

# Brokerage Event

Food Security | Sustainable Agriculture and Forestry |  
Marine, Maritime and Inland Water Research |  
Bioeconomy | KET-Biotechnology |

**Brussels, 15th November 2017**



**PEWAS**  
Innovative chemistry since 1992

## Sustainable Food Security

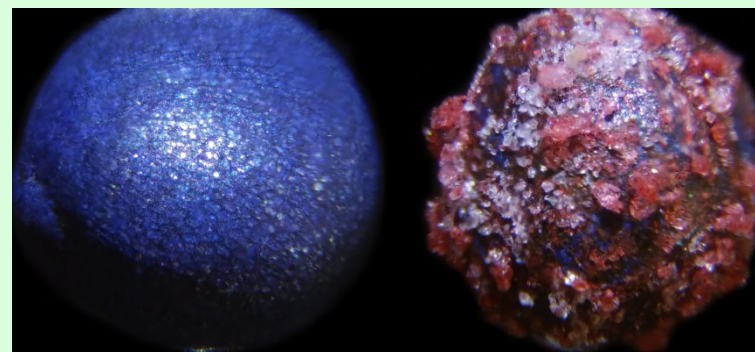
# Aquaholder™ Seed+

## New seed treatment method – hydrostimulation

(Awarded the Horizon 2020 Seal of Excellence)

Topics of interest: SFS-33-2018, LC-SFS-19A-2018

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**PEWAS**



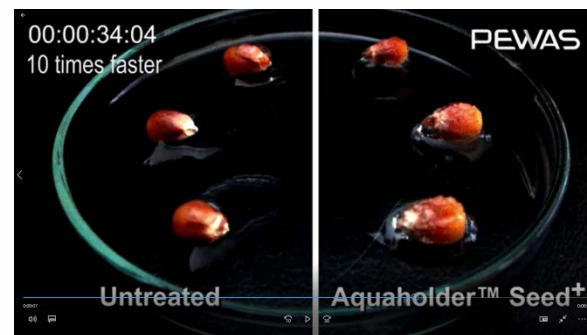
[www.ncp-biohorizon.net](http://www.ncp-biohorizon.net)

BioHorizon project is funded by the European Commission - Grant Agreement no. 652637

**Aquaholder™ Seed+** (“AQS”) is a new seed coating method that makes use of superabsorbing polymers (“SP”). The SP have a great ability to absorb into their structures 200-500 times their own weight in water and to then release the captured water gradually in times of drought. Crop and vegetable seeds treated with AQS have more moisture available to support germination and the first phase of growth, resulting in higher seed emergence and subsequent yields.

**Aquaholder™ Seed+** (“AQS”) helps to reduce negative impacts of climate change on agriculture, one of the sectors most affected by the lack of moisture. It was designed especially for the seed industry, which has a worldwide value of approx. € 40 billion.

Click on the picture to watch **Aquaholder™ Seed+** video



<https://youtu.be/nAbe6aHPUfk>

## Higher Yield per Hectare

expected range 10-15%\*



## Higher Seed Emergence

expected range 30-50%\*



## Global Application

across regions\*\*

across technologies\*\*

across crop types

economically viable\*\*



## Market Potential

Europe\*    World\*\*



\*Results based on preliminary experiments, control group  
non-coated corn seeds vs. treated corn seeds with AQS

\*\*To be further explored



## Seed company

Crop types selection,  
laboratory tests of AQS+

## Pewas

AQS+ concept inventor,  
Project coordinator



## Seed treater manufacturer

Technical integration of  
AQS+ into the seed treaters

## Equipment manufacturers

Technical integration of AQS+  
into other equipment



## Farmers

Carrying out large  
scale field tests

## Accredited laboratories, universities

Certified evaluation of AQS+  
influence on growth parameters,  
further research



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<http://pewas.sk/en>