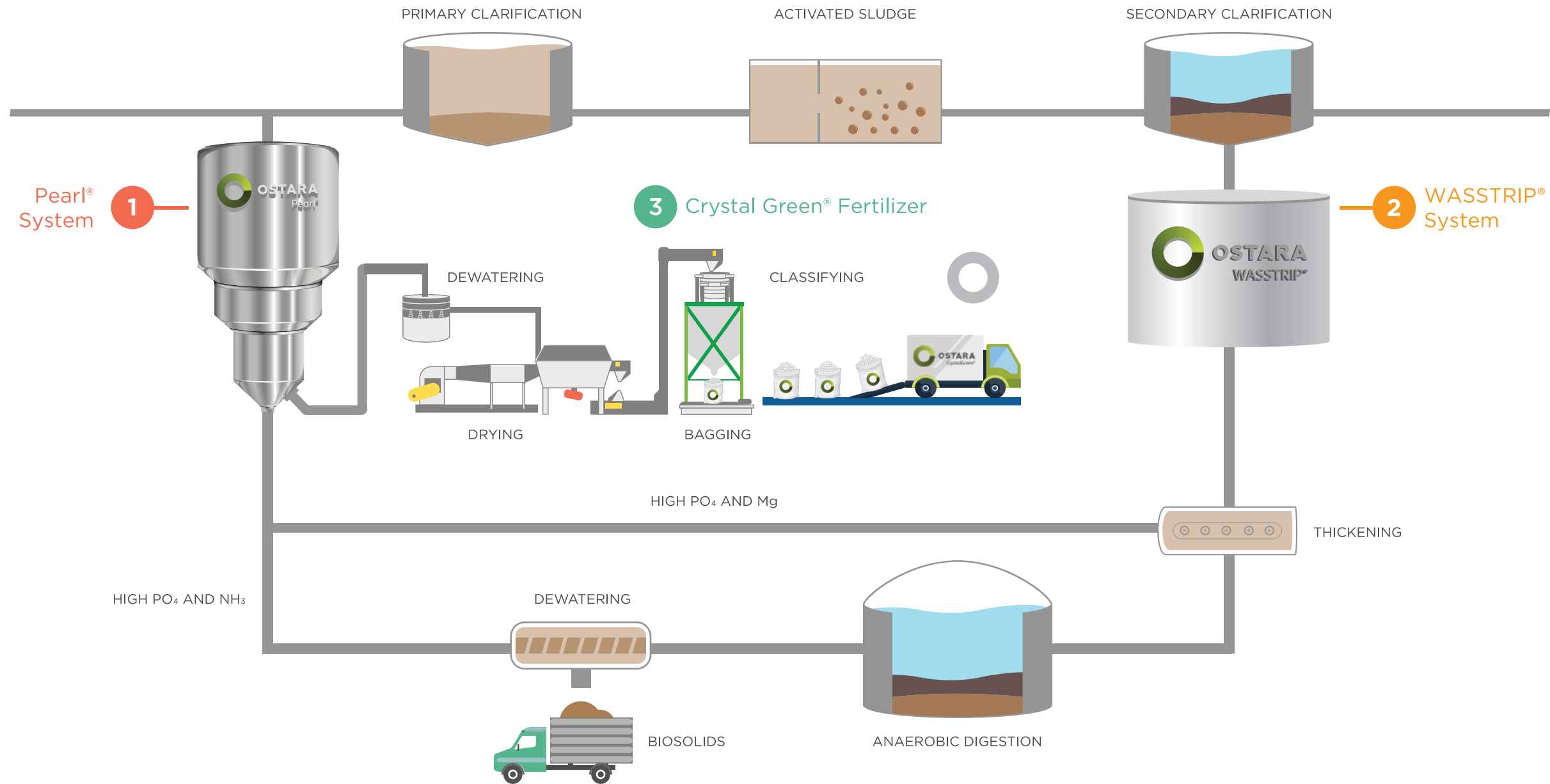


# NUTRIENT RECOVERY PROCESS

## A PARTNERSHIP WITH OSTARA NUTRIENT RECOVERY SOLUTIONS

Contributing to the social, environmental, and economic benefits of a circular economy



**1 Pearl® System**  
 The Pearl system recovers phosphorus and ammonia from high strength nutrient streams. These streams include sludge dewatered liquor and WAS thickening liquors after phosphate is released using the WASSTRIP system. The Pearl system recovers nutrients by growing high purity crystalline granules of struvite under controlled reaction conditions in a fluidized bed crystallizer.

**2 WASSTRIP® System**  
 The waste activated sludge stripping to recover internal phosphate WASSTRIP system is a value-add to the Pearl system providing critical benefits to facilities that use anaerobic digestion. The WASSTRIP system is designed to release phosphate from waste activated sludge (WAS) produced in an enhanced biological phosphorus removal process. Subsequent sludge thickening diverts released phosphate into thickening liquor, which is then recovered in the Pearl system.

**3 Crystal Green® Fertilizer**  
 Crystal Green is produced using the Pearl system by combining phosphorus, nitrogen and magnesium into a high value, commercial fertilizer. This process from Ostara licensed by Evoqua Water Technologies provides a true circular economy solution to sustainable fertilizer production.