**Problem**
Cadmium-rich waste is in crop soil in the Guangxi Region of China. Agriculture absorbs the cadmium, and the local population eating this food is getting sick.

**Background**
- The Guangxi Region has high amounts of Cadmium in the agricultural soil
- Cadmium is very toxic to humans
- Due to similar events in Toyama, Japan the people of Guangxi are at risk for adverse health effects

**Cadmium toxicity**
Research has shown that cadmium affects the developing brain in children. Here are some other parts of the body it can effect.

**RELATED HEALTH ISSUES**
- A recent study has linked it to breast cancer.
- Cardiovascular disease
- Obstructive pulmonary disease
- The kidneys lose function, which can also cause gout, a form of arthritis.
- Bones lose density and fracture.

**Assessment**
- Take soil samples before, during, and after the treatment
- Once the soil tests show cadmium at below harmful levels, treatment can stop
- Keep statistics on the diagnoses of kidney failure and osteoporosis within the region

**Short-Term Solution**
Begin treatment with hyperaccumulating plants
Harvest hyperaccumulators and test the soil
Reduce the plants to cadmium rich soot
Begin planting crops for consumption

**Recommendations**
- Policy Change
- FAO Involvement
- Stricter Guidelines
- Assist with Soil Testing
- Campaign For Public Support
- Enforce Policy

**Cost**
- 2% of China’s Environmental Budget (Est.)
- Less farmable land during treatment periods
- Planting the hyperaccumulators
- Disposal of hyperaccumulators

**References**