Welcome

CFRTF Ad-Hoc Committee Prioritization Framework

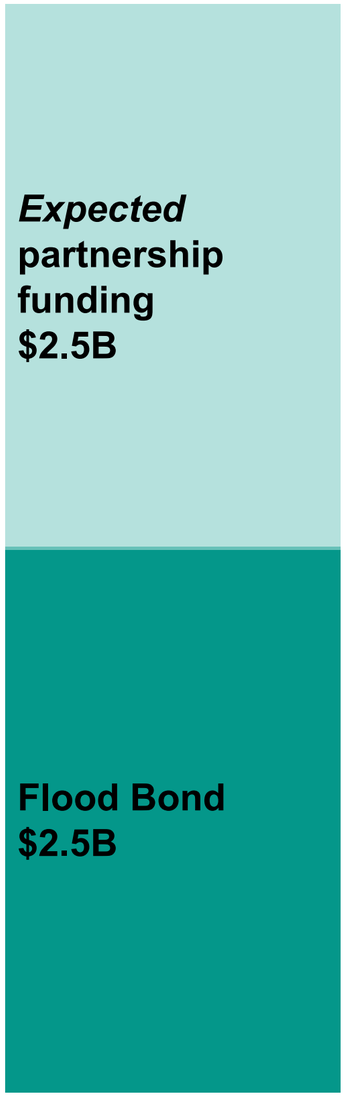
January 19, 2022 | 12-2pm

AGENDA

- Outline of Proposed Prioritization Framework Revisions
- Discussion Questions + Timeline
- Break
- Public Comment
- Committee Discussion + Recommendation Development
- Wrap Up

Prioritization Framework

2018 Flood Bond Projects



$5 Billion for

- Traditional infrastructure projects
- Storm repairs and restoration of channel capacity
- Subdivision drainage improvements
- Floodplain preservation including ROW acquisition
- Flood Warning Systems
- Floodplain Mapping Updates (MAAPNext)
- Buyouts

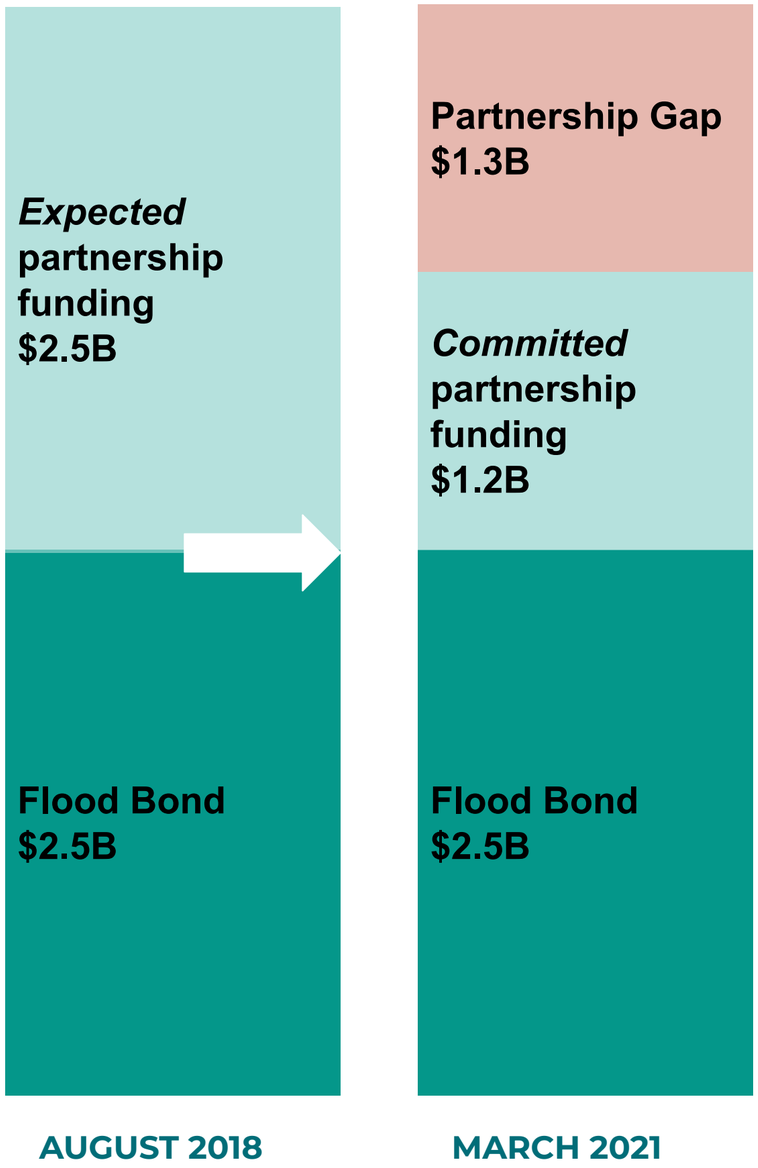
Purpose of the 2019 Prioritization Framework

