



Welcome



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Richard Dovey

Sustainable Jersey Board of Trustees



2015 NEW JERSEY SUSTAINABILITY SUMMIT



Overview of the Day

- Morning: Plenary Session in Concert Hall
- Lunch: Served in Lobby with Seating in Various Locations Indoors and Outside
- Afternoon: Two Rounds of Concurrent Sessions
- Late Afternoon: Networking at the Ice Cream Social
- Evaluations to be Emailed to All Participants. Your Feedback is Appreciated!

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Dr. Barbara Gitenstein President The College of New Jersey



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Keynote Introduction

Donna Drewes, Co-Director
Sustainable Jersey and
Sustainability Institute at TCNJ



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Keynote Address

Shelly Poticha, Director, Urban
Solutions,

Urban Program, Natural Resources
Defense Council



2015 NEW JERSEY SUSTAINABILITY SUMMIT

UNLOCKING THE MARKET FOR STRONG + RESILIENT COMMUNITIES

New Jersey Sustainability Summit

JUNE 10, 2015

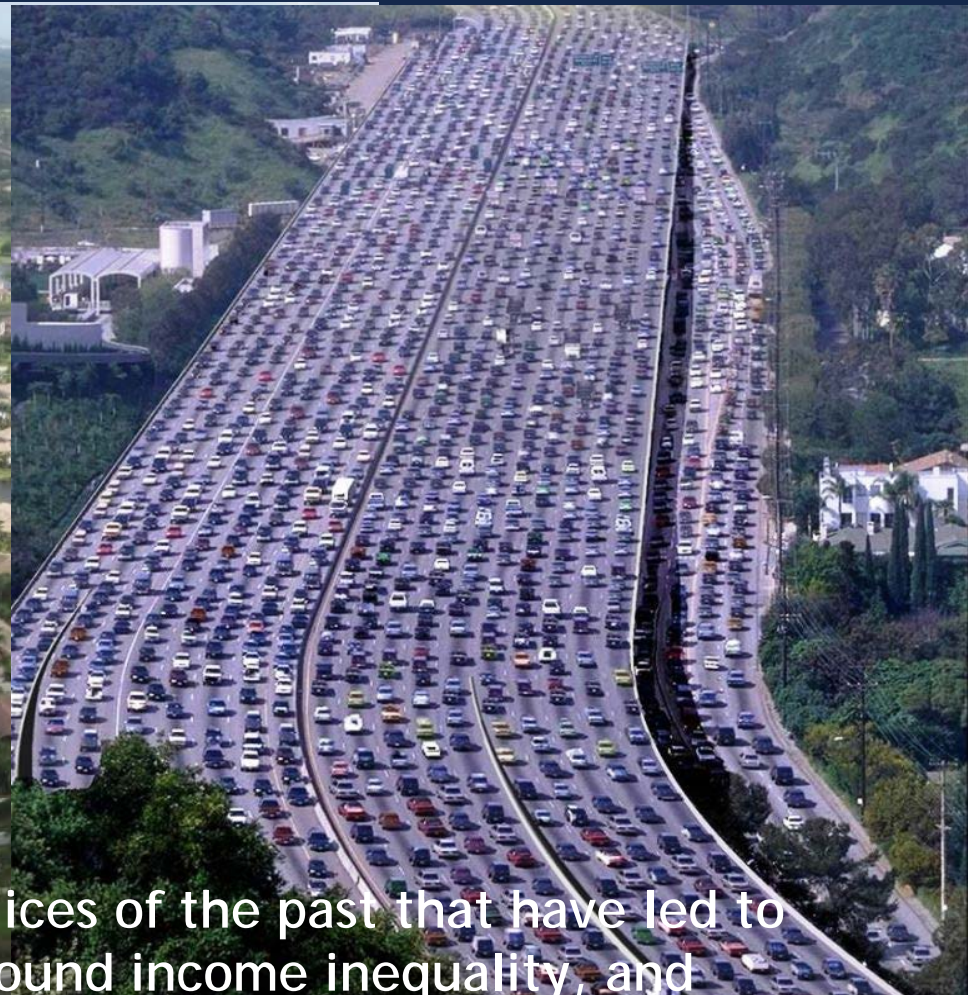
Shelley Poticha, Director, Urban Solutions



MORE THAN 80% OF AMERICANS LIVE IN CITIES + NEARBY SUBURBS

By focusing on “urban areas,” we can tackle the interconnected and universal challenges of climate change and community vitality side-by-side

We have a Choice:



Continue the development practices of the past that have led to environmental damage, profound income inequality, and boom and bust economic cycles or....

Adopt forward thinking strategies that lead to a more stable and resilient future for people and the planet

It is important to get it right this time



IT'S NOT YOUR PARENTS' AMERICA ANYMORE

New challenges for a new generation



FACT: The Millennial generation has far lower earning potential than the Boomers

- Deep education debt
- Wages aren't keeping pace with costs
- Concerned about the burden of owning homes and cars
- Looking for ways to save money



FACT: Working Americans are spending too much on basic expenses

Trenton-Ewing, NJ > Mercer County > Trenton

Trenton

Median-Income Family

\$73,759 annual income

4 people

2 commuters

Switch to this profile and location in
[My Transportation Cost Calculator](#)

Average costs as a percent of income in this location for Median-Income Family Households:

☐ Renter ☐ Owner ☒ Combined

Housing	Transportation	Location Affordability
26%	15%	41%
\$19,177	\$11,064	\$30,241

On average, Median-Income Family Households in this location would:

 Own **1.8** vehicles

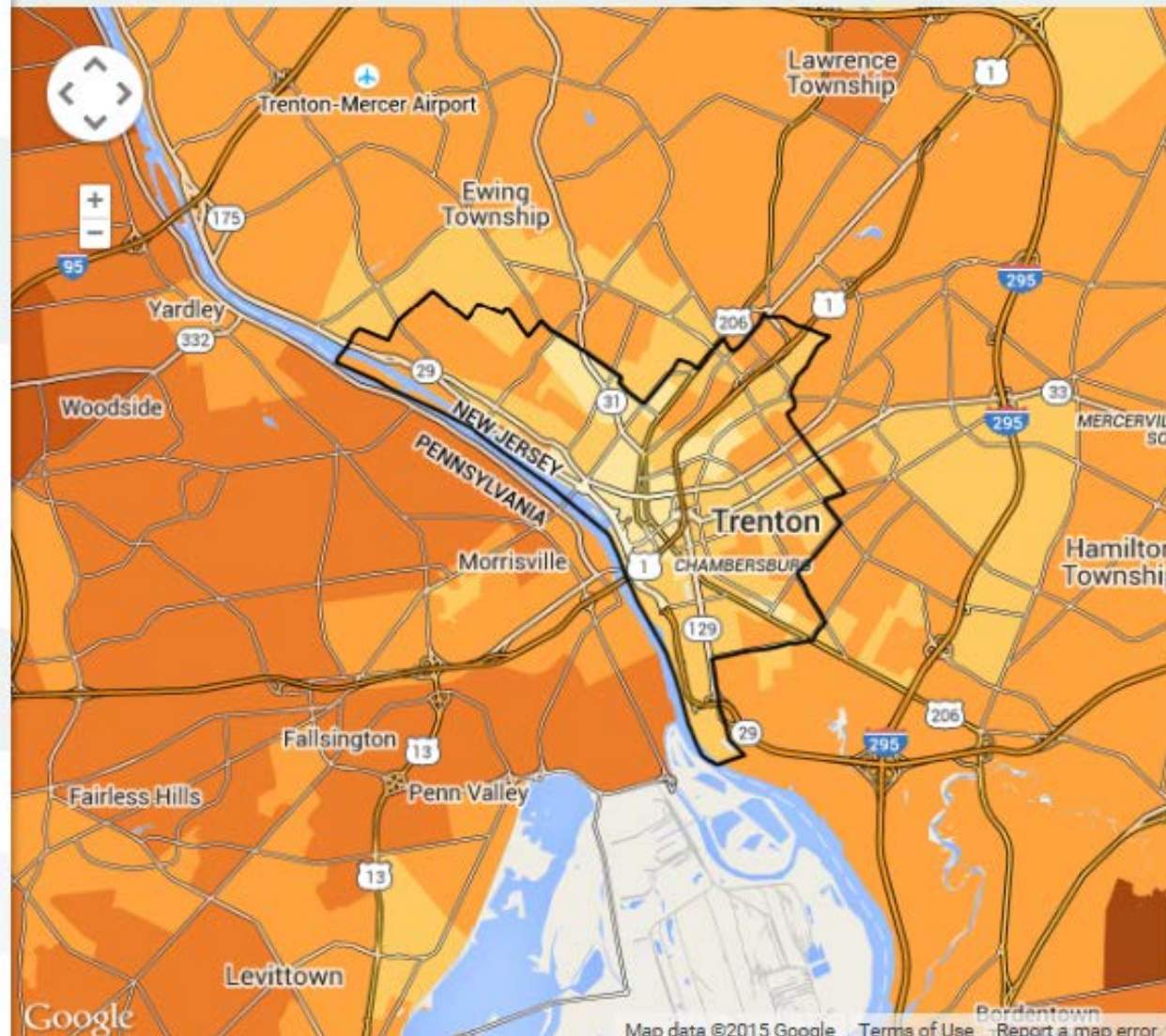
 Drive **19,933** miles annually

 Take **146** transit trips annually

Location Affordability (Housing and Transportation, % of Income)

Median-Income Family Household

0%-26% 27%-37% 38%-44% 45%-52% 53%-61% 62%-71% 72%-87% 88%+





Trenton-Ewing, NJ > Mercer County > Trenton

Trenton

Single-Parent Family

\$36,880 annual income

3 people

1 commuter

Switch to this profile and location in
[My Transportation Cost Calculator](#)

Average costs as a percent of income in this location for Single-Parent Family Households:

☐ Renter ☐ Owner ☒ Combined

Housing ?

43%

\$15,858

Transportation

20%

\$7,376

Location
Affordability

63%

\$23,234

On average, Single-Parent Family Households in this location would:



Own **1.3** vehicles ?



Drive **13,264** miles annually

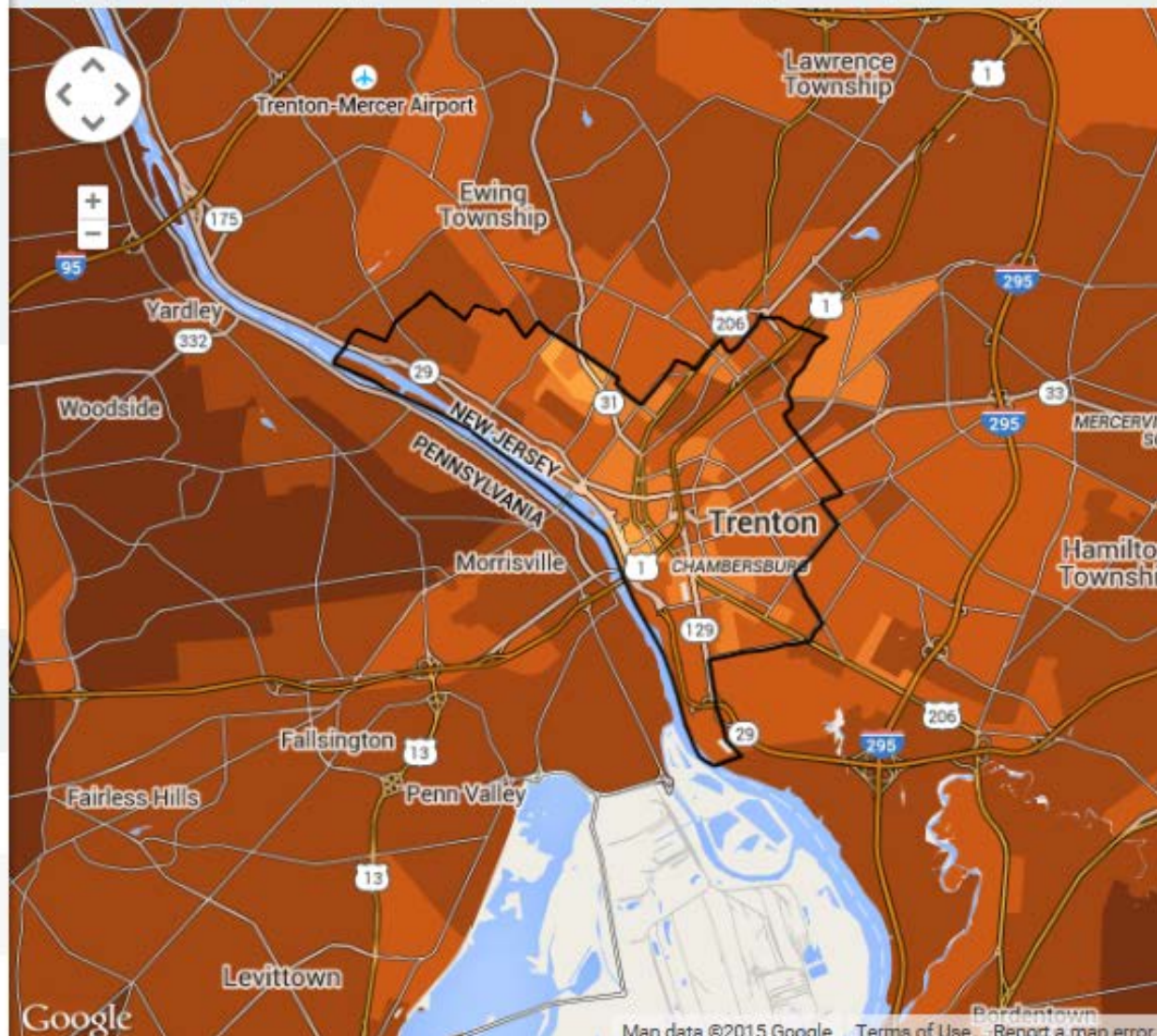


Take **157** transit trips annually

Location Affordability (Housing and Transportation, % of Income)

Single-Parent Family Household

0%-26% 27%-37% 38%-44% 45%-52% 53%-61% 62%-71% 72%-87% 88%+



Google

Map data ©2015 Google Terms of Use Report a map error

FACT: Our communities are highly vulnerable to climate change



In the last 3 years, extreme weather events have caused over \$188b in damages to homes and businesses and taken over 1,000 lives in the U.S.

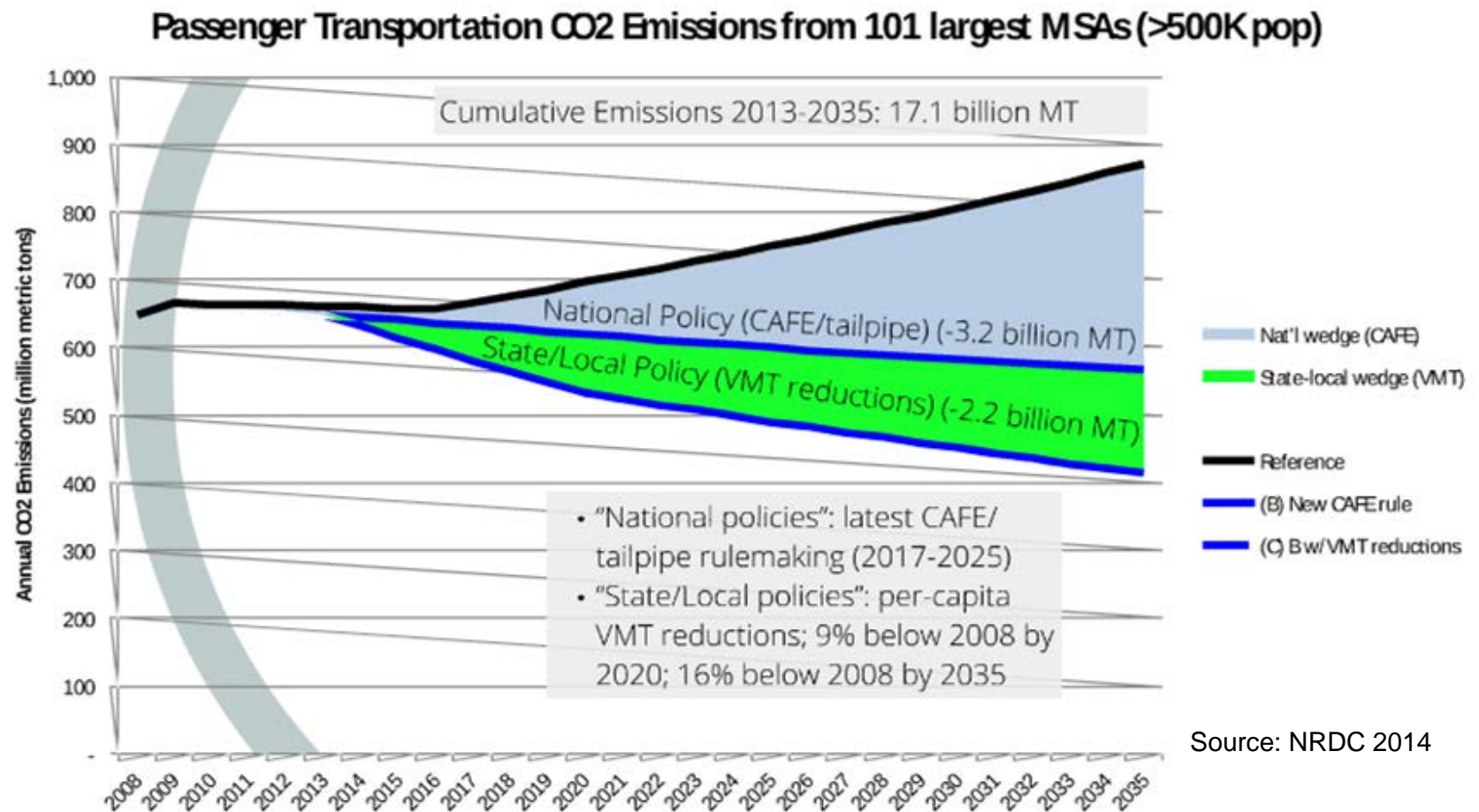
Americans are starting to take climate change seriously.

