SOCIOECONOMICS OF SEA LEVEL RISE



INTRODUCTION

SOCIOECONOMICS OF SLR

- Continuation of SLR Research Efforts
- Objective
 - Learn WHO is located in these areas
 - Generate data & info to guide
- Focus
 - Long-term SLR planning, data reflects daily tidal activity
 - Unique focus on who, and how many people and businesses are within SLR Inundation zones 1, 3, 5, 7 FT.
 - Title VI/Environmental Justice populations
 - CRMC, OHCD-DR, DEM, RI SEA GRANT/CRC



PURPOSE

RECOGNIZE SLR AS THREAT

PROVIDE

- Information that may have been inaccessible locally (time, resources, etc.)
- Resources to local officials for capital improvement planning, transportation planning, and overall long-range planning in communities
- Information to target potential funds/resources via grants in the future
- Data/content for newest chapters required for municipal comprehensive plans



METHODOLOGY

RESIDENTIAL UNITS

- GIS analysis: Selected e911 residential (and commercial) points (SF/MF) touched by SLR inundation (blue)
- Census geography data touched by SLR zone to (pink) determine:
 - Occupancy rate

POPULATION ESTIMATE

 Multiplied Occupied HH Units by Avg. HH Unit Size

SOCIOECONOMIC VARIABLE ESTIMATES

 Applied variable percentages in block/BG selection to population estimates

LIMITATIONS

- Data is approximate, best available, MOE
- Best attempt to identify WHO using most reliable data





BARRINGTON



CHARLESTOWN



TOTAL E-911 RESIDENTIAL UNITS



TABLE 2: TOTAL RESIDENTIAL UNITS - 21 COASTAL

SLR SCENARIO	R1: SINGLE FAMILY	R2: MULTIFAMILY	R3: MOBILE HOME	TOTAL	PERCENT CHANGE
IFT	9	1	1	n	2927.27% (1-3FT)
3FT	300	18	15	333	467.87%
5FT	1646	203	42	1891	(3-5FT)
7FT	3642	430	47	4119	117.82% (5-7FT)

INCREASE IN UNITS PER INUNDATION SCENARIO. PERCENT CHANGE DECREASES IN POSITIVE VALUE AS SLR INCREASES.

GREATEST/FEWEST E-911 RESIDENTIAL UNITS

TABLE 3: TOTAL E-911 HOUSING UNITS PER COMMUNITY

COMMUNITY	1FT	3FT	5FT	7FT
Barrington	0	19	85	263
Block Island - New Shoreham	0	3	10	19
Bristol	0	10	59	119
Charlestown	0	39	185	396
Cranston	0	1	8	22
East Greenwich	0	0	0	1
East Providence	0	0	0	5
Jamestown	0	0	8	28
Little Compton	0	0	5	12
Middletown	0	0	0	3
Narragansett	0	56	153	421
Newport	0	14	225	438
North Kingstown	1	7	84	235
Pawtucket	0	0	0	0
Portsmouth	0	13	103	216
Providence	0	0	0	2
South Kingstown	7	62	229	429
Tiverton	2	25	61	89
Warren	0	8	181	368
Warwick	0	15	179	497
Westerly	1	61	316	556



PAWTUCKET— 0 RESIDENTIAL UNITS IN ANY SCENARIO E. GREENWICH — 1 RESIDENTIAL UNIT IN 1 SCENARIO

S. KINGSTOWN — MOST RESIDENTIAL UNITS IN 1FT & 3FT SCENARIO WESTERLY— MOST RESIDENTIAL UNITS IN 5FT & 7FT SCENARIO

WE HAVE COASTAL VARIABLE DATA, BUT WHAT DOES IT MEAN CONTEXTUALLY?

3 FT. SLR SCENARIO



CURRENT STATE VALUES



POPULATION CHARACTERISTICS

RI (21) COASTAL

COMPARATIVE DATA EXERCISE



3 FT. SLR SCENARIO – RI (21) COASTAL	CURRENT RI STATEWIDE DATA – ALL MUNICIPALITIES	
RACE & HISPAI		
96% White	81% White	
2% Hispanic	12% Hispanic	
5% Minority	24% Minority	

