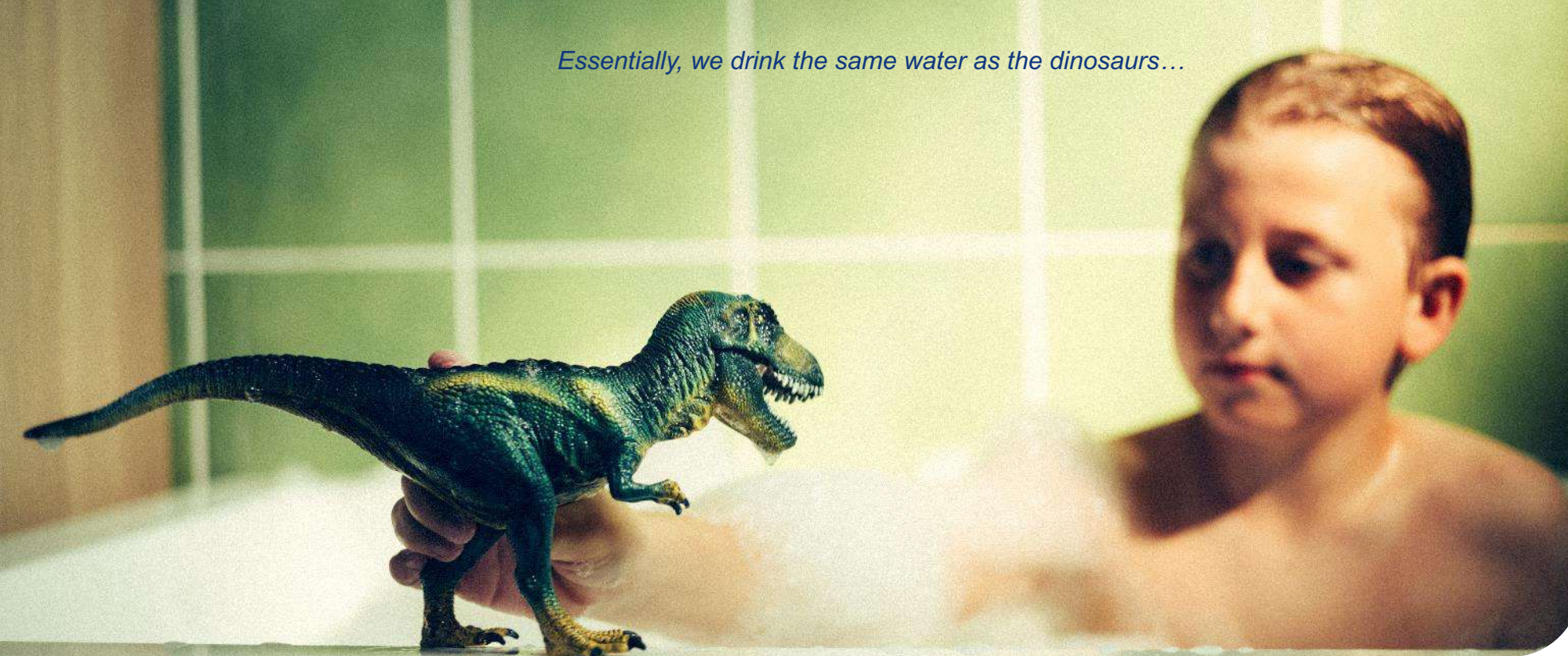


Essentially, we drink the same water as the dinosaurs...