Greening cities protects us, improves livability and creates jobs

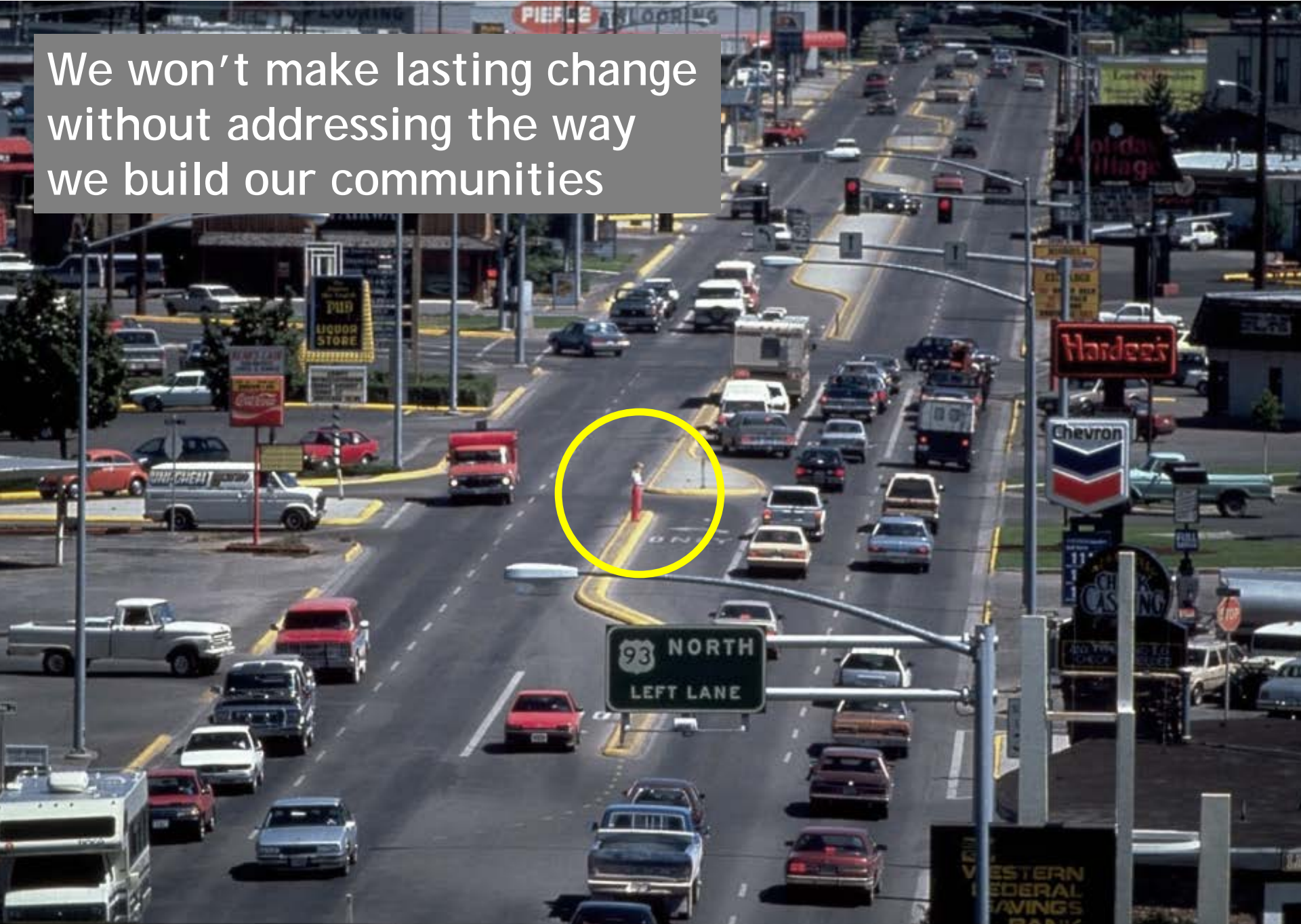


...but we are not yet making significant impact

FACT: Urban transportation is a major contributor to carbon emissions



We won't make lasting change
without addressing the way
we build our communities





We Know What Works:

Residents of compact, well-located
and connected neighborhoods:

Use 30% less energy

Generate less air pollution

Use less water

Don't have to buy a car to get a job

Are healthier and happier

Help protect surrounding farmlands,
wetlands and watersheds

To maximize impact we need to:

Make cities and suburbs more attractive
and vital

Catalyze Investors

Use a different language!



What if we focused on the basics of life?

Lowering the cost of living by looking at housing, transportation and energy costs together

Promoting job-generating infrastructure

Increasing low-cost access to jobs and education opportunities

Reducing emergency room visits by eliminating mold in affordable housing and cleaning our air

Improving health outcomes by creating walkable communities and access to healthy food

Opening up access to investing locally to build wealth



PARTNERSHIP FOR SUSTAINABLE COMMUNITIES

A ground-breaking initiative to help communities realize their long term vision (and ask the Federal government to be better partners)

HUD-DOT-EPA Partnership for Sustainable Communities



June, 2009

Partnership Livability Principles:

1. Provide more transportation choices
2. Promote equitable, affordable housing
3. Enhance economic competitiveness
4. Support existing communities
5. Coordinate policies and leverage investment
6. Value communities and neighborhoods



Aligning Policies + Funding

Housing and Urban Development

- Disaster Funding
- Community Development Block Grants
 - Regional Planning
- Community Challenge
- Choice Neighborhoods
- Affordable Housing Programs



Department of Transportation

- TIGER Grants
- FTA Core Programs
- FTA Livability Grants
 - Flex Funding
- FHWA Discretionary Grants
 - United We Ride
- State/Metro Planning
- Intermodal Connectivity



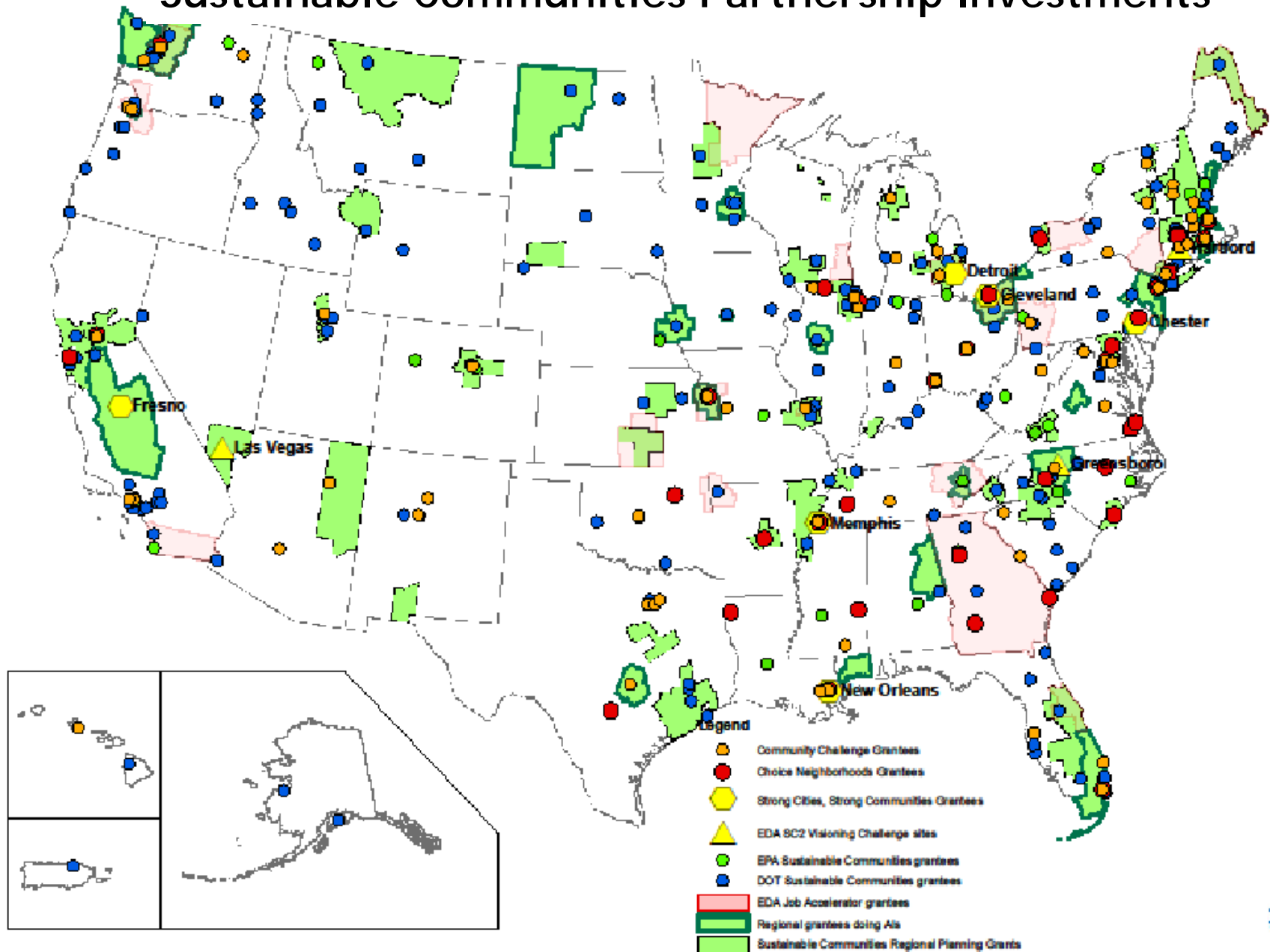
Environmental Protection Agency

- Brownfields Restoration
- Smart Growth Technical Assistance
- Water Infrastructure Funds (SRF)

U.S.
Department
of
Commerce/
EDA

U.S.
Department
of
Agriculture

Sustainable Communities Partnership Investments



Metro Boston

Established Housing production and preservation targets by town w/TOD focus for the full metro area.

“Shovel Ready” projects in suburbs designed, financed and permitted (Pearl Meats, Jackson Sq, Glouster)

Small scale sewer demo to show how infill in suburban towns is financially feasible (Littleton)

Equitable TOD Acquisition Funds for City and Region (total of \$15 million)

New regional public health office w/CDC Community Transformation Grant

Governor established \$1b incentive fund to support implementation of





Land of Sky-Asheville

Economic Revitalization strategy tied to local food/local businesses

Regional land conservation plan adopted

Alignment of plans for sewer, water, transport infrastructure to guide investments for next 20-years

Attracted east coast **Sierra Nevada** brewery on the strength of sustainable community commitments.

Siting food processing and distribution hubs to support regional farmers.

Creative public engagement strategy - priority on reaching new, underrepresented communities



Des Moines Region

5,000 people participating online and in person to establish a shared vision for the future of the region

Used scenario planning tools to show impacts of different development options

Strong business engagement to identify major public investments (riverfront park, near-to-downtown neighborhood revitalization, bus rapid transit network, strategic suburban corridor revitalization)

Regional watershed protection/disaster resilience strategy will lead to the region's first regional open investments



Rebuild By Design



RESIST

DELAY

STORE

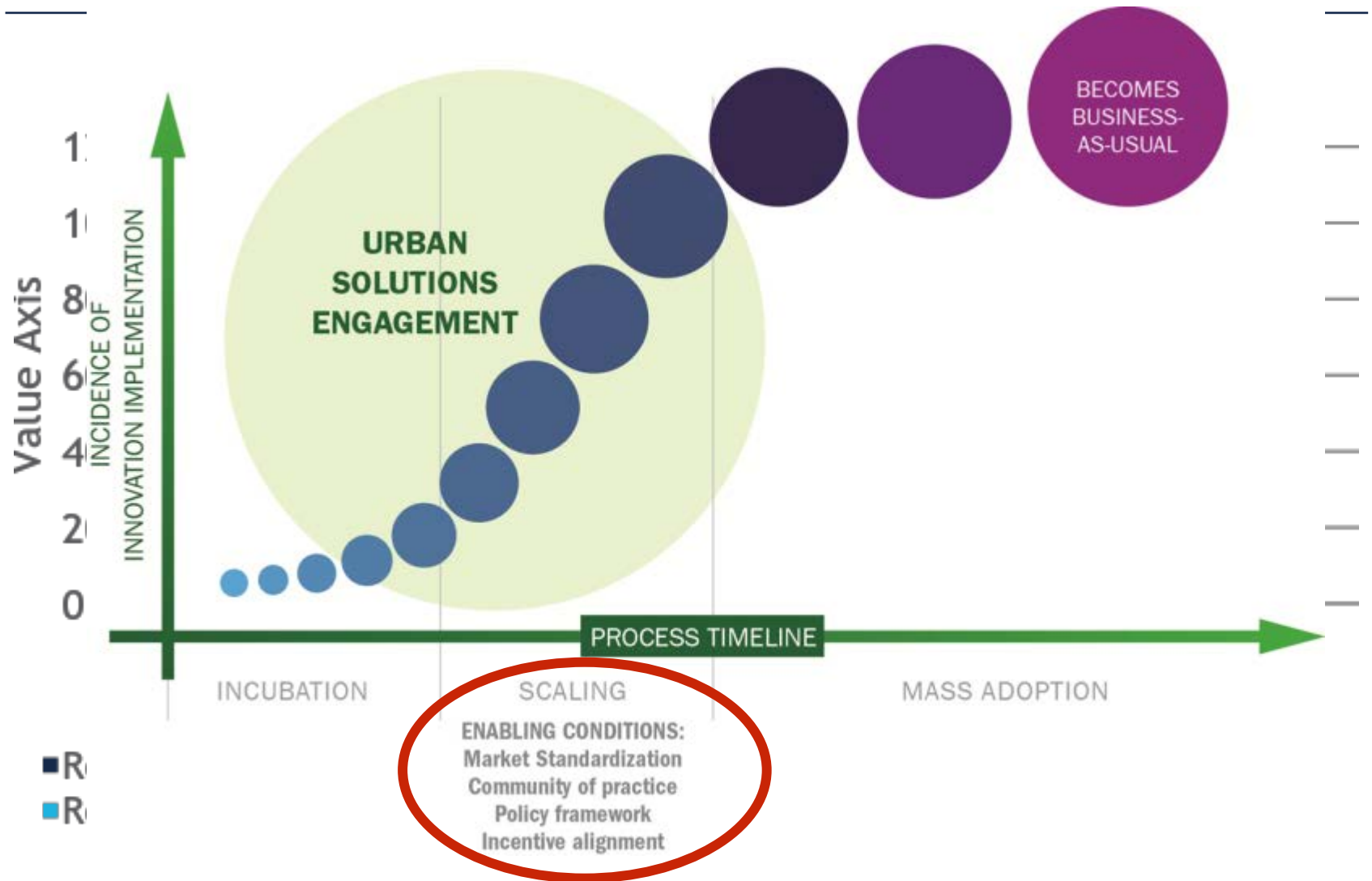
DISCHARGE



WHAT'S NEXT?

Getting It Done: Moving from Planning to Implementation

Creating Change at Scale



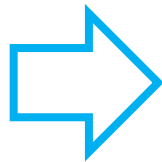


The Missing Middle



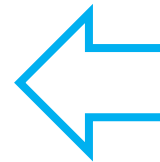
SMART PLANNING

Place-Based Initiatives are building local capacity to plan for resilient, inclusive communities. High Road Infrastructure is now widely desired. Rebuild-by Design spurred a new generation of plans



PRE-DEVELOPMENT

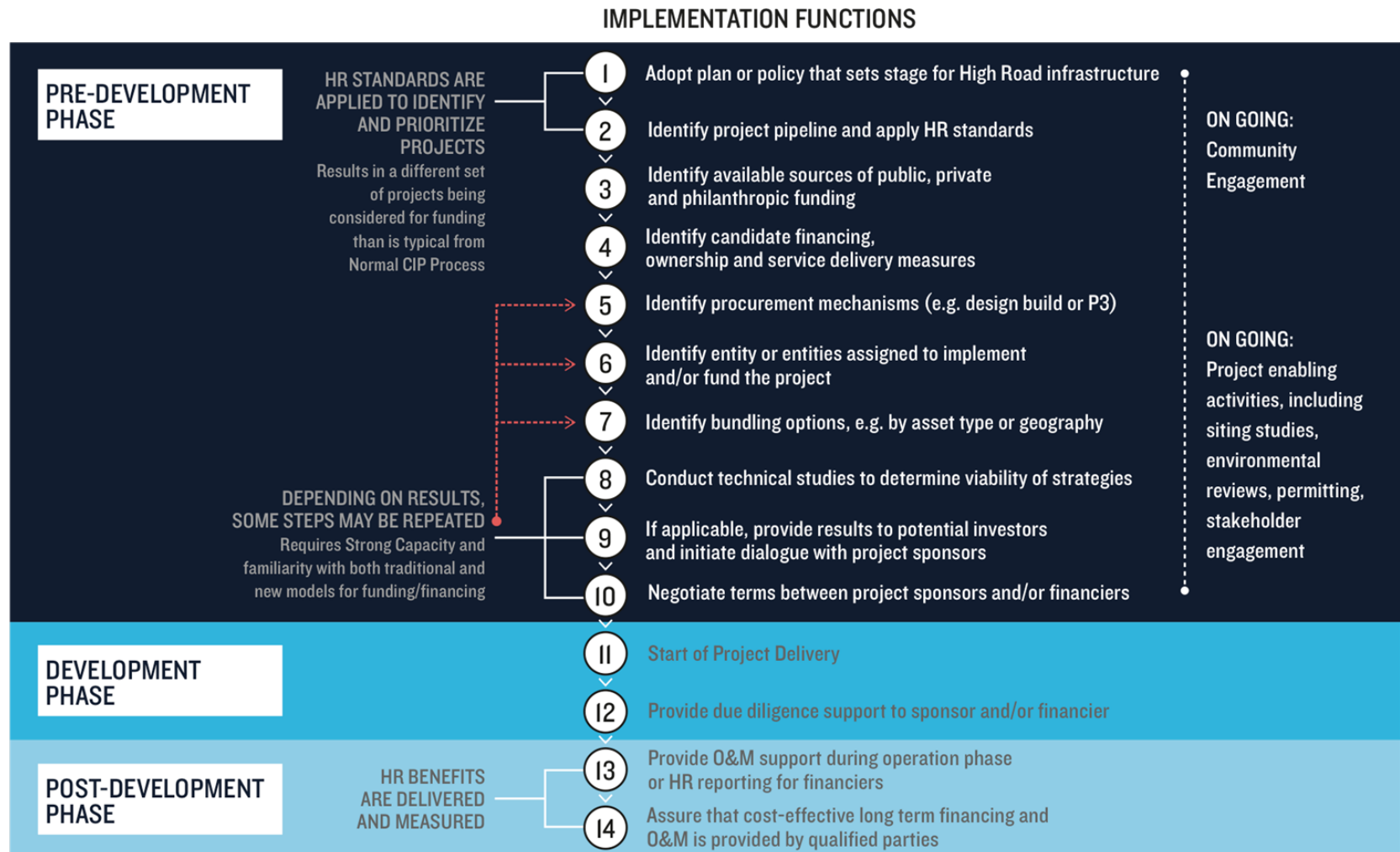
The missing tools, standards and capacity that get us from vision to implementation.



