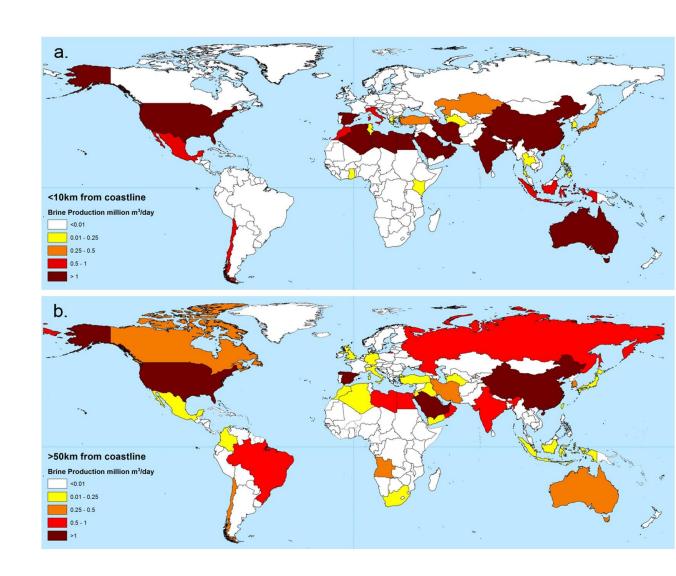


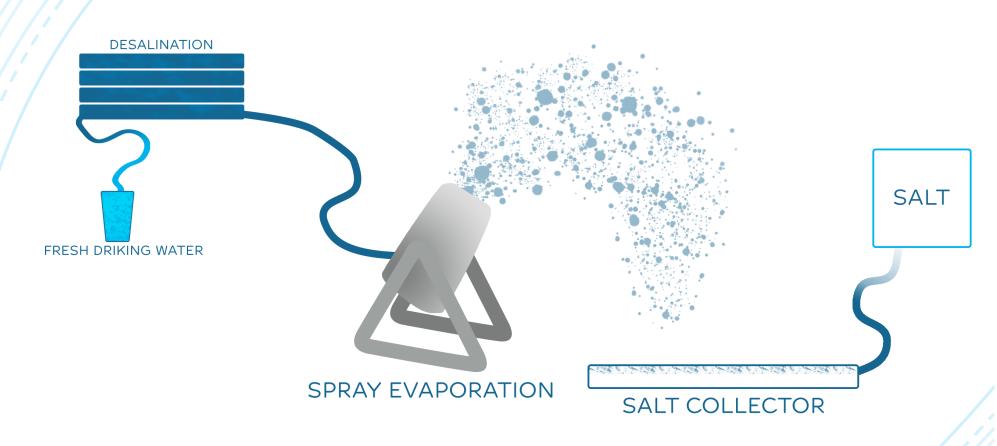
Problem

- Freshwater is in dangerously low supply around the world
- By 2025 two-thirds of the global population may face water shortages
- Seawater desalination has provided a solution (but ignored the ecological costs of brine discharge)
- The UN warns of dangerous levels of toxic brine discharged daily (142 million cubic meters)
- Currently, for every litre of fresh water, 1.5L brine is also created
- Brine is a show-stopper in remote areas with no water supply



The solution

- NoBriner's low-tech solution of utilizing spray evaporation enables the company to convert toxic brine into salt without charging for it
- Salt is then harvested using local workforce and sold as a commodity product, or is converted into other products



By spraying brine in the air we allow the leftover moisture to evaporate mid-air, resulting in salt falling down onto our collector unit

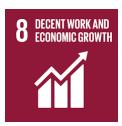
Our vision







conversion of brine yields several environmental, economic and societal benefits regardless of the location. However, inland and coastal benefits can differ fundamentally We provide jobs for the local workforce





Existing
desalination
plants can
now operate
without
damaging the
local fauna



Our solution enables inland desalination projects to provide water without harming the environment



