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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION (NJDEP) DEVELOPED NEW FLOOD MODELS OF RAINFALL AND ALSO PREDICTED HOW FLOODING FROM A SANDY-LIKE EVENT MIGHT CANGE WITH 2.4 FEET OF SEA LEVEL RISE, EXPECTED BY 2070.

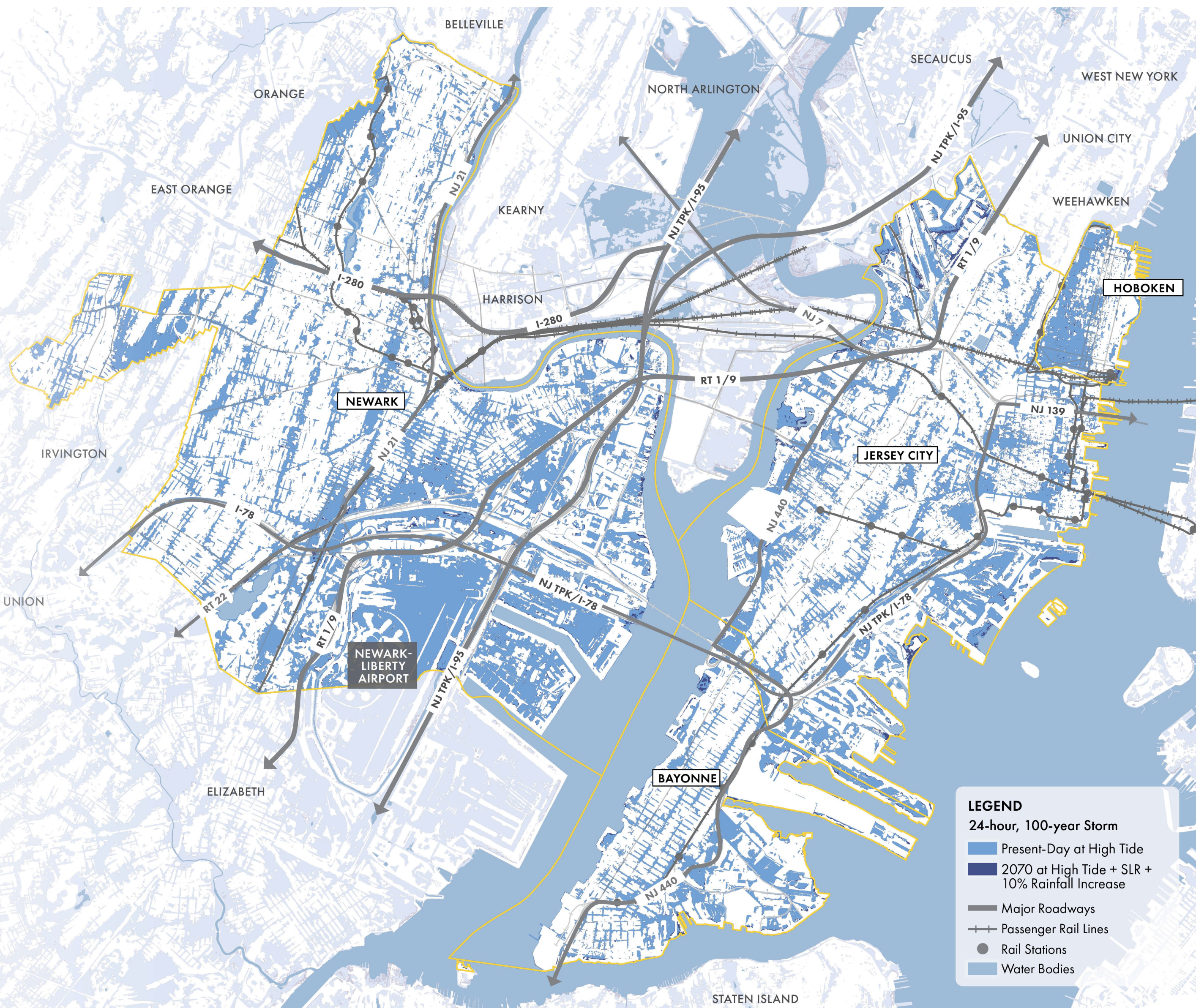
This map shows flooding from **rainfall** that might occur over a 24-hour period from a major storm (like Ida).