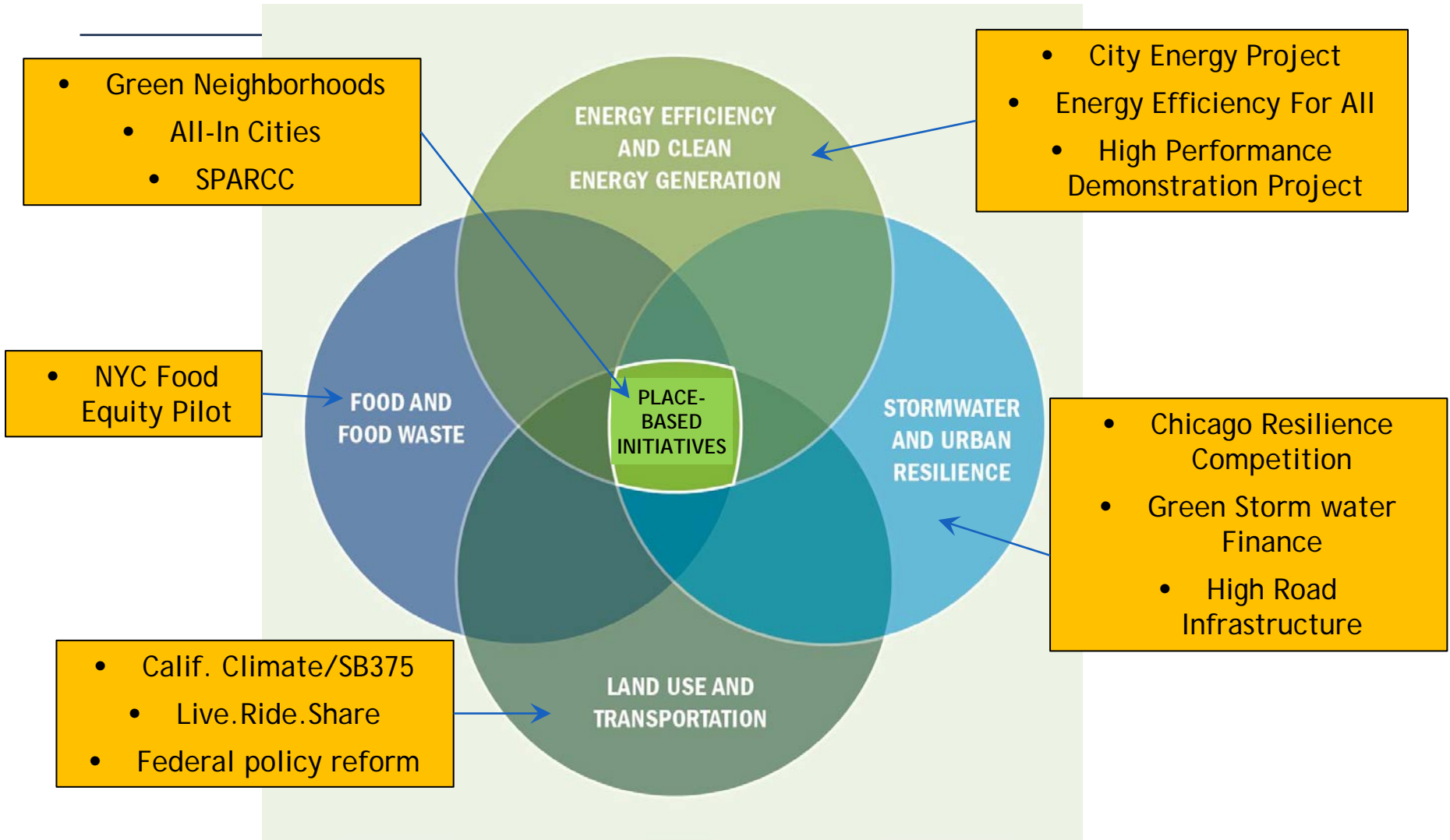
INVESTMENTS

Plenty of investor interest in High Road infrastructure - pension funds, market investors, impact investors, muni-bond market - but no clear pipeline of projects and no standards that lift good projects up.

Pre-Development Protocols



Integrated Solutions



Urban Solutions: Accelerating Change for the Benefit of Everyone



Thank you!

Shelley Poticha

spoticha@nrdc.org



**URBAN
SOLUTIONS**



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15 Minute Break



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Randall Solomon

Co-Director

The Sustainability Institute at The College of New Jersey and Sustainable Jersey



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Our Objectives

- Define an inspirational vision and goals for a sustainable New Jersey
- Track progress
- Guide our work
 - Assess Sustainable Jersey actions
 - Lay foundation for Gold level of certification
 - Determine community-level contribution necessary to achieve sustainable state collectively

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Greater Comfort, Lower Bills

Energy Upgrades - Rebates up to \$5,000,
Interest-free Financing up to \$10,000.

Essex County Energy

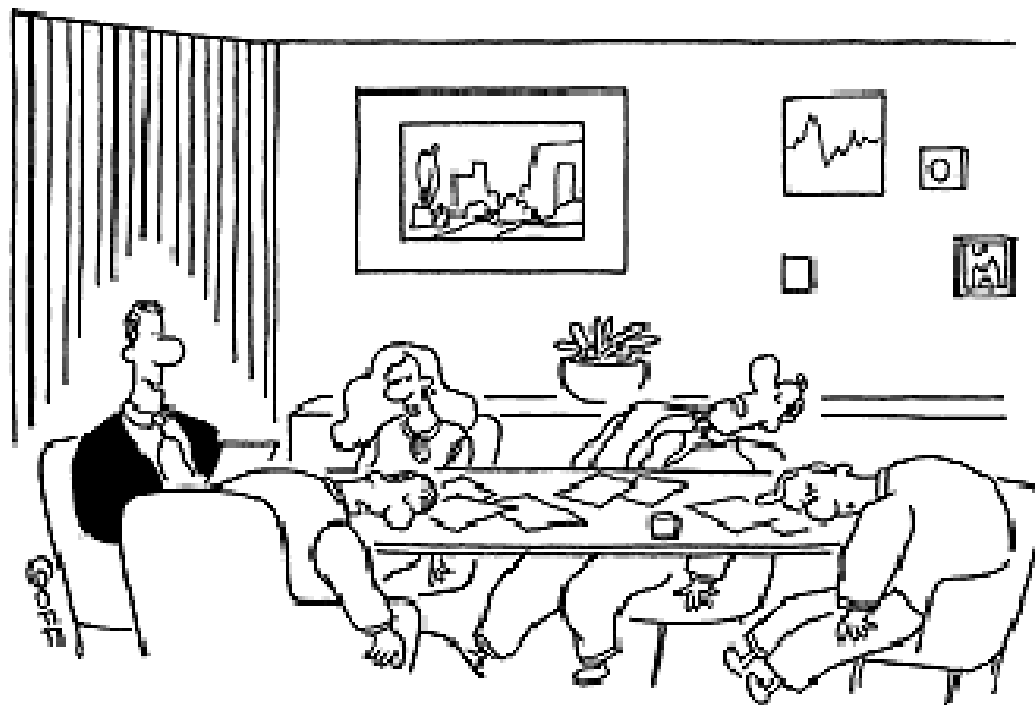








Newsflash: This isn't glamorous



2015 N

**"At last we've reached a consensus!
This meeting is boring!"**



The Mayor didn't like our idea...





Relationship Building and Communication Strategies

County Hub Training



A Better Tomorrow,
One Community at a Time

**SUSTAINABLE
JERSEY**

• CERTIFIED •



www.SustainableJersey.com



Defining our Vision

- Our Vision is our Goals
- 57 Goals for the Future of New Jersey
- Understanding how our local work fits into a larger whole

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Are we there yet?



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Indicators: Making Sustainability Visible

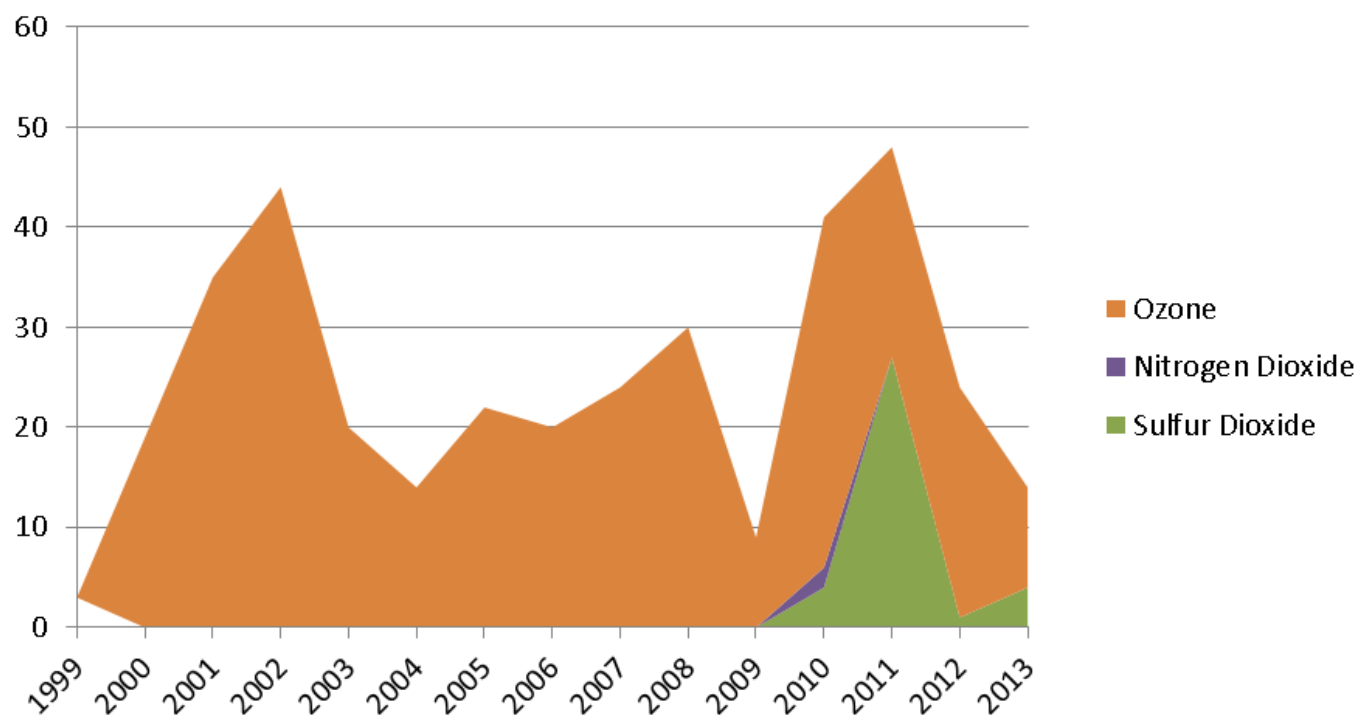


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Number of Unhealthy Air Days



2015 NE



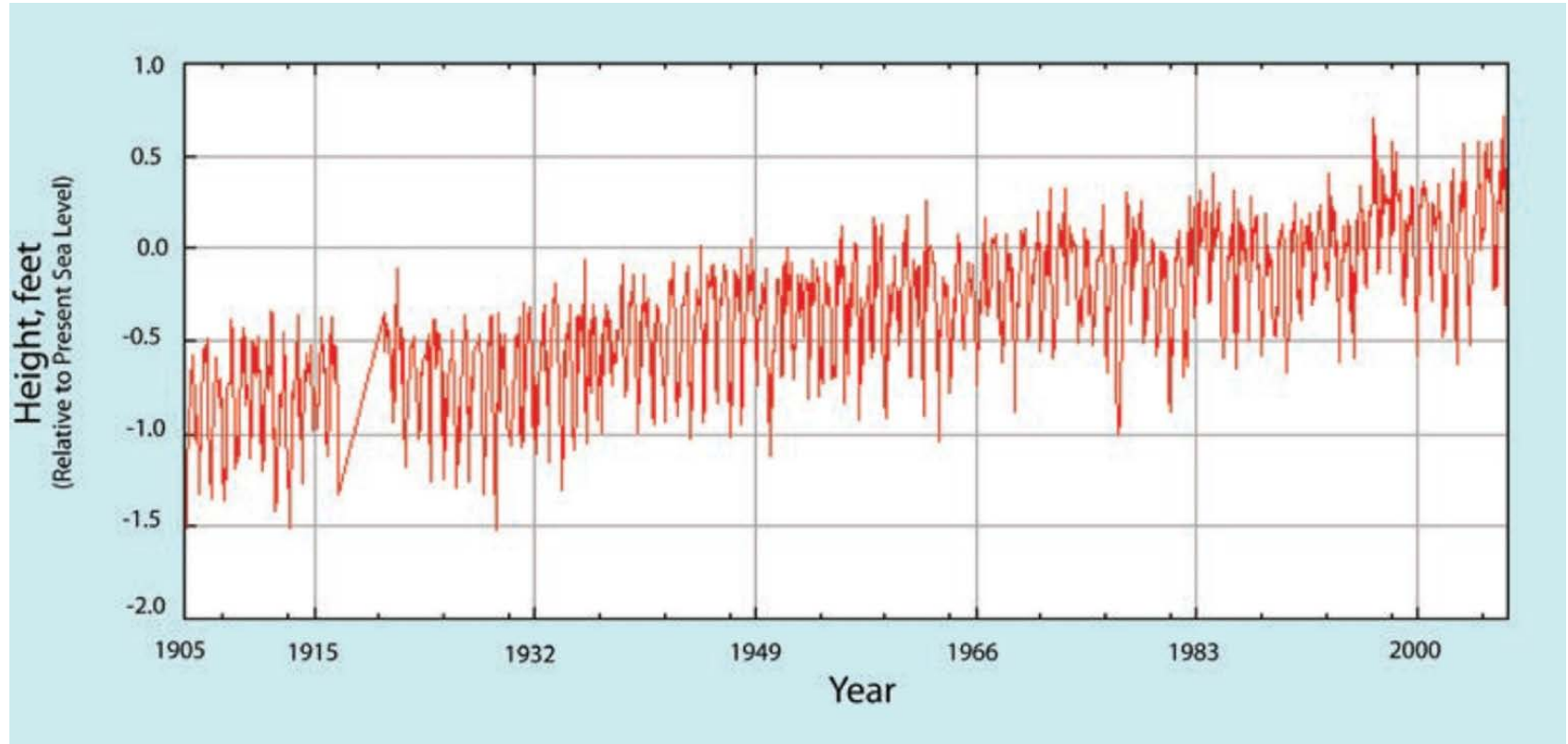
Mean Sea Level Height, NYC



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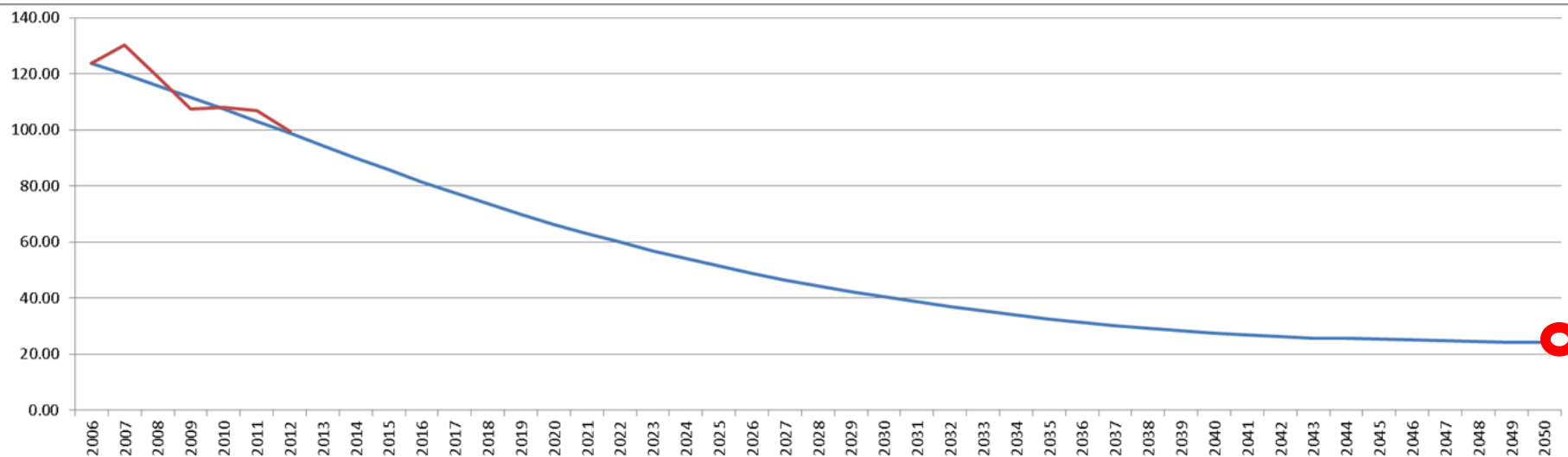
Mean Sea Level Height, NYC





Putting it Together

Projection of Greenhouse Gas Emissions Reduction Curve to Meet Goal



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Traps to Avoid

- Measuring only local conditions and not understanding the upstream and downstream impacts
- Measuring trends without the context of targets
- Tracking the data we have, instead of the trends we care about

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Guiding our Work

- Calibrate the actions and points
- Identify gaps
- Develop a Gold Certification level

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Getting to Gold

- Bronze:
 - Made a commitment to Sustainability
 - Created internal organization (green team)
 - Succeeded in implementing first significant actions
- Silver:
 - Beyond getting started
 - Making significant progress in a broad range of areas
 - Statewide leader

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What is Gold?