- “Worst First”
- Prioritize the start of projects, all projects funded

What was not ranked:

- Projects that had already started *
- Subdivision drainage projects
- Countywide projects

Financial Situation



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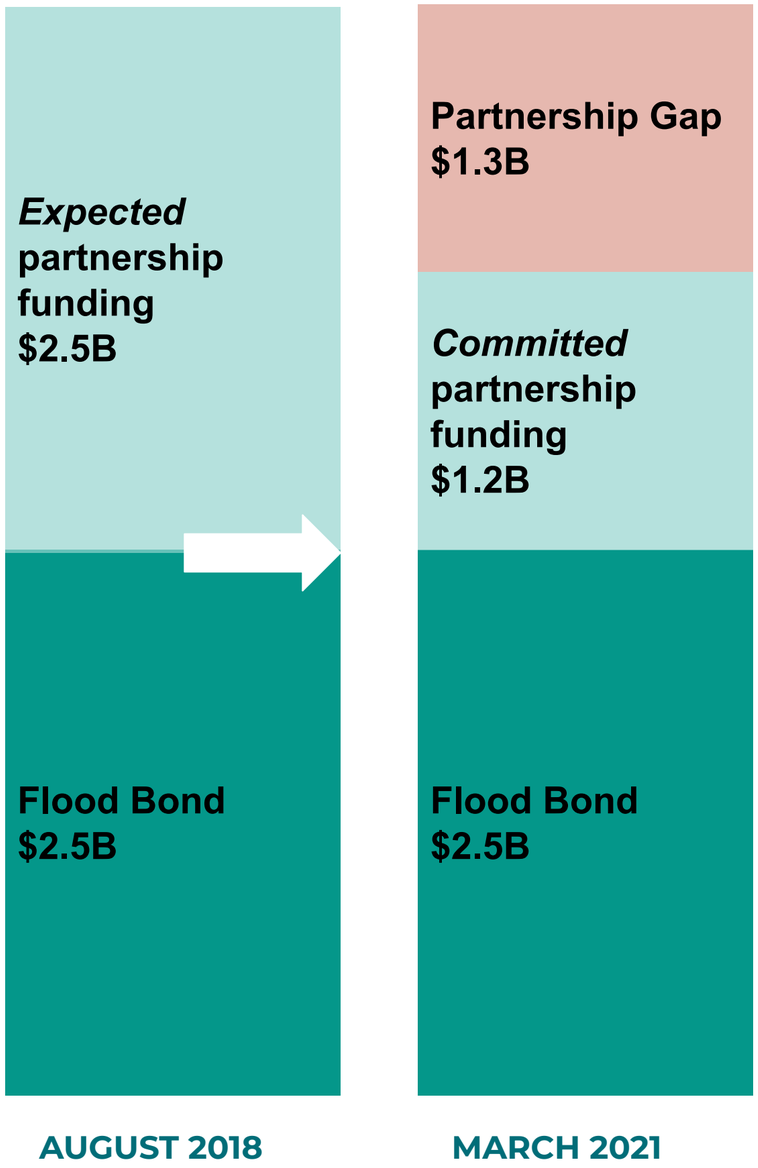


Which watersheds are impacted?
In order of magnitude:

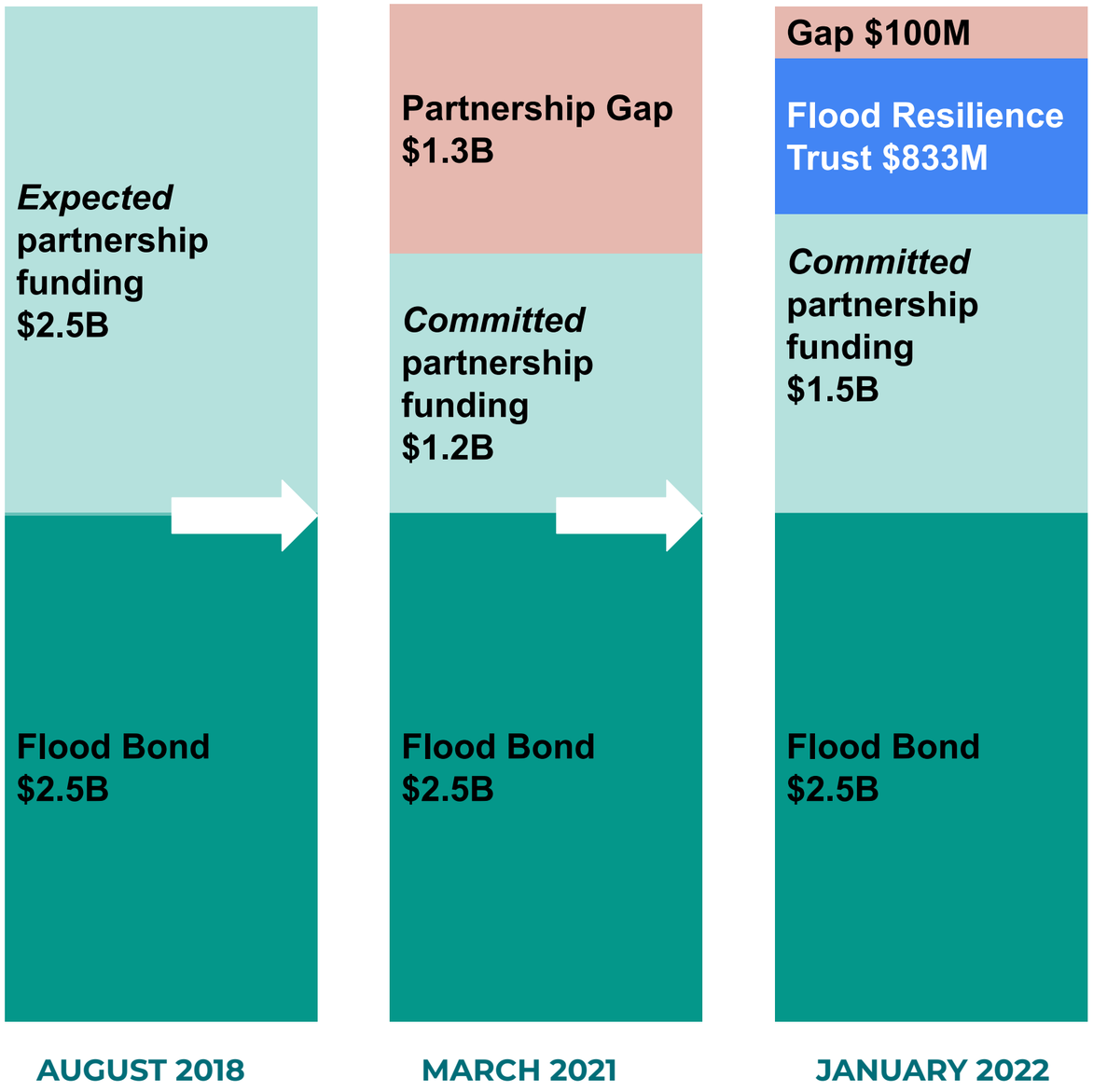
Greens Bayou
Halls Bayou
San Jacinto River
Sims Bayou

Addicks Reservoir
White Oak Bayou
Clear Creek
Brays Bayou
Armand Bayou

Buffalo Bayou
Spring Creek
Little Cypress Creek
Cypress Creek
Galveston Bay
Jackson Bayou

