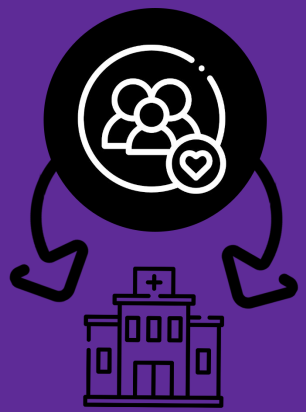
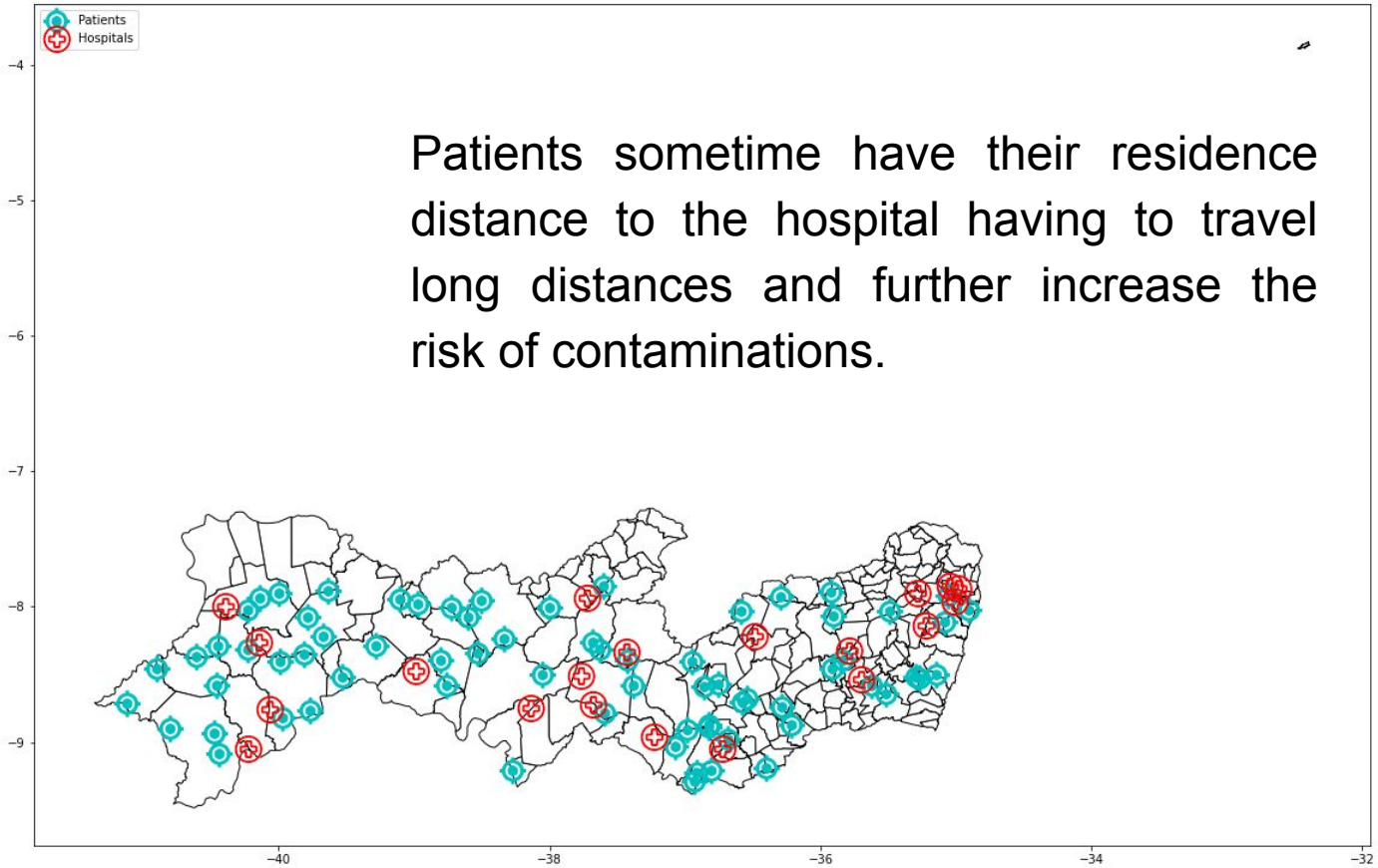
# AssignPH

The real choice



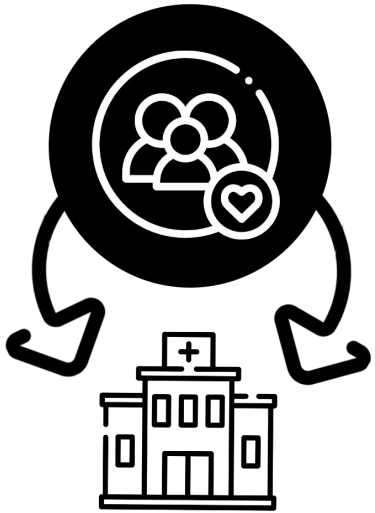
# The problem

In countries like Brazil, there is no logistical system to allocate patients in the best hospitals locations. And countries with economic problems could have the maximum number of people being served in a smaller number of hospitals in order to reduce costs and reduce the level of contamination with other people.