- Highest level of certification
- Recognizes that a municipality is “on course” to becoming sustainable
- If every municipality were to perform at the Gold level, collectively municipalities would be “doing their part” to achieve our goals
- Measures performance, not just implementation of actions
- Enables innovation/rewards performance/gets beyond current prescriptive actions

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A Test Case

- Whose vision and goals?
- What does “sustainability mean” for this goal?
- Prioritizing: meeting needs before wants.

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My Sustainability Goal: Ample Breakfast Sammys



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My Sustainability Goal: Ample Breakfast Sammys

Target:
1 Porkroll Egg and Cheese Per Day



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My Sustainability Goal: Ample Breakfast Sammys

Target:

1 Porkroll Egg and Cheese Per Day

Current Status:

0.249 BSEU Per Day

(BSE=breakfast sandwich equivalent)



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My Sustainability Goal: Ample Breakfast Sammys

Target:

1 Porkroll Egg and Cheese Per Day



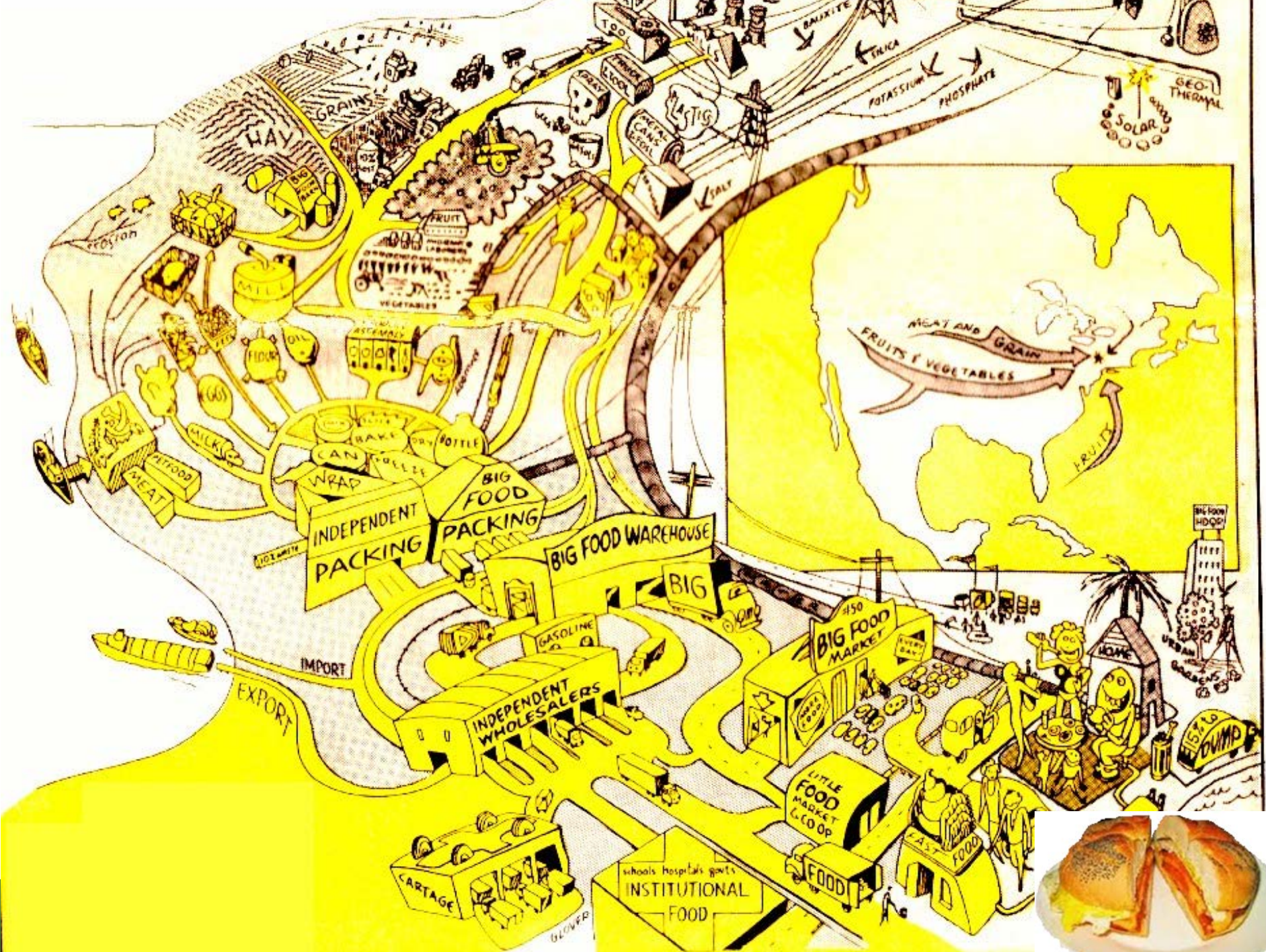
Current Status:

0.24 BSE Per Day

(BSE=breakfast sandwich equivalent)

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Progress Toward Goal:





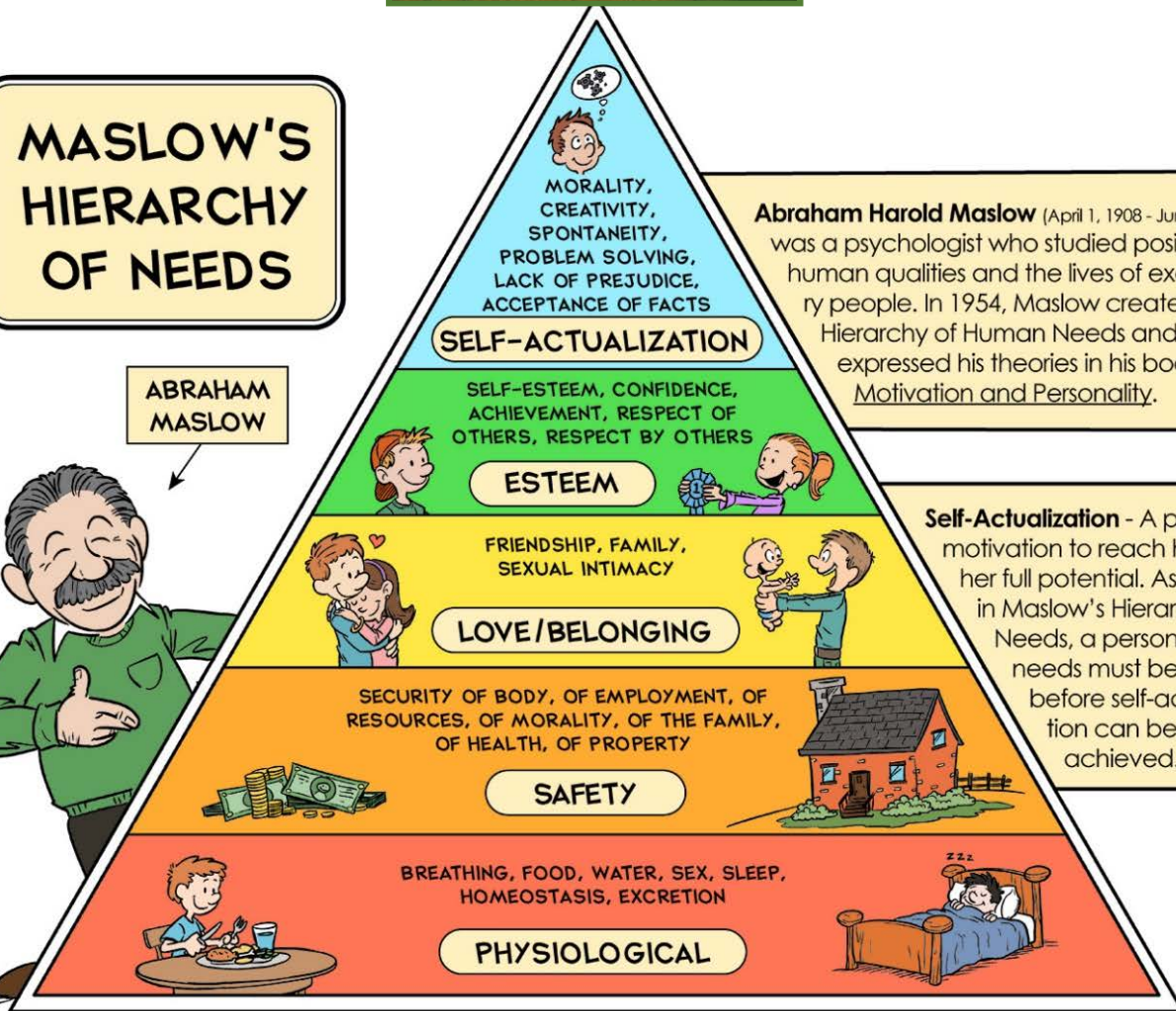


MASLOW'S HIERARCHY OF NEEDS

ABRAHAM MASLOW



2014



Abraham Harold Maslow (April 1, 1908 - June 8, 1970) was a psychologist who studied positive human qualities and the lives of exemplary people. In 1954, Maslow created the Hierarchy of Human Needs and expressed his theories in his book, Motivation and Personality.

Self-Actualization - A person's motivation to reach his or her full potential. As shown in Maslow's Hierarchy of Needs, a person's basic needs must be met before self-actualization can be achieved.



Process and Methods

- Task Forces identified issue areas/categories
- First Sustainability Summit refined categories, identified data sources and experts
- Staff refined input into 15 dimensions
- Working with Task Forces and experts:
 - Broke down dimensions into 2-5 component "Goals"
 - Gathered data, chose indicators, identified gaps
- Developed new indicators, noted research needs
- Worked with Ad Hoc Review Committee to assess goals

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New Jersey Sustainable State of the State 2015

- Two Volumes: 2 Audiences
 - Summary Report –Green Teams, Busy People
 - Technical Volume – Experts
- Summary Report
 - Focus on Goals: What are they, how are we doing?
 - Indicators represented as simple arrow graphics
 - Graphically rich, succinct, missing detail and nuance
- Technical Volume
 - Focus on presenting data (released next week)

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What is Next?

- Report is a “point of departure”
 - More gaps than actual good data – humbling experience
 - Not enough time for vetting and consensus building
 - A humble offering to start a conversation
- 2016 Objectives
 - Release Version 2
 - Fill in data gaps
 - Engage stakeholders more robustly
- Develop Gold Certification level



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The New Jersey Sustainable State of the State 2015

Melanie Hughes McDermott, Ph.D.

Sustainable Jersey &

Sustainability Institute at TCNJ



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If you do not change direction,
you may end up where you
are heading.

- Lao Tze

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Defining 'sustainability':

Specify:

- Sustainability of what?
- ... for whom?

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A sustainable state ...

is one that is able to provide
the things people value,
over the long run.

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Dimensions of sustainability:

- 1) Biodiversity & Ecosystem services
- 2) Water
- 3) Agriculture
- 4) Air
- 5) Health
- 6) Education & Human Development
- 7) Social capital
- 8) Governance
- 9) Economics
- 10) Housing
- 11) Transportation



Crosscutting themes:

1. Equity:

distribution and decision-making

2. Climate change:

mitigation and resilience

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Provisos:

- Limits on number of indicators
- Limits of quantitative indicators
Everything that counts can't be counted. Not everything that can be counted counts.
- Limits of measurement
Measure what we value – not value what is measured

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THE 2015 NEW JERSEY SUSTAINABLE STATE OF THE STATE REPORT: VOLUME I

A VISION AND PROGRESS REPORT FOR A
SUSTAINABLE NEW JERSEY



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How Is New Jersey Doing?



New Jersey's mosaic of natural, agricultural, and developed land supports its **full complement of species and biodiversity**.



Bird Species Diversity

Five out of six species of indicator birds representing different New Jersey habitats are declining. Declining: Baltimore Oriole, Eastern Towhee, Black and White Warbler, Red Knot, Piping Plover. Increasing: American Black Duck.



River and Stream Biodiversity

Surveys of stream-bed life (benthic macroinvertebrates) show that the number of stretches of New Jersey rivers and streams whose health is rated as "excellent" is in decline. The number rated "poor" is also in decline. Thus, we are cleaning up the worst offenders, but failing to protect our pristine areas.



There is **sufficient land, appropriately managed**, to provide essential ecosystem services and to allow species to adapt and migrate in response to climate change.



Conversion of Land from Open to Developed 📉

The amount of land in New Jersey that is developed is increasing at the expense of forest, wetlands, and agricultural land.



Forest Biomass (growth)

The biomass of living trees in New Jersey (not acres of forest, but volume of trees on forested land) is increasing.



Impervious Surface

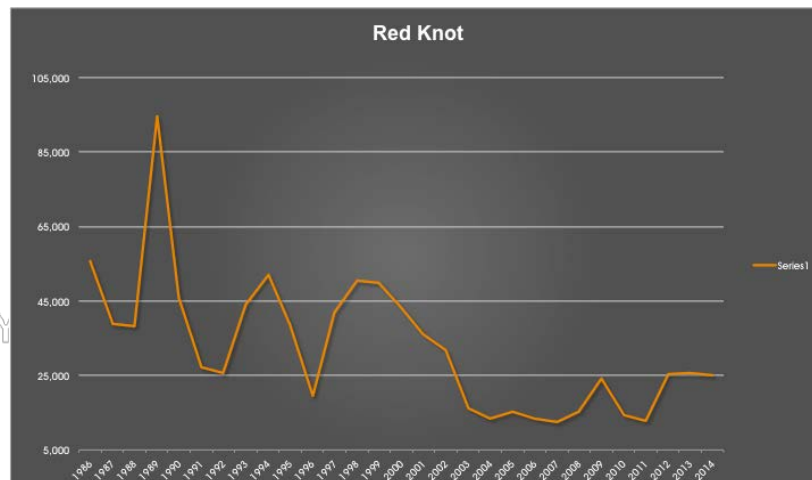
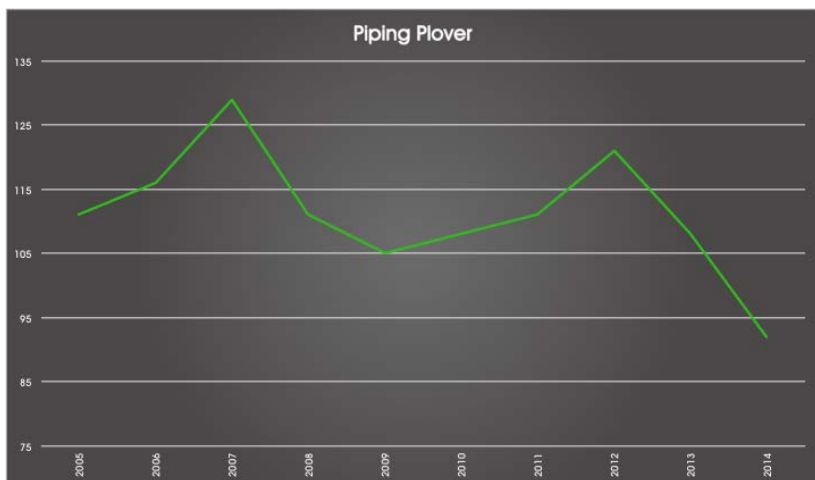
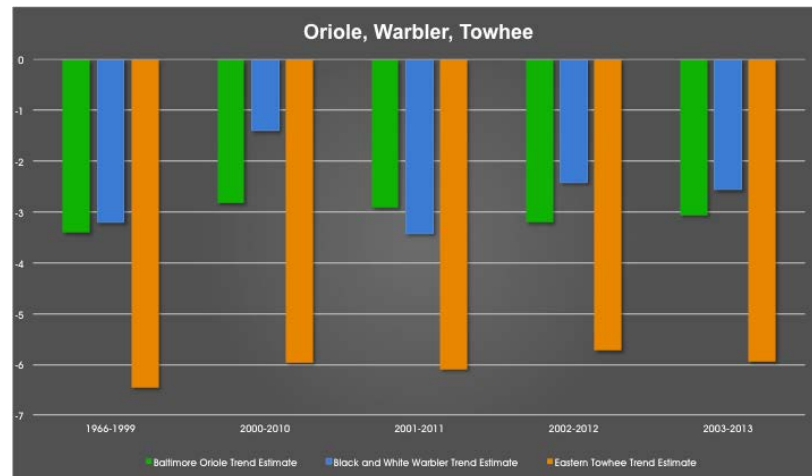
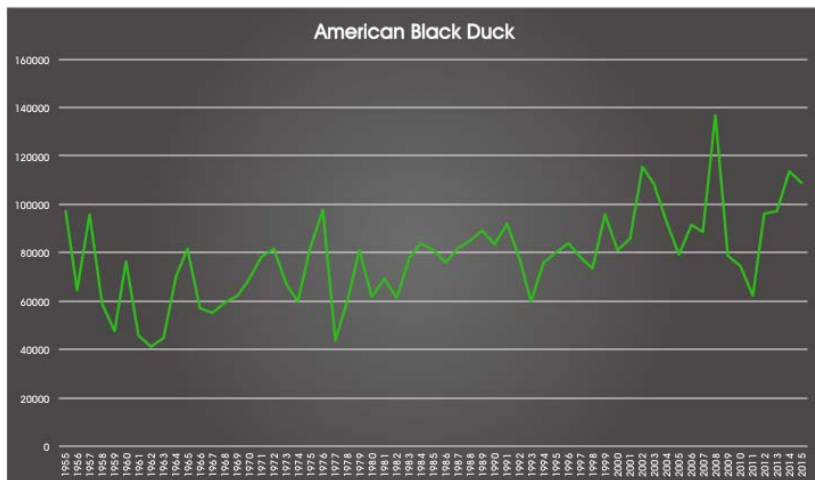
The amount of land in New Jersey that is paved (covered with impervious surface) continues to increase.



Watershed Disturbance

In 2002, one third of New Jersey's watersheds had over 10% impervious cover and were considered significantly impaired.