The map shows potential flooding that would be expected for current conditions and what we think conditions could look like in 2070.

The light blue is present day with high tide and the dark blue is 2070 with high tide.

You're not seeing a lot of dark blue because so much flooding is already occurring under the present day. It's mainly just going to get deeper with more rainfall.

These are regional level models and so they don't take into consideration the details of the drainage system, but they do make an assumption about what amount of rainfall we could reasonably expect the current drainage system to take away.

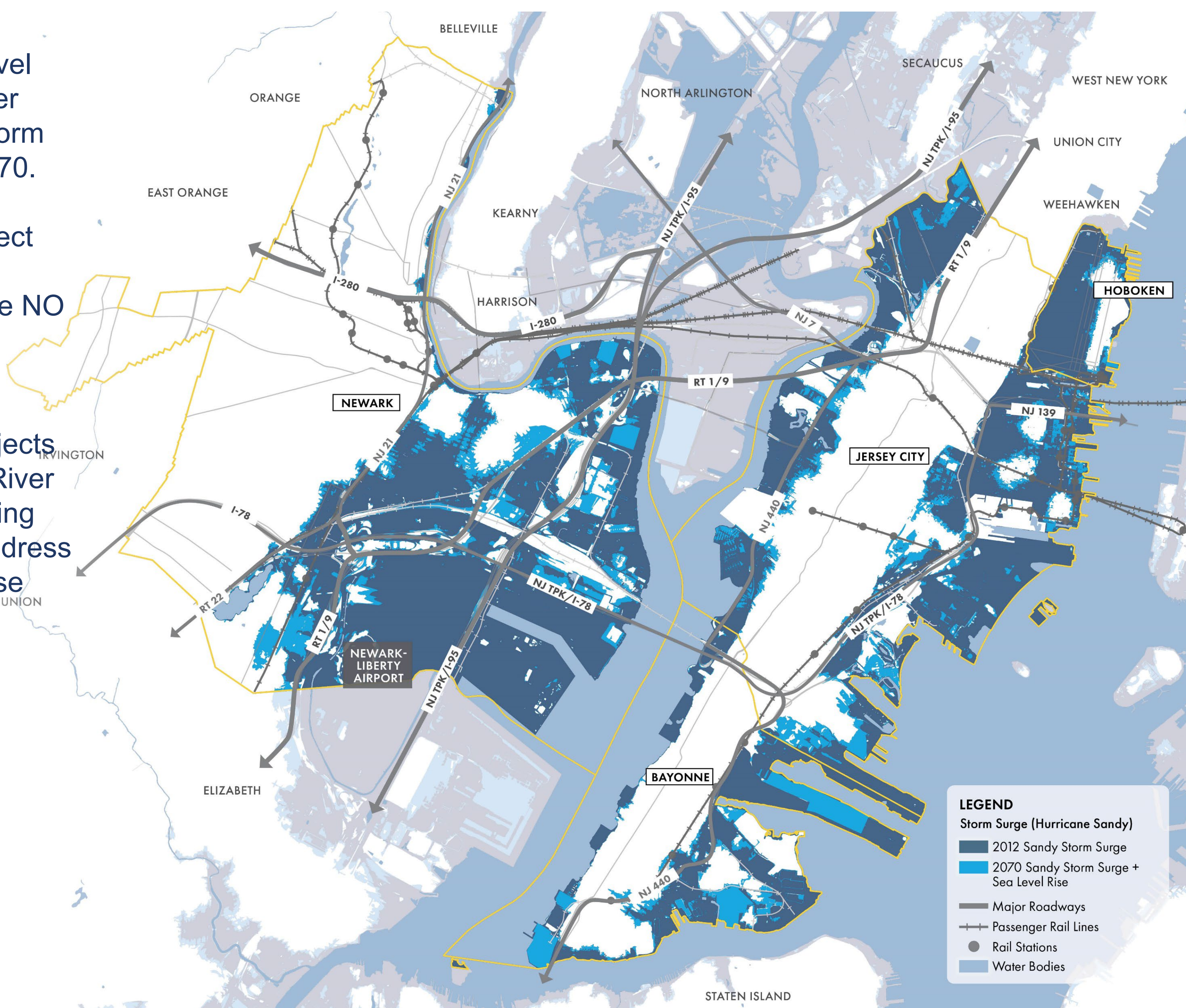


This model adds 2.4 feet of sea level rise to **Hurricane Sandy** high water marks to approximate what that storm might look like if it happened in 2070.

