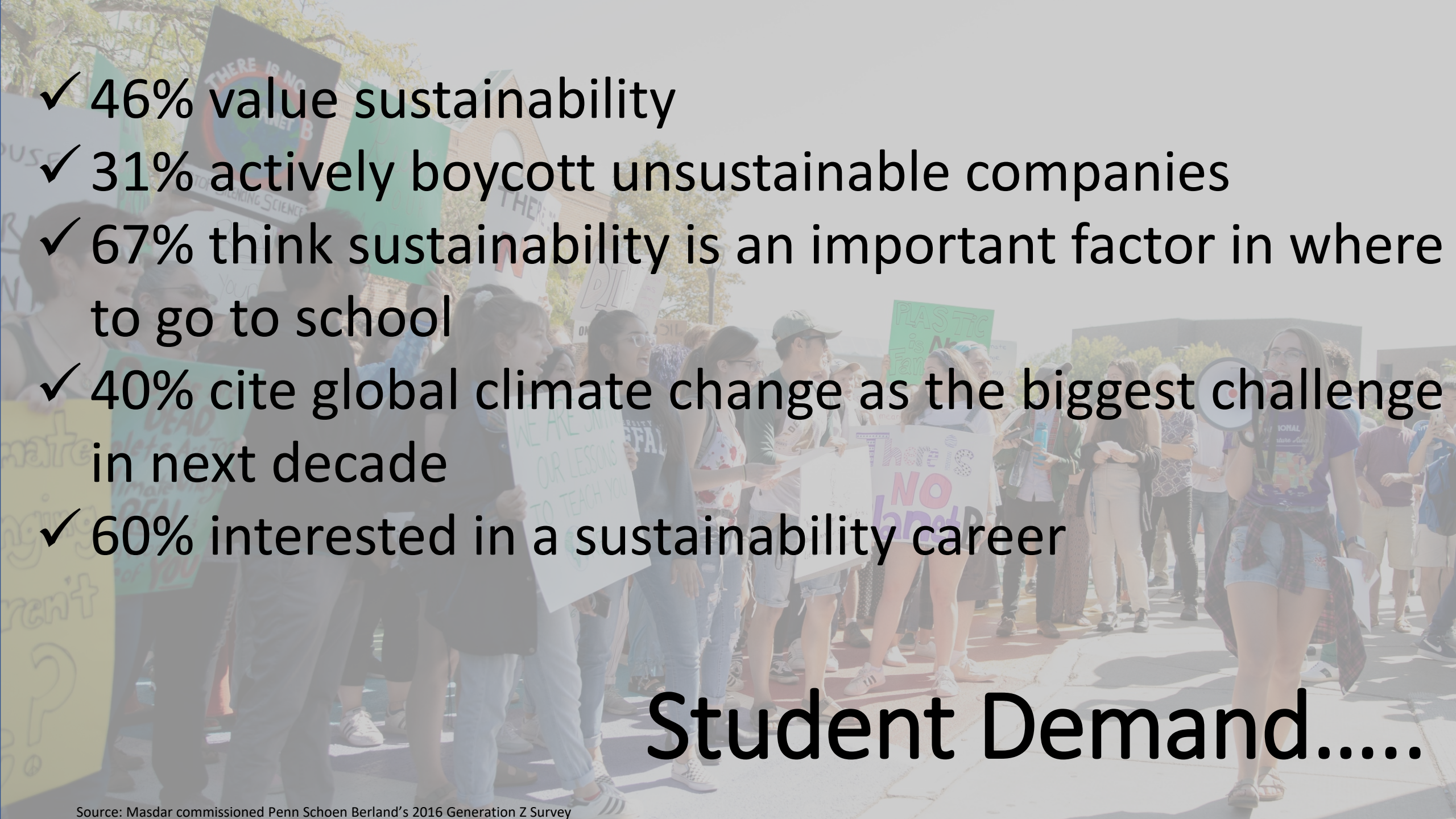
## Reforming the Energy Vision (REV)

BUILDING A CLEAN, RESILIENT, AND MORE AFFORDABLE ENERGY SYSTEM FOR ALL NEW YORKERS.

Reforming the Energy Vision (REV) is Governor Andrew M. Cuomo's comprehensive energy strategy for New York. REV helps consumers make more informed energy choices, develop new energy products and services, and protect the environment while creating new jobs and economic opportunity throughout the State.

