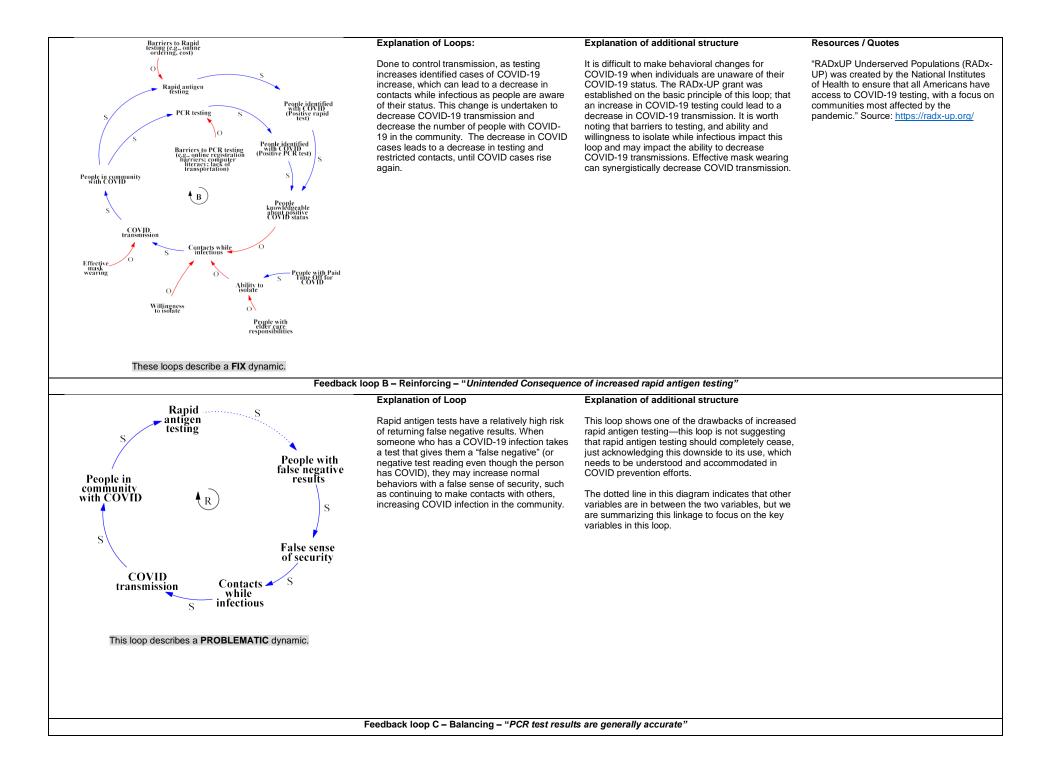
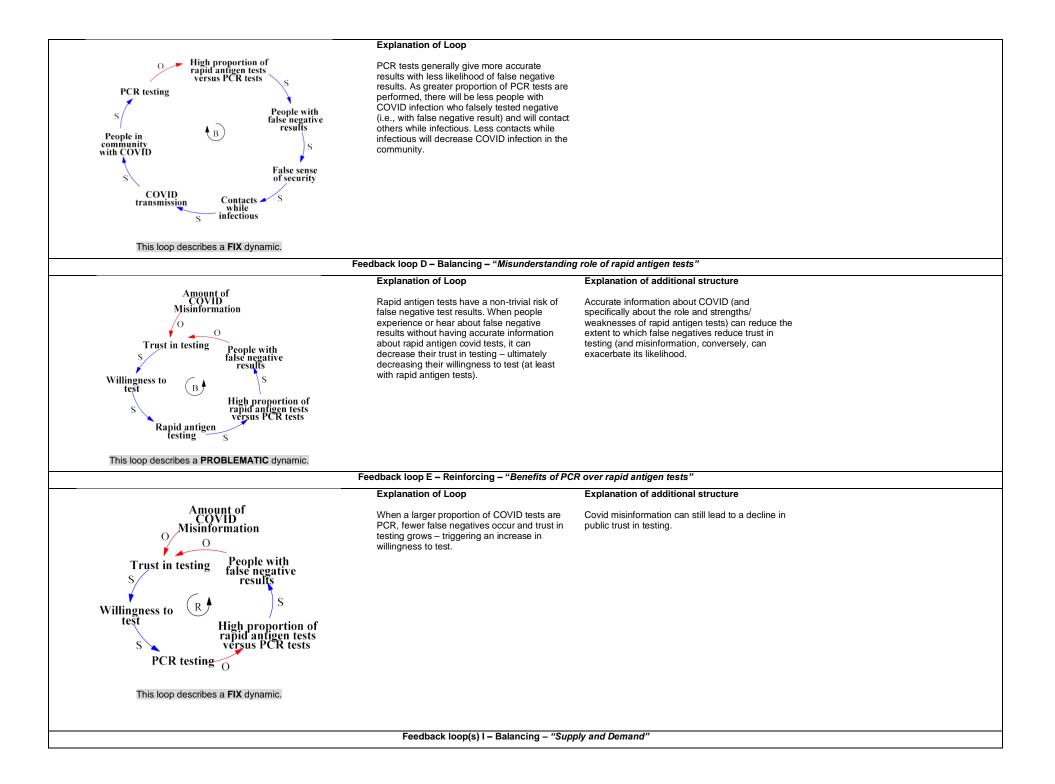
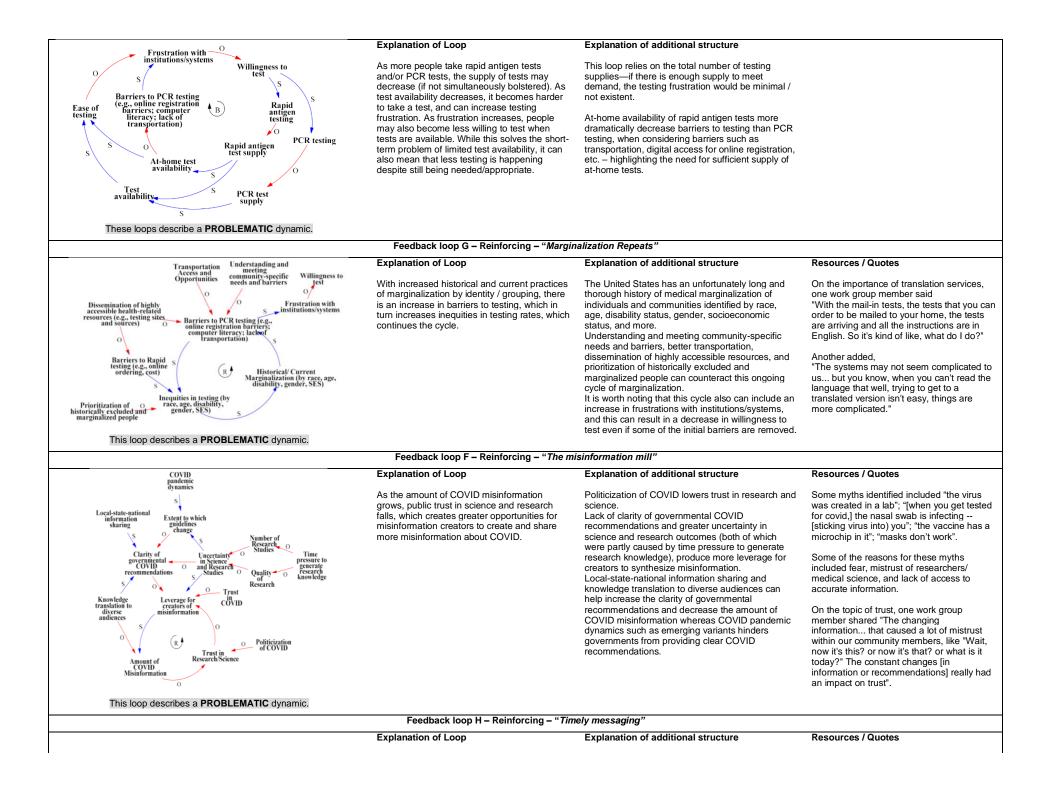
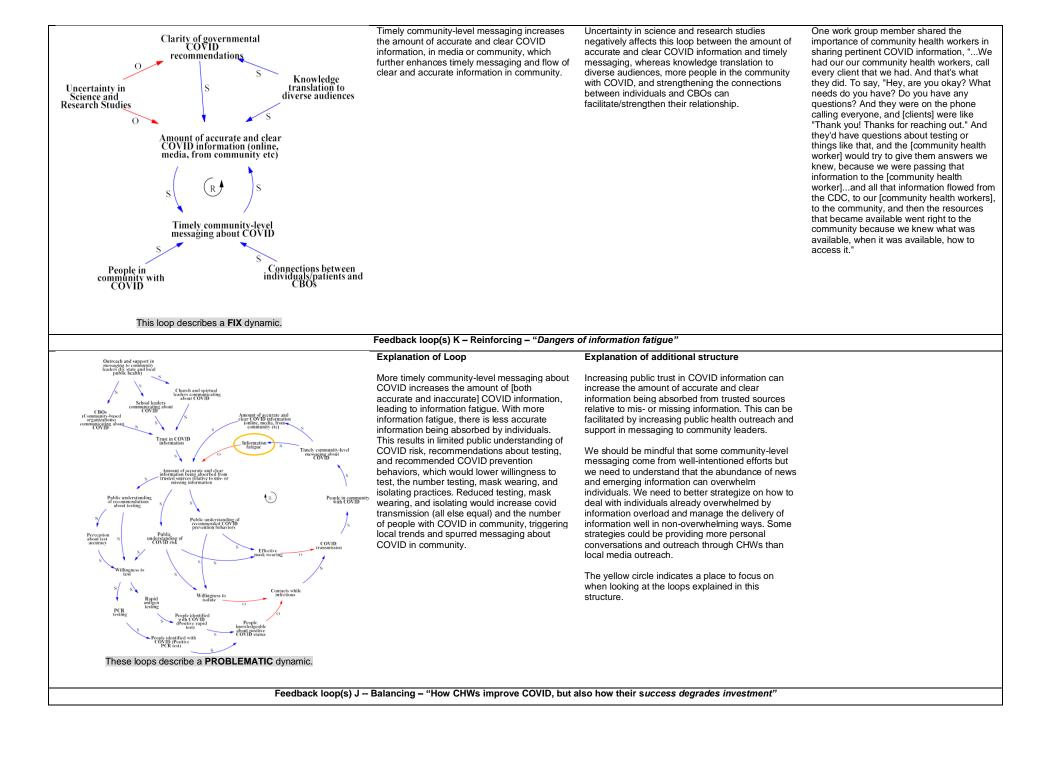
This document walks through feedback loops and dynamics described by the Building Community Capacity Workgroup within RADx-UP between January and August 2022 believed to be most important in shaping COVID testing in US communities. The group focused on the critical role and determinants of missing/misinformation and willingness to test.

