

Project Justification

Problem Identification. For each iteration of your problem, please explain how you arrived at your identified problem.

For Iteration 1, I began with a rather broad question, which essentially asked: “What actions should I take?” For Iteration 2 and 3, I provided more information for my problem that is what are the availabilities for shifting of the residents and what are the main causes for these type of destructions and also how to scope on the special budget maintainance for the health response of the residents over there.

Decomposition. For each iteration where you decomposed an identified problem, please explain how this decomposition helped you solve your identified problem.

The decomposition phases were important for me in all three iterations. In Iteration 1, I identified three sub-problems that helped solve the larger problem. In Iteration 2, I identified three more sub-problems. In Iteration 3, I identified one last sub-problem. Together, all of these sub-problems were helpful because they focused in on specific aspects of my larger problem, and they all asked questions that were quantifiable.

Pattern Recognition. For each iteration where you recognized patterns in data, please explain how these patterns helped you solve your identified problem.

For this project, I utilized the pattern recognition phases of all Iterations. This was an important step because it allowed me to identify the exact solutions for my decomposed problems. Once I identified the related solutions or outcomes, the rest of the work was deciding how to choose the appropriate outcome.

Abstraction. For each iteration where you abstracted information, please explain how abstraction allowed you to solve your identified problem.

The abstraction phases were used in Iterations 2 and 3. In Iteration 2, the abstraction phase recognizes that there was no relevant information found after the epidemiological studies were done on psychological impacts on residents due to disasters. In Iteration 3, the abstraction phase recognizes that the important aspect to be immediately considered is to chalk out a detailed plan of action keeping geographical conditions of these regions. These abstractions helped solve my identified problem because it allowed me to focus on relevant information, while ignoring less important information.

Iteration 1

Problem Identification

Extreme rainfall in the first half of August,2018 has caused widespread floods in the Kodagu district of Karnataka. Coming on the back of the unprecedented deluge last year, such heavy downpours are causing recurrent havoc in the coffee hub of the country. What actions should i take to prepare for this heavy rainfall?

Decomposition (How would you break down your problem into sub-problems?)

To make a decision, I should know:-
-What consequences may residents face?
-Changes in environment
-Damage to Infrastructures

Pattern Recognition (Are there related solutions to drawon?)

In August 2018, the Indian state of Kerala received an extended period of very heavy rainfall as a result of a low-pressure system near the beginning of the month being followed several days later by a monsoon depression.The resulting floods killed over 400 people and displaced a million more.

Abstraction (How would you abstract thisproblem?)

To set up your
identified problem

Graphic Organizer



Iteration 2

Problem Identification

Natural disasters such as landslides, destructions caused through heavy rainfall can cause imbalances in normal lives. Also residents may face different disorders. The destruction caused by the rains is worsened by human interventions such as slope modifications and land use changes, which must be controlled.

I need to check for availabilities of shifting the residents from aa particular location and enhance with special budget for the health care of these residents if any affected.

To set up your
identified problem

Decomposition (How would you break down your problem into sub-problems?)

- Displacement and temporary shelter availabilities.
- maintaining special budget for health response by indulging some programmes.
- Prevention for the causes.

Pattern Recognition (Are there related solutions to draw on?)

Kerala has decided to use the Japanese Miyawaki method of afforestation. The Miyawaki method has revolutionised the concept of urban afforestation by turning backyards into mini-forests. Regardless of soil and climatic conditions it has helped create more than 3,000 forests all over the world.

Abstraction (How would you abstract this problem?)

Even though many epidemiological studies have been conducted on psychological impacts of natural disasters previously in India, only little is known about the same after the 2018 floods in this area.

Graphic Organizer



Iteration 3

Problem Identification

Overall diminished growth rate could be observed & it will take couple of decades to recover back to the same position.

Graphic Organizer

Decomposition (How would you break down your problem into sub-problems?)

Audit of finance of relief funds should take place meticulously & at surprise.
Financial scams if found on the same should be severely punished.

Pattern Recognition (Are there related solutions to drawon?)

Abstraction (How would you abstract this problem?)

Important aspect to be immediately considered is to chalk out a detailed plan of action keeping geographical conditions of these regions in mind which takes care of sensitive areas & try to implement the same at the earliest.



To set up your identified problem