Similar to the rainfall map, we expect flooding mostly to get deeper, not spread too much further. This is the NO ACTION map. This is the map of flooding as it would occur without existing planned projects being implemented. There are some projects like Rebuild by Design – Hudson River in Hoboken and the Newark Flanking Plan, for example, that will help address a lot of the flooding you see in those areas.

DROP A POST IT TO SAY WHERE YOU'VE EXPERIENCED FLOODING

HOW DO YOUR PAST EXPERIENCES AND EXPECTATIONS OF FLOODING COMPARE WITH THESE MAPS?



RESILIENT NORTHEASTERN NJ

WAVE 3 - SCENARIOS



WHAT MIGHT FLOOD PROTECTION ACTIONS LOOK LIKE?

A RANGE OF PHYSICAL PROJECTS CAN HELP ADDRESS DIFFERENT SOURCES OF FLOODING.

GREEN INFRASTRUCTURE



R.O.W GREEN INFRASTRUCTURE Queens, NY, NY



REGIONAL URBAN GREENWAY The BeltLine
Atlanta, Georgia



GREEN PLAYGROUND P.S. 111
Manhattan, New York City

DRAINAGE SOLUTIONS



URBAN STORMWATER RETENTION PARKS
Venice Island Philadelphia



STORMWATER MEDIAN Via Verde Mexico City



STORMWATER SURFACE CONVEYANCE Lick Run Greenway South Fairmont, Cincinnati

COASTAL FLOODING SOLUTIONS



FLOOD PROTECTIONS INTEGRATED WITH PUBLIC INFRASTRUCTURE Chicago Riverwalk



RIVERWALK WITH COASTAL PROTECTIONS
Newark Riverfront Park



ELEVATED BOARDWALK INTEGRATED WITH NATURE BASED COASTAL PROTECTIONS
Pier 26, Hudson River Park New York City

WHICH EXAMPLES APPEAL TO YOU MOST?

WHAT AREAS OR STREETS ARE MOST IN NEED OF GREENING OR TRANSORMATION?

WHERE WOULD YOU LIKE TO SEE RESILIENCE HUBS?