# University Climate Change Coalition

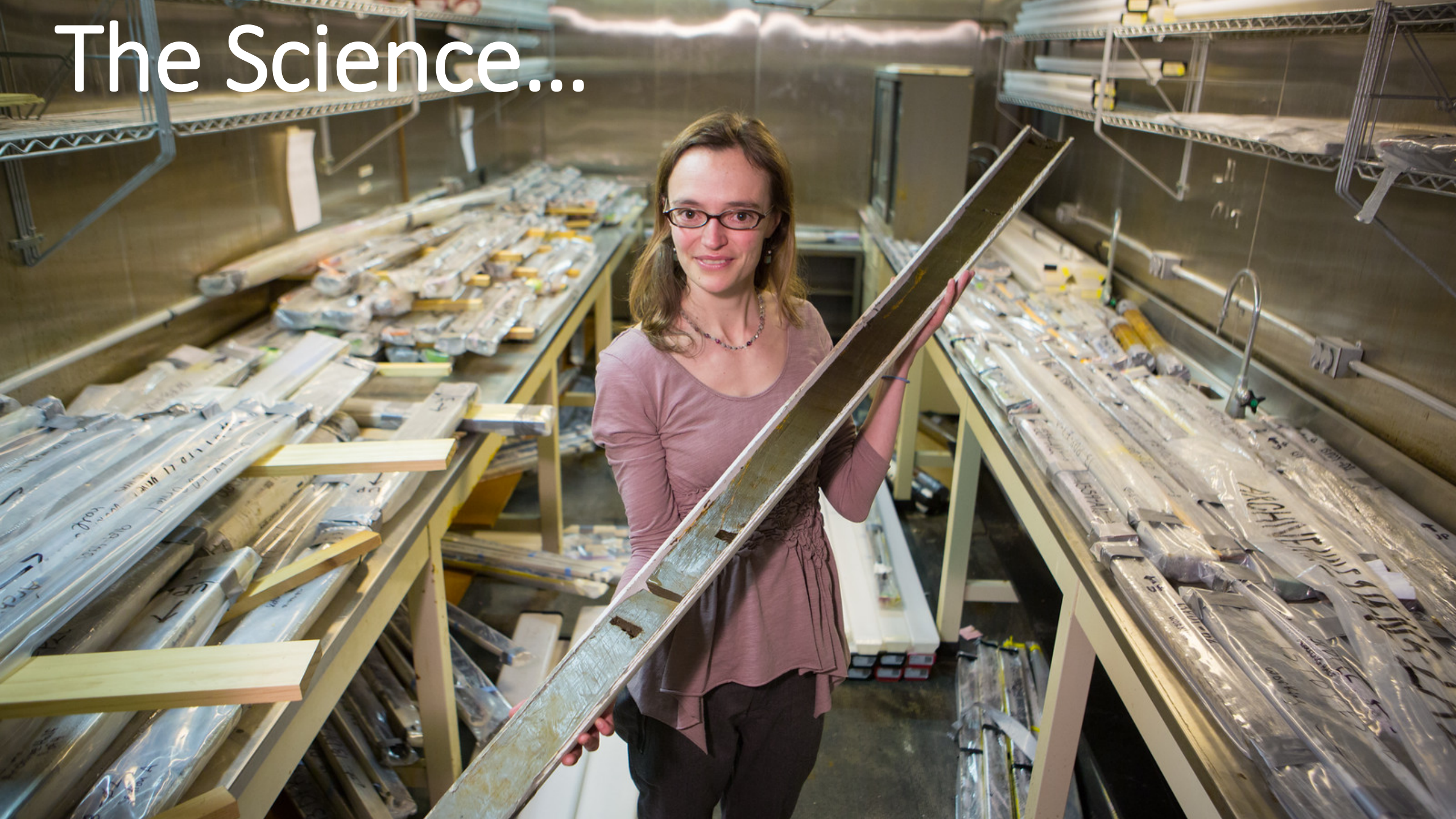


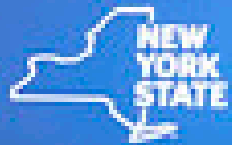


- ✓ 46% value sustainability
- ✓ 31% actively boycott unsustainable companies
- ✓ 67% think sustainability is an important factor in where to go to school
- ✓ 40% cite global climate change as the biggest challenge in next decade
- ✓ 60% interested in a sustainability career

# Student Demand.....

# The Science...





**Leading the Nation  
on Climate Change**

# Policy Shift

# New York State Climate Goals



**Achieve Climate Neutrality by 2050 (Climate Leadership Community Protection Act)**



**Mandate 50% renewable power by 2030**



**Phasing out coal power by 2020**



**State Agencies to Decarbonize their Investment Funds and Investment in Clean Energy**



**Increase Carbon Sequestration and Meet the US Climate Alliance Natural and Working Lands Challenge**



**Zero Waste Initiatives (compost mandate and phasing out of single use plastics)**



**UNIVERSITY  
GLOBAL  
COMPACT**

“Awareness is rapidly changing, and I believe we are on the edge of a fundamental reshaping of finance. The evidence on climate risk is compelling investors to reassess core assumptions about modern finance.”

