

A photograph showing three children swimming in a body of water. The water is heavily covered with a thick, bright green layer of algae or cyanobacteria. The children are partially submerged, with their heads and shoulders visible above the green surface. The child in the foreground is looking directly at the camera with a neutral expression. The background shows two other children, slightly out of focus, also swimming in the same green water.

Green Water Solution

Innovation in Phosphorus recapture



Florida, US



Yellow Sea, China

World wide problem >3.000.000.000 €/year



Great Lakes, US

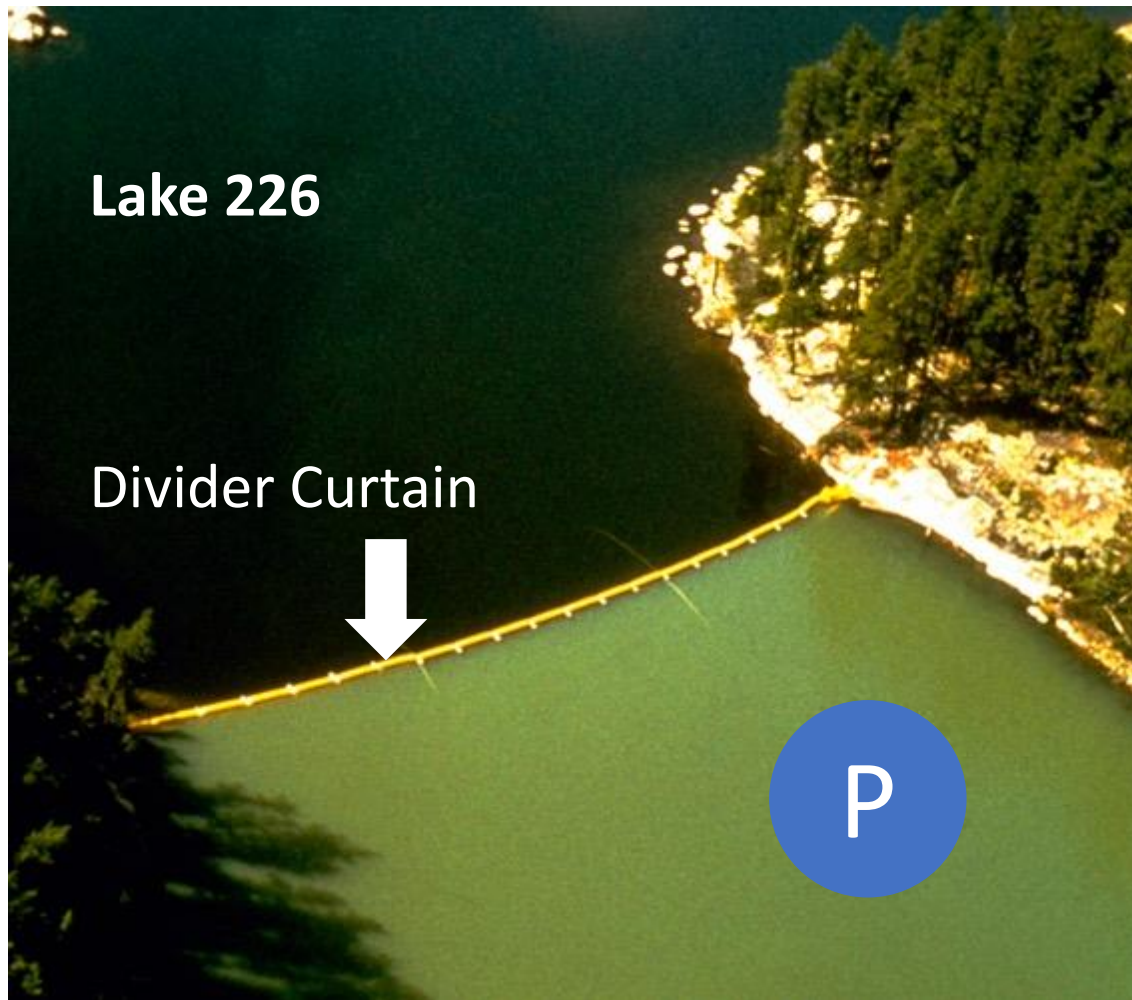


Baltic, EU



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Phosphorus: essential for life