IN THE 3 FT. SLR SCENARIO: - GREATER % OF WHITES - 10% FEWER HISPANICS - 19% FEWER MINORITIES

COMPARATIVE DATA EXERCISE



3 FT. SLR SCENARIO – RI (21) COASTAL	CURRENT RI STATEWIDE DATA – ALL MUNICIPALITIES
A	GE
34% Age 45-64	28% Age 45-64
10% Age ≥75	7% Age ≥75
EDUCATIONA	L ATTAINMENT
34% Associate's/Bachelor's	28% Associate's/Bachelor's
EMPLC	YMENT
7% Unemployed	9% Unemployed

IN THE 3 FT. SLR SCENARIO

- GREATER % OF 45-64 COHORT
- GREATER % OF ASSOCIATE'S & BACHELOR'S HOLDERS
- FEWER UNEMPLOYED

POPULATION CHARACTERISTICS

RI (21) COASTAL



3 FT. SLR SCENARIO – RI (21) COASTAL	CURRENT RI STATEWIDE DATA – ALL MUNICIPALITIES
HOUSEHOI	LD INCOME
Most housing units (24%) earn \$125,000	Most housing units (23%) earn less than
and greater annually	\$24,999 annually
Population: 9% Below Poverty Level	Population: 14% Below Poverty Level

IN THE 3 FT. SLR SCENARIO: HIGHEST INCOME BRACKET=MAJORITY FEWER INDIVIDUALS LIVING BELOW POVERTY LEVEL CURRENT STATE DATA: LOWEST INCOME BRACKET=MAJORITY

CULMINATING FINDS

RI (21) COASTAL PREDOMINANT CHARACTERISTICS ACROSS ALL COASTAL SLR SCENARIOS:

- WHITE
- AGE 45-64
- HOLD ASSOCIATE'S/BACHELOR'S DEGREE
- EMPLOYED
- ANNUAL HOUSEHOLD INCOME OF \geq \$75,000 OR MORE
- RESIDE IN OWNER-OCCUPIED UNITS



DELIVERABLES

ESTIMATES



PROJECT OVERVIEW

Rhodo Island's municipalities are in the proliminary stages of integrating planning for sea level rise and climate change into their comprehensive planning process. To support these planning offorts of RI cities and towns, RISPP developed the Socioeconomics of Sea Level Rise project. The project aims to assist coastal municipalities in their long-term planning by attempting to identify population characteristics of the people located within sea level rise (SLR) inundation zonos 1, 3, 5 and 7 FT. The data presented in this factshoot places a focus on Environmental Justice and Title VI populations.

METHODOLOGY

The RISPP utilized 2010 Decennial Consus data and the latest American Community Survey (ACS) astimatas to conduct an axtensivo data analysis. Staff also utilized CRMC's STORMTOOLS GIS shapofiles to identify the SLR inundation zones. In addition, RI Goographic Information Systems (RIGIS) a-911 data was utilized to identify single family, multi-family and mobile home residential points located within each SLR inundation zone. For more information on the methodology, please reference the full report on our website.



2014 ACS Median Household Income

SLR INUNDATION ZONES

The maps above illustrate each of the SLR inundation zones. Single family units are represented by orange points in the SLR inundation zone maps, while multi-family units are represented by green points. Purple points signify mobile home units. Purple points signify mobile home units.



21 COASTAL OCCUPIED RESIDENTIAL UNITS & POPULATION

SLR Investorian	Residential Units	Occupied Unit celculation	Population colculation
TONE		(Total Units (s) Occ. Housing Unit Rate in SLR speed	(Occupied Units
			(x) 21 Coadda Commenty Ava.
			HH Size)
1FT.	9 SF, 1 MF, 1 Mobile	8 (70% occ. HU)	20
3FT.	300 SF, 18 MF, 15 Mobile	246 (70% acc. HU)	481
5FT.	1646 SF, 203 MF, 42 Mobile	1487 (71% occ. HU)	2975
2FT.	3642 SF, 430 MF, 47 Mobile	3321 (73% acc. HU)	6945
	SLR Invaduation zone 1FT. 3FT. 5FT. 2FT.	SLR (numdation zone Residential Unity 9 1FT. 9 SF, 1 MF, 1 Mobile 3FT. 15 Mobile 3FF. 164.6 M; 203 MF, 42 Mobile SFT. 342 SF, 430 MF, 47 YFT. Mobile	SLR (Investigation some Residential Unity (Seal Unity) Operation (Seal Unity) Operation (Seal Unity) Operation (Sea

of the residential units Residential units were identified in GIS using the e-911 shapefile. A combination of single family, multi-family and mobile home residential units were identified throughout the various SLR inundation zonos, the majority of the units are single family. There is a significant change between the estimated population located in the 3 and 5 FT. SLR inundation zone, with an additional 2494 people estimated in the 5 FT. zone. The 7FT. inundation zone has the greatest population and number of residential unite, with 6945 people artimated within the zone, and 3321 occupied residential unite.