--Larry Fink, CEO of Blackrock  
(\$7 trillion in assets)





Microsoft



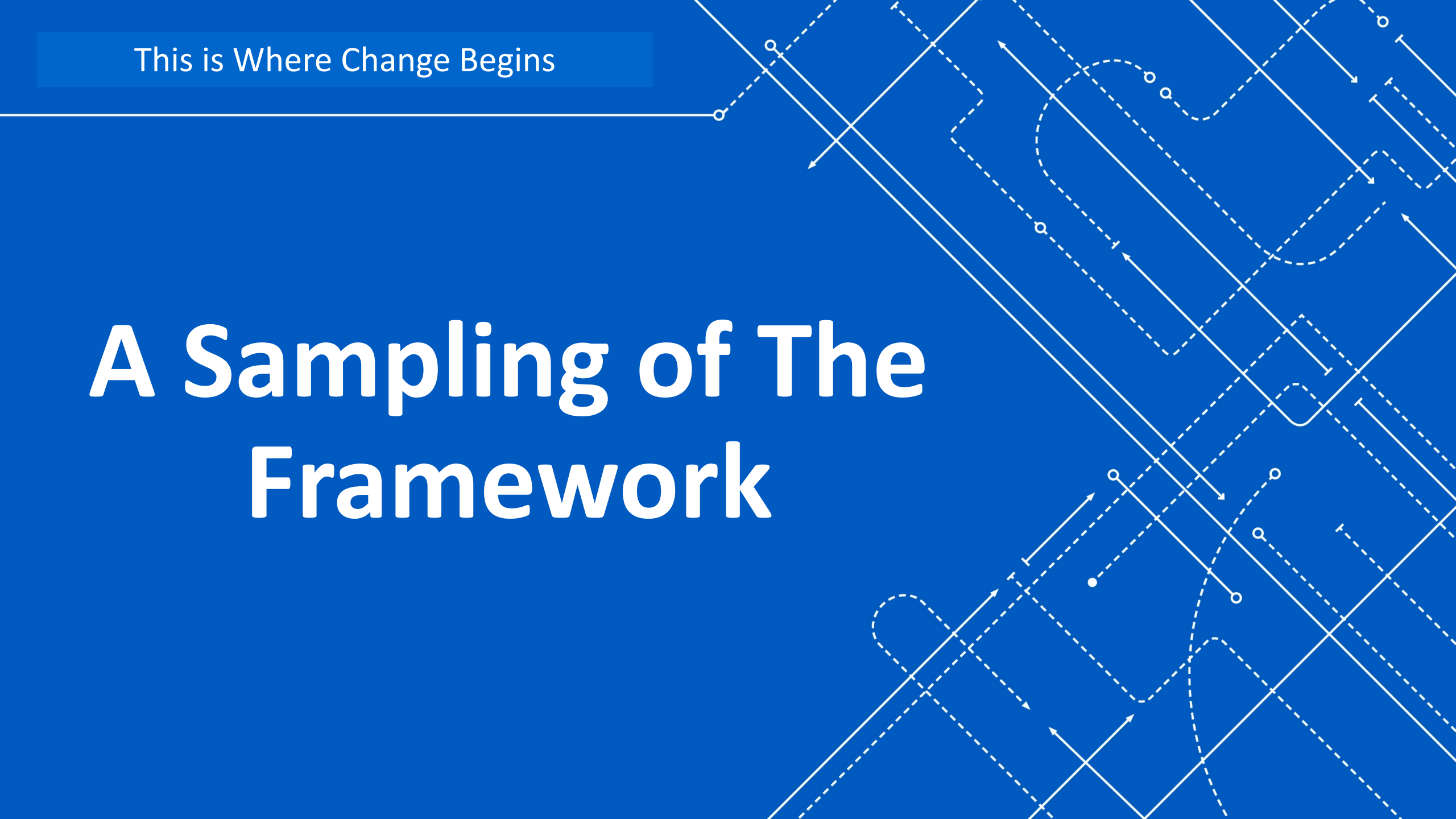
©purplishblack

The image features a vibrant, stylized background with a central sunburst of colorful triangles in shades of red, orange, yellow, green, and blue. Two palm trees with green fronds and brown trunks are positioned on the left and right sides. The text 'SDG GAME' is prominently displayed in the center in a bold, white, rounded font with a thick blue outline. The overall aesthetic is bright and energetic, suggesting a fun and engaging theme.

