



# CITY OF FORT LAUDERDALE

**Phase 2 Neighborhoods  
Stormwater Management Improvements  
City Project No. 12852  
City Commission Meeting  
April 15, 2025**

## Objective

Our objective to summarize recommendations for the implementation of Phase 2 neighborhood projects is expected to span two commission meetings:

1. Today, the first meeting of two, is focused on communicating the recommended project ranking *methodology*, summarizing factors to be considered in the grouping and ordering of projects, for the City Commission's review and comment.
2. The second meeting will focus on finalization of grouping and ordering of projects using the methodology approved by the City Commission.

# Meeting Agenda

- 1 Phase 1 & Phase 2 Neighborhood Projects
- 2 Phase 2 Project Analyses
- 3 Proposed Methodology for Project Prioritization
- 4 Next Steps

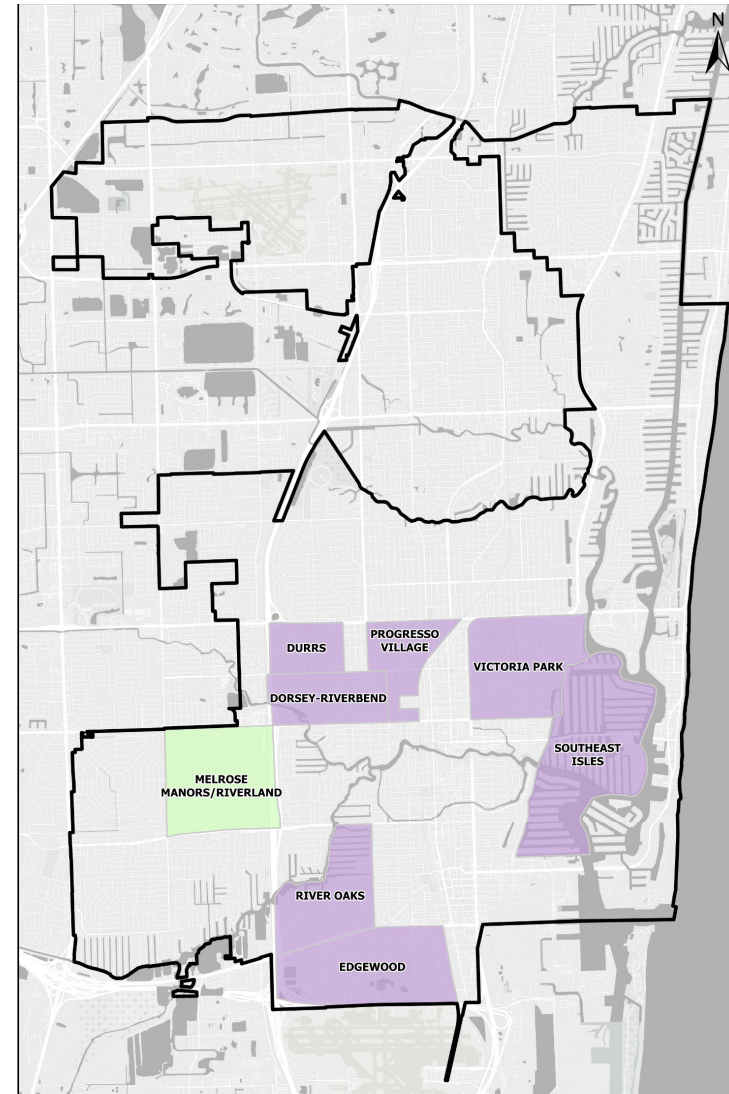


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# Phase 1 & Phase 2 Neighborhood Projects

