



AQUAHOLDER

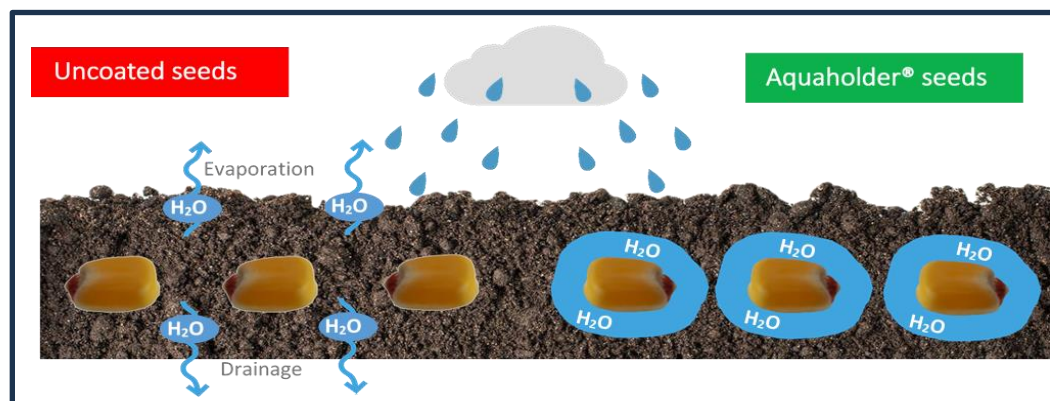
**Revolutionizing Seed Germination and Plant
Emergence for Climate Adaptability**

Aquaholder envisions a world where agriculture thrives despite climate challenges. Our mission is to provide innovative solutions that enhance plant adaptability, ensuring food security and sustainability for future generations.

Transforming agriculture with global impact

Innovative superabsorbent seed applied technology empowers plants to withstand drought conditions, minimizing crop losses and optimizing water usage.

Scalable & Sustainable - Aquaholder is not just a product, it's a movement towards resilient farming, ready to scale globally and drive long-term agricultural sustainability.





Climate change



Rising global temperatures, shifting weather patterns, and unpredictable rainfall are leading to a projected 30% reduction in crop yields by 2050.

Seed Viability



Traditional methods of seed germination result in inefficiencies, with up to 20% of seeds failing to germinate in regions experiencing drought.

Resource Scarcity



By 2030, 40% of the global population may experience severe water shortages. Agriculture consumes 70% of global water resources, necessitating a radical shift in resource management.



Innovative superabsorbent seed applied technology

Aquaholder's microplastic-free superabsorbent polymers are safe for the environment and hold up to 500x their weight in water, creating a 24/7 water reservoir for seeds, especially during critical drought periods.

Enhanced Water Retention

Our hydrogel creates a protective layer around each seed, ensuring continuous access to water, resulting in up to 30% more efficient water use.

Adaptation to Climate Variability

Aquaholder mitigates the risks associated with climate variability, improving germination rates in drought-prone regions.

Economic Benefits

Farmers can expect up to 15% increase in crop yields.
Improve AI uptake – lower production costs, lower environmental impact





Farmer

Aquaholder **boosts higher productivity in the field by 10 - 15% (higher yield)**, allowing farmers to maintain profitability even during climate-induced water shortages.



Crops

Aquaholder can be used on **all major crops globally**, from wheat to maize, included **vegetables and grass seeds** incl. cover crops, ensuring wide market applicability and high scalability.



Customers

Contributes to global food security by making **agriculture more resilient to extreme weather conditions**, thereby supporting diverse diets and increasing food supply.



Sustainability

Aquaholder's environmentally friendly formulation is **compatible with existing seed coating processes**, promoting sustainable agriculture without the need for disruptive changes in technology.