# SDG GAME

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# A Sampling of The Framework



# GOAL 2



END HUNGER, ACHIEVE FOOD SECURITY AND  
IMPROVED NUTRITION AND PROMOTE  
SUSTAINABLE AGRICULTURE

**1. Accomplishment:** Gov. Cuomo announced by the end of fall 2018, NYS public colleges at SUNY and CUNY have access to food pantry for students.

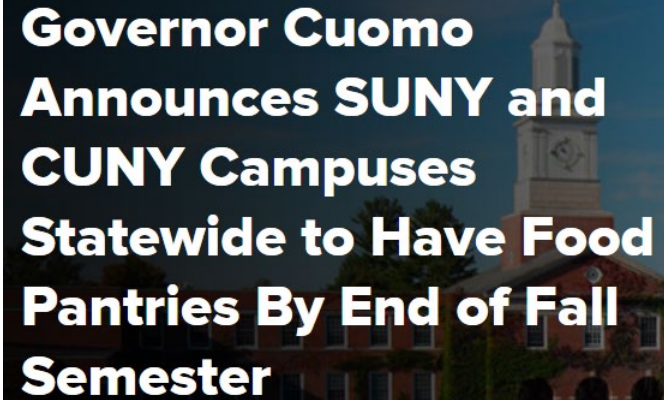
- SUNY Chancellor Kristina M. Johnson said, "Together, we are providing needed nutrition, ending the stigma around food insecurity, and helping ensure no student is forced to drop out because of limited access to the healthy food they need."

2. Each campus will ensure that all recoverable food is donated or used to feed those that are food insecure (on campus and in the community)

3. Purchase a minimum of 25% of sustainably and/or locally sourced and produced food by 2030 through a long-term process of menu planning with seasonality of harvests considered

AUGUST 29, 2018 | Albany, NY

**Governor Cuomo  
Announces SUNY and  
CUNY Campuses  
Statewide to Have Food  
Pantries By End of Fall  
Semester**



# GOAL 6



ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT  
OF WATER AND SANITATION FOR ALL

1. Decrease potable water use consumption by 50% and half the amount of untreated wastewater discharged to campus and municipal sewers by 2030
2. Increase green infrastructure tactics and low impact development practices to dramatically reduce the amount of storm water runoff and resultant water pollution through the creation and implementation of comprehensive storm water master plans
3. Play a key leadership role in supporting water quality improvement through teaching, research, and engagement through the Great Lakes and our regional watersheds