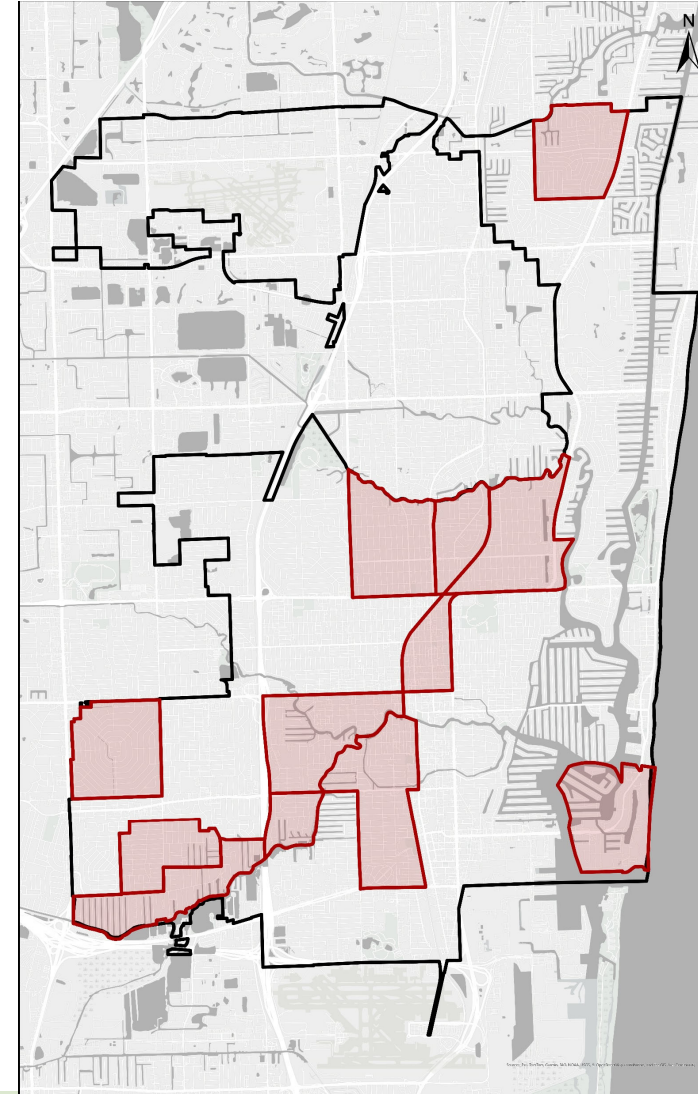
# Phase 1: Eight Neighborhoods

- Edgewood
- River Oaks
- Dorsey-Riverbend
- Durrs
- Progresso Village
- Victoria Park
- Southeast Isles
- Melrose Manors/Riverland



## Phase 2: 17+ Neighborhoods/12 Projects

- Flagler Village
- Harbour Inlet & Adjoining Areas
- Imperial Point
- Lauderdale Isles, Oak River, River Landings, Riverland Manors/Woods & Adjoining Areas
- Melrose Park
- Middle River Terrace
- Poinsettia Heights and Lake Ridge
- Riverland Village, Chula Vista & Adjoining Areas
- Sailboat Bend and Riverside Park
- Shady Banks
- South Middle River
- Tarpon River and Croissant Park





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# Phase 2 Project Analyses

# Phase 2 Neighborhood Project Analyses involved three primary components

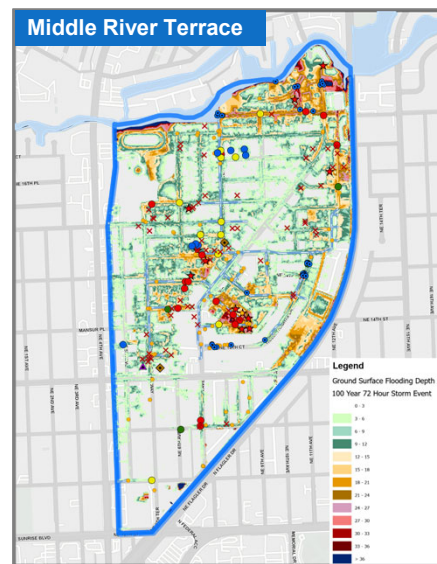
A. Flooding Information  
Neighbor/Agency Data