Bird population trends



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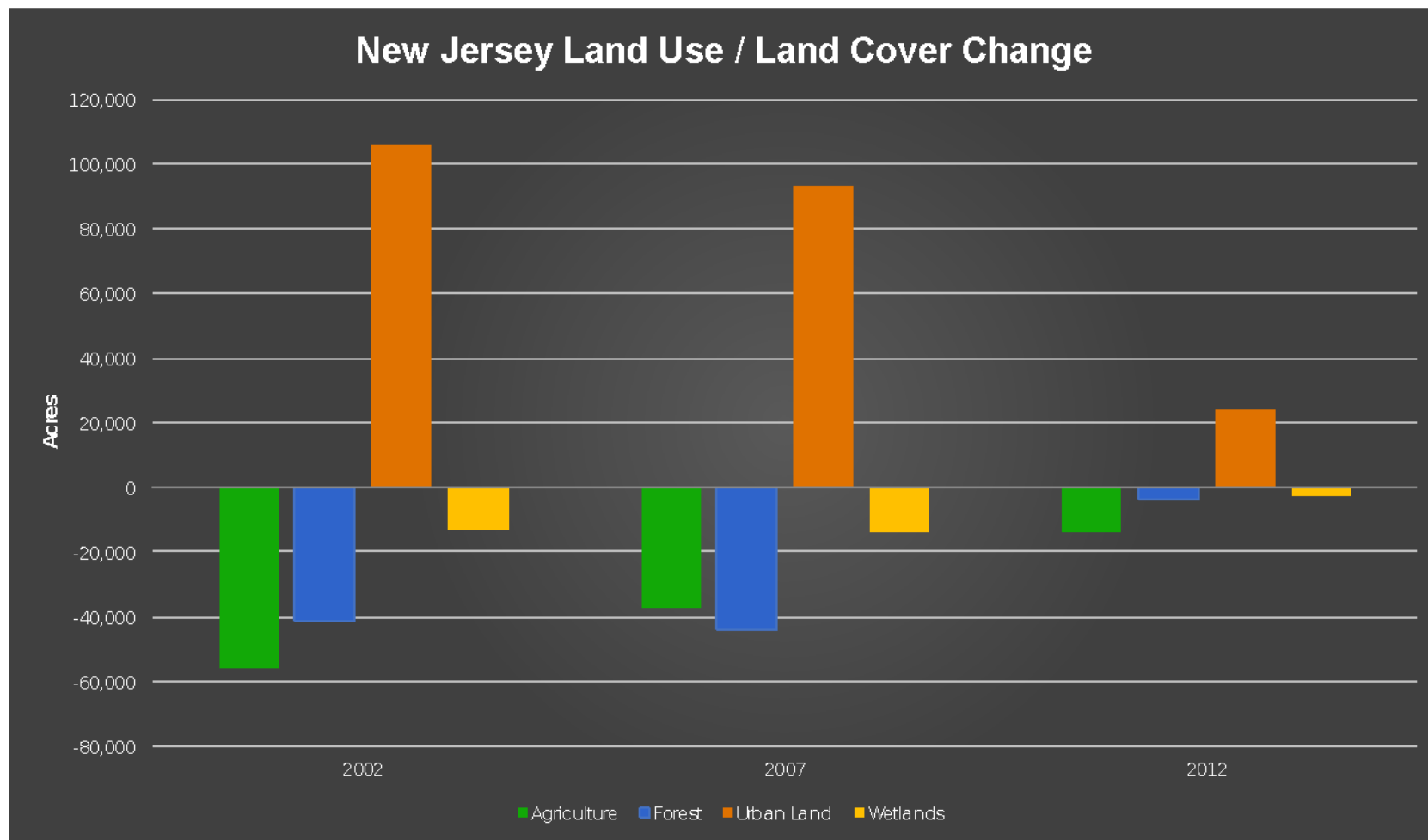
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WATER

1. **Drinking** water is clean and safe for human consumption.- [UP]
 - Indicator: Tap Water : avg. 96% compliant 2002-12 <->
2. **Water quality** supports *native species* ... and safe for *human* recreation and fish consumption [DOWN]
 - <20% water bodies support recreation ↓
3. **Water supply** – Human use doesn't deplete supply left in streams to extent it impairs use by species [DOWN]
4. **Water system**: drinking-, storm- & wastewater infrastructure at needed capacity & standards [DOWN]
 - Indicator: Cost infrastructure upgrade >\$40 billion ↑
 - Making infrastructure resilient to **climate change** - ?



AIR QUALITY

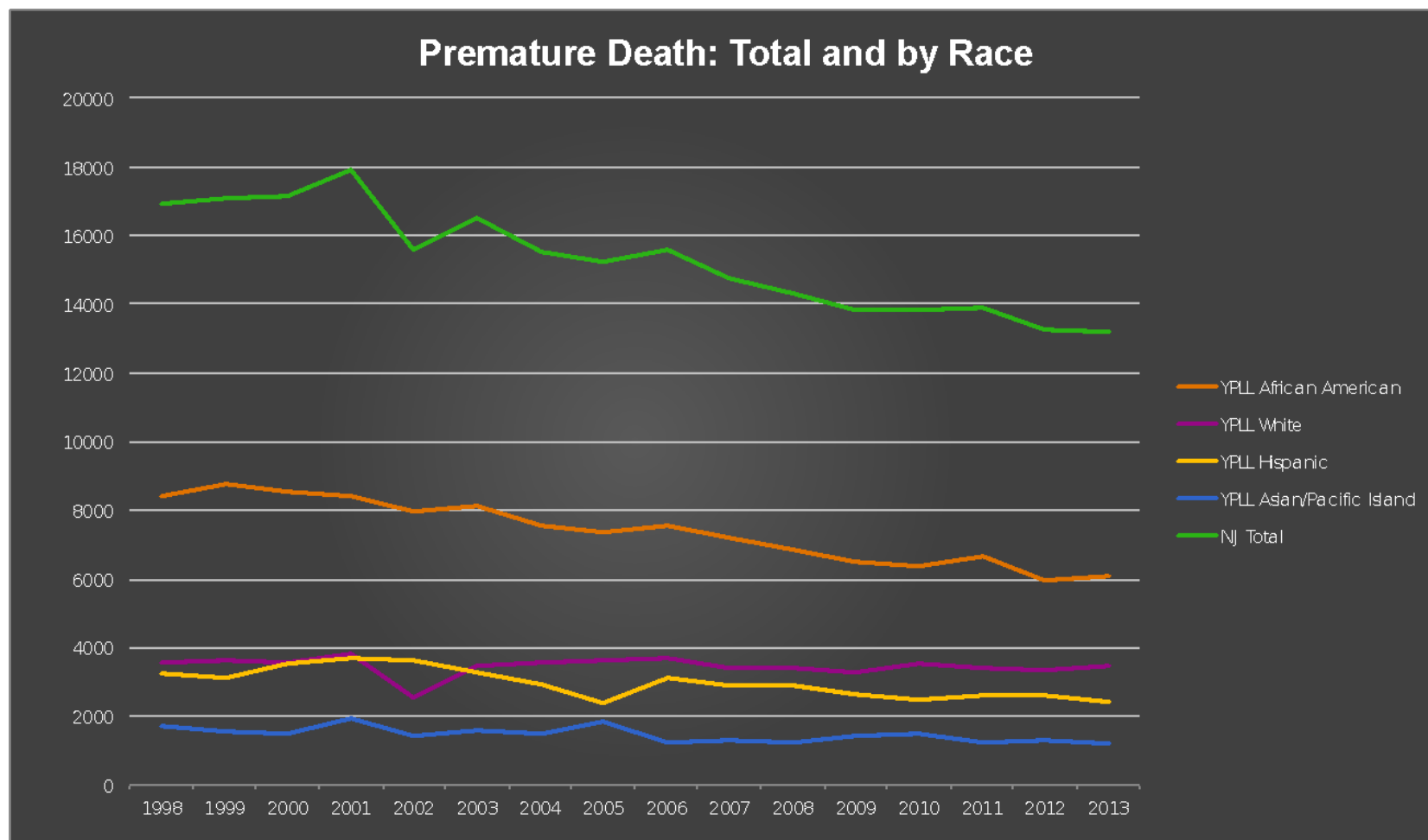
1. Outdoor air quality is healthy [UP]

- Indicator: # unhealthful days caused by ground level ozone, particulate matter and other major pollutants ↓

...

3. There is ***equitable distribution*** of environmental harms from air pollution so that they do not disproportionately burden any social group defined by class, race, location, age, or other factor. [DOWN]

HEALTH





EDUCATION & HUMAN DEVELOPMENT

1. Quality education [UP]
 - preschool, basic skills, HS graduation, higher ed.
2. Disparities in educational outcomes due to poverty and other disadvantages reduced [DOWN]
3. Lifelong learning opportunities [?]
4. Understand and apply *sustainability* concepts [?]



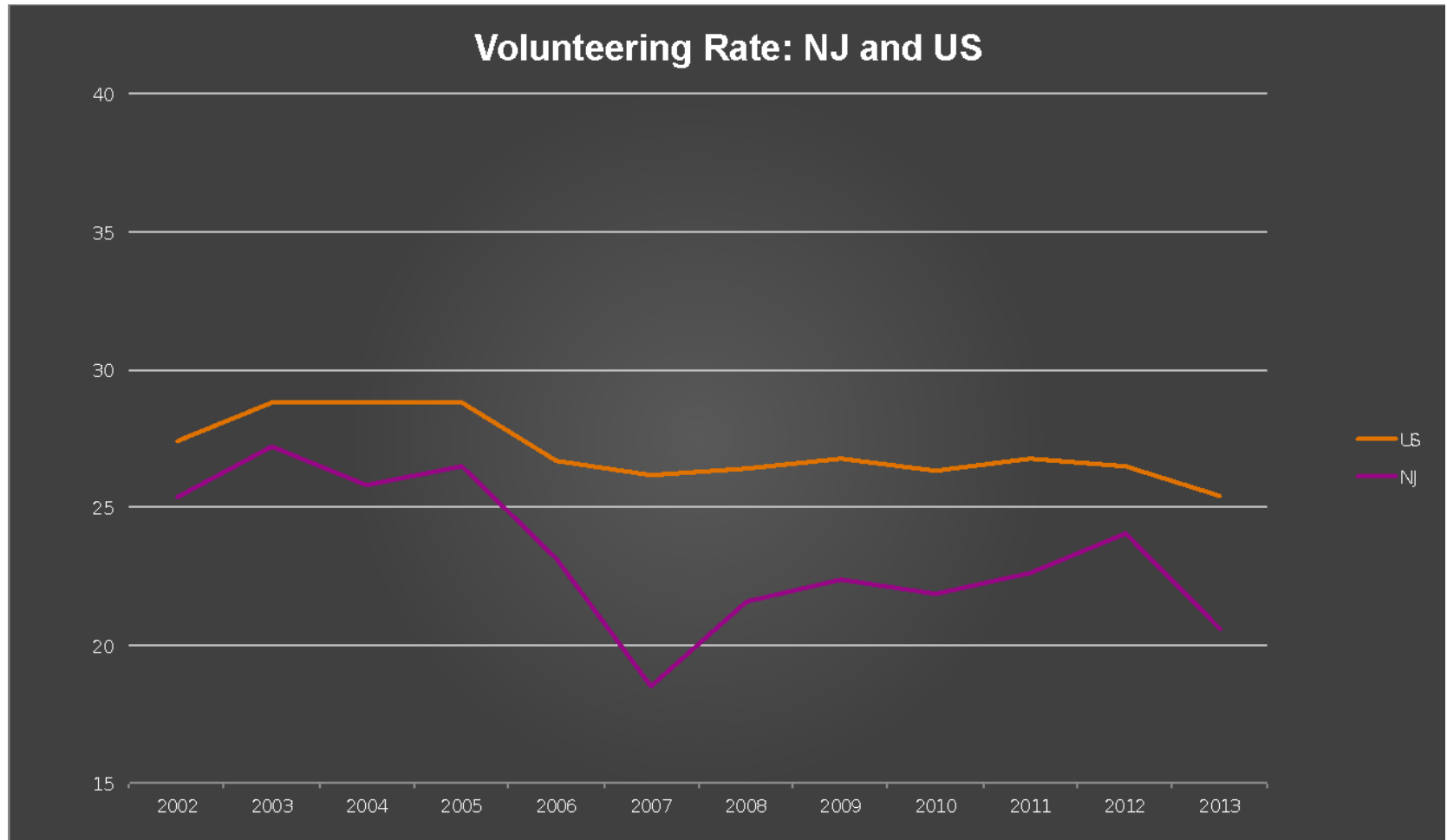
SOCIAL CAPITAL:

1. Safe and inclusive communities
2. People organizing to solve problems; organizational capacity
3. Communities with high level civic engagement, events , public spaces
4. Arts, cultural heritage, recreation – access to green spaces and parks

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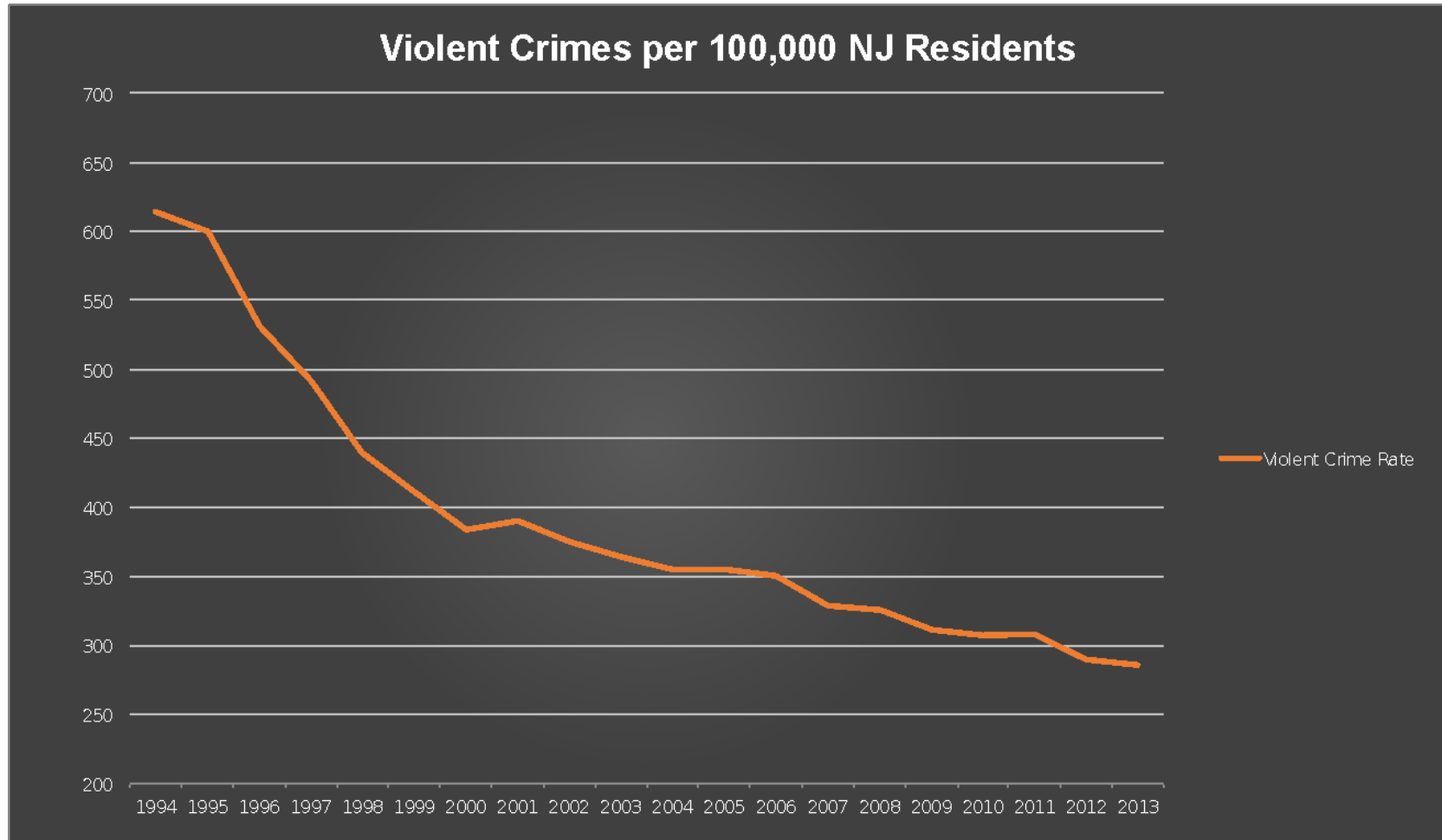