If not listed, minimal or no partnership funding need

Financial Situation



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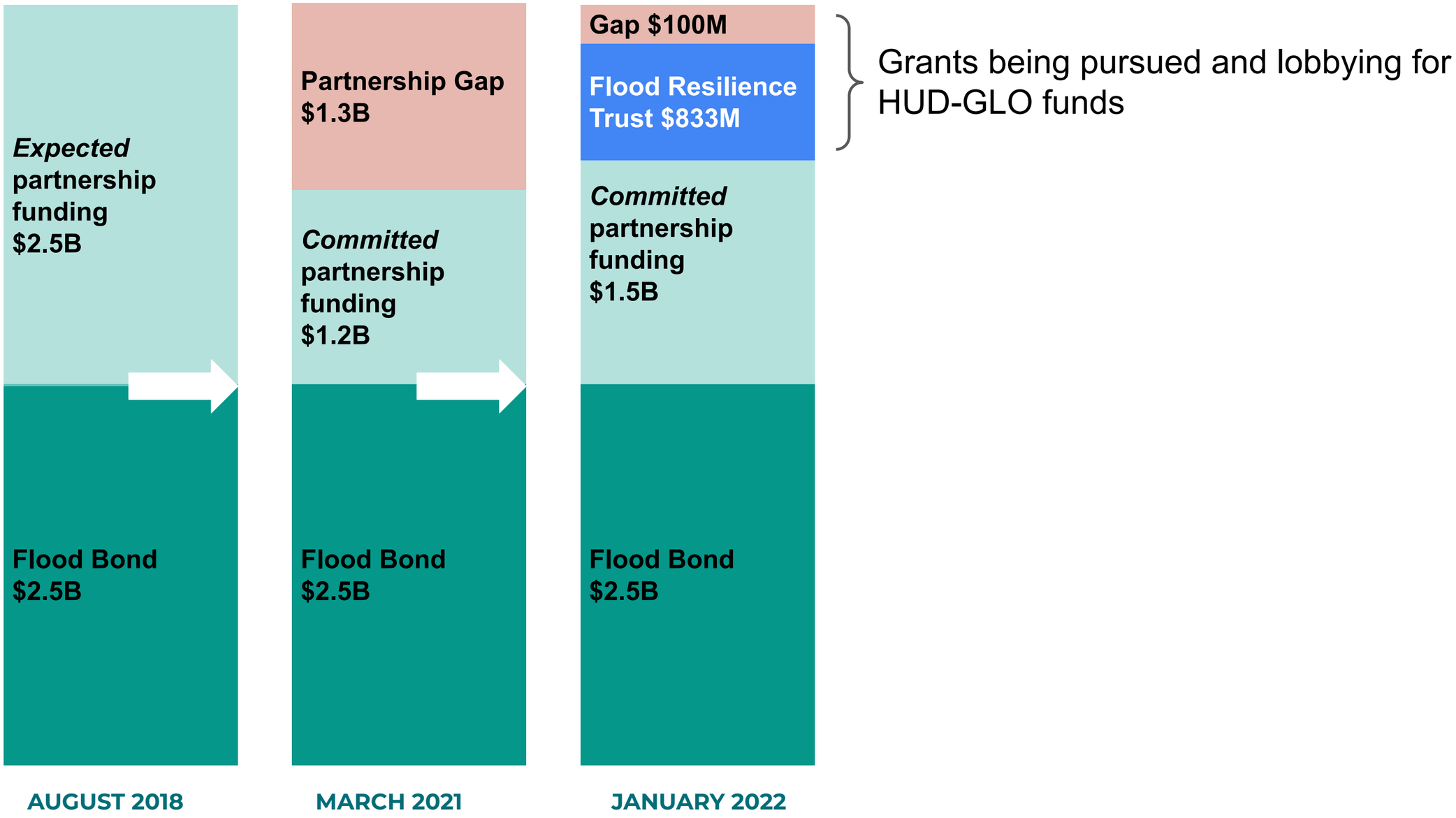
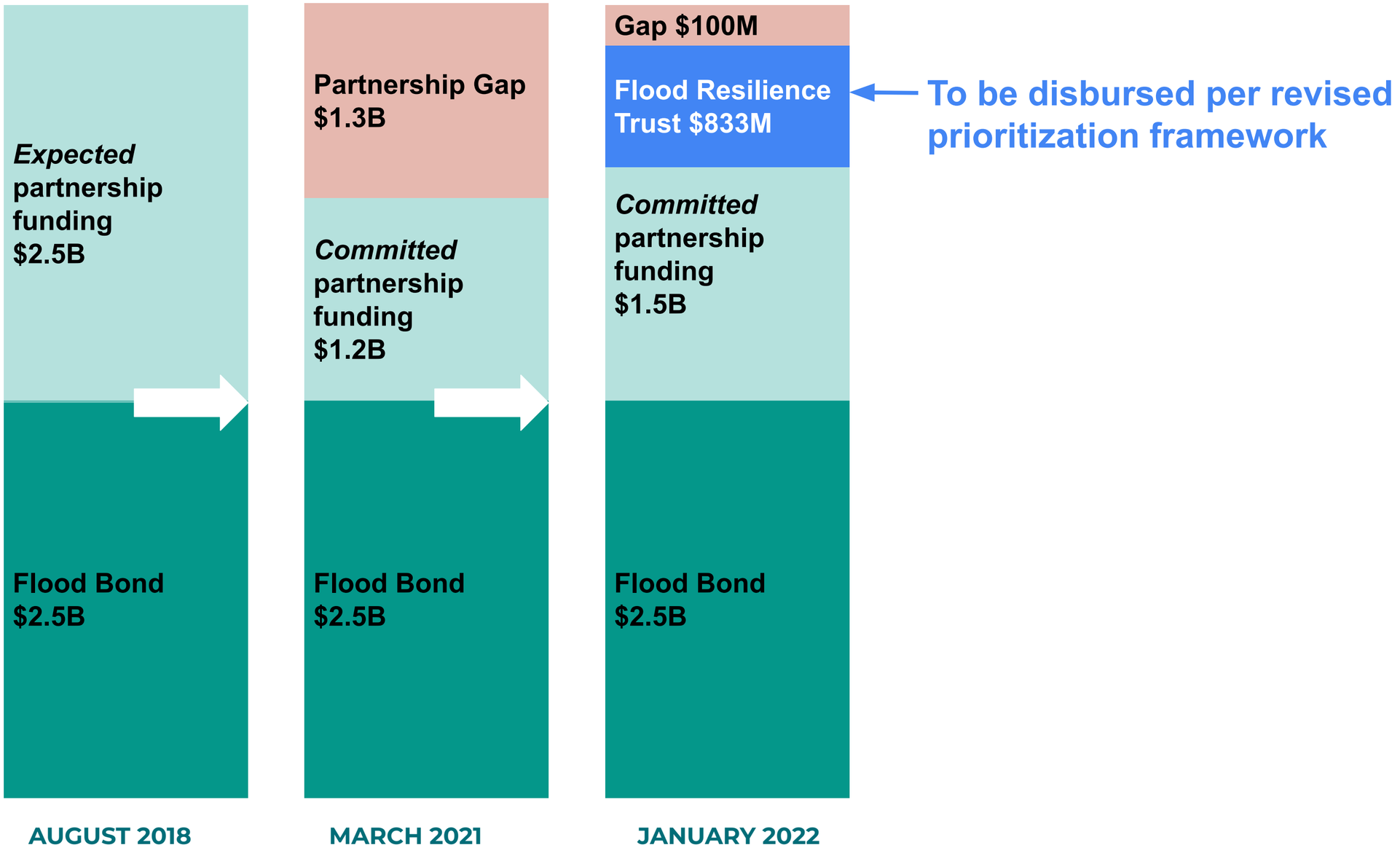