Towards water stewardship and circularity

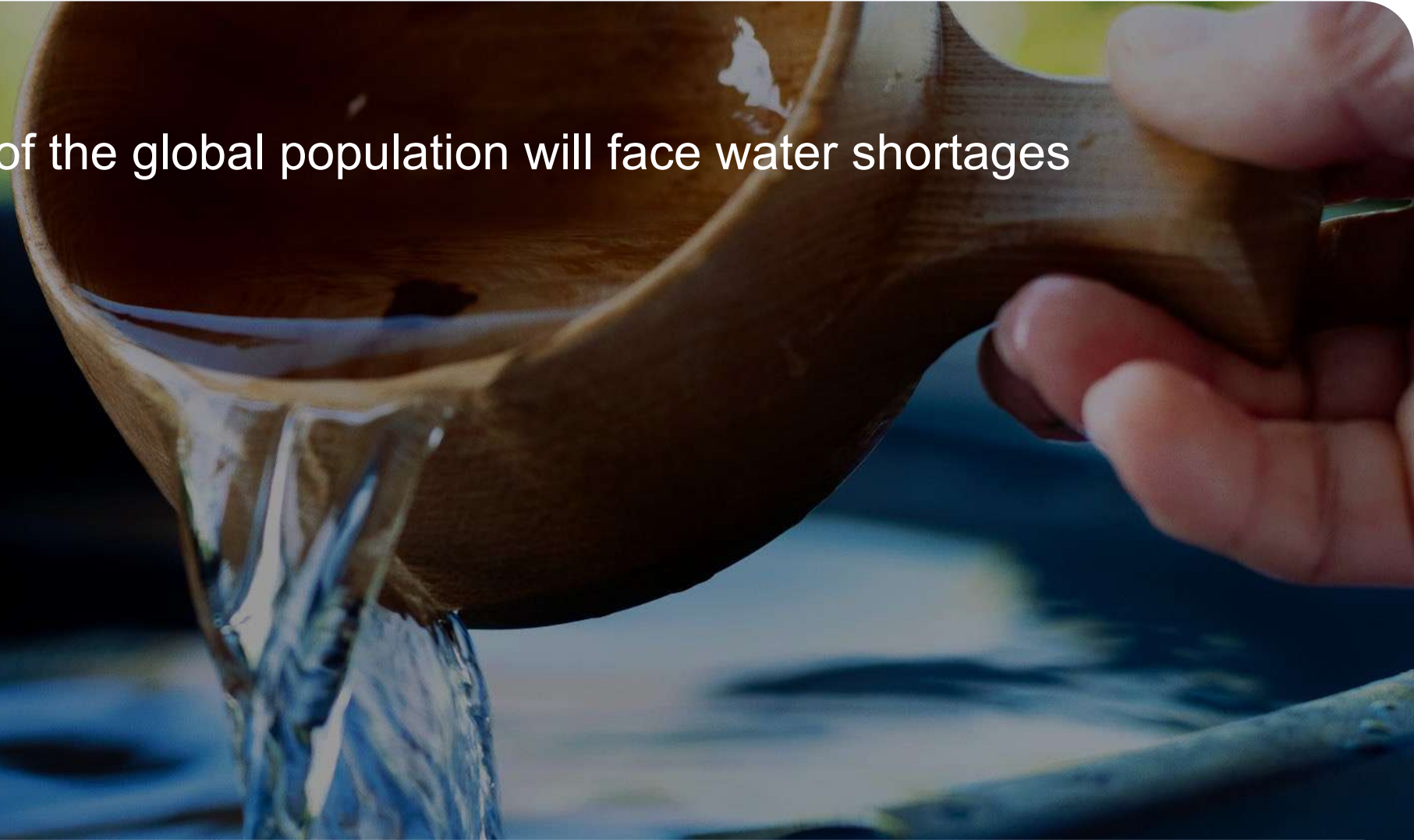
- The imperative shift towards sustainable water management