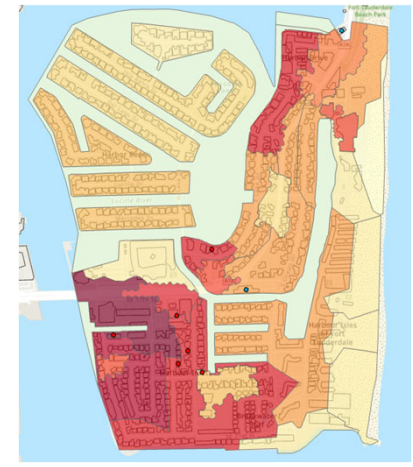
B. Flood  
Modeling



C. Level of  
Service (LOS)

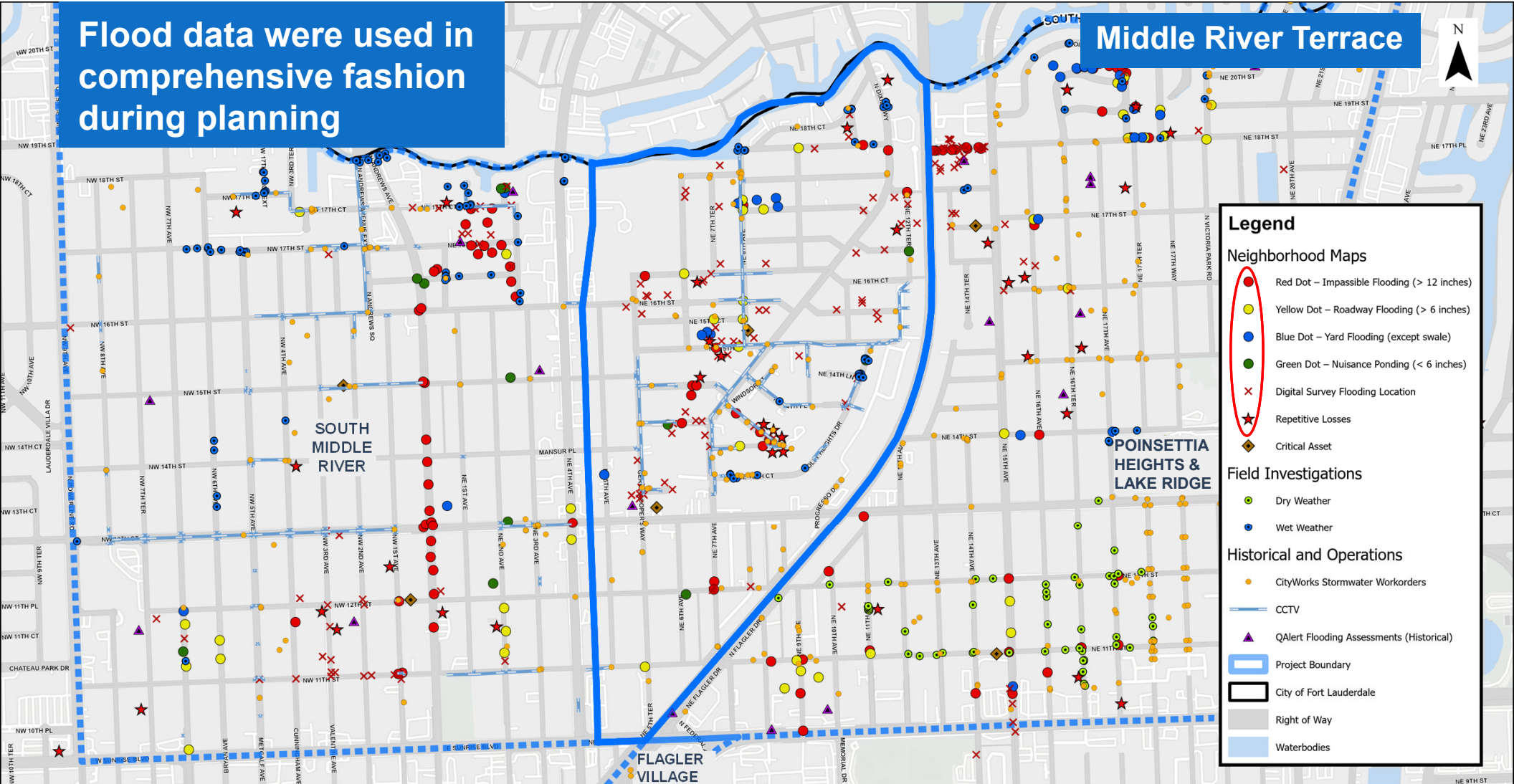


- FEMA Repetitive Loss
  - Critical Structure
  - Important Structure
- Total Points
- |             |
|-------------|
| 0           |
| 1 - 1750    |
| 1751 - 1875 |
| 1876 - 1967 |
| 1968 - 2062 |
| 2063 - 2138 |
| 2139 - 2366 |
| 2367 - 2505 |
| 2506 - 2659 |
| 2660 - 2861 |



Flood data were used in comprehensive fashion during planning

Middle River Terrace



**Legend**

**Neighborhood Maps**

- Red Dot – Impossible Flooding (> 12 inches)
- Yellow Dot – Roadway Flooding (> 6 inches)
- Blue Dot – Yard Flooding (except swale)
- Green Dot – Nuisance Ponding (< 6 inches)
- X – Digital Survey Flooding Location
- Star – Repetitive Losses
- Diamond – Critical Asset

**Field Investigations**

- Green Circle with Dot – Dry Weather
- Blue Circle with Dot – Wet Weather

**Historical and Operations**

- Orange Dot – CityWorks Stormwater Workorders
- Blue Line – CCTV
- Purple Triangle – QAlert Flooding Assessments (Historical)
- Blue Outline – Project Boundary
- Black Outline – City of Fort Lauderdale
- Grey Outline – Right of Way
- Light Blue Area – Waterbodies

## A. Flooding Information Neighbor/Agency Data

### Points assigned due to City data collection

Number of Reports per acre within the Project Area  
divided by the Number of Reports per acre in the worst area

### Points assigned due to FEMA repetitive losses

Number of Repetitive Loss properties per acre within the Project Area  
divided by the Number of Repetitive Loss properties per acre in the worst area