Simulated data localization that mimics the patients and hospital in the state of Pernambuco, Brasil.
The main data has 20 hospitals with 35 slots/hospitals and 70 patients.

# Solution



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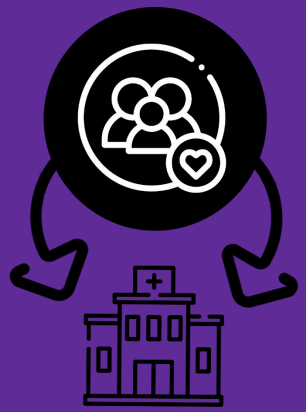
# What is AssignPH?

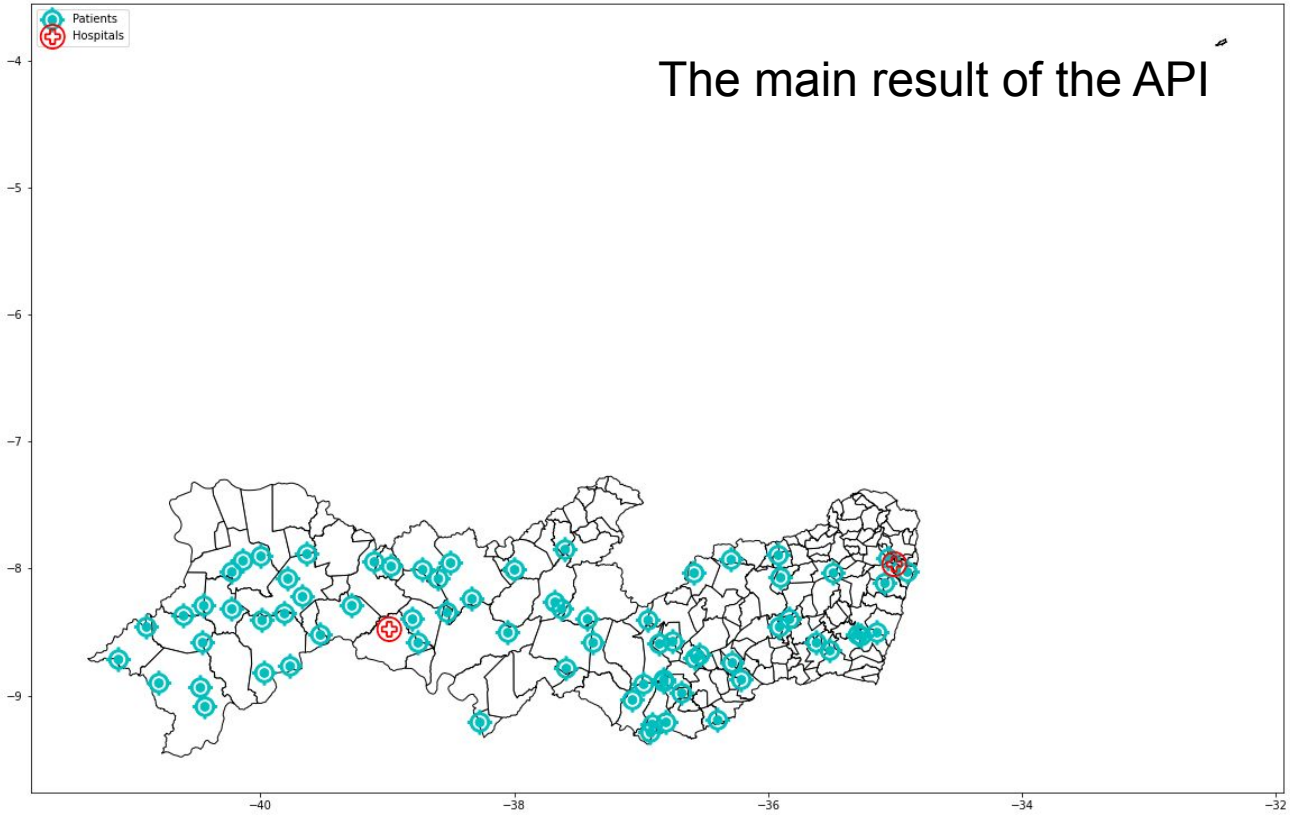
AssingPH is an API(Application Programming Interface) that can be used by customers, such as governments and hospitals, which in its main objective seeks to find the best logistical solution for patient allocation in hospitals, and that each hospital has a limited number of slots.