People organizing to solve problems





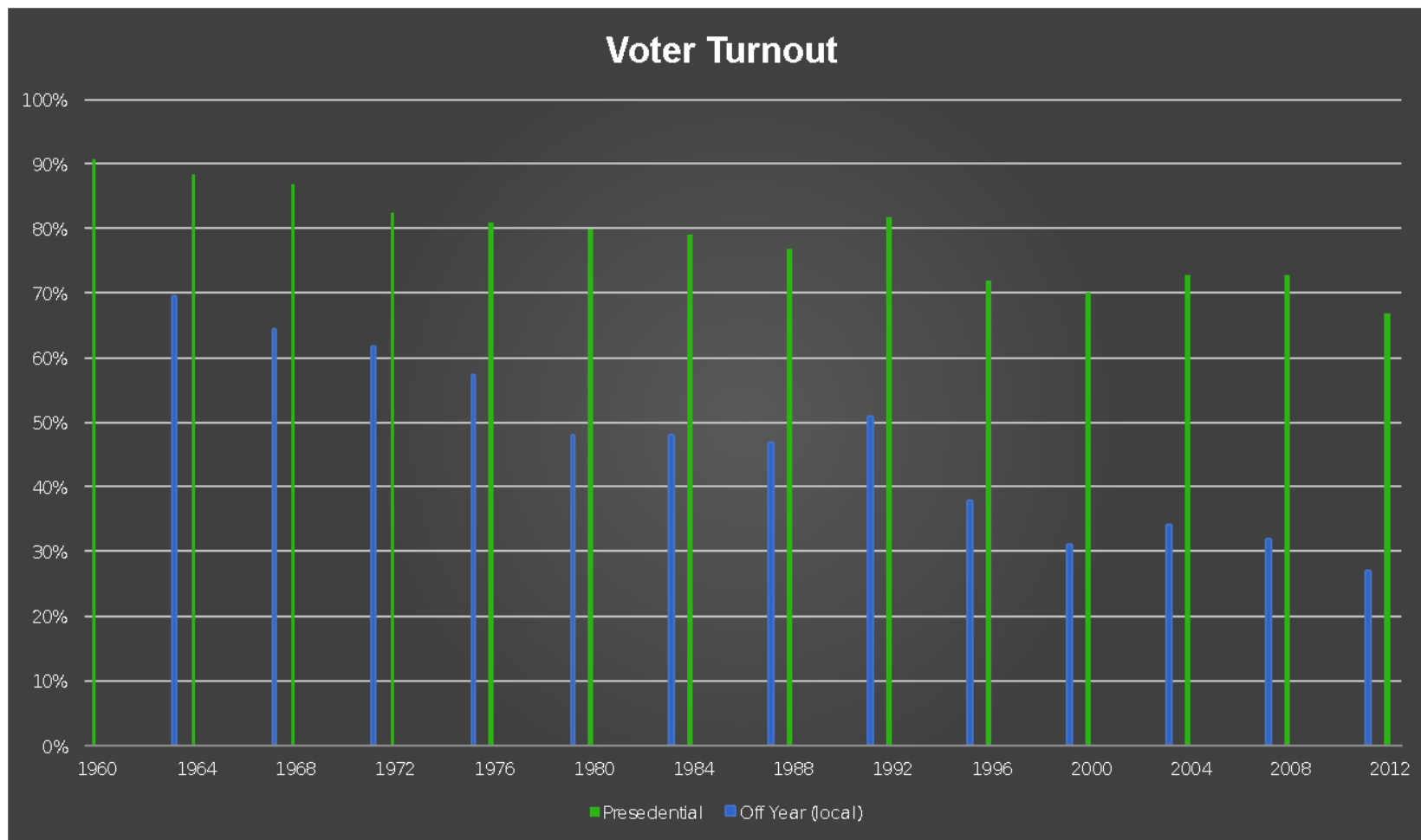
Safe and inclusive communities





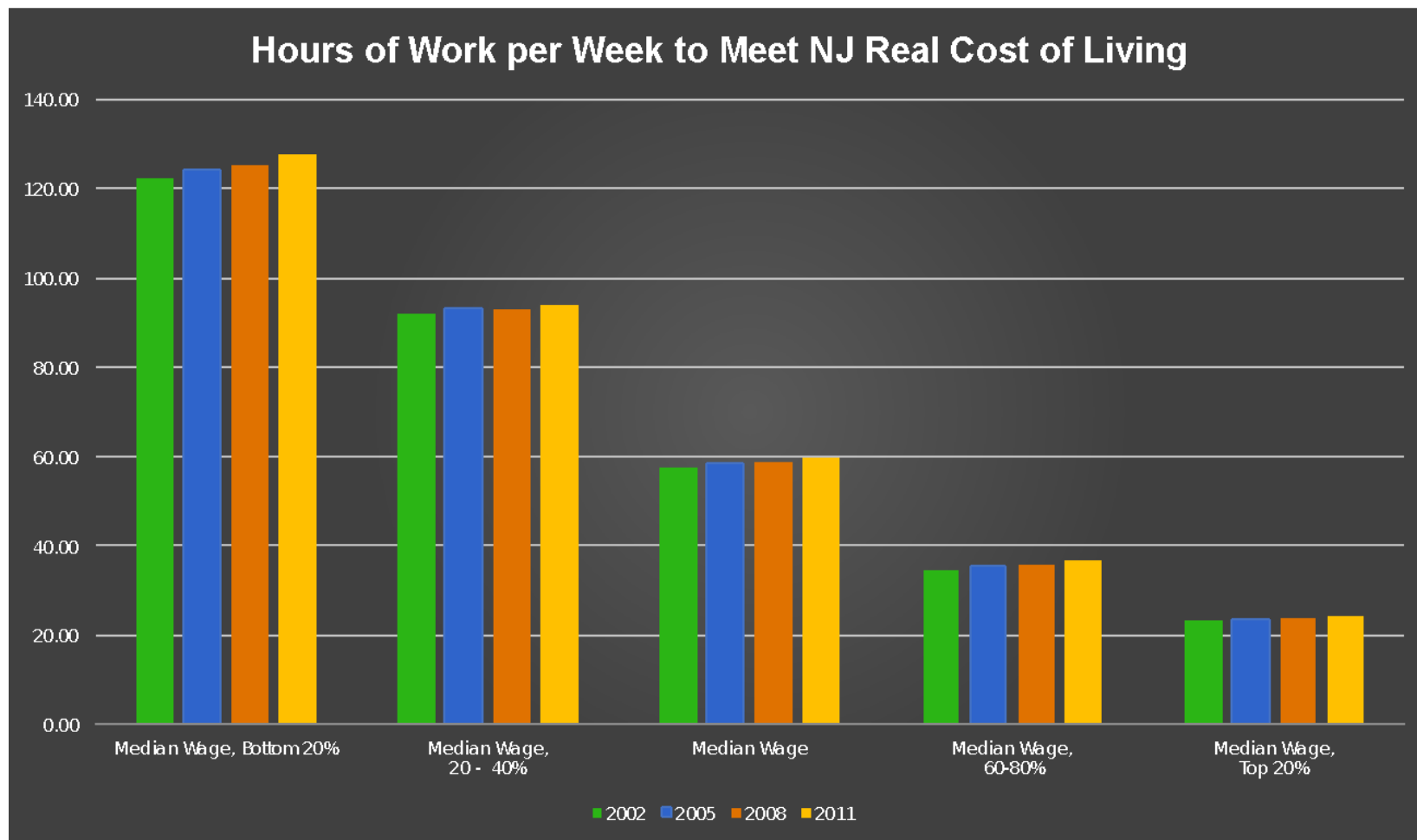
GOVERNANCE

1. People of NJ empowered to participate equally in processes of government; informed
2. Elected representatives are accountable and transparent
3. Government institutions just, efficient and effective



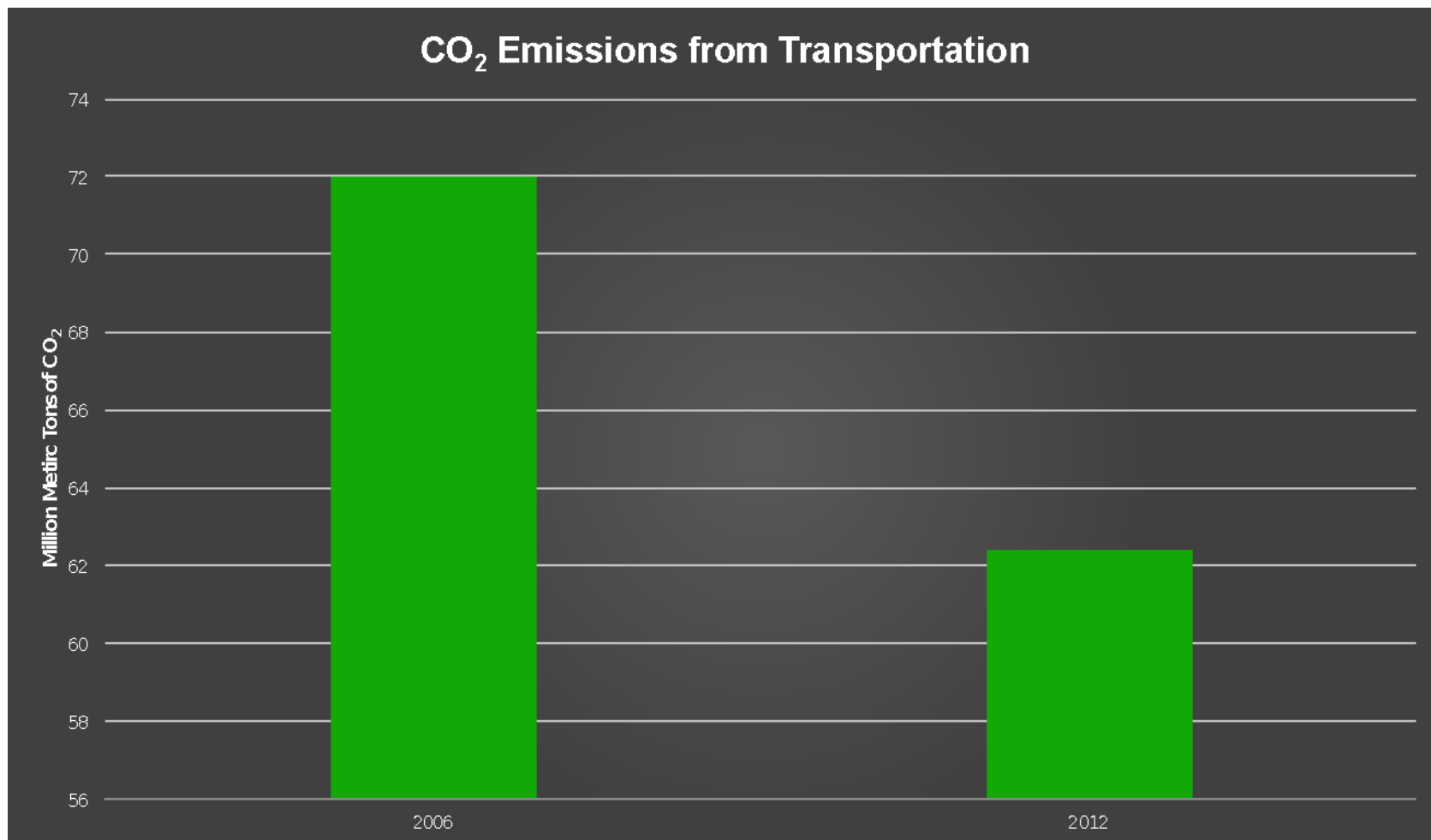


ECONOMY





TRANSPORTATION





HOUSING: resilience

Current exposure to coastal flooding & storm-surge:

>**335,000** residential parcels, assessed property value of **\$130 billion**

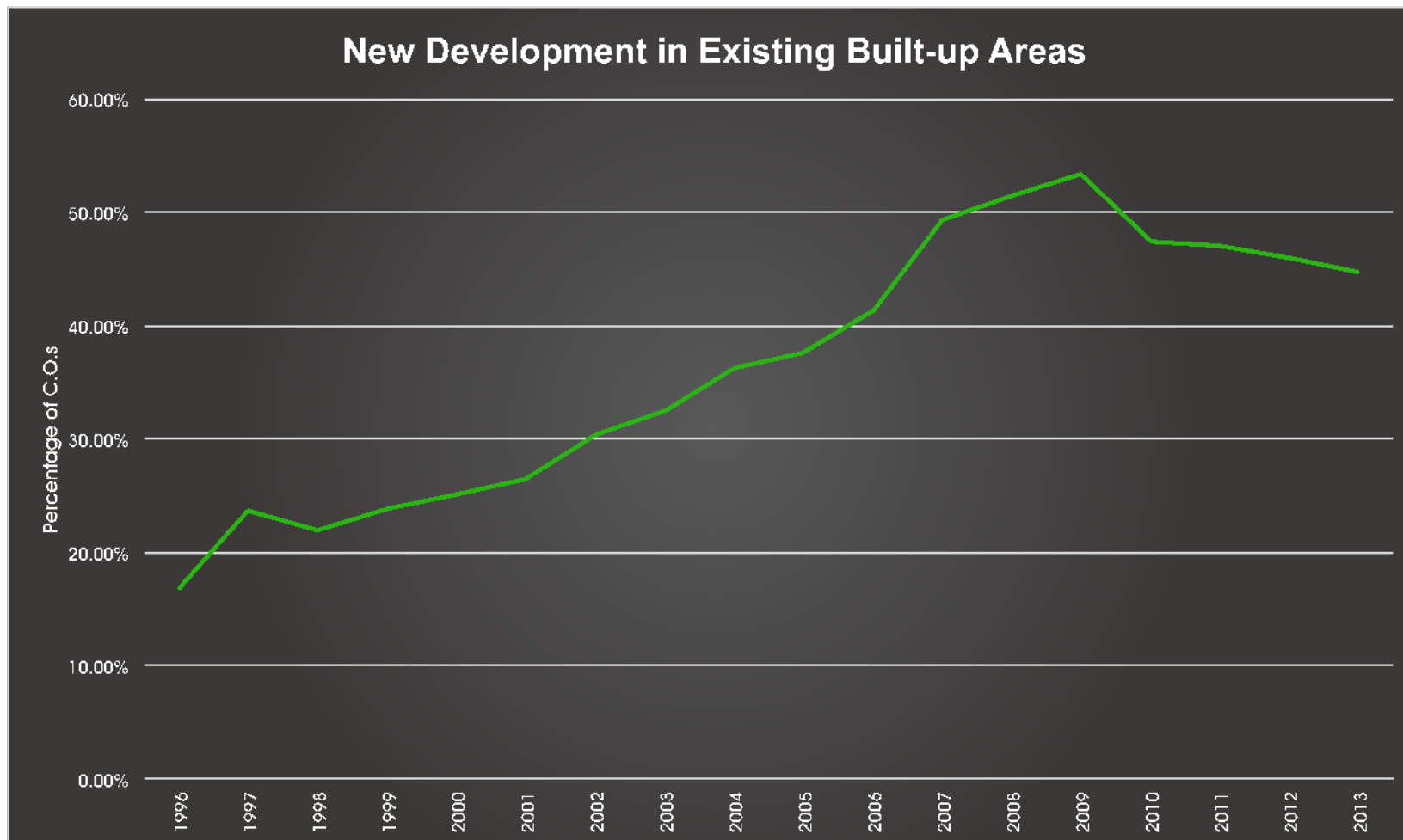
- **Housing Threatened by Sea Level Rise**

>**30,000** residential parcels, assessed property value of **\$9.4 billion**, predicted to become newly exposed to coastal flooding by the year 2050.