Patrick Horner
Global Technology
Zero Liquid Discharge

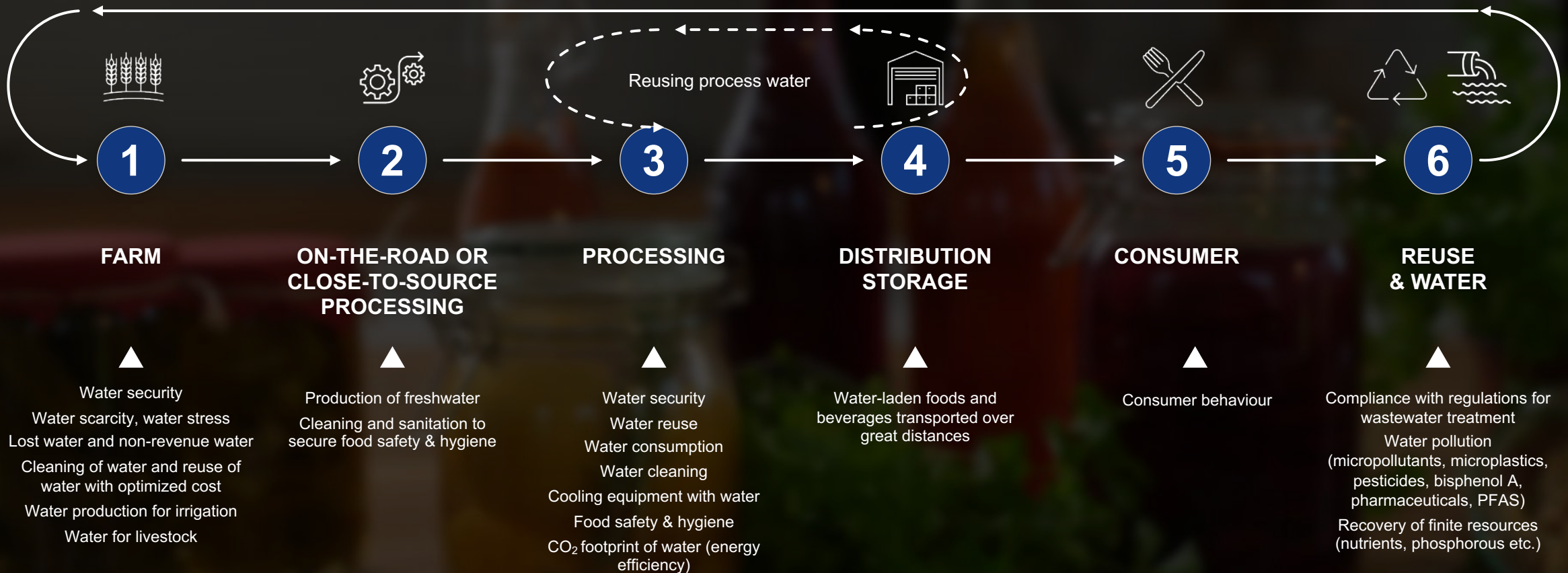
Water is needed for uninterrupted food production



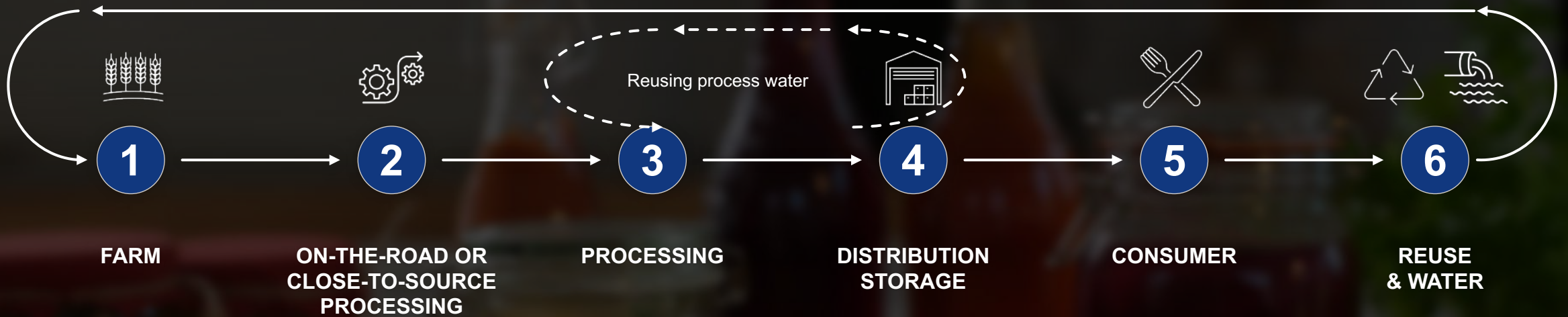
By 2025, two thirds of the global population will face water shortages



