FloodStat
Increasing the City’s Resilience to Flooding, SLR, and Storm Surge.
PURPOSE

Establish accountability around the Mayor’s priorities.

Foster an environment for open, collaborative discussion so everyone WINS.

Represents a strong partnership between the Mayor’s Office and department leadership and their shared interest in using data to drive performance and decision-making.
TIDEEYE: LOCAL TIDE TRENDS
<table>
<thead>
<tr>
<th>KPI 1: No preventable loss of life or injuries during a flood event.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KPI 2: Reduce flood damage to private property.</td>
</tr>
<tr>
<td>KPI 3: Reduce the economic impact of SLR and flooding events.</td>
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<tr>
<td>KPI 4: Reduce the flood risk to the City.</td>
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<tr>
<td>KPI 5: Reduce the flood risk to the City through Community Activism.</td>
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</table>

**KEY PERFORMANCE INDICATORS (KPI)**
TRACKING OUR PROGRESS

New webpage for PriorityStat:  
http://innovate.charleston-sc.gov/prioritystat/

Each indicator will have a web page to include:

- Significance
- Data tracking with target/goal(s)
FLOODPLAIN MANAGER: CRS

KPI 2: Reduce the flood damage to private property.
Goal: Improve the City's CRS Rating to #4 by 2023.
ACTIVITY 520: ACQUISITION AND RELOCATION

Purpose: to incentivize communities to remove or relocate buildings out of the Special Flood Hazard Area, which may provide the following benefits:

- Removes people and property from the path of the hazard
- Creates additional open space which may further reduce flood hazards, provide community benefit, and count towards CRS credit in other areas.
- Reduces flood insurance expenditures

Flood-prone buildings with a higher risk receive more credit for removal
ACTIVITY 520: PERFORMANCE

2015 cycle visit: 0 points

Since 2015, the City has removed nearly 50 flood-prone homes from the SFHA through FEMA’s Hazard Mitigation Assistance (HMA) grant programs.

2020 cycle visit: nearly 300 points

These points will continue to increase in the future as the City continues to participate in flood hazard mitigation projects. The maximum credit that can be received is 2,250 points.
Credit is awarded for buildings in each of the following categories:

- Buildings acquired or relocated (bAR)
- Buildings on the Repetitive Loss list (bRL)
- Buildings on the Severe Repetitive Loss list (bSRL)
- Critical facilities (bCF)
- Buildings in the V Zone (bVZ)
ACTIVITY 520: CREDIT CALCULATION

Credit is awarded per mitigated building in each element category. A multiplier is awarded in each category. **Mitigated buildings with higher risk and greater community benefit receive more credit:**

- #bAr x3
- #bRL x6
- #bSRL x9
- #bCF x6
- #bVZ x4.5

A building can only be credited under one category
EXAMPLE

46 building acquisitions have been completed since 2015
21 were Repetitive Loss
16 were Severe Repetitive Loss

Credit:
- bAR= 9
- bRL= 21
- bSRL= 16
- bCF= 0

Total: c520= (bAR x 3)+(bRL x 6)+(bSRL x 9)+(bCF x 6)+(bVZ x 4.5)

\[ c520= 297 \text{ points} \]
FLOODPLAIN MANAGER: REPETITIVE LOSS

**KPI 2:** Reduce the flood damage to private property.
**Goal:** Actively reduce the number of repetitive loss properties.

Almost half of all flood insurance claims (in dollars) since 1971 have occurred in the last 10 years.

<table>
<thead>
<tr>
<th>Type:</th>
<th>Count (as of 2018)</th>
<th>Percentage of Total SFHA Properties*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repetitive Loss</td>
<td>742</td>
<td>3%</td>
</tr>
<tr>
<td>Severe Repetitive Loss</td>
<td>82</td>
<td>&lt;0.5%</td>
</tr>
</tbody>
</table>

*24,324 parcels within the 2004 SFHA developed with 1 or more buildings*
PUBLIC SERVICE

Transitioning to a more fuel-efficient fleet

Quick Wins

- Identify vehicles appropriate for replacement with Prius or similar
- Audit to identify opportunities for sharing fleet resources and appropriate vehicle type for positions/needs

Long Term

- Convert to electric (greener) vehicles
- Current challenge is charging infrastructure
AUTOS & SPORT UTILITY VEHICLES ELIGIBLE FOR REPLACEMENT IN 2021

Vehicles by Vehicle Type
- Sports Utility Vehicle: 5 (33%)
- Automobile: 10 (67%)

Vehicles by Fuel Type
- Count of Equip No.: 15
- Average of Mileage: 65K
- Average Vehicle Age: 15

Vehicles by Department and Type
- Type: Automobile, Sports Utility Vehicle
<table>
<thead>
<tr>
<th>Month</th>
<th>Departments</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 2020</td>
<td>Police</td>
</tr>
<tr>
<td>December</td>
<td>Fire</td>
</tr>
<tr>
<td>January 2021</td>
<td>Public Service / Stormwater Management</td>
</tr>
<tr>
<td>February</td>
<td>Sustainability / Housing</td>
</tr>
<tr>
<td>March</td>
<td>Police / Planning</td>
</tr>
<tr>
<td>April</td>
<td>Fire / Traffic &amp; Transportation</td>
</tr>
<tr>
<td>May</td>
<td>Floodplain Manager</td>
</tr>
<tr>
<td>June</td>
<td>Capital Projects</td>
</tr>
<tr>
<td>July</td>
<td>BREAK</td>
</tr>
<tr>
<td>August</td>
<td>Public Service / Stormwater Management</td>
</tr>
<tr>
<td>September</td>
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NEXT FLOODSTAT MEETING
Thursday, November 5th