Grants being pursued and lobbying for HUD-GLO funds

Financial Situation



To be disbursed per revised prioritization framework

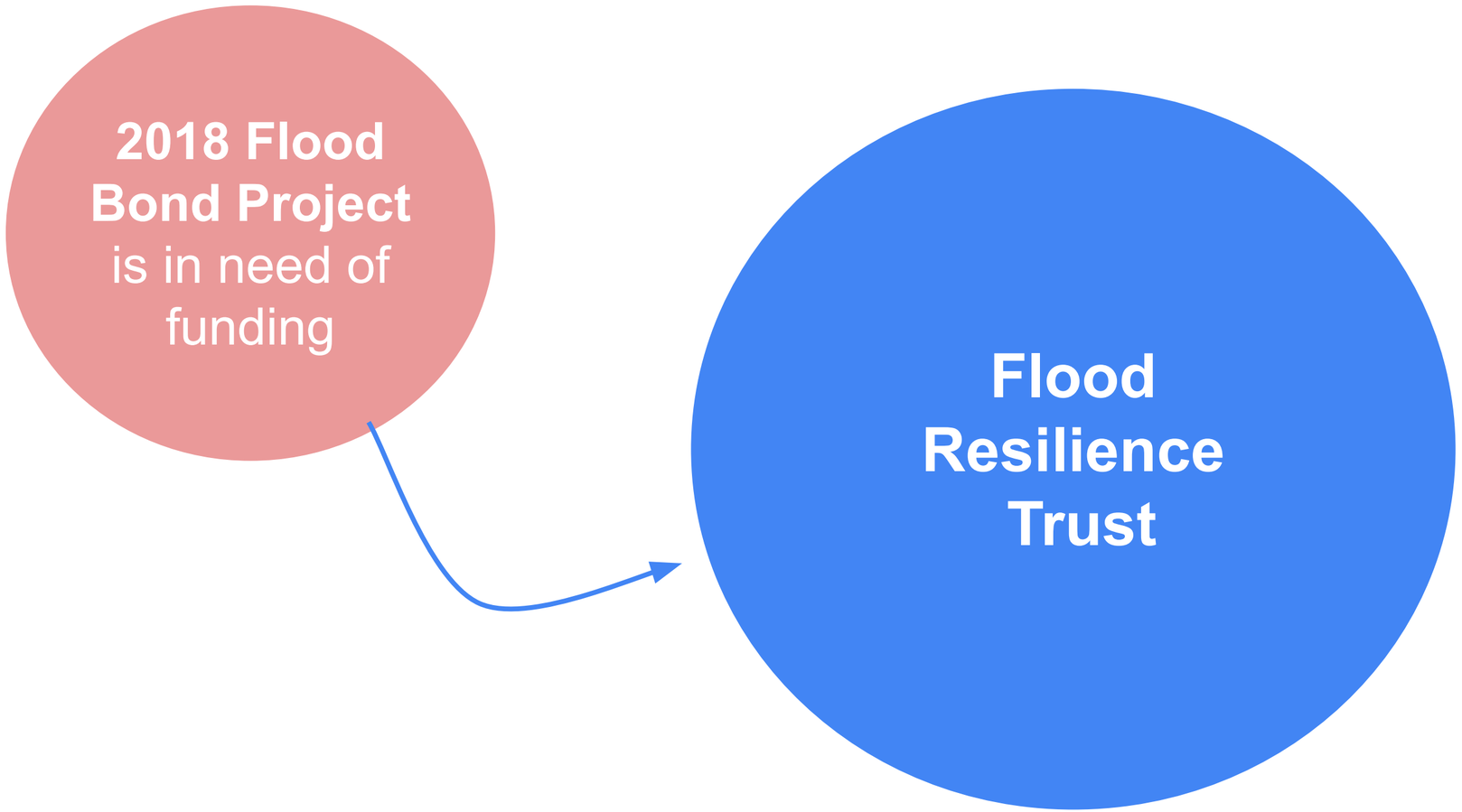
Use of the prioritization framework now

2018 Flood Bond Project is in need of funding

Flood Resilience Trust

Prioritization Framework is utilized to identify when the funding can meet the gap

Use of the prioritization framework now



Which watersheds benefit?
In order of magnitude:

Greens Bayou
Halls Bayou
San Jacinto River
Sims Bayou

Addicks Reservoir
White Oak Bayou
Clear Creek
Brays Bayou
Armand Bayou

Buffalo Bayou
Spring Creek
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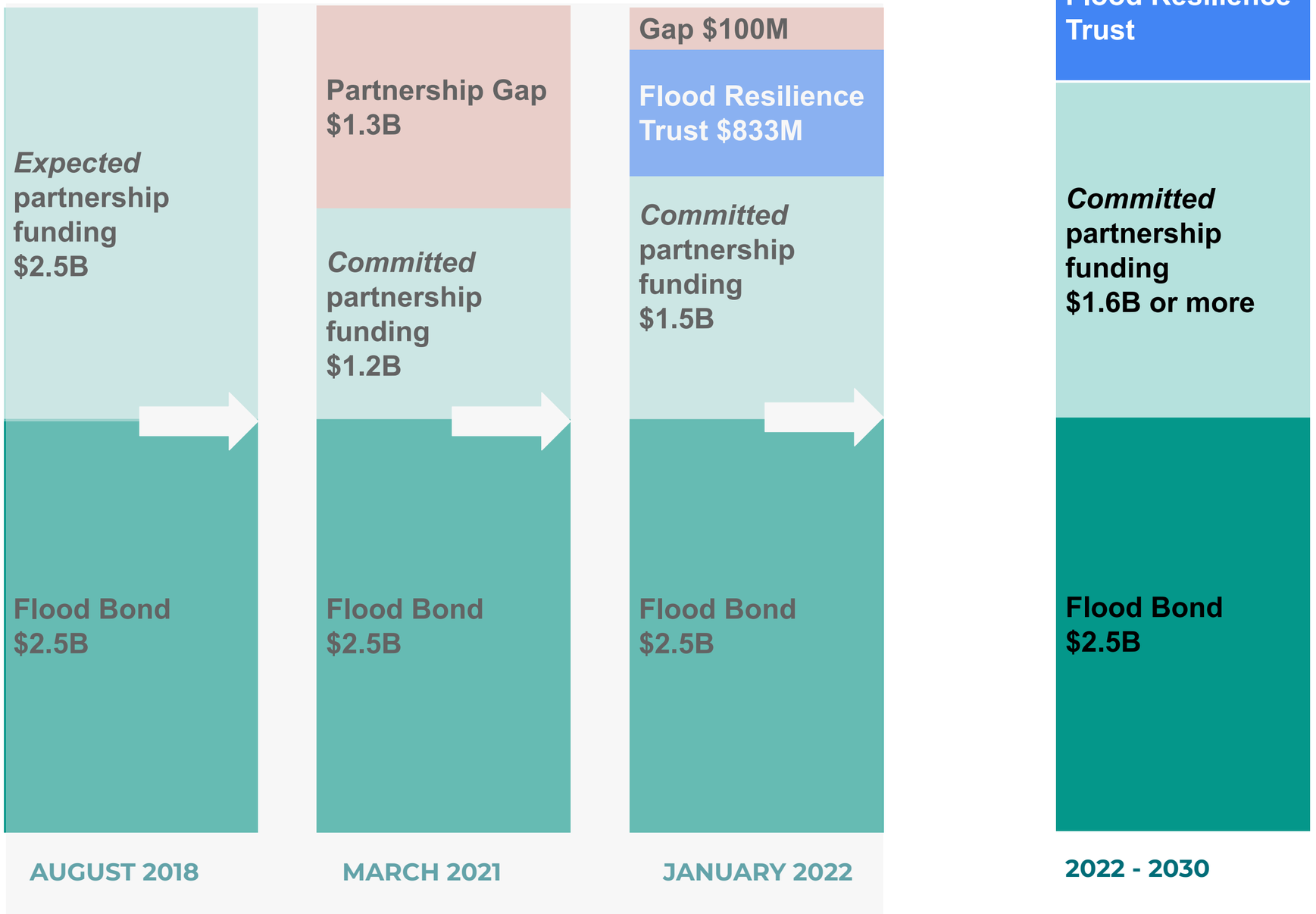
Jackson Bayou

If not listed, minimal or no partnership funding need

What happens if we close the gap?



Flood Resilience Trust and Beyond

2018 Flood Bond Project is in need of funding

Flood Resilience Trust

Flood Resilience Plan + future Projects

Prioritization Framework is utilized to fund new projects

Clarifying questions?