## **B. For Flood Modeling, multiple scenarios were used to assist proper planning and prioritization**

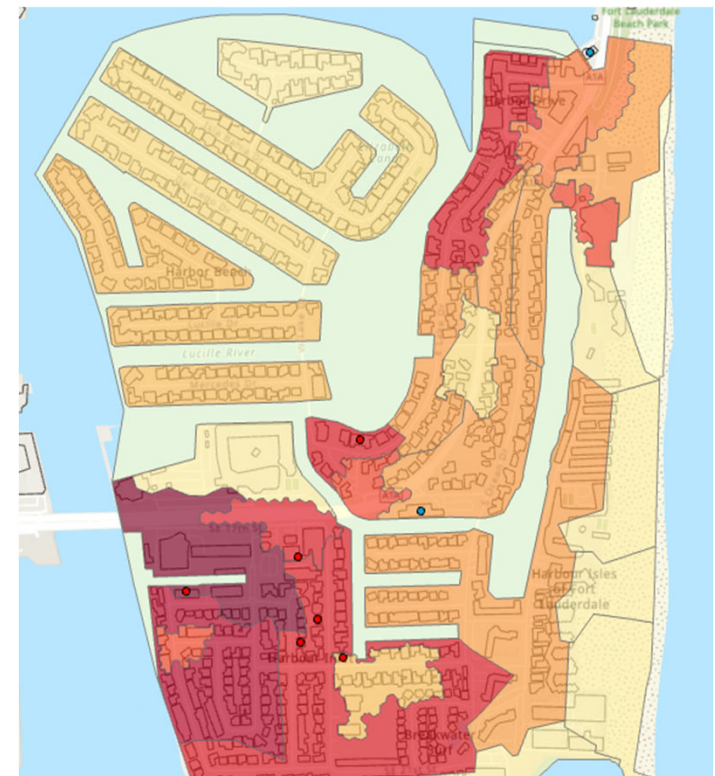
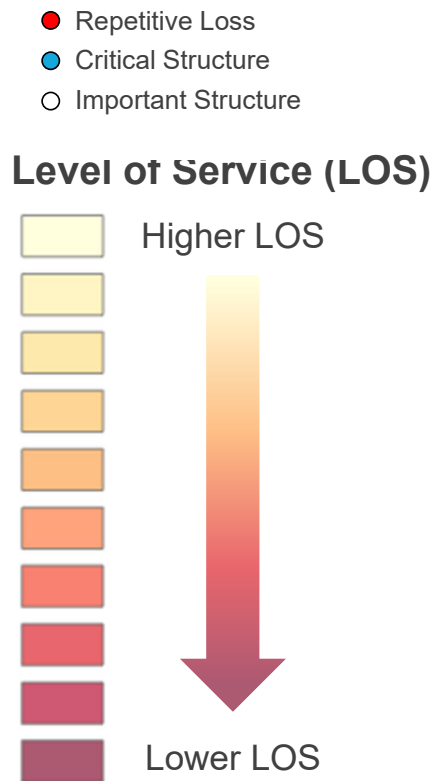
<b>Event</b>	<b>Rainfall (inches)</b>	<b>Asset Evaluated</b>
10 Year – 24 Hr	8.7	Roadways
100 Year – 72 Hr	18.5	Structures

**2040 and 2070 Planning Horizons were modeled to evaluate vulnerability to Sea Level Rise and other climate impacts**

## C. Using model results, a LOS evaluation was conducted for each project, yielding a comparable metric regarding the relative impact of flooding

- Considers the overall area impacted
- Considers estimated miles of roadway flooded and number of structures flooded
- Considers critical facilities and repetitive losses

➔ Provides a means of estimating which areas are most heavily impacted (highest score)



Harbour Inlet & Adjoining Areas

## C (continued). Level of Service (LOS) Points

### Structures:

The “Structures LOS Points” are calculated based on model results. The calculation considers the number of buildings/structures expected to experience flooding during the 10- and 100-year storm events.

