

Sinilevämyrkkytestin referenssinäytöt vientimarkkinoiden avaamiseksi



Satellite image of a Nodularia bloom in Baltic Sea
(Credit: SMHI; EOS 8211; MODIS 2005-07-11, NASA, processed by
SMHI8217 oceanography unit.)



Varsinais-Suomi

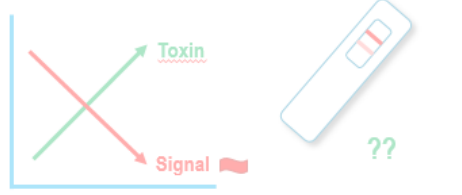
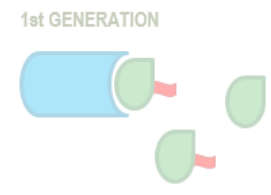
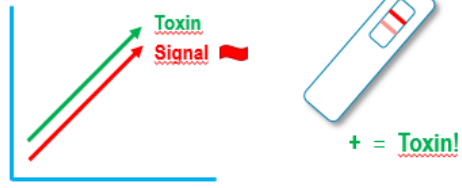
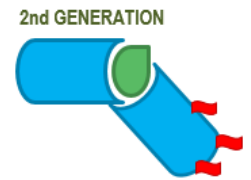
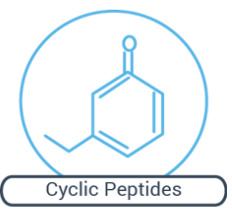
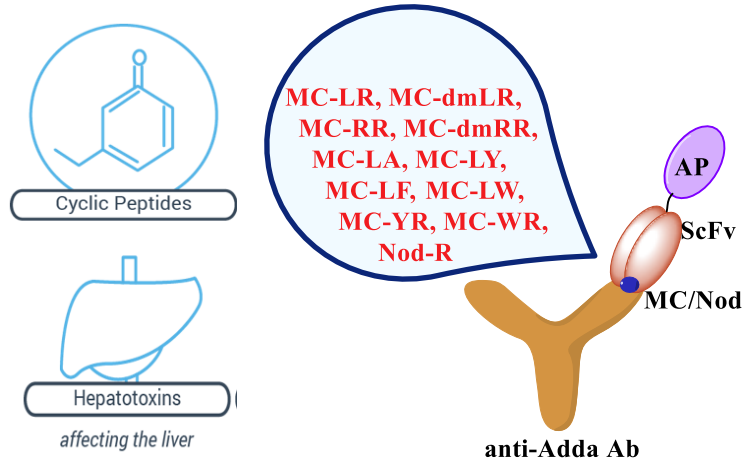


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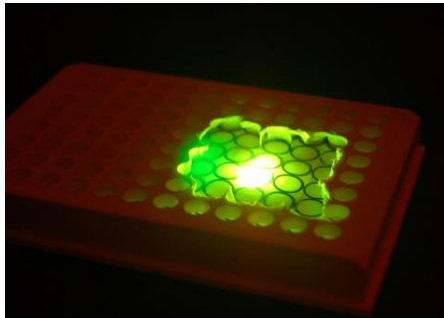
**GOVERNMENT
KEY PROJECT**

1. Objectives

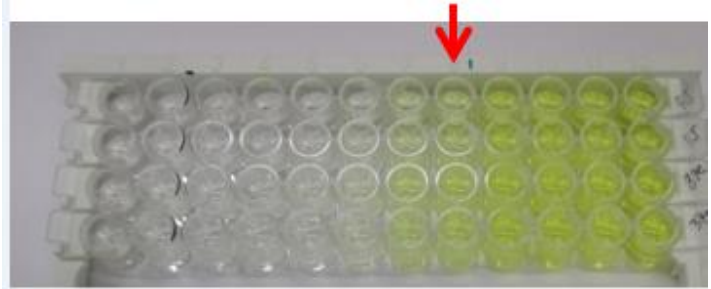


- Acquiring data for validation.
- Verifying the functionality of the test technology in different test forms with authentic natural water samples.
- Developing new test forms for different target segments
- Exploring market potential.

- First commercial (Nordic countries & Australia 6/2018) test kit based on **UTU** and **VTT** technologies. Manufactured by **Salofa Oy**.



