

# Miami

## An Illustrative Case in Climate Adaptation Paradoxes

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January 30, 2015

## Flooding in Miami Beach

High-tide flooding caused by rising seas is impacting Miami and cities as far north as Boston with ever increasing frequency and severity. (Photo by Harold Wanless, University of Miami)

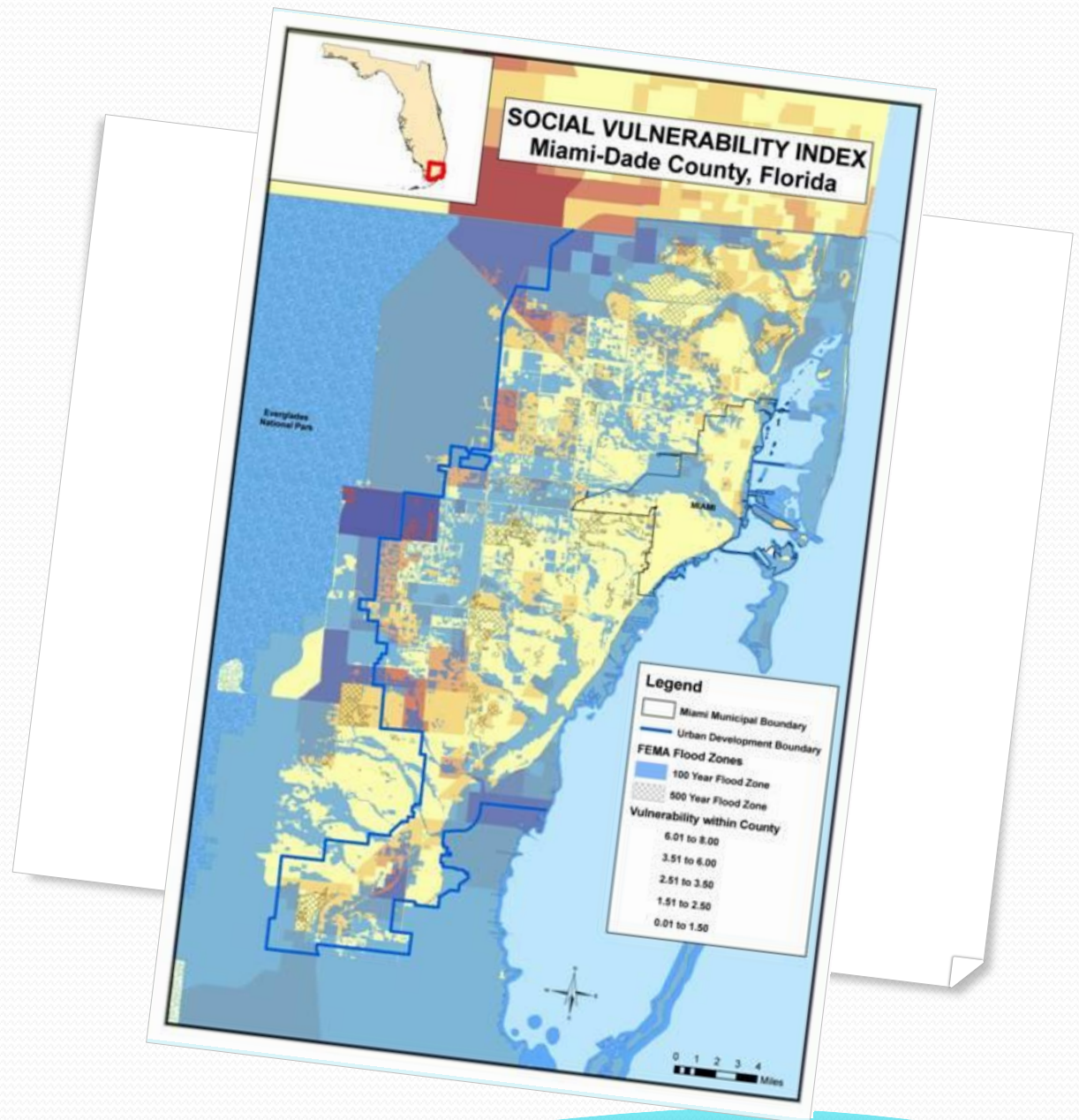
Image retrieved from "[The Daily Impact](#)"



## Flood Risk in Miami-Dade

Map created by the Miami-Dade Office of Sustainability in conjunction with the NOAA Office for Coastal Management. It shows sea level rise interactions with saltwater intrusion, land use, and manmade structures.