### Roads:

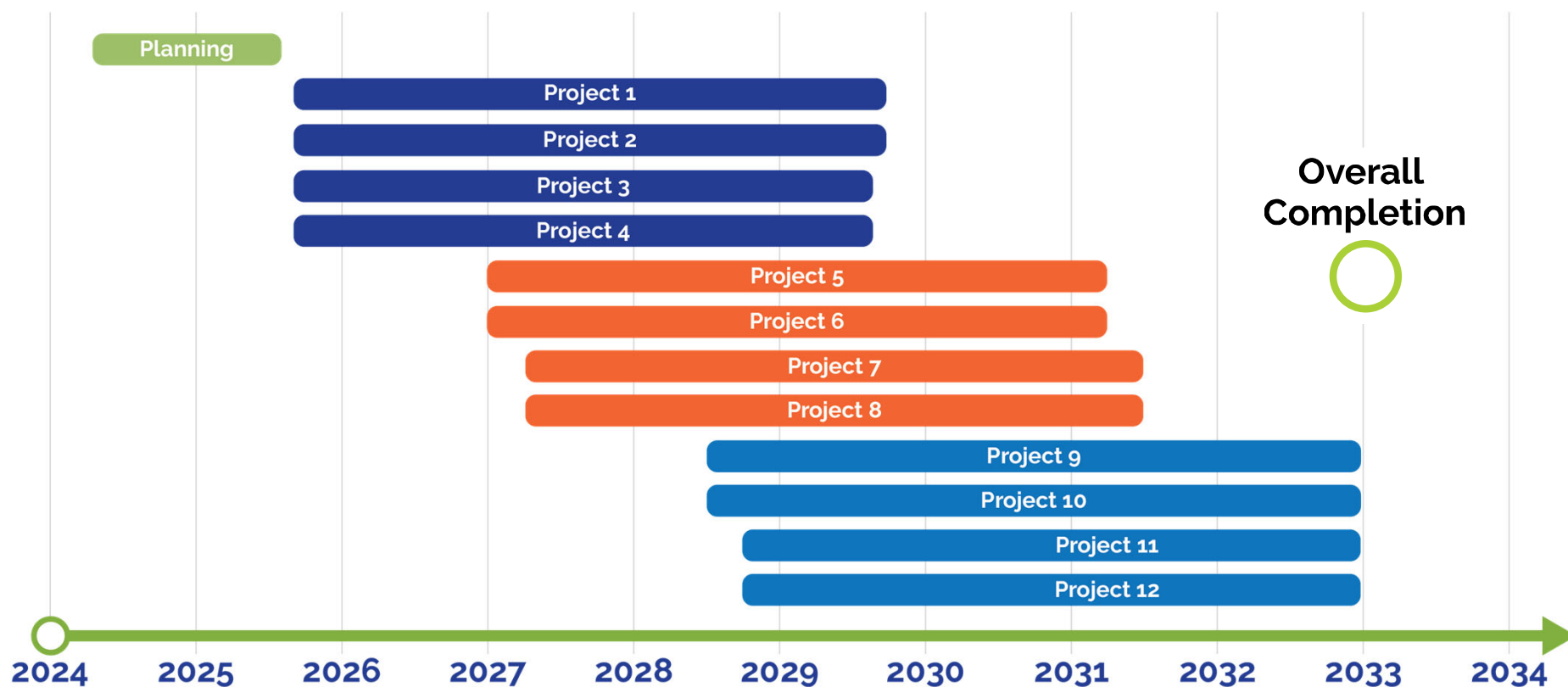
The “Roads LOS Points” are calculated based on model results. The calculation considers the length of roads expected to flood. The storm event used in this calculation varies depending on road classification.



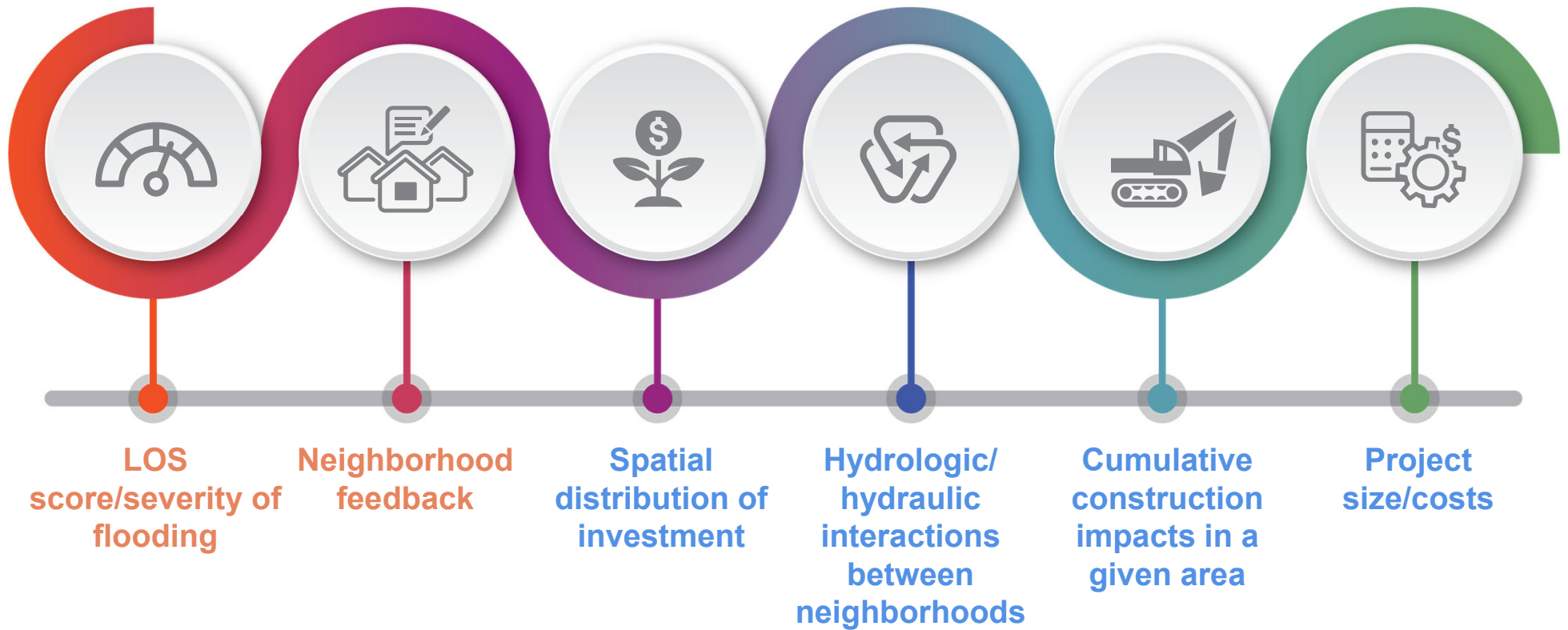
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## Proposed Methodology for Project Prioritization