Regulatory

Microplastic free solution, biodegradable and biobased, certified for agriculture use





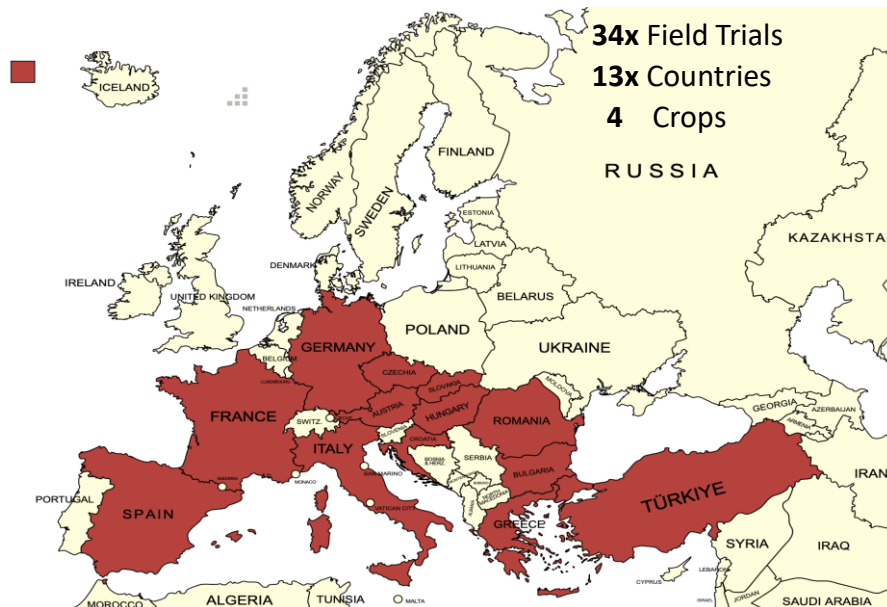
FIELD TRIALS 2022

Product validation in **all over the world (EU, US, Asia, Africa)** on 10 different crop types in **2021 - 2024**

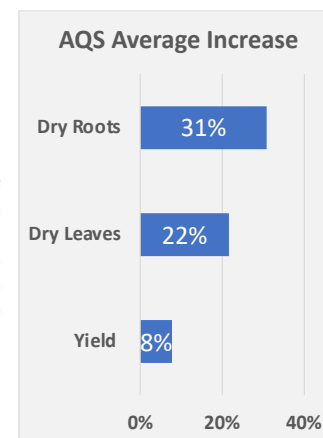
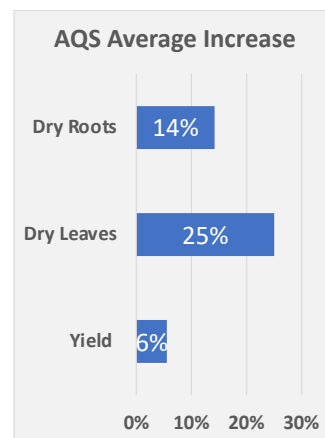
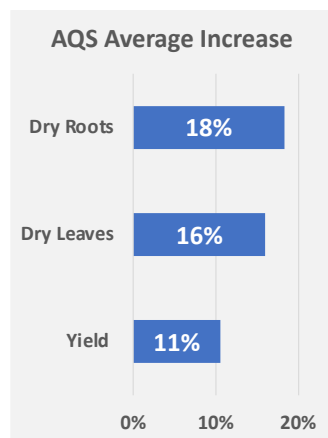
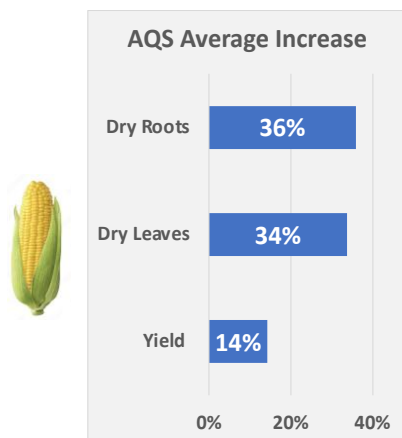
PATENT GRANTED
PCT/SK2018/050015

PATENT PENDING
PCT/SK2024/000002

Seal of Excellence –
Grant awarded



Product benefits proven by GEP certified agencies and customers



PEWAS
Innovative chemistry since 1992



AQUAHOLDER

Do you have any questions? Please contact us at: info@pewas.sk

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