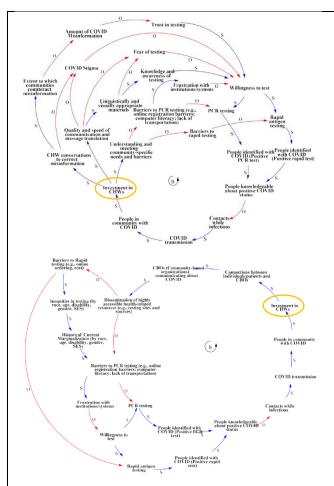
Visualization of Loop and Related Structure	Explanation of Loop	Explanation of additional structure	Resources / Quotes
Here, the segment of the larger causal loop diagram being described in he row is presented.	This section explains the loop structure in lay terms.	Any additional information in the diagram outside of the focal feedback loop is described here.	Quotes can bring the loop to life – they represent how stakeholders talked about this loop structure in their community. Resources can help you plan action.
	Example Feedback Loop	15	
Eggs S Chickens and eggs (f) Hens/Roosters O Chickens attract predators (limit flock growth) Predators EXAMPLE NOT RELATED TO COVID	An increase in hens and roosters triggers an increase in the number of eggs laid. Some of these eggs hatch, increasing the number of hens and roosters. This loop describes the population growth of hens/roosters. Working the other way, the increasing number of chickens attracts predators, which then will prey on them and limit population growth until the flock is no longer desirable (allowing the population to recover).	A feedback loop is created when a chain of causal linkages circles around to affect a variable earlier in the loop over time closing the loop. A reinforcing loop (indicated with an "R" in the middle of the loop) illustrates a feedback loop where changes are reinforced over time, leading to exponential increased or decreases in connected variables. A balancing loop (indicated with a "B" in the middle of the loop) illustrates a feedback loop where changes are counteracted or balanced over time. An "S" on the arrow (along with blue color) indicates that the two connected variables move in the same direction (i.e., if the first variable increases in size/quantity/etc., the second variable also increases. And, if the first variable decreases, the connected variable decreases). An "O" on the arrow (along with red color) indicates that the two variable move in opposite directions (i.e., if the first variable increases in size/quantity/etc., the connected variable decreases; if the first variable decreases, then the connected variable increases in size/increases. And is the second variable decreases; if the first variable decreases, then the connected variable increases).	Drawing Causal Loop Diagrams: https://thesystemsthinker.com/pocket-guide guidelines-for-drawing-causal-loop- diagrams/