> Watch Hill Historic District, Westerly, El September 2015 King Tide, Photo Courtery of Hycourt.org, submitted by David Prescatt



RI (21) COASTAL



DELIVERABLES

RI (21) COASTAL

* 7	eP11 Heseine Unit Total	The second	5001		583		SUR 5		9.87
	Single Family (R1) Units		9		300		1646		36.42
	Auhtfanily (R2) Units with Calculation (*2)		1*2=2		10*2=36	2	03*2=406		30*2-060
	Mobile Home (R3) Units		1		15		42		47
	Total Units: Single Family (R1), Multifemily (R2), Mobile Home (R3)		12		351		2094		4549
98	Note Multifamily unit totals are multiplied by 2 based on the presumption that the	ere are a ninini	an of two units	s within each a	iuttionity e9	1 point		-	
	efill Hausing Unit Calculation	581	5915	512 5	5235	58.5	5255	987	11275
	Total Units: Single Family (R1), Multifemily (R2), Mobile Home (R3)	12	100%	351	100%	2094	100%	4549	100%
	Estimated Occupied Units - Court and Percentage	8	70%	246	70%	1.487	71%	3321	73%
	Population Calculation		SUR 1		5.8.3		SUR 5		5.87
	Estimated Occupied Units		100%	246	100%	1467	100%	3321	100%
	Population Estimate= Occupied Units (x) RI 21 Coastal Avg. Household Size		250-20	245	1.901411	1417*	2.00-2975	3321-	0945
¥1	Case/Hisparie Divicity	2.4	241 %	34.8 3	1000	2013	22.5 %	24.67	3087 1
E 1	Vitra	20	90%	461	0.4%	29/5	2,00	4535	94%
₹8	Black or African American		0%	5	1%	47	2%	111	2%
81	American Indian and Alaska Notive	0	0%	2	1%	15	1%	31	0.4%
ŏī	Adion	0.1	1%	5	1%	34	1%	60	1%
3 -	Some Other Roce	0	0%	2	0.4%	25	1%	52	1%
X	Hapanic	0.3	1%	٥	2%	61	3%	189	3%
- H	Non-Hispanic, White Population	19	97%	455	95%	27.54	93%	6431	93%
	Minority Population (Total Population Institut Non-Property, Write Population)	981	101	20	10.10	50.5	10.0	514	997.95
	Total Providtion (in Occupied Notating Units)	20	100%	461	100%	2975	100%	6945	100%
	Young Children (<5)	1	3%	17	3%	120	4%	277	4%
	School-Age Ohldren (5-17)	3	1.4%	63	13%	397	1.3%	943	1.4%
	Age 18-24	1	6%	46	9%	274	9%	682	10%
	Age 25-44	4	10%	63	17%	592	20%	1434	21%
	Age 45-64	2	37%	166	34%	987	33%	2277	33%
	Age operation	2	1276	37	1276	323	1176	713	10%
	Population 16-64 (For Individuals with a disability variable)*	10	\$1%	304	63%	1899	6406	4450	64%
	Population 3:25 (For educational attainment variable)	15	74%	355	74%	2164	73%	5045	73%
	Population is 1.6 (For employment variable) *	17	6.4%	366	00%	2396	61%	5616	01%
	Population 265 (For age 265 in group quarters variable)	4	21%	105	22%	604	20%	1332	19%
31	Disability	548.1	881%	54.8 3	\$48.3 %	548.5	885%	SUR 7	SUR 7 %
31	Total Population (in Occupied Housing Units, age 16-64)	10	100%	504	100%	1899	100%	4450	100%
ŏ!	Individuals with Disabilities	1	0%	21	7%	157	0%	362	8%
N 1	Umbed English Profidency (LBP)	S.R.I	S.R.I.S.	SUR 3	2415	5.8.5	8.8.5 %	5187	3087 %
-	Estimated Occupied Housing Units		0%	240	100%	1467	100%	3321	100%
	Educational Attainment	981	5815	99.5	5235	58.5	-	518.7	51875
	Total Peoplation (in Occupied Housing Units, age 3(25)	15	100%	355	100%	2104	100%	5045	100%
	Les than a High School Diplama or Equivalent	1	6%	24	7%	176	0%	362	8%
	High School Diploma or GED	3	20%	76	21%	515	24%	1165	23%
	Professional School	1	3%	12	3%	49	3%	164	3%
	Associate's/Bachelor's	6	36%	122	34%	718	33%	1676	33%
	Master's/PhD	2	16%	60	17%	236	16%	816	14%
	Other (Some College)	3	10%	60	17%	366	17%	841	17%
¥1	Employment Solid Resolution in Consolid Manalas Holis, and SHE	sort	241 %	34.8 3	1000	2013	2.8.5 %	54.67	3087 15
31	Total Population (in Occupied Housing Units, age 216)	17	100%	205	100%	2390	100%	3010	100%
¥1	Unemployed	1	0%	27	7%	189	0%	422	8%
õ i	Job Industry #	SUR 1	5811%	SUR 3	5835	SUR 5	SLR 5 %	SLR 7	SUR 7 %
ŭ l	Total Population (age 216 and employed)	15	100%	543	100%	2103	100%	4919	100%
	And a fear the second	0.2	1%	3	1%	16	1%	37	0.8%
	Agriculture, forestry, filling & hunting, sixing								
-1	Agriculture, forestry, filling a hunting, mining Construction	1	5%	19	4%	119	676	271	5.5%
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LOCATION: SUCCOTASH ROAD · NARRAGANSETT, RHODE ISLAND · SEPTEMBER 2015 MYCOAST.ORG · SUBMITTED BY DAWN K.