Image retried from the [NOAA Digital Coast Program](#)



# “Water, water, everywhere, Nor any drop to drink”

-*The Rime of the Ancient Mariner* by Samuel Taylor Coleridge

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Rank	Urban Area	Normalized availability	Vulnerability	Population
216	El Paso, TX--NM	0.07	High	674,801
217	Mission Viejo, CA	0.06	High	533,015
218	Riverside--San Bernardino, CA	0.06	High	1,506,816
219	Salt Lake City, UT	0.05	High	887,650
220	Los Angeles--Long Beach--Santa Ana, CA	0.05	High	11,789,487
221	San Diego, CA	0.05	High	2,674,436
222	San Jose, CA	0.04	High	1,538,312
223	Lincoln, NE	0.04	High	226,582
224	Miami, FL	0.04	High	4,919,036
225	San Antonio, TX	0.04	High	1,327,554

## Cities Running out of Water

Padowski and Jawitz (2012) developed a ranked list of US cities with a population of 100,000 or more to determine overall water risk. Listed here are the top 11 at-risk cities of running out of freshwater. Miami ranks 2<sup>nd</sup> in terms of vulnerability.

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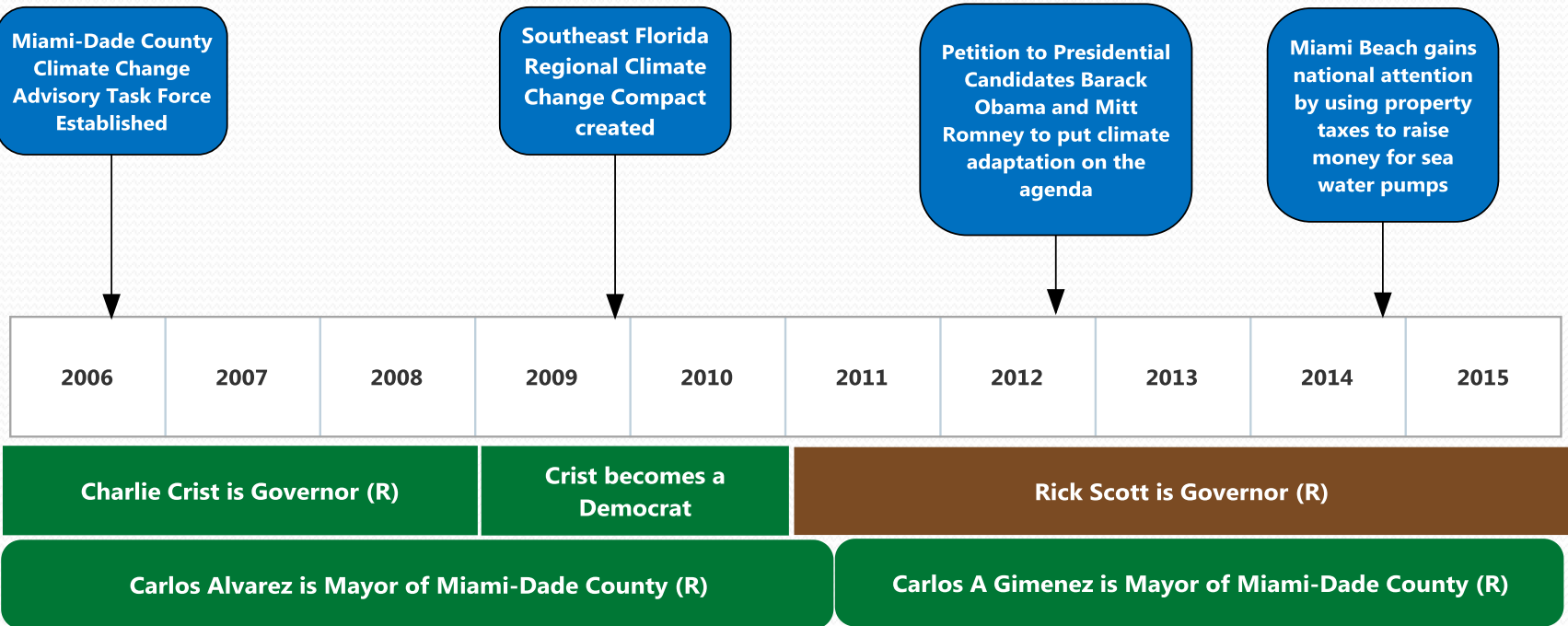
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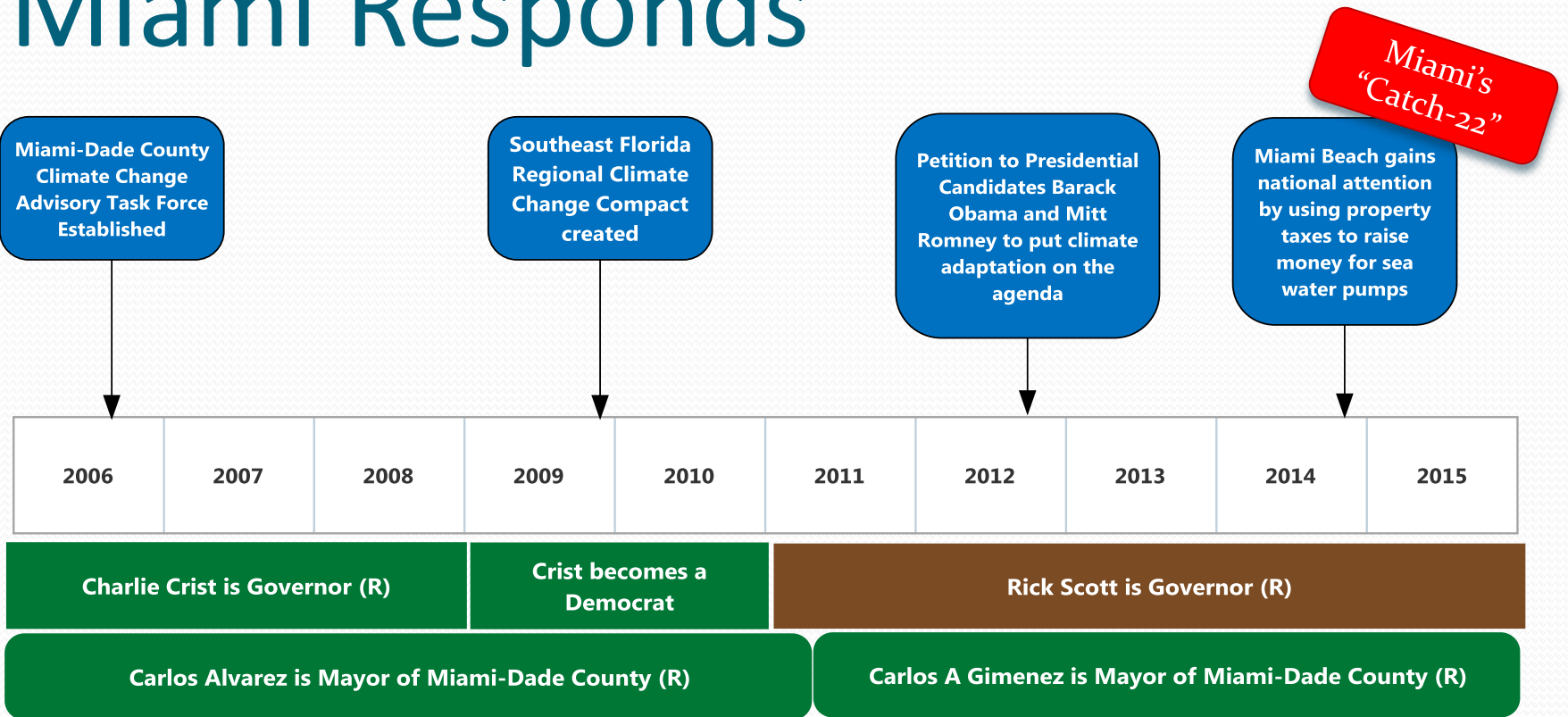
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# Miami Responds