DROP A POST-IT

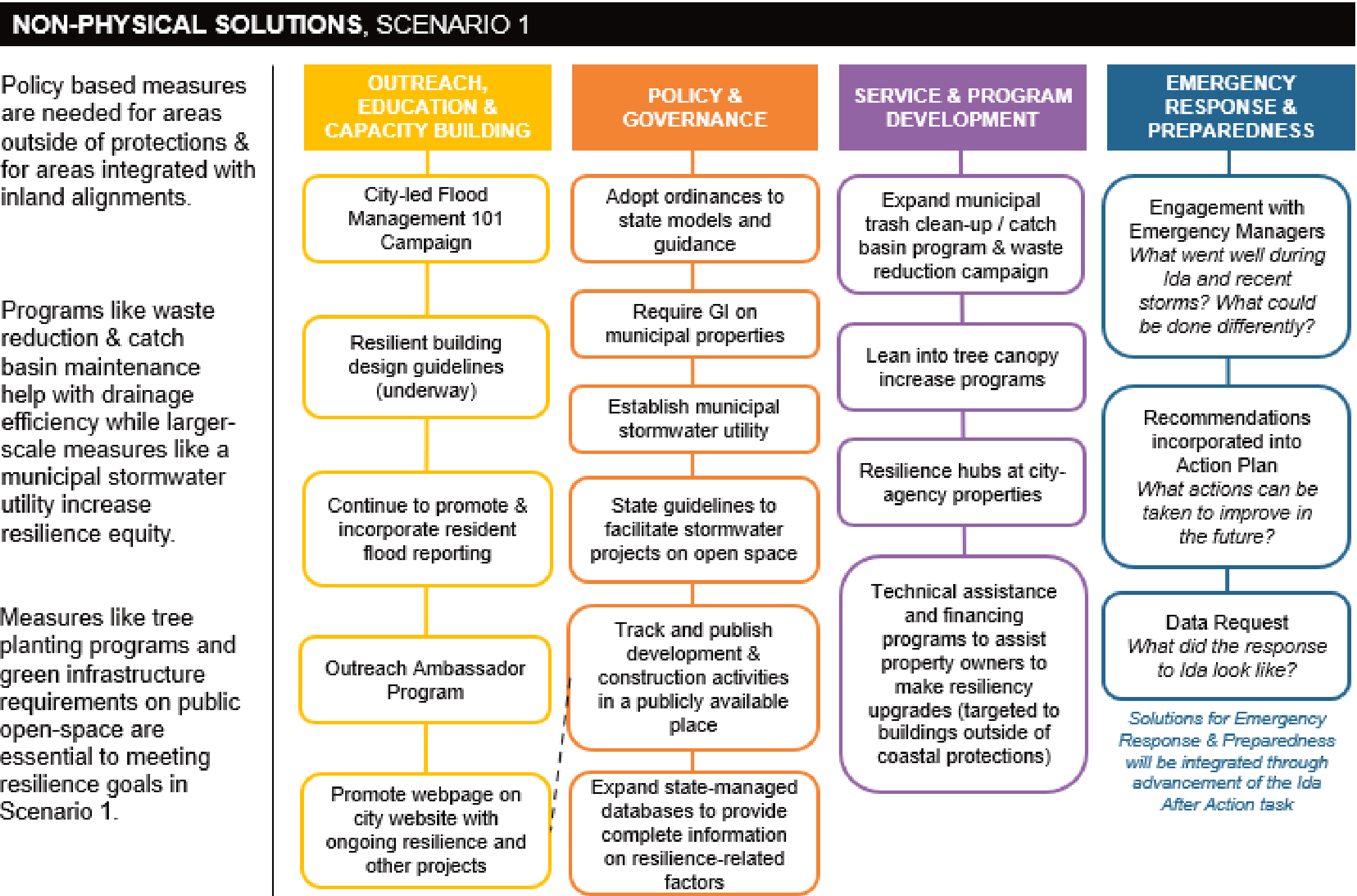
DROP A POST-IT

DROP A POST-IT

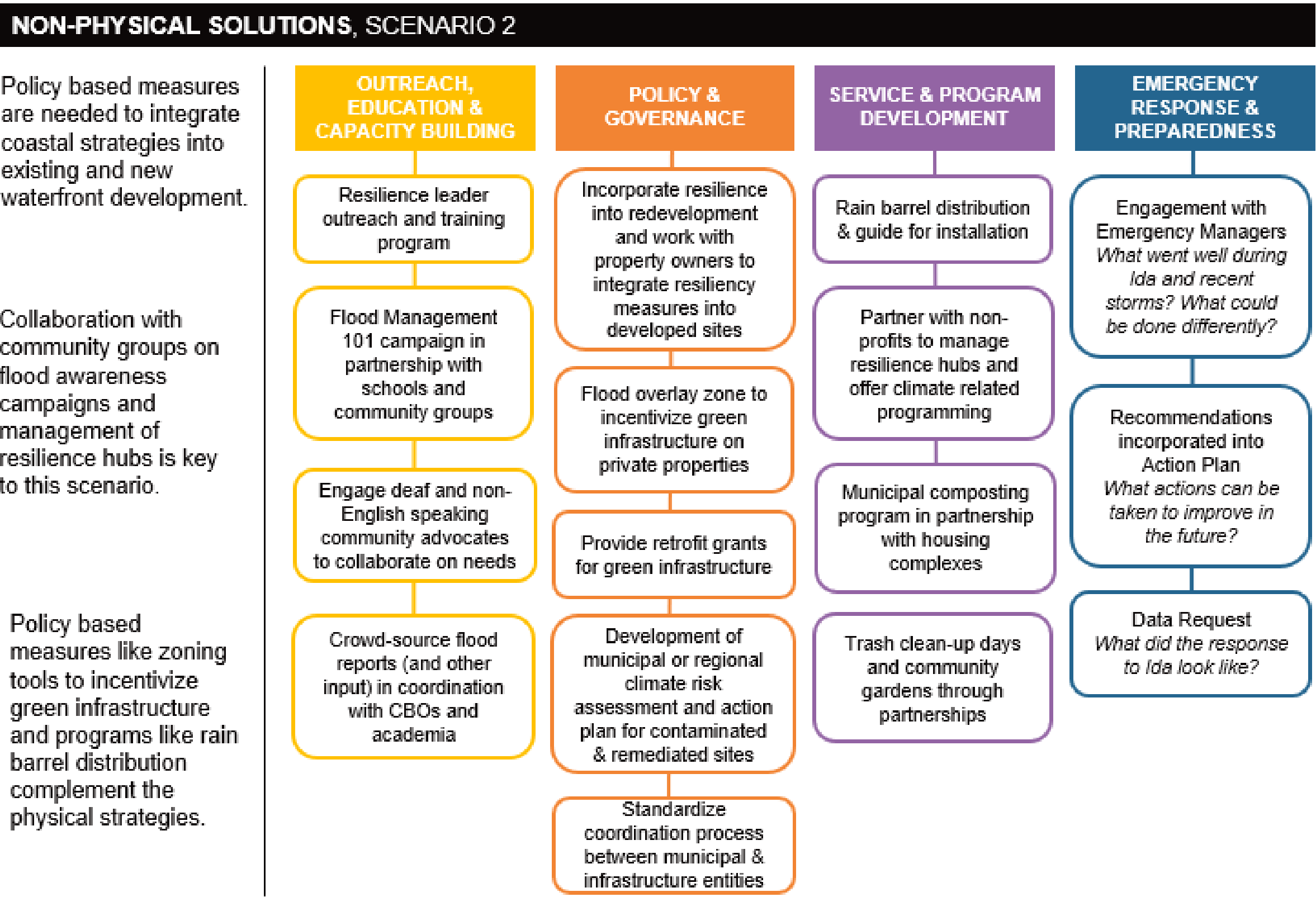
WHAT NON-PHYSICAL OPTIONS ARE AVAILABLE TO HELP US ADDRESS FLOODING?

DROP US A POST-IT TO LET US KNOW WHAT YOU LIKE AND DON'T LIKE ABOUT THESE OPTIONS.

