PROPOSED SOLUTIONS

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| |  | | --- | | PROBLEM STATEMENT:  The conventional method of testing water quality is to gather samples of water manually and send to the lab to test and analyze. This method is time consuming, wastage of man power, and not economical. | | |  |  |  | | --- | --- | --- | | IDEA / SOLUTION DESCRIPTION:  Cut down on chemicals and use environmentally friendly or organic fertilizers and pesticides. Plant more trees and plants. Do a beach clean-up if you live by the coast or remove plastic from rivers near your home. Finally, the issue of water pollution should always be in the back of your mind during daily activities. |  | NOVELTY/ UNIQUENESS:  The uniqueness of our proposed paper is to obtain the water monitoring system with high frequency, high mobility, and low powered. | | |
| |  | | --- | | SOCIAL IMPACT/ CUSTOMER SATISFACTION:  One of the important factors leading to poverty is shortage of water resource. The shortage of water resource can lead to poor land productivity, low production level and low income level, and can also lead to drinking water shortage and poor life quality. | | | |  | | --- | | BUSINESS MODEL (FINANCIAL BENEFIT):  Reduced drinking water treatment and infrastructure costs. Natural landscapes filter pollutants and protect water quality. ...  Reduced flood mitigation costs. ...  Increased revenues and job opportunities. ...  Increased property values. | |
| |  | | --- | | SCALABILITY OF SOLUTION:  Cut down on chemicals and use environmentally friendly or organic fertilizers and pesticides. Plant more trees and plants. Do a beach clean-up if you live by the coast or remove plastic from rivers near your home | |