Water pain points & opportunities **across the food chain**



...and solutions



Water as a primary ingredient

– Food & Water Division



Brewery



Dairy
& plant-based drinks



Pharma
& Biopharma



Beverages



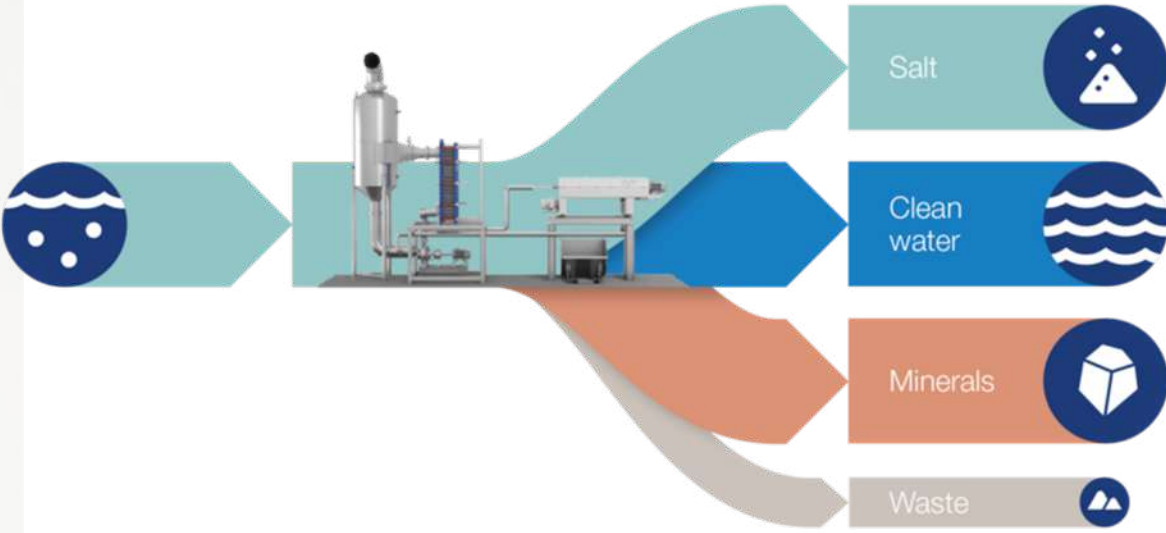
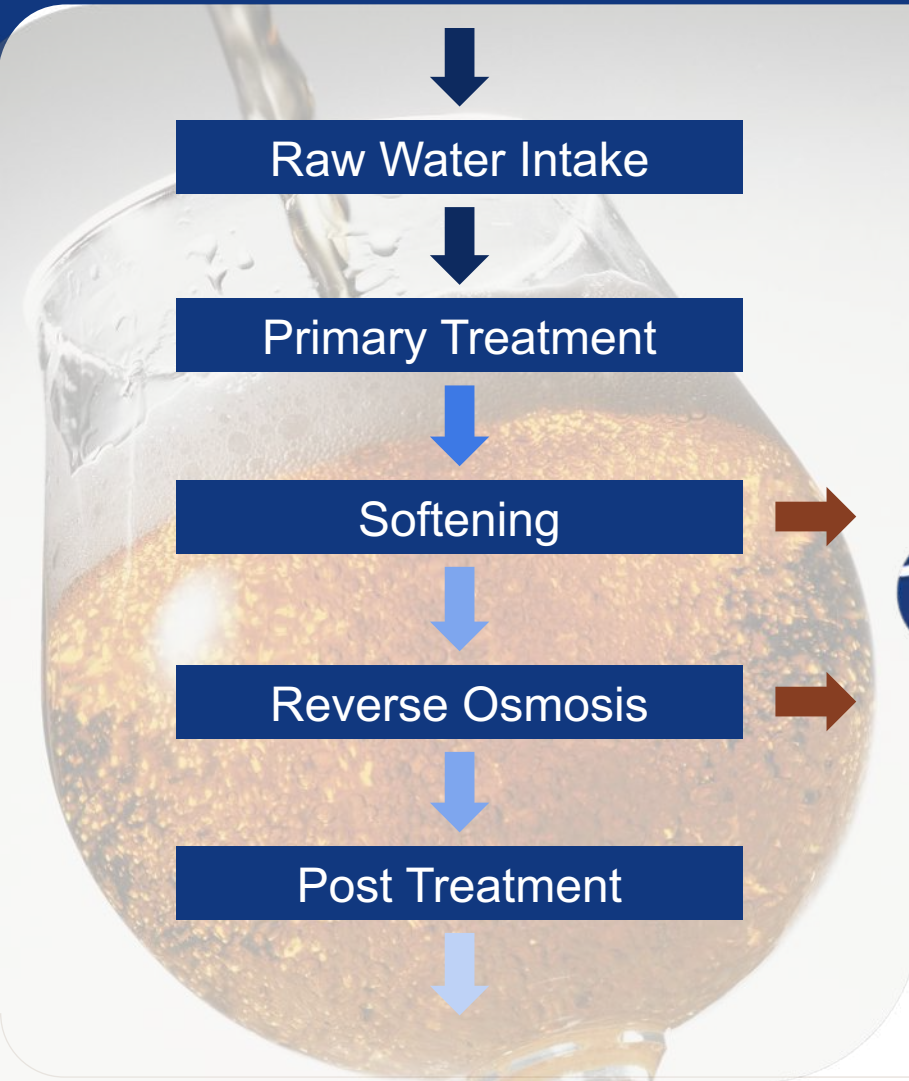
Water