# How can this be done?



# Our results

As a result, we can reduce hospitals in a way that has a lower cost, a greater allocation of hospitals and people are close to their homes.




Simulated data localization that mimics the patients and hospital in the state of Pernambuco, Brasil.
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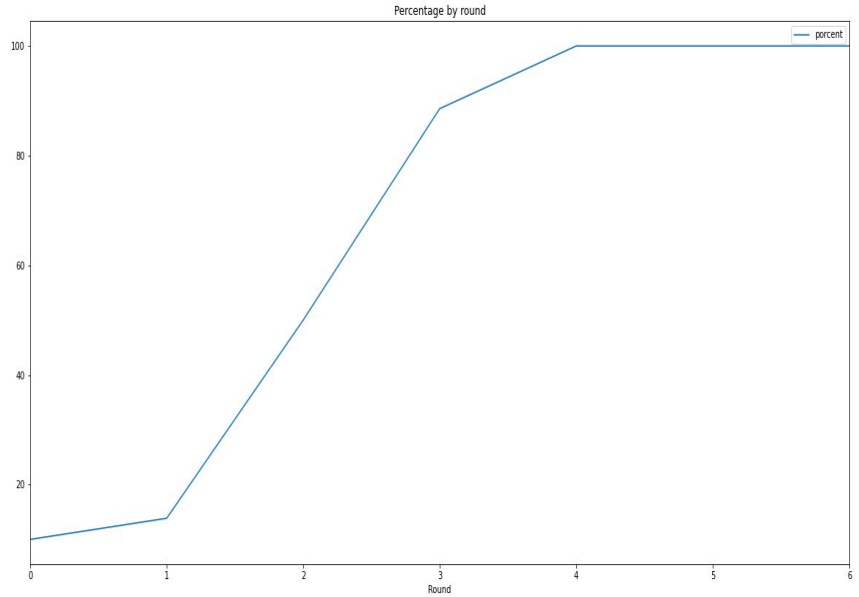
# Our results

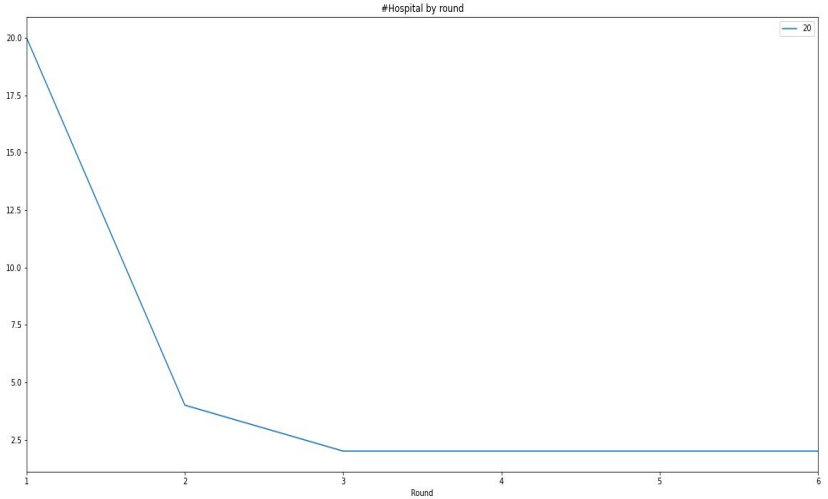
In a system based on rounds we can configure the minimum limit that we want the allocation of the hospital to have.

In our simulation, our values were 80% as a margin for knowing if the result would remain the same.

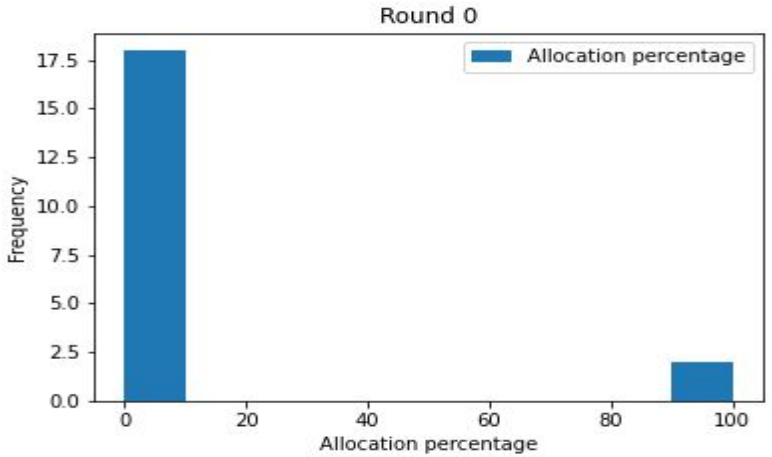


# Our results

As can be seen, the number of hospitals declines over rounds.




And the allocation increases over rounds.



# General resolution

However, depending on the problem model by the user, the API can be generalized for any logistical problem with or without a number of vacancies.

# Thank you

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