SOCIOECONOMICS OF SEA LEVEL RISE REPORT RHODE ISLAND

RHODE ISLAND STATEWIDE PLANNING PLANNING PROGRAM ONE CAPITOL HILL - PROVIDENCE, RHODE ISLAND - 02986-3870 WWW, PLANNING R.B.GOV

LAUNCH



- ANTICIPATED LAUNCH ON DIVISION WEBSITE IN DECEMBER 2016
- DOWNLOADABLE REPORT
- 20 INDIVIDUAL COASTAL COMMUNITY FACTSHEETS & DATA PROFILES + RI (21) COASTAL FACTSHEET AND DATA PROFILE

NEXT: SEA LEVEL RISE VULNERABILITY: MUNICIPAL TRANSPORTATION ASSETS

MUNICIPAL TRANSPORTATION ASSETS VULNERABILITY TO SEA LEVEL RISE AND STORM SURGE



PURPOSE

- Create replicable methodology and usable data
- Identify municipal transportation assets exposed to SLR
- Prioritize vulnerability of exposed assets
- Communicate findings



RELEVANCE

ASSETS BEING CREATED NOW WILL STILL BE AROUND WHEN SEA LEVEL RISE BEGINS TO HAVE AN IMPACT





TYPE	ASSET	CURRENT	1 FT.	3 FT.	5 FT.	7 FT.
SLR	Road		Х	Х	Х	Х
	Bridge					Х
SUDOF	Road	Х	Х	Х	Х	Х
SORGE	Bridge					Х

INITIAL FINDINGS



175 MILES OF ROAD CENTERLINE EXPOSED TO SLR
 573 MILES TO STORM SURGE + SLR
 70% OF EXPOSED ROADS ARE LOCAL
 90 BRIDGES EXPOSED TO SLR
 148 BRIDGES EXPOSED TO STORM SURGE + SLR

VULNERABILITY ASSESSMENT

A way to prioritize response to the results of exposure

- Earlier exposure vs later exposure
- Used by a larger number of people
- Greater risk vs lower risk
- Damage more severe vs less severe
- Assets that serve wider social priorities

LIKELIHOOD & MAGNITUDE OF HAZARD



MOST VULNERABLE ROADS: SEA LEVEL RISE

Hope Street – Bristol, RI Photo Courtesy – Trip Adviso

RANK	MUNICIPALITY	ROAD NAME
1	BRISTOL	HOPE ST
2	NEWPORT	MEMORIAL BLVD
3	BARRINGTON	WAMPANOAG TRAIL
4	JAMESTOWN	CONANICUS AVE
5	BARRINGTON	COUNTY RD N
6	JAMESTOWN	NORTH RD
7	BARRINGTON	COUNTY RD
8	NARRAGANSETT	BEACH ST
9	WARREN	MAIN ST
10	TIVERTON	STATE HWY 24 S



