

GLOBAL CRITICAL ENVIRONMENTS CHALLENGE

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Changing our reliance on traditional power systems is important as well as tracking impact on conditions of our available valuable fresh water and air conditions. We are consuming energy more rapidly and adding gases to the air that is affecting weather conditions. Water is disappearing in many areas of the world resulting in rapid depletion of available fresh water. Within, 50 years time, and increasing populations, that situation will have reached critical proportions. We are beginning to see the changes now in our weather conditions. Those changes in the relatively near future over the next few years we result in major impacts to economies and people all over the world. Today, other changes in the environment can consume whole cities such as we observed during the Fukushima disaster, Hurricane Sandy, and now extreme snow storms and ice conditions. Hurricanes are becoming more destructive and winter storms more intense. These concerns are being more rapidly accelerated by power generation and world wide use of fossil fuels. Tracking these resources and changes in the environment may represent the most pressing concern to alert people, municipalities, and cities of those conditions. The use of renewable energy system is an important consideration that we should track as well since many are not available in all places such as solar. Wind systems can be beneficial, but are subject to mechanical wear and damage while in use due high wind conditions. Around the world conditions are getting worse and in a matter of days in the USA and other developed countries people will starve or be exposed to disease with a short time since we rely upon electricity. The expansion of the industrial revolution is affecting water and air by humans in the area. The conditions of the past can no longer be assumed and will require constant monitoring. It is important to change our behavior that providing alerts and monitoring of key factors can potentially avoid certain conditions, but not guaranteed if we do nothing.

The following is a link to a presentation on the subject:

<http://www.bing.com/videos/search?q=Water+Shortage+World+Crisis&form=VQFRVP&first=1#view=detail&mid=4A45AEB8D5C5FC23BC024A45AEB8D5C5FC23BC02>

This challenge is to develop Instant Sensor Messaging capabilities that can share information easily with data analytics systems and to alert end-users and provide actionable data to decision makers. The challenge will officially begin on IoT Day 2015, April 9th, 2015. This day is important to show our unity and understanding of this problem that will effect future generations. To the benefit of our children and while we still dwell upon this planet we must yield to the fact that we have not been the best stewards. It is time to become more aware of our surroundings and gaining a better understanding of conditions that exist in critical environments. You are invited to undertake this challenge to monitor global critical environments and to provide actionable data through data sharing for global situational awareness.