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Cheaper and 100x smaller

Required area current processes

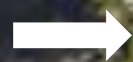
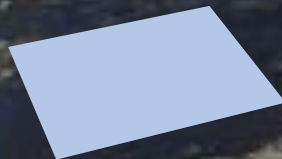
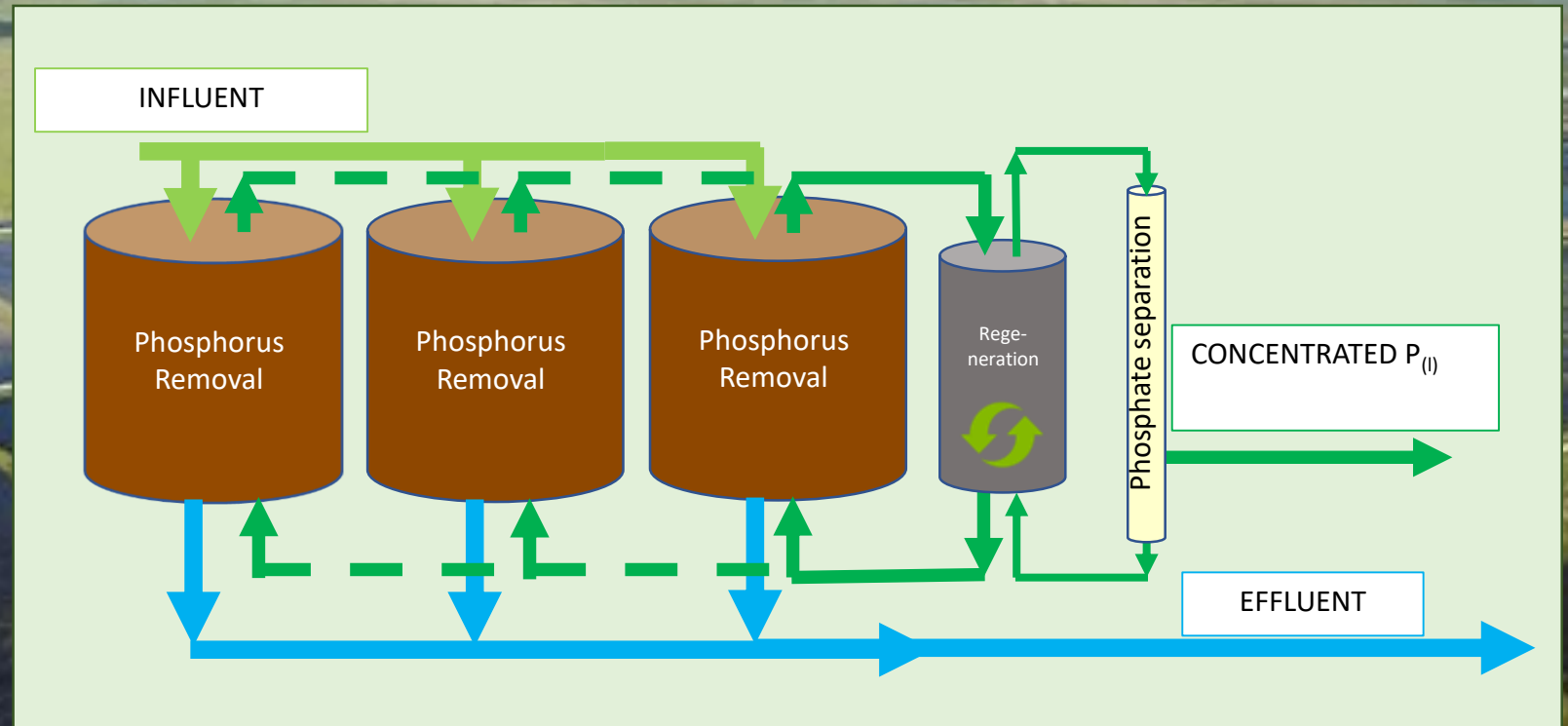
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Removal and Recovery



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Where are we?

SO FAR

- Proven Technology to extreme low P-level (<3ppb)
- Patent Pending
- Technical Readiness Level 7
- Successful re-usable regeneration fluid



CHALLENGES

- Entering new markets
- Commercial feasibility recovered phosphorus
 - Phosphate Ore runs @ 0,80 \$/kg P
 - Best recovery price is around 46,- \$/kg P

NEXT STEPS

- More pilot studies at potential projects
- Proof benefits of recovered phosphorus
- Effect on micro-pollutants?

ADVANTAGES

- Simple
 - Scalable from small domestic to large lakes or rivers
 - Flexible and easy to design
- Eco Friendly
 - Small footprint on carbon, space and Environment
 - Durable operations
- Recovery of phosphorus to sellable product