Roads

3Ft Sea Level Rise

5Ft Sea Level Rise

MOST VULNERABLE ROADS: 100 YEAR STORM + SEA LEVEL RISE

RANK	MUNICIPALITY	ROAD NAME
1	BARRINGTON	COUNTY RD N
2	NORTH KINGSTOWN	PHILLIPS ST
3	NEWPORT	AMERICAS CUP AVE
4	NEWPORT	ON RAMP RI-138 W
5	BRISTOL	HOPE ST
6	PORTSMOUTH	STATE HWY 24 N
7	WARWICK	CENTERVILLE RD
8	NARRAGANSETT	NARRAGANSETT AVE
9	WARREN	MAIN ST
10	JAMESTOWN	STATE HWY 138 W





Selection of Top Roads Vulnerable to 100 Year Storm Surge Event Plus Sea Level Rise

Map Legend

Current Ponds & Mean Higher High Water 😐 Exposed Roads in the Top 10 🕘 City and Town Boundaries

Roads

Potentially Exposed Roads

- 100-Year Storm Event
- 100-Year Plus 1
- 100-Year Plus 3
- 100-Year Plus 5

ROAD VULNERABILITY: RANKED MUNICIPALITIES

SEA LEVEL RISE



ROAD VULNERABILITY: RANKED MUNICIPALITIES

100 YEAR STORM + SEA LEVEL RISE



ROAD VULNERABILITY FINDINGS





SOME CRITICAL FACILITIES EXPOSED A LARGE NUMBER OF SMALL FACILITIES EXPOSED

BRIDGE VULNERABILITY FINDINGS: SEA LEVEL RISE

SEA LEVEL RISE

RANK	BRIDGE NAME	FACILITY CARRIED	FEATURE INTERSECTED	CITY OR TOWN
1	Barrington	RI 114/103 Cnty Rd	Barrington River	Barrington
2	Warren	RI 114/103 Cnty Rd	Warren River	Barrington
3	Silver Creek	RI 114 Hope St	Tidal Inlet	Bristol
4	Apponaug	US 1 Post Rd	Apponaug River	Warwick
5	Apponaug Mill	RI 117 Cntrvlle Rd	Apponaug River	Warwick
6	Easton Beach	RI 138 Memorial Bd	Easton Pond Channel	Middletown
7	C.L. Hussey Memorial	US 1A Bstn Nck Rd	Wickford Cove	North Kingstown
8	Eagle Street	Eagle St	Woonasquatucket River	Providence
9	Round Swamp	North Main Rd	Tidal Inlet	Jamestown
10	Park Street	Park St	Woonasquatucket River	Providence



BRIDGE VULNERABILITY: RANKED MUNICIPALITIES

SEA LEVEL RISE

			Municipalities Ranked by Bridge Vulnerability to Sea Level Rise
RANK	CITY OR TOWN	EXPOSED BRIDGES	
1	Providence	21	Massachusetts Trong
2	Warwick	10	
3	East Providence	7	A A A A A A A A A A A A A A A A A A A
4	Bristol	8	
5	Barrington	6	
6	North Kingstown	5	Connecticut
7	Tiverton	4	
8	Jamestown	5	
9	Narragansett	3	
10	South Kingstown	3	
11	Middletown	3	
12	Newport	3	
13	Warren	2	
14	New Shoreham	2	about (
15	Westerly	2	In the stand
16	Cranston	2	
17	Portsmouth	1	
18	Charlestown	1	
19	Pawtucket	1	
20	East Greenwich	1	0 2.5 5 10 Miles RIGIS, URI EDG

BRIDGE VULNERABILITY FINDINGS: 100 YEAR STORM SURGE + SEA LEVEL RISE

STORM SURGE + SLR

RANK	BRIDGE NAME	FACILITY CARRIED	FEATURE INTERSECTED	
1	Warwick Ave	RI 117 Warwick Av	Pawtuxet River	Cranston
2	Newport Bridge Authority	ri 138	East Passage Narr Bay	Jamestown
3	Silver Creek	RI 114 Hope St	Tidal Inlet	Bristol
4	Easton Beach	RI 138 Memorial Bd	Easton Pond Channel	Middletown
5	Apponaug	US 1 Post Rd	Apponaug River	Warwick
6	Apponaug Mill	RI 117 Cntrvlle Rd	Apponaug River	Warwick
7	Carpenters Corner	RI 117 Cntrvlle Rd	Tuscatucket River	Warwick
8	Cottage Home	RI 117A Warwick Av	Buckeye Brook	Warwick
9	Babbitt Farm	US 1 Post Rd	Cocumcussoc Brook	North Kingstown
10	Barrington	RI 114/103 Cnty Rd	Barrington River	Barrington