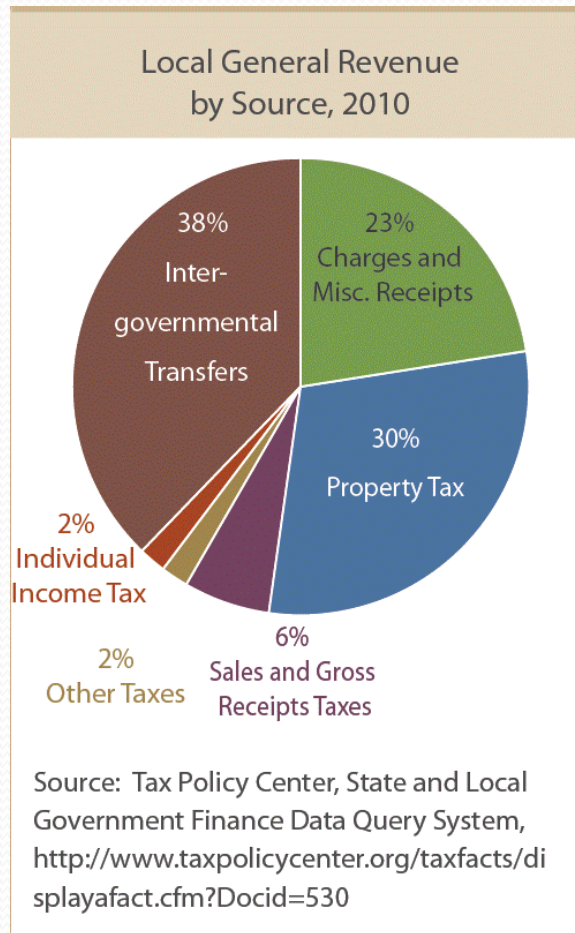




# Miami Responds



# Local Funding Options



## Miami-Dade's 2013-2014 FY Revenue

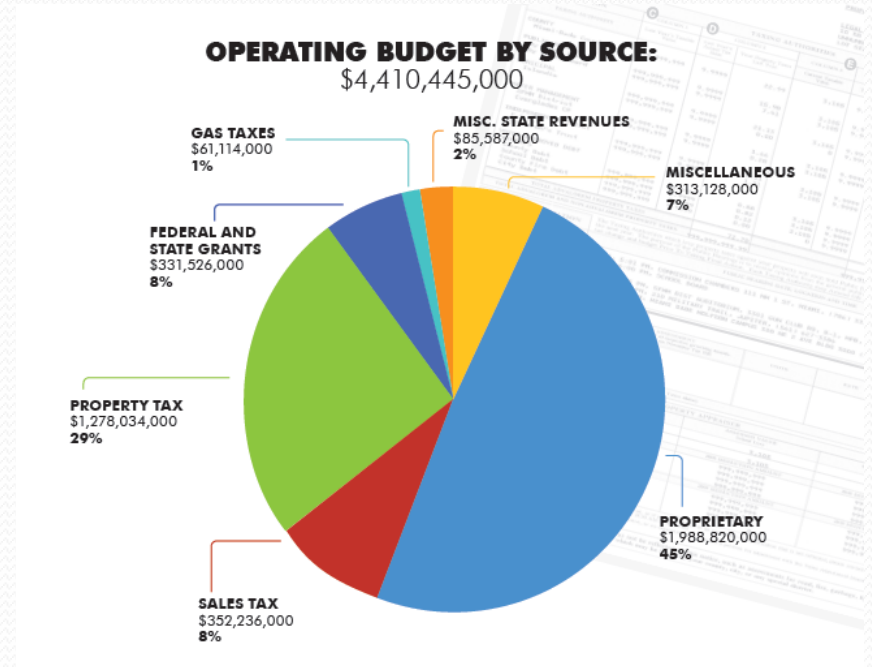


Image from the Miami-Dade "Budget in Brief" published in 2013



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- Alternative approaches for raising funds need to be considered to **avoid justice issues** associated with property tax funding
  - Need to **avoid adapting only for the rich**
  - US **federal government should provide grants** to localities to develop adaptation programs and projects



Thank you. Questions?

## Climate Attitudes of 2015 Governors

Developed by thinkprogress.org based on public statements and laws they have passed concerning climate change mitigation and adaptation.

### Ranking on Climate and Energy Positions

-  Accepts science, strong record
-  Accepts science, mixed record
-  Not on record or weak climate and clean energy record
-  Climate denier, anti-climate and clean energy record