# The intent is to place the 12 projects into three “time-based” groups of four projects

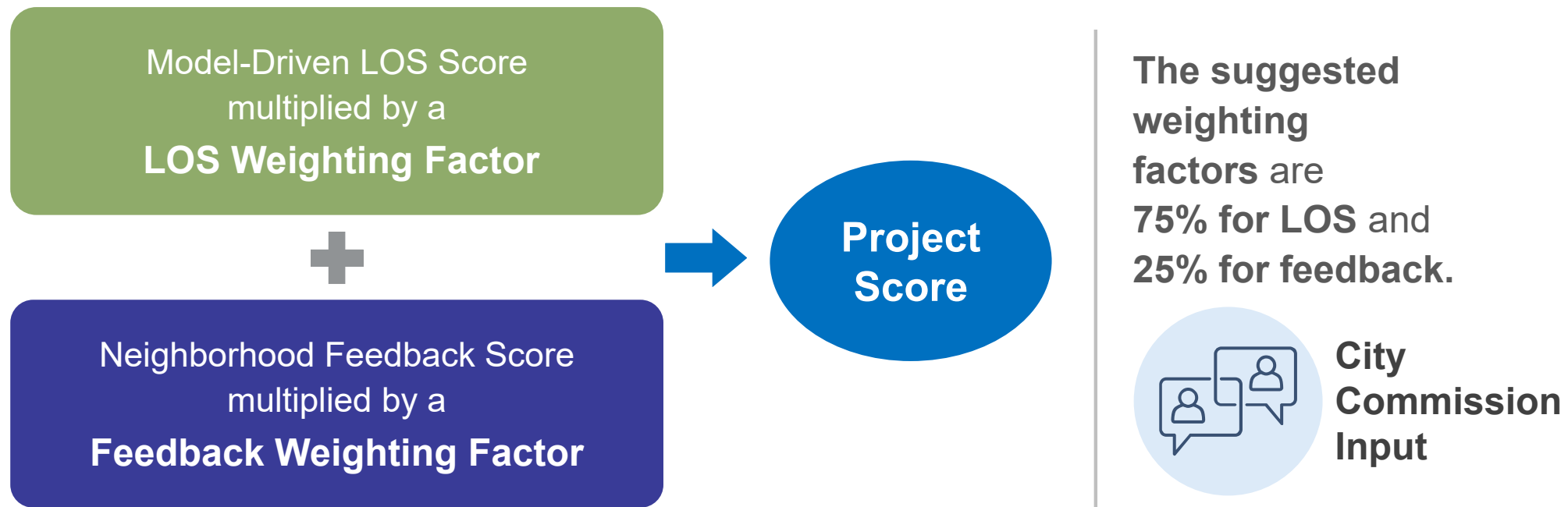


# A variety of factors could be used in prioritizing the order of work

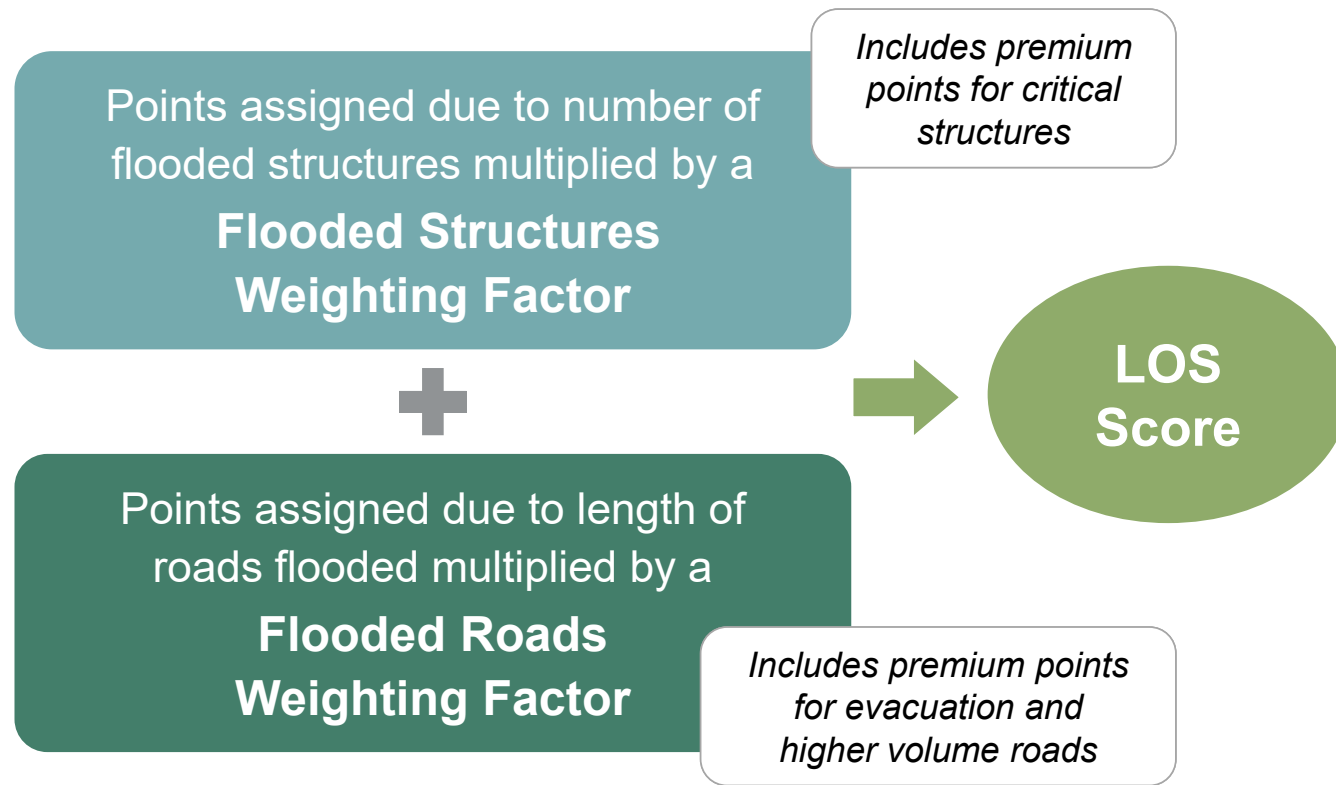