Akter et al (2016) *Anal Chem* **88**:10080-10087

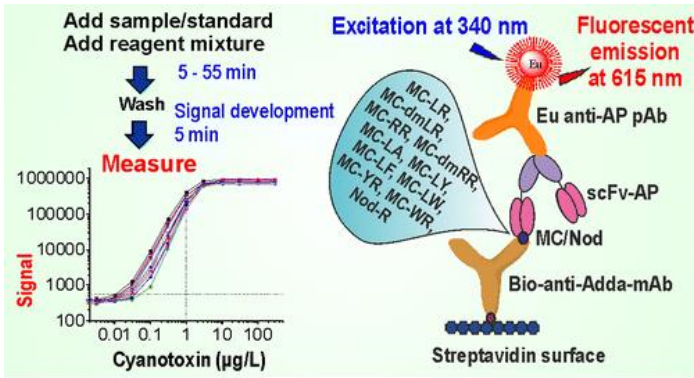


Akter et al *AIOI* 2017

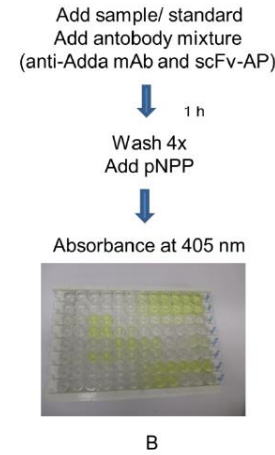
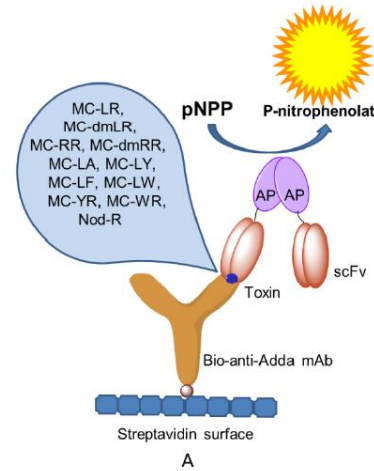




2. Expected impact of the project



Akter et al., Anal Chem 2016



Simple screening test (coloured label; no sophisticated instrumentation)

Akter et al AIOL 2017

- making the test technology as widely known as possible worldwide
- China, Australia, Poland, Spain
- opening up international markets
- availability of the test technology for the wider use
- UTU innovation center is committed to find licensing partners.



UTU, VTT, Salofa

3. How and by whom can the project results be utilized?

Companies/Licence

- The technology is not available to any one else.

Authorities

- **Avoid negative health effect** to public: drinking, recreational

Researchers

- **Toxin profiles and occurrences** of algal blooms
- **Epidemiologic studies**; efficiency of water purification strategies to cut down health problems

Aquafarmers

- Cyanotoxins may **accumulate to fish and shellfish**

Farmers

- Microcystins can **be lethal to livestock**
- The toxins **inhibit the growth of crops**

Tuorist centers

Citizens

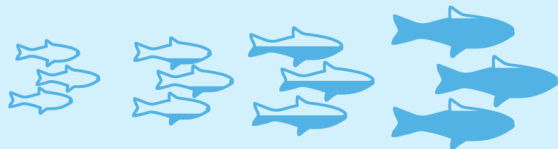
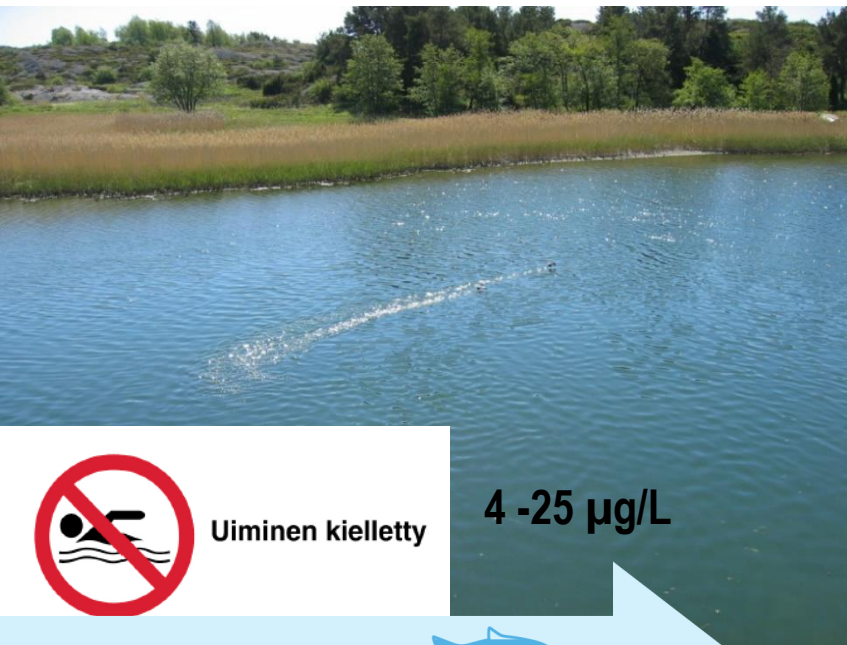
- Safety for **recreational use and watering**



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1 µg/L of MC-LR (WHO)



Contaminant Levels

Time