--- almost **10% increased risk** within only 35 years

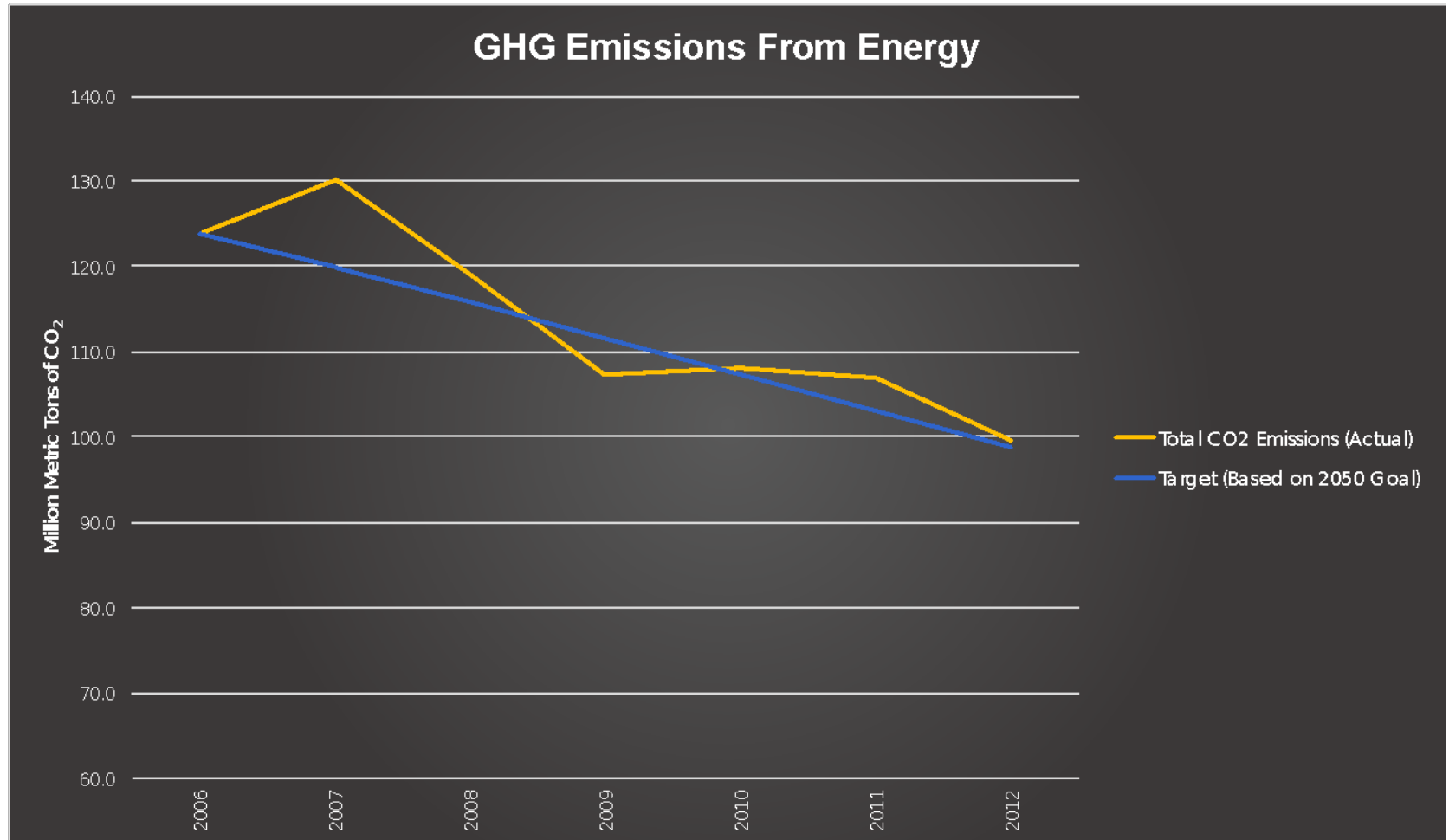


DEVELOPMENT PATTERNS



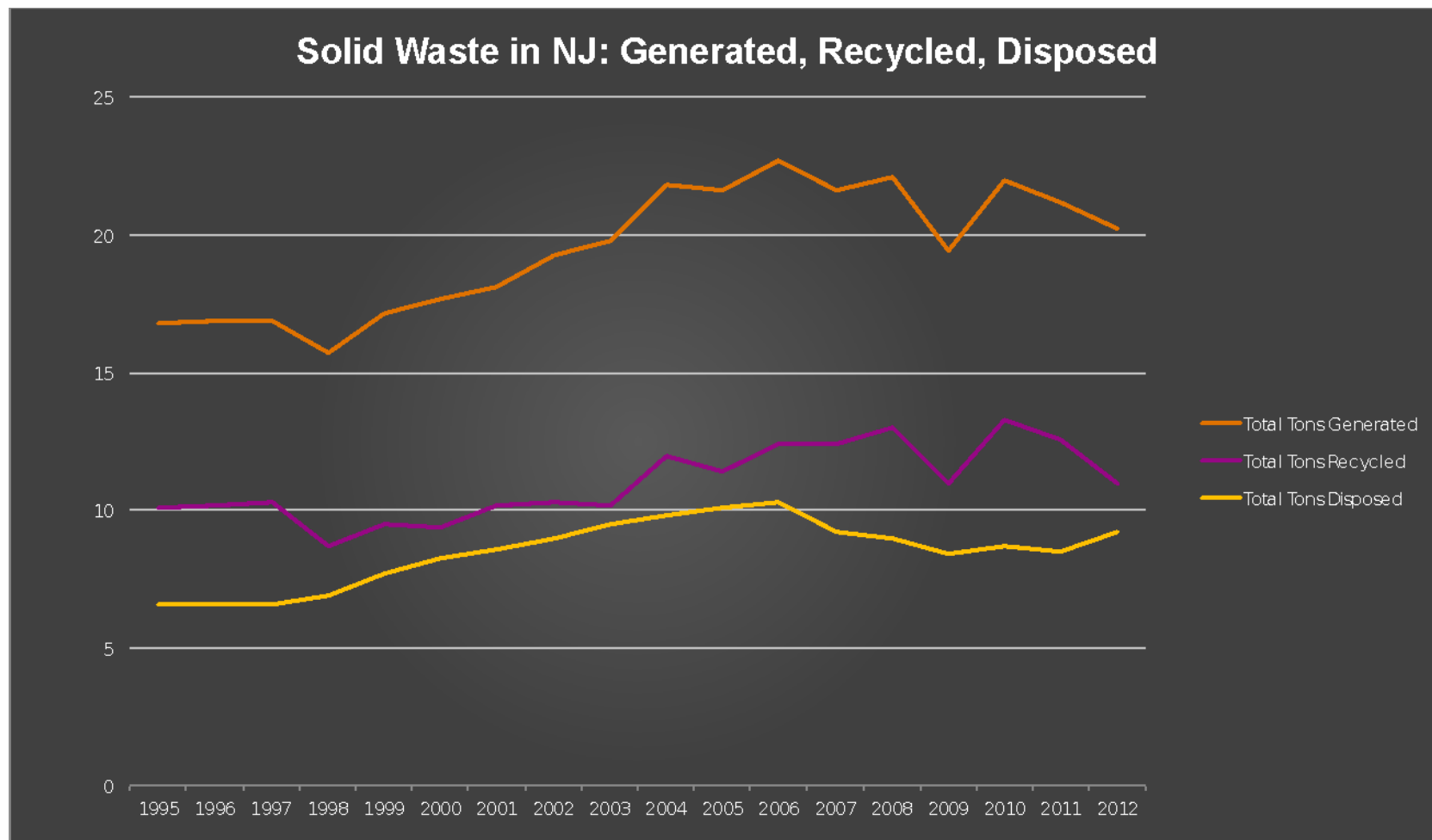


ENERGY





WASTE





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Sustainable Jersey Update & Impact

Donna Drewes, Co-Director

Randall Solomon, Co-Director

Sustainable Jersey &
Sustainability Institute at TCNJ



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Program Update & Impact

- ❖ Historic Growth in Municipal Program
- ❖ Moving the Dial – 7,000+ Documented Actions Implemented
- ❖ Collective Impact – All Major Actors Participating
- ❖ Moving Beyond Low Hanging Fruit – Innovating New Actions
- ❖ Program Benefits- Small Grants program
- ❖ Expanding Definition of Sustainability – Arts, Community, Economy, Equity, Quality of Life Over Long Term
- ❖ Spreading the Model to Other Places
- ❖ Using Momentum to Launch Strategic Initiatives



What is Sustainable Jersey?

Sustainable Jersey coordinates priorities, resources, and policy among public and private, state and local actors to help communities achieve their sustainability goals. Capped by prestigious certification, the program has three components.

Sustainable Jersey:

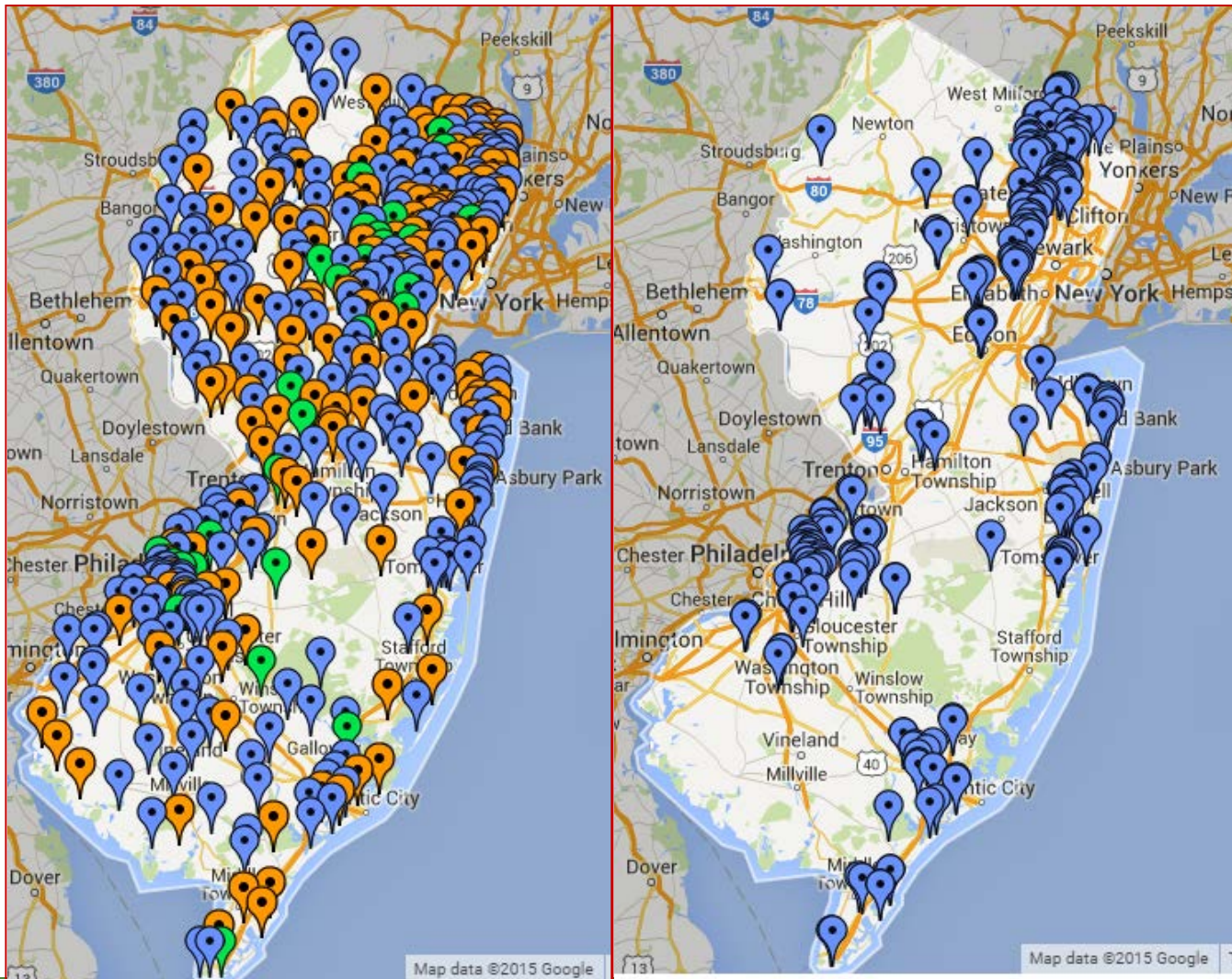
- Identifies **actions** to help municipalities and schools become more sustainable
- Provides **tools, resources, and guidance** to make progress
- Provides access to **grants and funding** for municipalities and schools

Sustainable Jersey

**423
Municipalities**

**76
School
Districts**

**208
Schools**





Sustainable Jersey Communities





Participating Communities



- Program launch: February 2009
- 424 (75%) NJ municipalities participating
- 86% of NJ's population lives in these communities
- In 2014- 177 municipalities certified:
 - 149 towns at bronze level
 - 28 towns at silver level
- June 2015- 67 municipalities applied for certification (23 new)






Statewide Impact by Year

	2009	2010	2011	2012	2013	2014	% Change 2013 vs. 2014
Number of NJ Municipalities	566	566	566	566	565	565	0%
Participating at Year End	240	315	359	380	399	419	5%
Total Bronze at Year End	34	70	99	98	117	152	30%
% Municipalites Bronze Certified	6%	12%	17%	17%	21%	27%	30%
Total Silver at Year End	0	4	9	12	22	28	27%
% Municipalites Silver Certified	0%	1%	2%	2%	4%	5%	27%
Total Certified at Year End	34	74	108	110	139	160	29%
% Municipalites Certified	6%	13%	19%	19%	25%	32%	29%

- Three quarters of NJ municipalities are registered
- Nearly a third of NJ Municipalities are certified!
- 2015 focus on registered towns that have not applied for certification



Municipal Certification by Year

	2009	2010	2011	2012	2013	2014	% Change 2013 vs. 2014
Applications	47	73	55	53	85	111	
Certified Communities	34	46	43	36	67	92	37%
% Certified	72%	63%	78%	68%	79%	83%	5%
First Time Applicants	47	73	55	53	39	44	
Certified First Time Applicants	34	46	43	36	24	39	63%
% First Time Applicants Certified	72%	63%	78%	68%	62%	89%	44%
Total Bronze at Year End	34	70	99	98	117	152	30%
Total Silver at Year End	0	4	9	12	22	28	
Total Certified	34	74	108	110	139	180	29%

2014 Program Strategies:

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- Extensive outreach to expiring towns
- Coaching and technical support



Actions

- In 2014 over 2,100 actions were submitted for review
(*Now over 7,000 actions implemented by communities and schools*)
- Approximately 59% were approved
 - Task forces re-evaluating why actions are not approved
- Task Forces Role
 - 30+ program Task Forces
 - Research, develop and update program actions
 - Provide training to assist green teams in completing actions
 - Assessment-Making progress? Focusing right things? Link program actions to State of the State Goals and Indicators

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Sustainable Jersey for Schools

- Program Launch: October 2014



- As of April 16, 2015
 - 81 School Districts Registered
 - 208 Individual Schools Registered
 - 70 Schools and Districts Applied for Certification



School Program Metrics

11	Issue based Task Forces
200+	Task force members
87	Actions developed for first program year
54%	Actions that include direct student involvement
23+	Statewide partners from public and private sectors
200+	Representatives from participating organizations involved in program development
70	Schools applied for inaugural certification cycle in March 2015

Certification Benefits

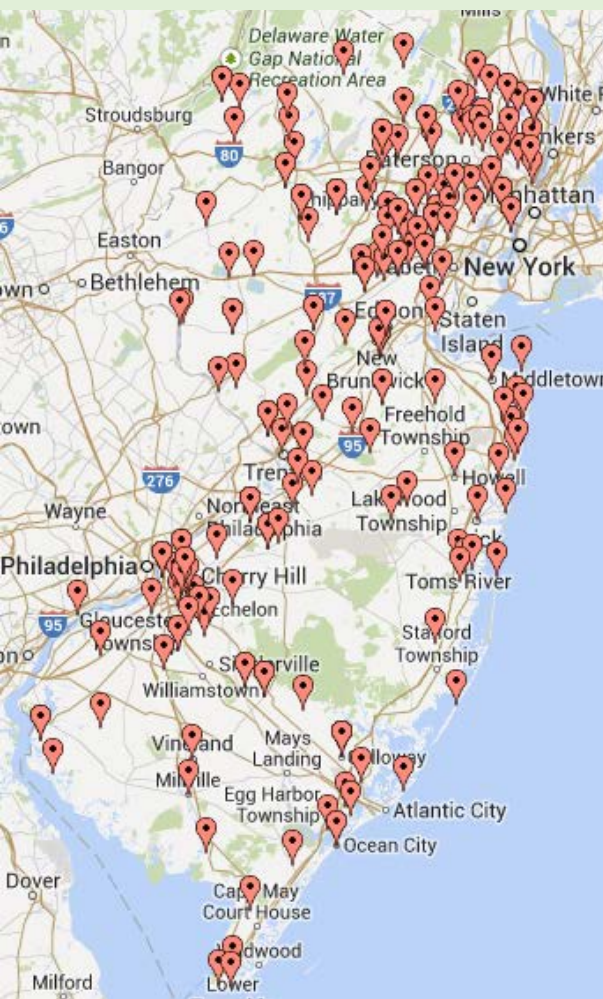


- Save money. Get money.
 - Implement actions that lead to cost savings
 - Improve efficiency, cut waste, stimulate local economy
 - Access to incentives and grants
- Support for local business
- Gain access to training, tools and expert guidance.
- Get recognized. Promote your community.
- Conserve valuable resources. Protect the environment.



Small Grants Program

Grant Award Locations



Since 2009 Sustainable Jersey has awarded 344+ grants ranging from \$1,000 capacity building grants to \$35,000 model project grants.

By Dec 2015, over **\$2,209,000** will have been awarded.

Funding Provided By:

- PSEG Foundation
- Walmart
- New Jersey Department of Health
- Gardinier Environmental Fund
- NJ Education Association





Small Grants



Funded Projects Include:

- Edible school gardens
- Water conservation education
- Model green ordinances
- Municipal and community carbon footprints
- School Food Composting
- Electric vehicle charging stations
- School food composting
- City-wide Buy Local initiative
- Wind Turbine Installation



Strategic Initiatives

❖ Building Capacity in Communities

- Regional Sustainable Jersey Hubs
- Community Information and Citizen Engagement

❖ Digging Deeper: Going Beyond Low Hanging Fruit in Key Areas

- Resiliency Program
- Energy Program
- Green Infrastructure
- New Action Focus Areas
 - Citizen Engagement and Gov2.0
 - Land Use Self Assessment
 - Health Impacts and Health in All Policies
 - Community Wildfire Management
 - Creative Communities- Utilizing Creative Assets

❖ Building Capacity in the Movement: New Jersey and Nationally

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Regional Hubs

❖ Purpose of regional hubs

- Increase in **collaborations** among Green Teams within the region & across the state
- Robust **network of leaders** learning successful models from each other

❖ Resource for members

- **Quarterly events** bring expert speakers, training & updates on Sustainable Jersey actions, and an opportunity to socialize
- Stay connected via **online communications platform** that fosters sharing & collaboration
- Sustainable Jersey provides **technical assistance** & limited **administrative support**



Current Hubs



- Atlantic-Cape May
- Camden-Burlington-Gloucester
- Essex
- Mercer
- Monmouth
- Somerset
- **Middlesex & Hunterdon on the horizon*



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Counties as Hub Partners



❖ Atlantic County Utilities Authority & Cape May County Municipal Utilities Authority

- Staff are on the Steering Committee; provide meeting space

❖ Camden Municipal Utilities Authority

- Director of Sustainability participates on Steering Committee; provides resources for events

❖ Mercer County Office of Economic Development and Sustainability

- Assists in coordinating steering committee meetings & hub events

❖ Monmouth County Division of Planning

- Assists in coordinating hub events; provides meeting space

❖ Somerset County Planning Division

- Coordinate hub events; created an inventory of County and nonprofit initiatives & how they can help





Regional Hubs – Successes

Atlantic – Cape May Hub

- Margate, Ventnor & Longport have begun meeting regularly to work on a plastic bag education program together.
- Steering committee members have successfully coached Estell Manor & Hamilton Township towards participating in our program. Several others continue to be mentored.
- Hammonton is starting their first community garden due to mentoring from Woodbury.

Essex County Hub

- Maplewood, Millburn, South Orange and Irvington launched the “Essex Community Energy” awareness campaign on the benefits of home energy audits and several special programs aimed at using energy more efficiently in homes.

Mercer County Sustainability Coalition

- 8 Mercer towns organized *Mercer Living Local Expo*, a county-wide green fair, attracted over 1,000 people

Tri-County Sustainability Alliance

- 9 Burlington, Camden and Gloucester towns are working on a film series together, to be repeated in each county with expert speakers on water management.
- Haddon Twp was able to expand its social media and communications strategy training to include several other towns due to making connections through this hub.

Somerset County Green Leadership Hub

- County Planning Dept. developed 3 directories of nonprofits, businesses and County departments that can help towns achieve certification in our program.



Resiliency Program

The program focus

"provide municipalities with direct access to a broad spectrum of tools, resources to build stronger, more resilient communities."

