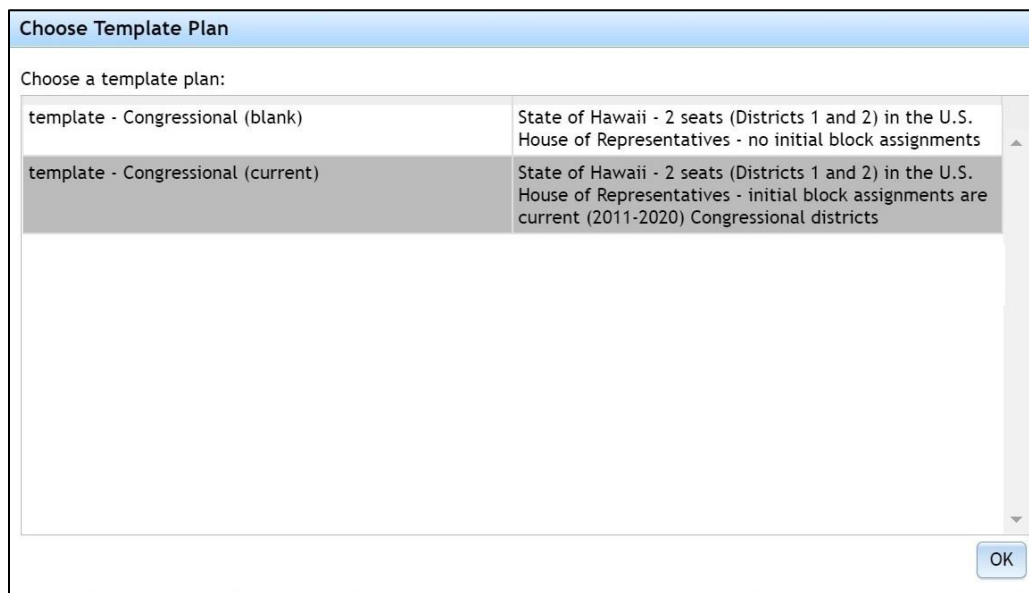Hawaii Redistricting Online assists the Hawaii Reapportionment Commission, Advisory Councils, advocacy groups, and the public to create state legislative and congressional redistricting plans following the 2020 U.S. Census.

There is a 25 minute video that describes the steps to create an account and create plans using Hawaii Redistricting Online. If you haven't watched it, here's the link:
   Introduction to Hawaii Redistricting Online (YouTube video)

At the time the video was made there were only two template plans to choose from:

These two template plans were for redistricting Hawaii Congressional districts. One plan was named "(blank)", meaning no census blocks are assigned to a district. The other plan was named "(current)", meaning the census blocks are assigned to their current (2011-2020) districts. Both templates use the Federal Population Base of P.L. 94-171 resident population block-level counts.

On September 9, 2021, the Hawaii Reapportionment Commission approved the Hawaii Population Base of permanent residents to be used for Step 1 – Reapportionment:

```
PERSONS               State     BIU-Oahu  BIU-Hawaii   BIU-Maui  BIU-Kauai
=========================================================================
HI population     1,383,606      945,909     200,090    164,610     72,997
```

Basic Island Unit	Senate	House
BIU - Oahu	17	35
BIU - Hawaii	4	7
BIU - Maui	3	6
BIU - Kauai	1	3

Using the number of seats apportioned to each Basic Island Unit, we can calculate the ideal (target) population for each Basic Island Unit:

2021 Permanent Resident Population Base		Senate	Average	House	Average	Total	Average
State of Hawaii	1,383,606	25	55,344	51	27,130	76	18,205
Oahu Basic Island Unit	945,909	17	55,642	35	27,026	52	18,191
Hawaii Basic Island Unit	200,090	4	50,023	7	28,584	11	18,190
Maui Basic Island Unit	164,610	3	54,870	6	27,435	9	18,290
Kauai Basic Island Unit	72,997	1	72,997	3	24,332	4	18,249
			41.51%		15.67%		0.55%

We can see that while the individual targets for Senate and for House vary widely, when viewed in totality (76 seats representation) they are quite similar, a total deviation of only 0.55%.

For Step 2 – Redistricting, we need to compare the population of each district in a Basic Island Unit with the ideal (target) population for that Basic Island Unit. Using the current (2011-2012) district boundaries, we can calculate the overall (total) deviation for each Basic Island Unit:

```
Overall Plan Deviation Summary
------------------------------

U.S. House                0.60% deviation

State Senate Oahu        30.72% deviation
State Senate Hawaii      15.15% deviation
State Senate Maui        14.33% deviation

State House Oahu         56.17% deviation
State House Hawaii       16.21% deviation
State House Maui         15.73% deviation
State House Kauai         4.64% deviation
```

The overall (total) deviation for State Senate and State House should be less than 10%. As you can see, most are currently well above that threshold.

This where the job of redistricting begins. We need to move district boundaries by assigning census blocks and their associated population to different districts to bring the overall (total) deviation below 10%.

Hawaii Redistricting Online has a set of tools to help you do this. Most users find it easiest to start with the current district boundaries and adjust census blocks from there. Some users like to start from a blank map with no census blocks assigned. So, similar to the Congressional template plans shown earlier, there are template plans for State Senate and for State House for each Basic Island Unit, both blank and current:

      Hawaii State House   (blank) and (current)
      Hawaii State Senate   (blank) and (current)
      Kauai State House   (blank) and (current)
      Maui State House   (blank) and (current)
      Maui State Senate   (blank) and (current)
      Oahu State House   (blank) and (current)
      Oahu State Senate   (blank) and (current)

When you start Hawaii Redistricting Online you will now see these template plans in the "Choose Template Plan window:

Choose Template Plan

Choose a template plan:

Plan Name ⬆	Description
template - Maui State House (blank)	Maui Basic Island Unit - 6 seats (Districts 8 thru 13) in the Hawaii State House - no initial block assignments
template - Maui State House (current)	Maui Basic Island Unit - 6 seats (Districts 8 thru 13) in the Hawaii State House - initial block assignments are current (2012-2020) State House districts
template - Maui State Senate (blank)	Maui Basic Island Unit - 3 seats (Districts 5 thru 7) in the Hawaii State Senate - no initial block assignments
template - Maui State Senate (current)	Maui Basic Island Unit - 3 seats (Districts 5 thru 7) in the Hawaii State Senate - initial block assignments are current (2012-2020) State Senate districts
template - Oahu State House (blank)	Oahu Basic Island Unit - 35 seats (Districts 17 thru 51) in the Hawaii State House - no initial block assignments
template - Oahu State House (current)	Oahu Basic Island Unit - 35 seats (Districts 17 thru 51) in the Hawaii State House - initial block assignments are current (2012-2020) State House districts

OK

If you click on the column title "Plan Name" (red arrow shows where), you will see the listed sorted alphabetically as shown above.

Click on the template plan you want to start with and click "OK". The plan will open and you're ready to start redistricting!