# Numerical Analysis for Project Prioritization

**Objective:** Obtain a Project Score that can be used to rank projects



# Level of Service (LOS) Score

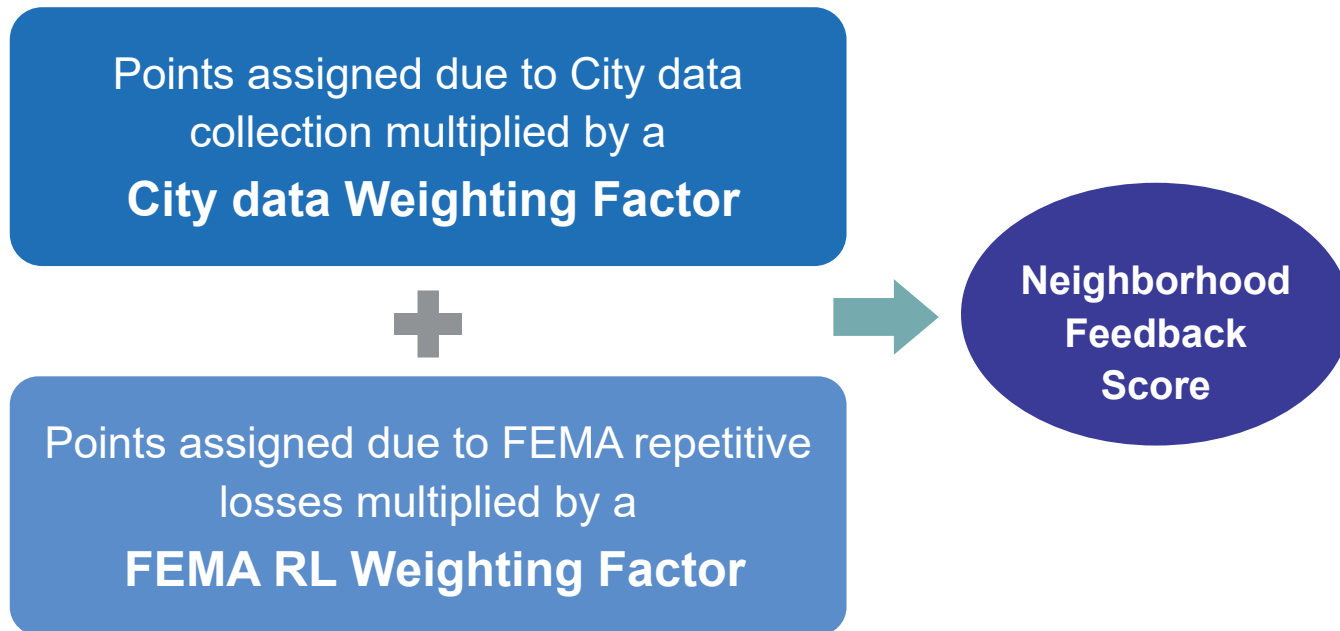


The suggested weighting factors are 50% / 50%.