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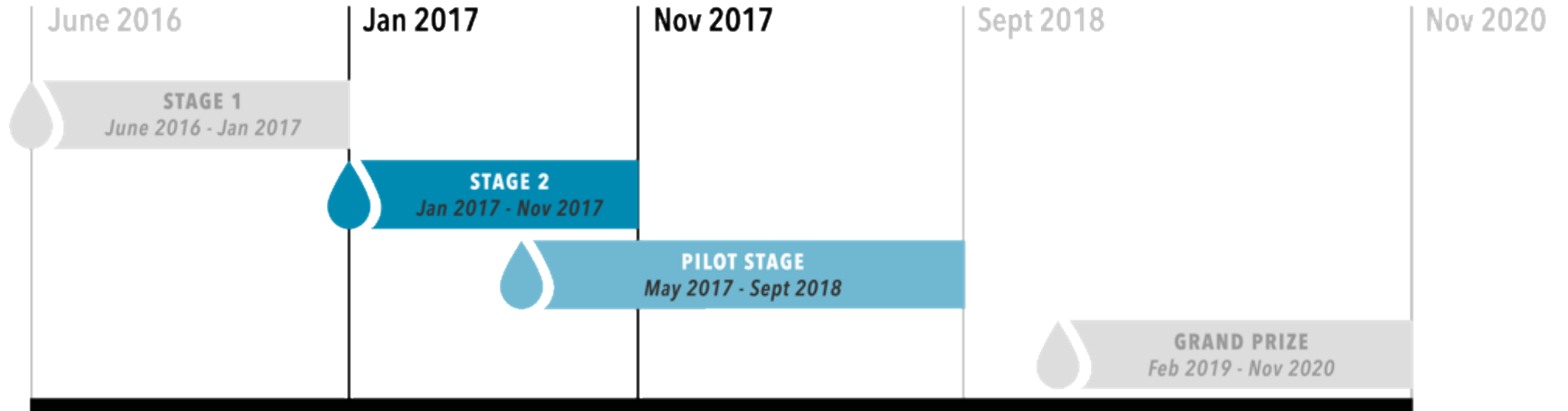
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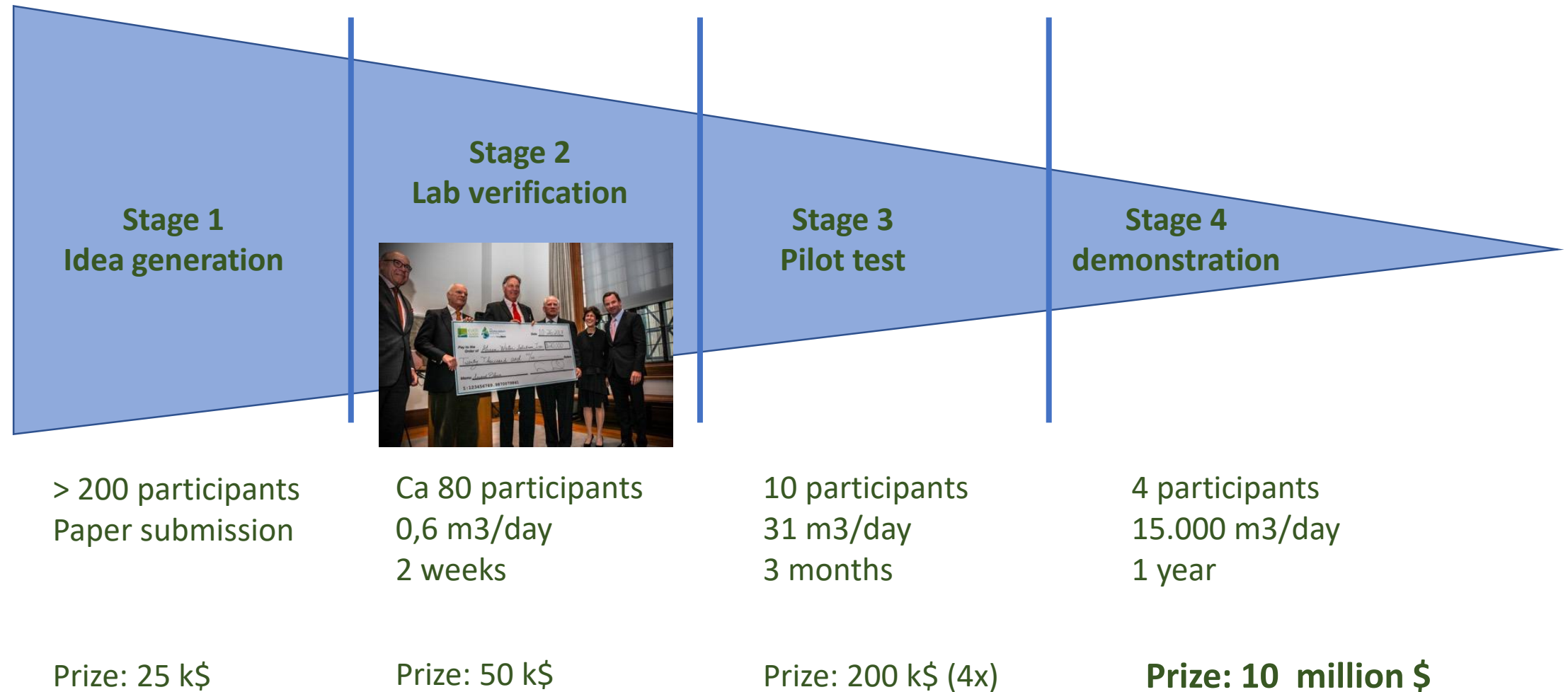
THE GEORGE BARLEY WATER PRIZE

OBJECTIVES:

- Radical cheaper: <120\$/kg P removed
- Down to ultra low P levels (10 ppb P)
- Very small footprint



Innovation Funnel



THE
GEORGE BARLEY
WATER PRIZE



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Pilot stage impressions

Holland Marsh, Canada



Lessons learned:

- Very good exposure
- Stimulates innovation
- Prize design should allow for modifications
- Prize organization needs technical expertise
- Pre-financing can be an issue



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