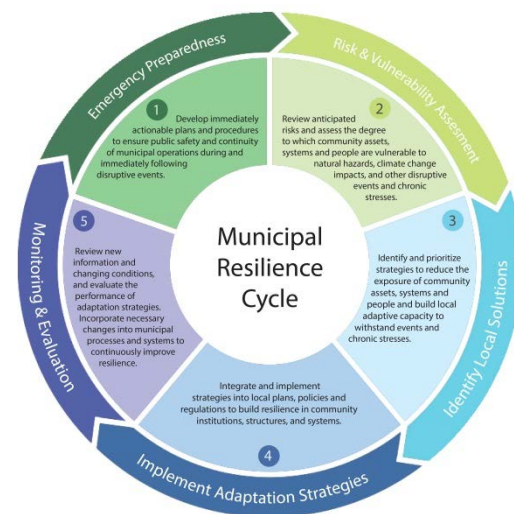


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Resiliency Program

HIGHLIGHTS OF 2014

- Prepared **Municipal Needs Summary Report** (received responses from 85 municipalities; contacted 288 municipalities)
- **Met with local officials** from 40+ municipalities providing varying types of assistance
- **Connected 15+ communities with resources** of partner organizations
- Provided technical input on **new Extreme Temperature Action**.
- Created **Interactive map of resiliency activity**
- Developed the **Municipal Resilience Cycle**



Resiliency Program

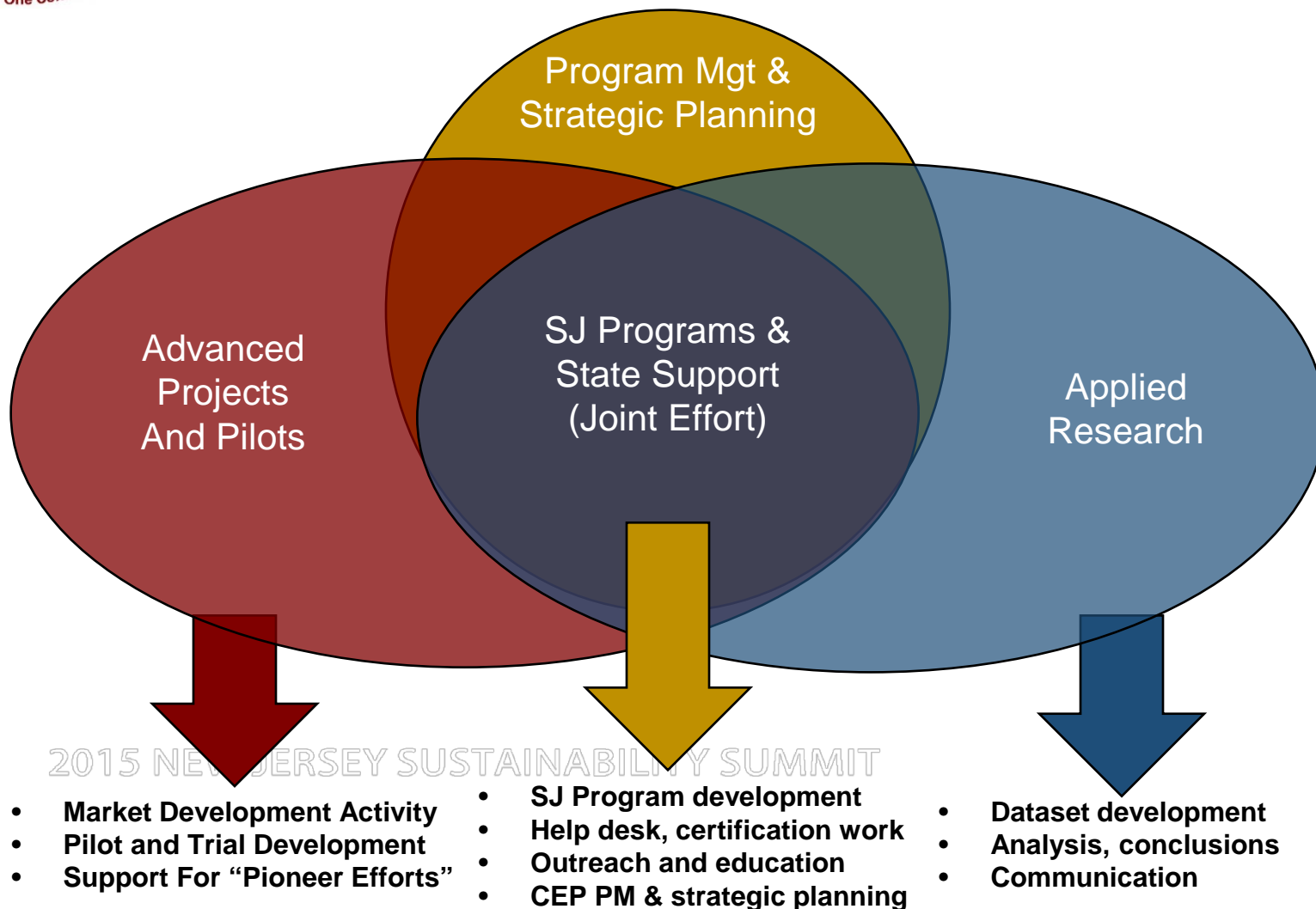
OUR TOOLBOX IS ALWAYS GROWING

- “Getting to Resilience”, an inventory of local plans/policies for preparedness
- Online grants portal
- “Hot-List” of grants and tools
- SJ Flood-Risk Action & mapping
- Extreme Temperature Action
- Vulnerability Assessment template (2015)
- Model plans, ordinances and best practices (2015)
- Nature-based mitigation strategies (2016)





Sustainable Energy: Program





Sustainable Energy: Actions

New Actions In 3Q14.

New Actions/Update 1Q15.

New actions 3Q15.

Energy Impact
Of Municipal
Operations

Climate, Planning & Efficiency

- Municipal Carbon Footprint
- Energy Tracking & Management
- Complete Energy Audit
- Energy Transition Plan
- Implement EE Measures
- Hi Performance Buildings

Renewable Energy & Adv- Infra

- On-Site Solar Energy
- On-Site Geothermal
- On-Site Wind Energy
- Purchase Renewable Energy

Alternative Vehicles

- Fleet Actions
- Procurement Actions

Municipal Impact
On Community
Energy Use

- Community Carbon Footprint (*)
- Climate Action Plan
- HPwES Program (*)
- HPwES Outreach (*)
- Direct Install Program (*)
- Direct Install Outreach (*)

- Wind Ordinance
- Make Your Town Solar Friendly
- Community Buying Program: Solar
- Renewable GEA Program

- Make Your Town EV Friendly
- Public EV Chargers

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(*) Actions proposed for particular marketing focus in FY16.



Next Generation Energy Infrastructure

- ❖ Solarize and Community Solar Programs
- ❖ Alternative Financing – PACE, On Bill
- ❖ Supportive Zoning & Permitting for Renewable Energy
- ❖ Renewable and Resilient Audit Program
- ❖ Resiliency Applications – Solar with Storage, Combined Heat and Power
- ❖ Next Steps: Micro-Grids, Municipal Renewable Utilities
- ❖ Support for “Pioneer Towns”



Green Infrastructure

❖ Best Practices Identification

- Green Infrastructure – NJ still behind nationally, SJ funded pilots
- Water infrastructure, asset mapping, living shorelines, resiliency planning for infrastructure, wetlands restoration

❖ Quick Start- Model Stormwater Ordinance

- Completed with NRDC, input from NJDEP, Pinelands, Highlands

❖ Link and Leverage

- Public/NGO/Private Partnerships
 - Urban Waters- New Jersey Future and other strategic partners
 - Rutgers Water Resources
 - Natural Resources Defense Council
 - Clean Ocean Action-Blue Waters program

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New Actions: Prosperity, Planet, People

PROSPERITY	ENERGY EFFICIENCY		POINTS
	Energy Audits for Municipal Facilities*		20-50
	High Efficiency Municipal Buildings		10-20
	FOOD		
	Farmland Preservation		10 each
	Food Production		10 each
	Planning for Local Food Production		10 each
	Support Local Food		10 each
	LOCAL ECONOMIES		
	Buy Local Programs		10 each
PEOPLE	Green Business Recognition Program		10
	Green Jobs/Economic Development		10
	OPERATIONS & MAINTENANCE		
	Green Fleets*		
	Adopt Behavior		
	Green Purchasing		
	Grounds and Maintenance		
	ARTS/CULTURE		
	Historic Preservation		
	Strengthening Sense of Community		
PLANET	COMMUNITY PARTICIPATION		
	Create Green Teams		
	Community Education		
	Energy Outreach		
	Education for Sustainability		
	School-Based Education		
	GREEN DESIGN		POINTS
	Green Building Policy/Resolution		5
	Green Building Training		5
	Green Design Commercial and Residential Buildings		5-20
	Green Design Municipal Buildings		10-20
PEOPLE	GREENHOUSE GAS		
	Municipal Carbon Footprint*		10
	Community Carbon Footprint		10
	Climate Action Plan		10
	Wind Ordinance		10
	INNOVATIVE DEMONSTRATION PROJECTS		
	Geothermal		10
	Green Roofs		10
	Raingardens		10
	Solar		10
PLANET	Wind		10
	Other		10
	LAND USE & TRANSPORTATION		
	Sustainable Land Use Pledge*		10
	Complete Streets Program		20
	Municipal Planning & Zoning Self-Assessment		10
	Sustainability Master Plan Revision		20
	NATURAL RESOURCES		
	Natural Resource Inventory*		20
	Water Conservation Ordinance*		20
PEOPLE	Conservation Easements		10-15
	Environmental Commission		10

- ❖ Citizen Engagement & Gov 2.0 Task Force
 - Public Engagement
 - Open Data and Digital Information
 - Emergency Communications
- ❖ Land Use Self Assessment
- ❖ Health Impacts and Health in all Policies
- ❖ Climate Adaptation- Fire Adapted Communities, Extreme Temperature
- ❖ Creative Communities- Using your Creative Assets



National Network of State Sustainability Programs

Study goal:

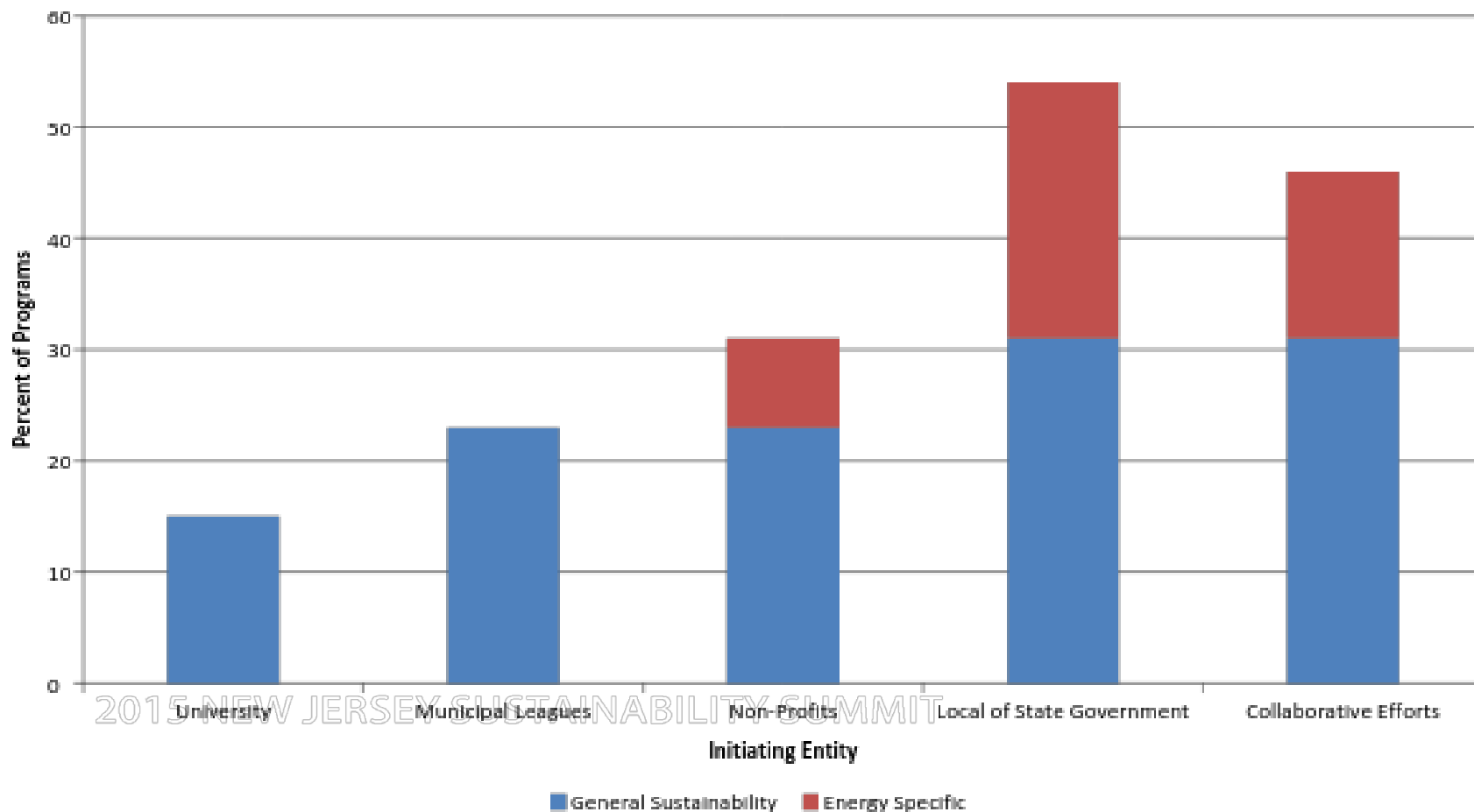
- Analyze existing state/local sustainability programs to
- identify best practices, challenges, needs, &...
- opportunities for collaboration, including the potential benefits of a national network

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Initial Findings

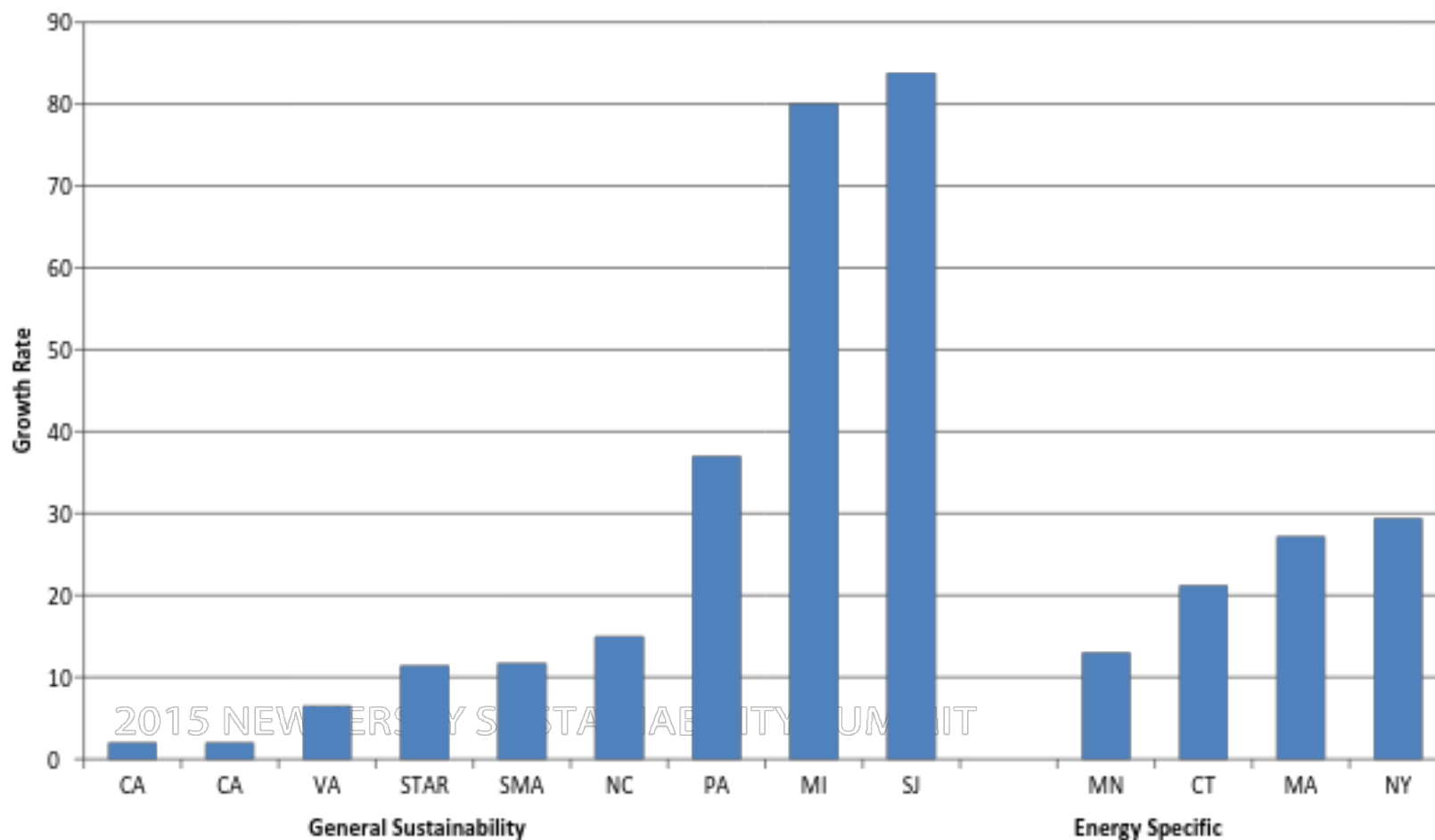
What Entities Initiated Programs





Growth in Participation

Growth Rate by Program Type





Celebrate Accomplishments

- Thank partners, state agencies, nonprofits, businesses, community and schools for your contributions and support
- Thank Sustainable Jersey Board of Directors for their leadership in guiding the program
- Thank Sponsors for providing the financial support needed to keep this program growing

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Sustainable Jersey Supporters

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Small Grants Program Underwriter



Leaders for Sustainability



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Contributors to Sustainability

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Participant in Sustainability





Schools Supporters

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Sustainable Jersey for Schools Small Grants Program Underwriters



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Supporting Sponsors





Next Steps: Feedback

- Follow-up survey for thoughts on event and Sustainable State of the State
- June 17: Webinar for feedback and dialogue on Sustainable State of the State
- Email feedback anytime to: mcdermom@tcnj.edu

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Afternoon Sessions

- Sustainable State of the State: Dialogue about the goals and indicators
- Municipal Program: Feedback to Sustainable Jersey
- Schools Program: Information and Feedback
- Topical Sessions: 3 part format
 - Primer on the issue
 - Overview of Sustainable Jersey actions (old and new) relevant to issue
 - Discussion: What are the gaps?

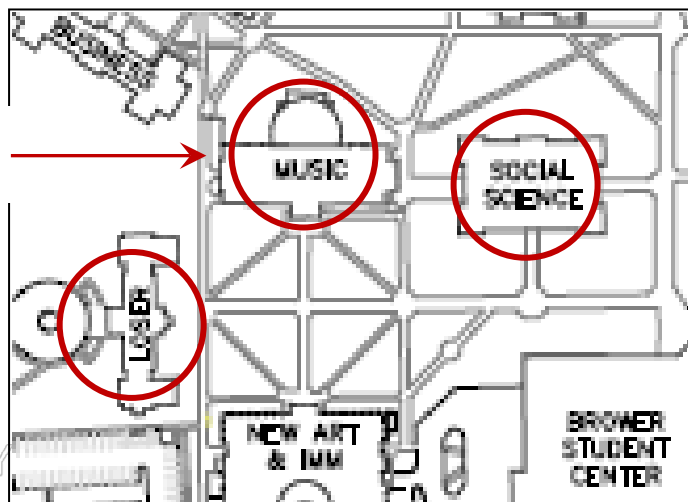
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Concurrent Session Locations

- Music Building Basement
- Loser Hall 1st Floor
- Social Science Building 1st and 2nd Floor

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summit

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