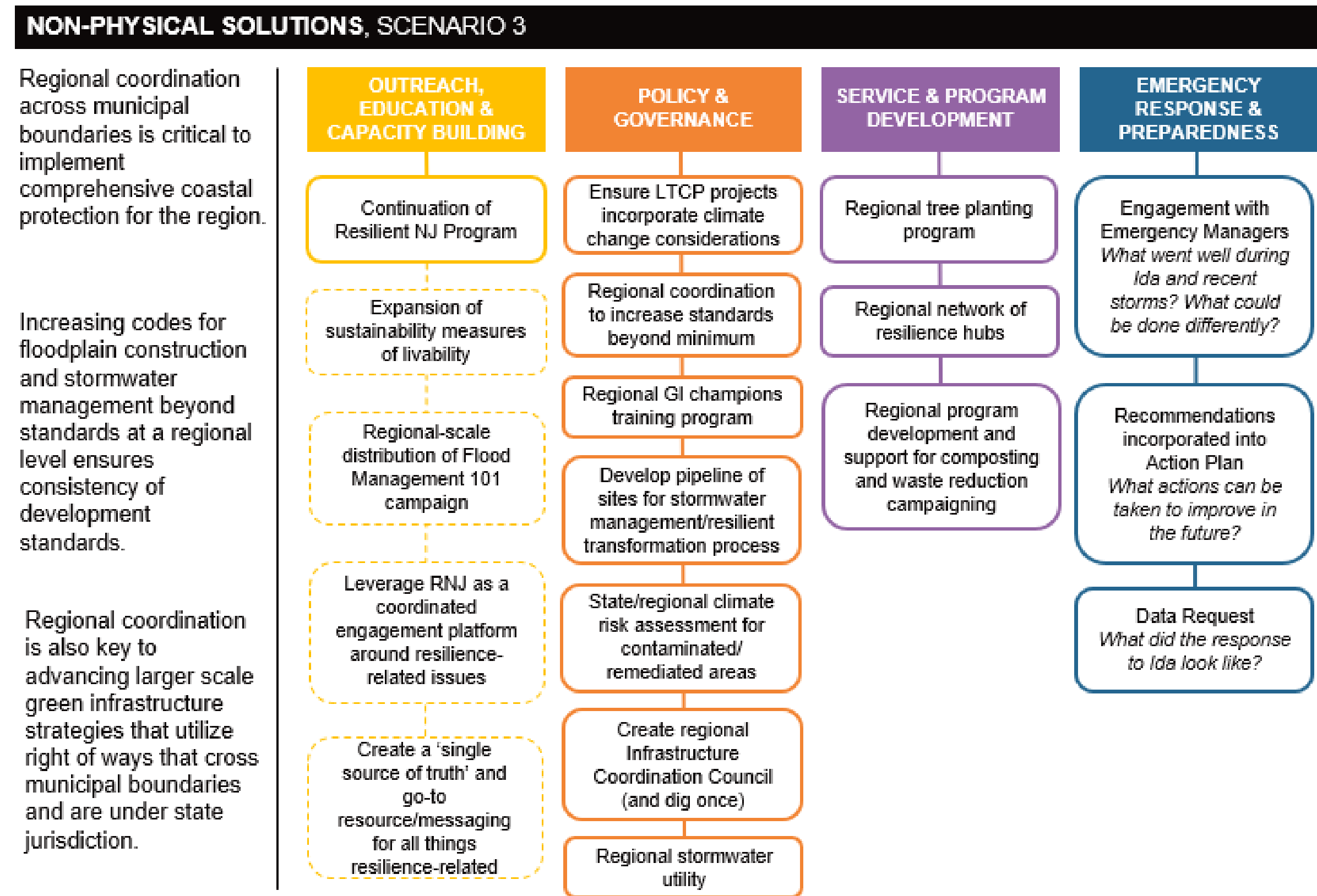
WHAT'S MOST IMPORTANT? WHAT'S NEEDED SOONER RATHER THAN LATER?



DROP A POST-IT



DROP A POST-IT



DROP A POST-IT

HOW SHOULD WE EVALUATE DIFFERENT POSSIBLE FLOOD RISK SOLUTIONS?

THRESHOLD CRITERIA are things a scenario must accomplish or meet. Every solution or scenario we propose will meet these criteria.

ALTERNATIVES EVALUATION CRITERIA are the factors we will use to compare or weigh scenarios against each other. A threshold criterion may also be an alternatives evaluation criterion.



MARK YOUR TOP TWO EVALUATION CRITERIA

- Design life / useful life
- Performance horizon
- Phase-ability / time to implement
- Adaptability / flexibility
- Replicability

- Equitable distribution of costs
- Funding strategy
- Capital and maintenance costs
- Capacity to implement
- Stakeholder support
- Constructability
- Permitting and regulations

- Equitable distribution of risk reduction benefits
- Risk reduction / avoided damage and loss
- Effectiveness (how well it works generally and in certain conditions)

- During and post-construction impacts / enhancements to environment
- Use of green infrastructure
- Accomplishing remediation of soils, sediments, etc.

- Impacts and benefits to communities during and after construction
- Equitable distribution of project impacts and benefits

- Community partnership
- Adaptive capacity building and community value creation
- Youth engagement & education
- A champion or partner identified

Equity is a required component of all criteria to be considered.

- Performance horizon
- Equitable distribution of costs
- Equitable distribution of risk reduction benefits
- Accomplishing remediation of soils, sediments, etc.
- Equitable distribution of project impacts and benefits
- Adaptive capacity building and community value creation

WHAT ARE WE MISSING? DO YOU HAVE ANY OTHER CRITERIA?

DROP A POST-IT OR USE THE DRY ERASE MARKER.