PROPOSED REVISIONS

Measure	Change	New Weight
Flood Risk Reduction	Eliminated	0%
Benefits Efficiency (formerly "Project Efficiency")	Total cost of project to County / structural benefits (and thus people) in 100-year rainfall	45%
Partnership Funding	Eliminated	0%
Long-Term Maintenance Costs	No Change	5%
Subtotal – Technical and Economic Factors		**50%**
Environmental Impacts	No Change	5%
Potential for Multiple Benefits	No Change	5%
Existing Level of Service	Add comparable measure for local drainage projects based on documented instances of flooding	20%
Social Vulnerability Index	No Change	20%
Subtotal- Equity and Environmental Factors		**50%**
GRAND TOTAL		**100%**

2019 Prioritization Framework

Measure	Description	Weight
Flood Risk Reduction	% of structures in a watershed from which the 100-year floodplain is removed	25%
Project Efficiency	Total cost of project / structures benefitted in 100-year floodplain	10%
Partnership Funding	Estimated partner funding as % of project cost	10%
Long-Term Maintenance Costs	Long-term operating costs of project	5%
Subtotal – Technical and Economic Factors		**50%**
Environmental Impacts	Does project require Corps permit? Does it require mitigation credits? Does it significantly avoid environmental impacts?	5%
Potential for Multiple Benefits	Does project provide recreational or environmental benefits?	5%
Existing Conditions – Drainage Level of Service	Based on a capacity of Flood Control District channels to manage a flooding event. Lower level of service means a higher score.	20%
Social Vulnerability Index	CDC measure of communities' ability to survive and recover from a disaster	20%
Subtotal- Equity and Environmental Factors		**50%**
GRAND TOTAL		**100%**

PROPOSED REVISIONS

Benefits Efficiency = $\dfrac{\text{Cost of Project - } \textbf{Committed} \text{ Partner Funding}}{\text{Structures benefitted in a 1\% event}}$

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1. Do you recommend including **committed partnership funding** as a factor?

PROS

- **Allows the County to use a small amount of local funds to receive a large amount of federal funding.**
- **Allows the County to have a measure of how efficiently local funds are being utilized.**

CONS

- **Projects that have a hard time accessing partnership funds will score less. This can be the case for projects that have a low benefit cost ratio.**

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2. Do you recommend using the **number of structures** to measure the number of people benefitted?

PROS

- **Structures is the best available proxy for people.**

CONS

- **Limited in our ability to tell apart single family vs. multifamily benefits**

ASSIGNED VALUES

Project Efficiency Scoring (OLD)

Projects with Structures

Greater than 200,000 = 2
200,000 to 100,000 = 4
100,000 to 50,000 = 6
Less than 50,000 = 10

Projects **without** Structures

- Stabilization or restoration or rehabilitation projects = 2
- Investigation or study type projects = 3
- Environmental Wetland Mitigation Bank Projects = 5
- Floodplain preservation projects = 6

Benefit Efficiency Scoring (REVISED)

Projects with Structures

Greater than 150,000 = 1
150,000 to 41,000 = 4
41,000 to 9,000 = 7
Less than 9,000 = 10

Projects **without** Structures

- Stabilization or restoration or rehabilitation projects = 1
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Clarifying questions?

Discussion Priorities

1. Do you recommend including **committed partnership funding** as a factor?
2. Do you recommend using the **number of structures** as a measure of number of people benefitted?
3. Do you recommend the **proposed assigned value** for projects without structures?
4. Do you recommend the **proposed weighting** for each item?
5. What **level of public input** do you recommend on this process?
6. How often should the **Prioritization Framework be revised?**
7. Are there any other recommendations you'd like to make?

BREAK

PUBLIC COMMENT

DISCUSSION

Questions

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2. Do you recommend using the **number of structures** as a measure of number of people benefitted?
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MEASURE STRUCTURES?

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GRAND TOTAL		

CONSENSUS:
xxx

ASSIGNED VALUES?

[redacted]

[redacted]

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100,000 [redacted] 6
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[redacted]

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Benefit Efficiency Scoring (REVISED)

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CONSENSUS:
xxx

PROPOSED WEIGHTING?

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GRAND TOTAL		

CONSENSUS:
xxx

LEVEL OF PUBLIC INPUT?

CONSENSUS:
xxx

HOW OFTEN SHOULD THE PRIORITIZATION FRAMEWORK BE REVISED?

CONSENSUS:
xxx

CONSENSUS / NEXT STEPS

CONSENSUS:
xxx