These loops describe a **PROBLEMATIC** dynamic.

## Explanation of Loop

As community COVID transmission began to increase, so did the funding for COVID-19 mitigation strategies. Community health worker models can help mitigate misinformation, public fear, COVID stigma, mistrust, and frustration with health institutions/systems while meeting communityspecific needs and barriers partly through connecting individuals with community-based organizations which can enhance their communication about COVID and dissemination of highly accessible healthrelated resources. During times in which COVID-19 may appear to be under control, funding for programs, like those who use community health worker models, may decrease. Decrease in funding decreases the successes that have kept COVID-19 transmissions low (such as creating linguistically and appropriate outreach materials, decreasing stigma, etc)

# Explanation of additional structure

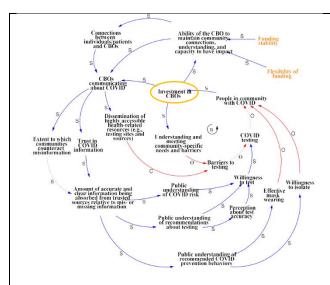
This loop shows the significance of what many community-based organizations have been explaining to funders: maintaining funding outside of an emergency can sustain or maintain healthy communities.

The yellow circles indicate places to focus on when looking at the loops explained in this structure.

### Resources / Quotes

Several work group members have discussed that community health workers are not compensated enough even in times of emergency, and that continued funding and increased funding would support healthier communities.

Feedback loop(s) K -- Balancing -- "How CBOs improve COVID, but also how their success degrades investment"



These loops describe a **PROBLEMATIC** dynamic.

#### Explanation of Loop

#### Investment in community-based organizations (CBOs) can ultimately lead to an increase in COVID testing and a decrease in COVID cases through understanding and addressing community-specific barriers including barriers to testing and engaging community connections. This can enhance the amount of accurate and clear information being absorbed by individuals relative to mis- or missing information.

As the efforts of CBOs and other models continue and times arrive in which COVID-19 is under control, funding for programs supporting CBOs and other efforts may decrease which can possibly halt the successes that have kept COVID-19 transmissions low.

#### Explanation of additional structure

This voices the necessity of sustained or stable funding so that CBOs and other programs can sustain their efforts and be prepared sufficiently and early enough for the unknown, disasters, or emergencies.

Better flexibility of funding (i.e., allowing work group members to use and allocate their funding as needed within their approved program budget) can also allow CBOs and other programs to maintain their efforts and successes.

The dotted lines in this diagram indicate that other variables are in between the two variables, but we are summarizing this linkage to focus on the key variables in this loop.

The yellow circles indicate places to focus on when looking at the loops explained in this structure.

### Resources / Quotes

The following comments are aggregated from several community partners and do not necessarily reflect one institution or another. Some community partners expressed the difficulty of voicing concerns with funders for fear of not being funded in the future.

Several work group members voiced the need for funding to be directly correspond to community requests—including money for food during events and community gathering. If federal monies do not provide the requested resources, community-based staff have to pull from their own pockets, with one community partner saying, "We keep doing it because we love the community we serve".

Stable yet flexible funding allows for cultural responsiveness. "When you give this [service] to a community, it's our pride! That's why we want to make it work... that comes with a lot of responsibilities for us... funding for food and cultural stuff is not that much," one community partner explained, when looking at the overall budget, but those costs can be prohibitive for community partners staffing community-based organizations. On the topic of providing meals for study enrollees, community partner explained, "For those relationships to be strengthened, that's what we need".

For an example of a community in which food is particularly crucial, "We are going to expect our community members who are coming from the field, to not give them food would be a sin".

When asked what more flexible funding could provide besides food, community members mentioned training for community health workers, technology resources, professional development / conferences, relationship building events, and unforeseen needs that pop up in an ever-changing environment.

On the topic of what could help, community partners suggested more accountability for academic institutions stating, "Many of them don't know anything about your community... so who ends up doing it? It's you [fellow CBO staff] and me" CBOs staff suggested being more involved in writing the initial budgets and having more monetary decision making power.

The image below is the entire causal loop diagram, including the loops from the table above and with additional elements. This image helps us see how the loops are all interconnected.

