

## Md Bodruddoza – 3MT® Presentation

Hello everyone. Before coming here did you know that most of our wet lands rivers are having a water quality crisis? yes this is the case and I will explain why this is happening. There will be 9.4 billion people in 2050. and we need to grow more food so while we grow more food we need to use more fertilizer and pesticides and when we use those particular pesticides it remains in the land for a certain period of time and when we have the rain and snow these get transported to the wetlands sometimes. and in the wet lands there is algae and micro organisms and when they get more food they grow more and they algae bloom. so this is the case for the lake Erie. so as you can see that in the lake Erie there is a huge algae bloom and causing annually 215 million economic loss. causing a specific debt as a well as creating human health impacts like disrupting the drinking water supply. To address this issue there has been a history of implementing pc conservation activities at the ground level however, like implementing laws, protocols, policies and all those there is a confusion in the implementation. Why? we have limited budget, we have impact of climate change which is causing more frequent and intense weather events and that is causing, helping us not to plan properly. So in my research comes here. I will be using a conservation planning tool that will integrate the economic eco system service modelling and that will give more scenarios to the implementors and the farmers to implement conservation practices at the ground level. We will be focusing on 7 Rs. One is right method, right practice at the right skill right time and right approaches in the ground levels so that our conservation practices get implemented at the ground level with highest impact. So ultimately the research will contribute to gradual improvement of the conservations practices that will improve the water quality of the lakes and rivers and wet lands. Initially we are focusing on improving the water quality of lake Erie and this too have the potentially to improvement. This decisions have a support system will get has been de-governised by the OMFRA and we are trying to improve the decisions support system for scaling up. Thank you everyone.