## Governor Cuomo visits New Paltz to launch Water Quality initiative

Posted on March 5, 2018

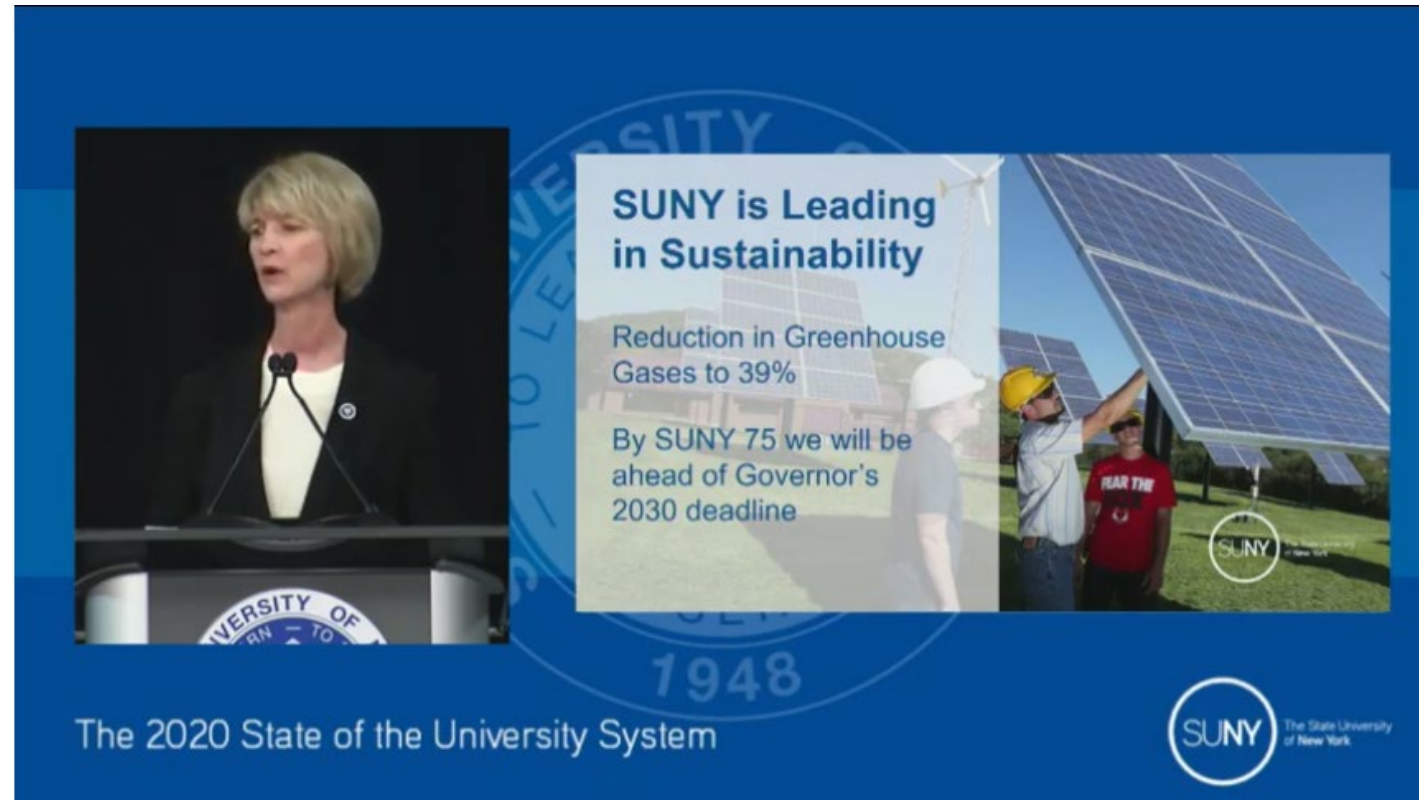


# GOAL 7

The background of the image is a photograph of several white wind turbines with three blades each, set against a bright blue sky with scattered white clouds. The turbines are positioned at various heights and angles, creating a sense of depth and scale. The overall tone is clean, modern, and environmentally friendly.

ENSURE ACCESS TO AFFORDABLE, RELIABLE,  
SUSTAINABLE AND MODERN ENERGY FOR ALL

1. Governor Cuomo's direction to a "net zero" emissions economy by 2050, with 100% of the state's electricity produced by renewable sources by 2040
2. All new capital buildings and major renovations must be built within a framework of Zero Energy Buildings with a goal of < 25 EUI Site Energy
3. 25% decrease in energy consumption in all campus buildings (from 2012 levels) by 2030



**Chancellor Johnson at her State of the University System address:** “Over the past two years, we have gone from a 24% reduction in greenhouse gases since 1990 to 39%. So, we are poised to surpass the New York State energy plan calling for a 40% reduction by 2030.”

# GOAL 12

The background features a dark green, textured pattern resembling grass or a similar natural surface. Overlaid on this is a large, white, stylized recycling symbol (a triangle of arrows) that is semi-transparent, allowing the green texture to be seen through it.

ENSURE SUSTAINABLE CONSUMPTION AND  
PRODUCTION PATTERNS

1. By 2030, achieve zero waste through sustainable materials management including prevention, reduction, reuse, and recycling
2. By 2030, halve per capita food waste at the retail and consumer levels and reduce food losses along production and supply chains in our dining operations
3. Begin phasing out single use plastics by 2020 and eliminate the use of all single-use plastics on campuses by 2025



# GOAL 15



PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF  
TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE  
FORESTS, COMBAT DESERTIFICATION, AND HALT AND  
REVERSE LAND DEGRADATION AND HALT  
BIODIVERSITY LOSS

# Governor Cuomo Unveils 12th Proposal of 2018 State of the State: Protecting New York's Lakes From Harmful Algal Blooms

STATE OF THE STATE

A CLEANER, HEALTHIER NEW YORK

Protecting New York's Water Quality

Text NEW YORK to 81330

1. Protect or positively affect the species, habitats and/or environmentally sensitive areas owned or managed by campuses
2. Integrate ecosystem and biodiversity values into campus planning and development processes with a focus on repopulating our campuses with plants (flora/fauna) native to the region
3. Mitigate the increased population of invasive species



THAT'S ALL WELL AND GOOD FOR  
SUSTAINABILITY PROFESSIONALS,  
BUT WHAT ARE WE TO DO?

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# Where Do We Go From Here?



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## Main questions for group discussion –

- Best approach: Campus by campus, by sector, or as a system?
- How integrated with General Education?
- Timeline: Incremental progress or holistic change?
- How does this interact with your committee?

# DISCUSSION & COUNSEL