Ethanol, Sugar, Starch
& Industrial Fermentation

Case Study: Brewery Water Intake Treatment

- When every drop counts



Water recovery



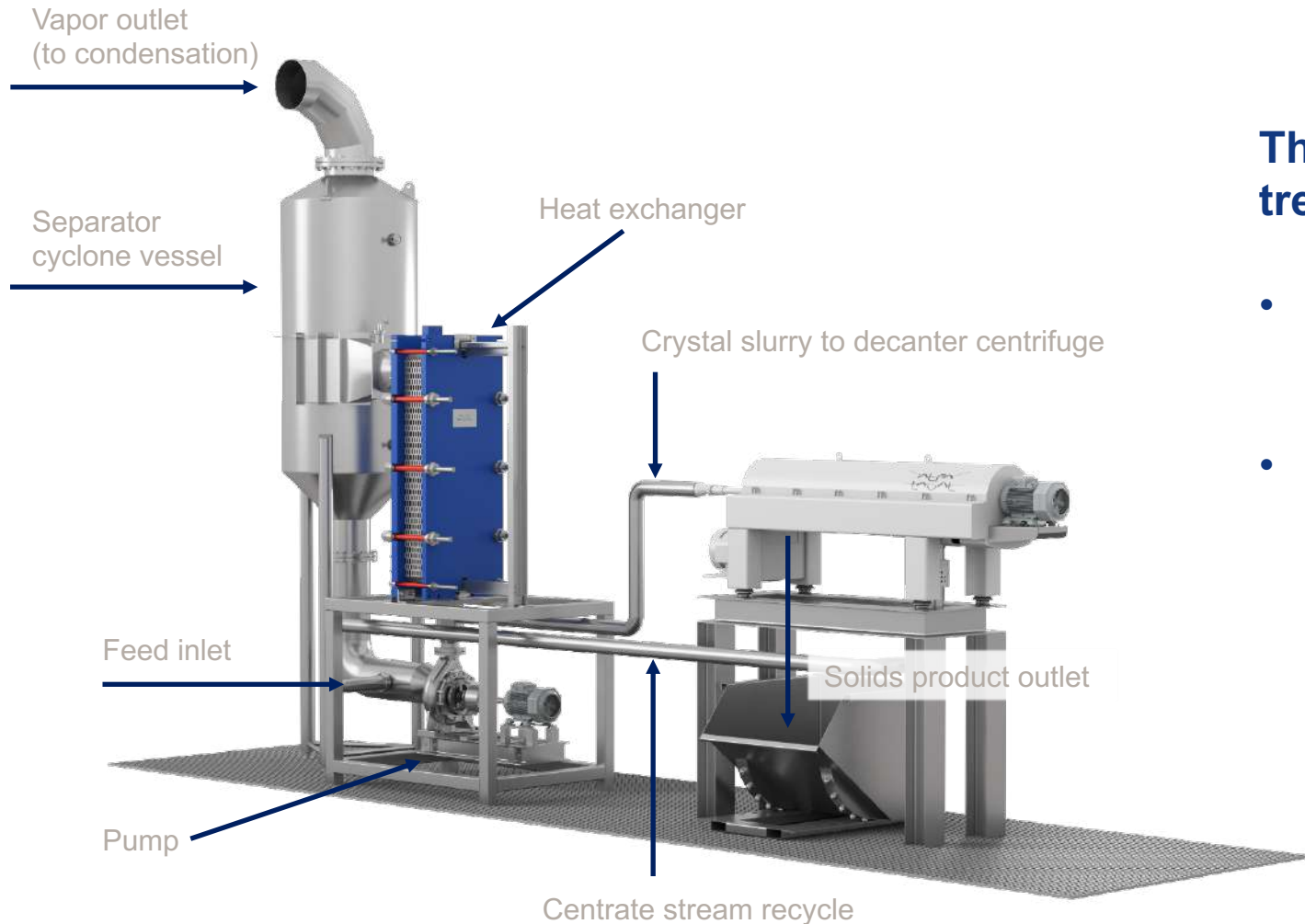
Energy efficiency



Payback time/Cost savings

Zero liquid discharge technology explained

Simplified overview of system and components



The role of ZLD in a waste water treatment process:

- Separates by boiling off water, leaving dissolved and suspended solids in concentrate
- Primarily used for waste streams containing organics and/or salts

Technology



Water footprint:
conservation,
recovery, reuse &
replenishment

**Water-neutral
operations**

**Water-positive
operations**