Warwick Ave Bridge – Warwick, RI Photo Courtesy – Google Maps

BRIDGE VULNERABILITY: RANKED MUNICIPALITIES

100 YEAR STORM SURGE + SEA LEVEL RISE

RANK	CITY OR TOWN	EXPOSED BRIDGES
1	East Providence	19
2	Warwick	20
3	Providence	19
4	North Kingstown	12
5	Newport	8
6	Tiverton	8
7	South Kingstown	9
8	Cranston	6
9	Bristol	7
10	Barrington	6
11	Westerly	7
12	Narragansett	5
13	Portsmouth	5
14	Jamestown	4
15	Middletown	3
16	Warren	2
17	Pawtucket	2
18	East Greenwich	2
19	Charlestown	2
20	New Shoreham	2



INITIAL CONCLUSIONS





CAUTIOUS OPTIMISM

 MOST CRITICAL OF FACILITIES ARE WELL PROTECTED
 THERE IS TIME TO TAKE ACTION

 ACTION SHOULD BE TAKEN NOW

 DECISIONS IN THE PRESENT ARE RELEVANT

DELIVERABLES

USING THIS DATA

- Municipal Fact Sheets
 - All 21 Coastal Communities
- Technical Paper
- Appendix
 - State, Municipal Data
 - Maps, Tables
- Enhanced Web Site
 - All Division of Planning inundation projects
 - All project materials
 - Web viewer
 - Links to other resources

PLANNING FOR SEA LEVEL RISE ON YOUR ROADS

This fact sheet aims to provide municipal leaders and practitioners with a survey of Barrington's transportation infrastructure elements that may be affected by sea level rise and storm surge. In addition to explaining and presenting the data, this fact sheet will outline strategies that may help in adapting to these conditions, and point towards resources that will enable further investigation.

Relevance

The impacts of Sea Level Rise (SLR) are often perceived as distant, but the assets being built today will still be within their design life when future effects of sea level rise are felt. In addition, sea level rise will magnify the impacts of 100year storm surge events by raising the water level. Though current federal guidelines only require federally funded assets be built to survive a 100-year storm event. The impact of a 100-year storm event is likely to change during the design life of the assets currently under consideration in Rhode Island.



Data and Methodology



Figure 2: Flooding near Sauchest Point: June 2013

To help Rhode Island's cities and towns prepare for these changing conditions. the Statewide Planning Program (SPP) has engaged in an effort to analyze the potential impacts created by sea level rise and storm surge. Using data developed under the name "STORMTOOLS" by the Coastal Resources Management Council and the University of Rhode Island, SPP identified the assets that could be impacted (exposure), and their vulnerability. As a result of this analysis, SPP identified the roads and bridges most likely to be impacted by Sea Level Rise, and scored their relative vulnerability based on the severity of the hazard they face and the potential impact of asset damage on the transportation system as a whole.



http://www.planning.ri.gov/geodeminfo/data/slr.php

FURTHER RESEARCH

- Conduct own GIS analysis
 - GIS data on RIGIS
 - Local data sets
 - Local knowledge
- Engineering Studies
 - Use GIS to target resources



GENERAL ADAPTATION STRATEGIES

Armor	
Enhance natural protections	
ommodate in place	
lignment	
l alternate routes	
Indonment	

DO NOTHING

INCLUDING SEA LEVEL RISE IN PLANNING PRACTICE

SPENDING

PLANNING

- Asset management
- Project selection (TIP or CIP)
- Construction contracts

- Hazard mitigation plans
- Long range transportation plan
- Local comprehensive plans

GOAL-SETTING

- MAP-21 performance measures
- Other performance management

INUNDATION RESEARCH OPPORTUNITIES

New Data

- Erosion
- Riverine Flooding
- Synthetic Interaction Modeling
- Different Asset Classes
 - Transportation
 - Vulnerable Populations
 - Public Health
 - Utilities
 - Wastewater
 - Environmental Systems
 - Industry
- Synthesis





THANK YOU QUESTIONS & DISCUSSION