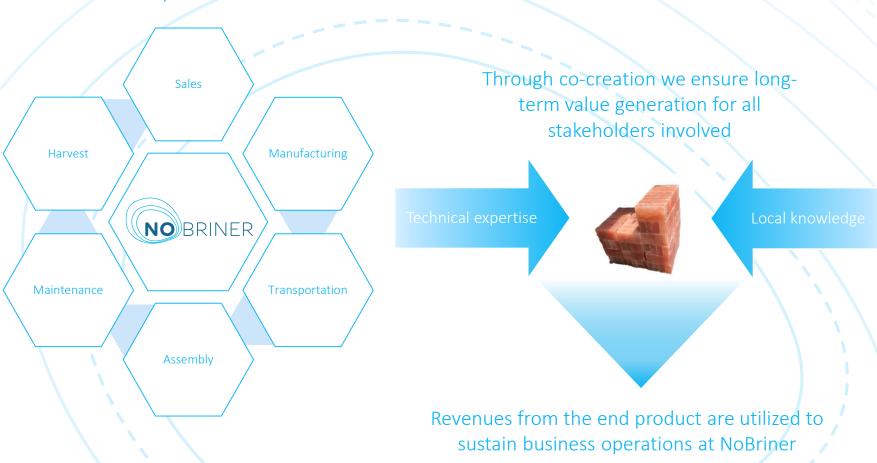
Through salt and saltbased products we introduce circularity to the local economy



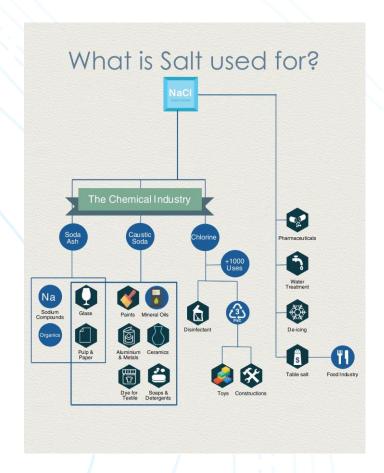
Co-designing our final solution with local stakeholders ensures maximum impact

Business Model

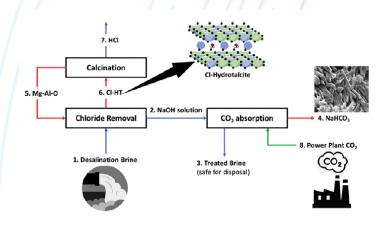
NoBriner incurs all operational costs in order to burden its' partners as little as possible.



Using case-by-case evaluation, we handpick the most suitable options



The excess salt



Dindi, A., Quang, D. V., AlNashef, I., & Abu-Zahra, M. R. (2018). A process for combined CO2 utilization and treatment of desalination reject brine. *Desalination*, 442, 62-74.

The key to be able to sell previously mentioned quantities of salt relies on it's utilization into various products. Current solutions include:

- Salt for consumption
- Salt bricks for construction
- Potential agent to decarbonize (and create baking soda)
- Hygiene products (caustic soda)
- Energy storage

As co-creation is encoded in our DNA, the final solution will be developed together with regional stakeholders to help the local community as best as we can.



Traction

- Kakuma, Kenya hosts around 200,000 refugees
- Water is transported with tank trucks
- We have been tasked by Kenya Red Cross and UNHCR to solve the issue of brine so a desalination project can take place
- 120 units each at the capacity of 1m³ brine/h has been precomissioned
- Ideal conditions for a pilot project
- Salt can be sold and utilized locally
- Based on our pilot project, we have been invited to Indonesia, and South
 Africa to test urban setup too

Unit economics

- Our economies of scale dictates that we can turn profit from a small project of 480 m3/day
- In order to convert 480 m3 we require an investment of 120.000 USD*
- That gives us 30 tonnes of salt daily
- Counting with 50 USD per tonne of salt we would be able to turn approx. 20.000 USD in EBITDA, meaning an ROI of 20% after year 1.

The team

Barney Vajda
Co-Founder/CEO



Anne-Sofie Larsen Co-Founder/COO



Alberto Meola Mechanical Engineer



Wafa Maalej Chemical Engineer

Advisory Board members



Claus Helix-Nielsen Head of DTU Environment



Jes Broeng
Head of DTU Entrepreneurship

Partners























Our timeline and needs



In order to secure sustainability in desalination we need several things to succeed:

- Funds: without necessary funds we can't build our prototype and scale it
- Expertise: Currently our team is missing experts from the desalination world
- Access to plants: in order for us to scale properly, we need to have a solid cooperation with a desal plant (industrial scale will only be possible with cooperation on projects)

Thank you for your attention!



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