**City Commission Input**

# Neighborhood Feedback Score



The suggested weighting factors are **60%** for **City data** and **40%** for **FEMA RL**.

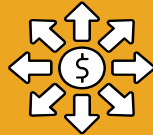


## Subjective criteria are proposed to be used as follows:



### Hydrologic Interactions -

Direct prioritization (downstream system built first)



### Spatial Distribution -

Adjust by one group to more evenly spread work throughout the City at a given time



### Cumulative Construction Impacts -

Adjust by one group (timing) to reduce impacts on traffic/neighbors



### Project Costs -

Adjust by one group to avoid aggregating the “most expensive” or “least expensive” projects in the same group



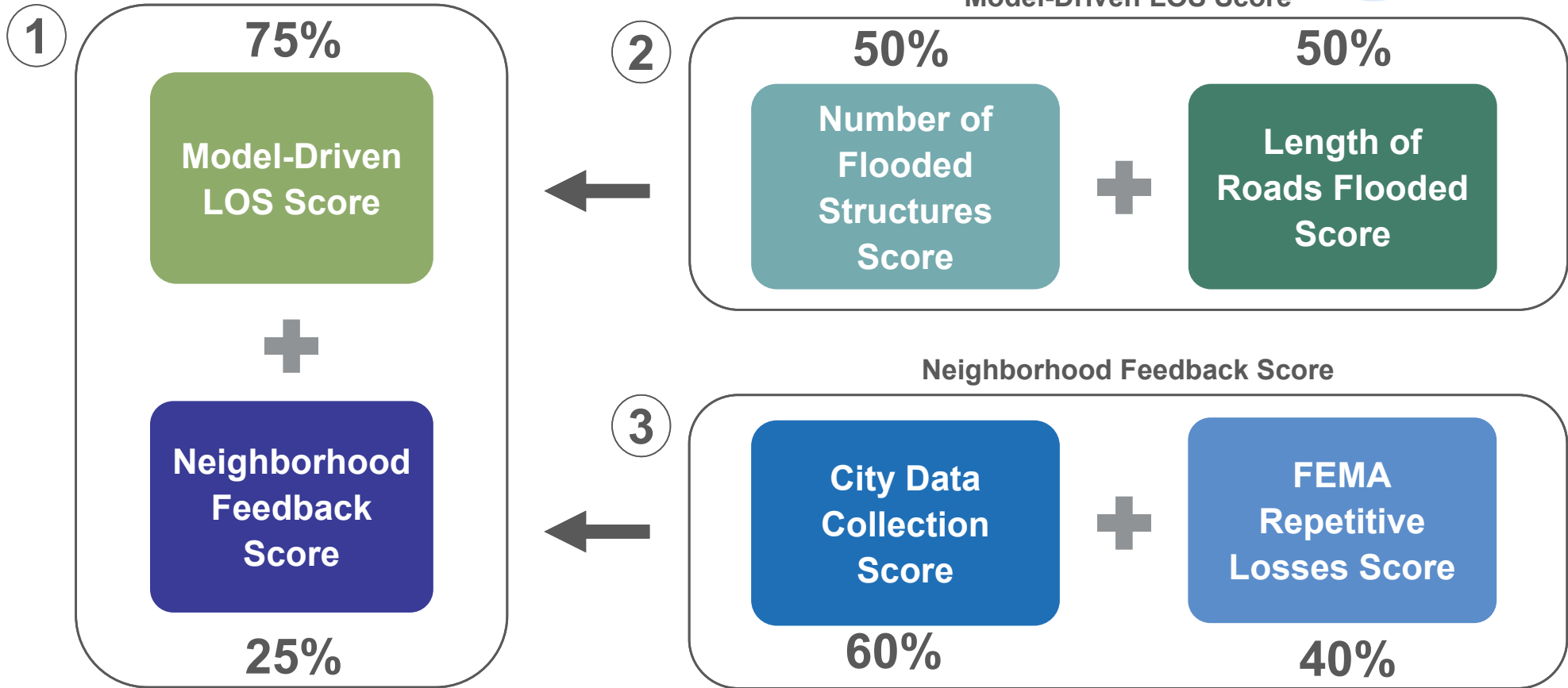
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## Next Steps

# The three primary decisions affecting prioritization



City Commission Input





# Questions