



Mathias Bergman Secretary General Baltic Sea Action Group (BSAG) ESPC2, Berlin 2015



Cost efficient and profitable ways to

counteract eutrophication



Approximately 90 million people live around the Baltic Sea







Algal bloom in the Baltic Sea



Foundation for a Living Baltic Sea

= Baltic Sea Action Group (BSAG)

A private independent Finnish foundation Founded 2008 Operates in all countries around the Baltic Sea HQ in Helsinki Office in Stockholm



Baltic Sea Action Group's goal: A living Baltic Sea through systemic change

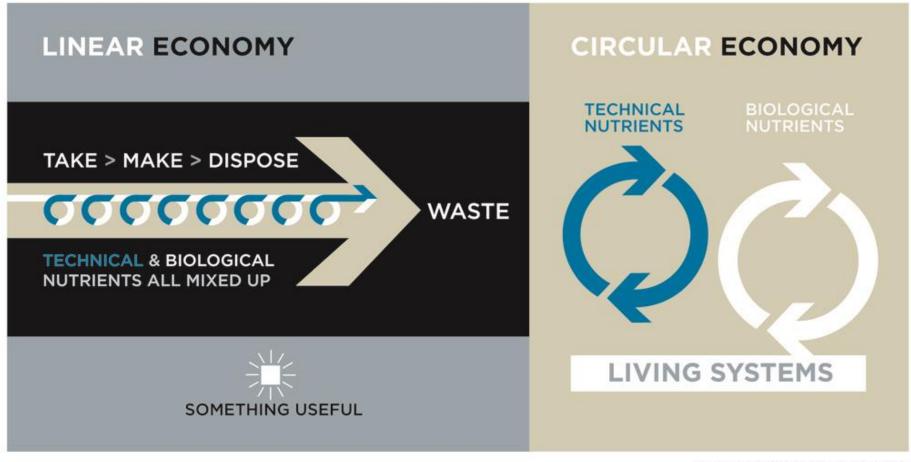
This means: *Transition to a circular economy*

Which includes:

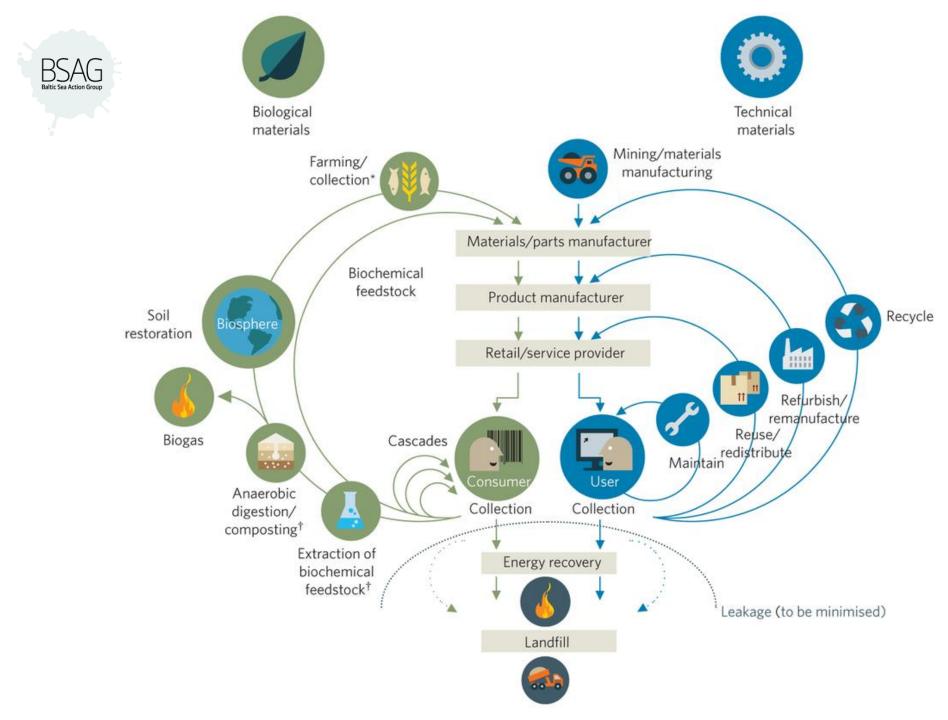
- re-use of raw materials ("your waste is my raw material")
- strong involvement of the business community
- cycling/re-use of life-sustaining nutrients; phosphorus and nitrogen



Principles of circular economy



AFTER W McDONOUGH AND M BRAUNGART





Phosphorus: volumes, t

Import of P into the EU: 2.7 M t/year*

in fertilizer: 56% in food and crops: 24% in animal feed: 16% in non-food items: 5%

930.000 t /year go to human consumption

Export of P from the EU: 590.000 t/year

Run-off (leakage) of P in the EU: 160.000 t/year

Run-off of P in the Baltic Sea region: 38.000 t/year**

* European Sustainable Phophorus Platform, 2014 ** HELCOM 2013



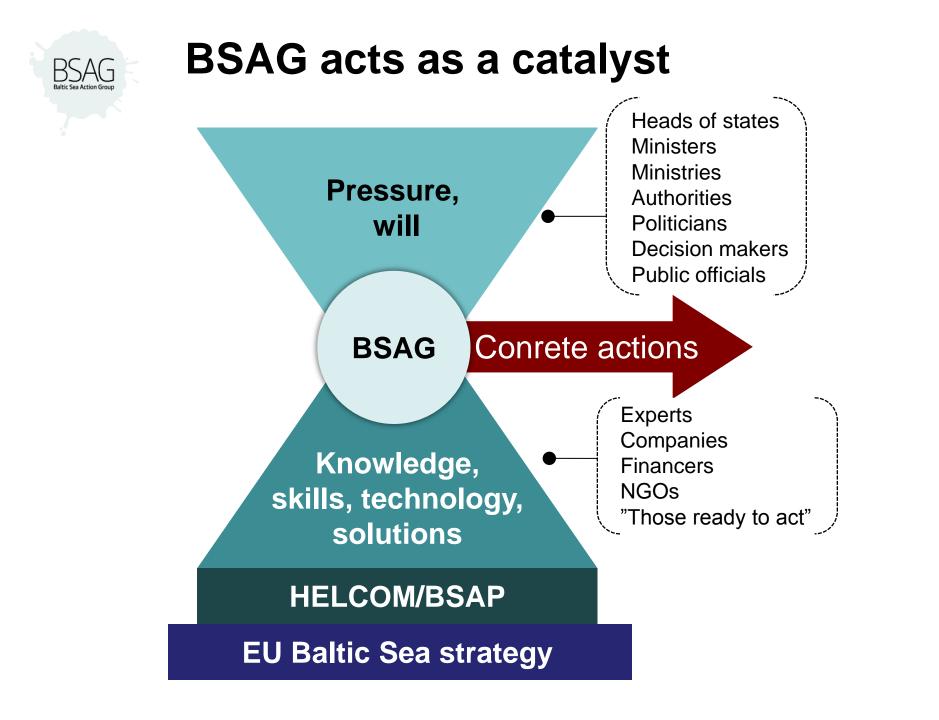
The transition requires:

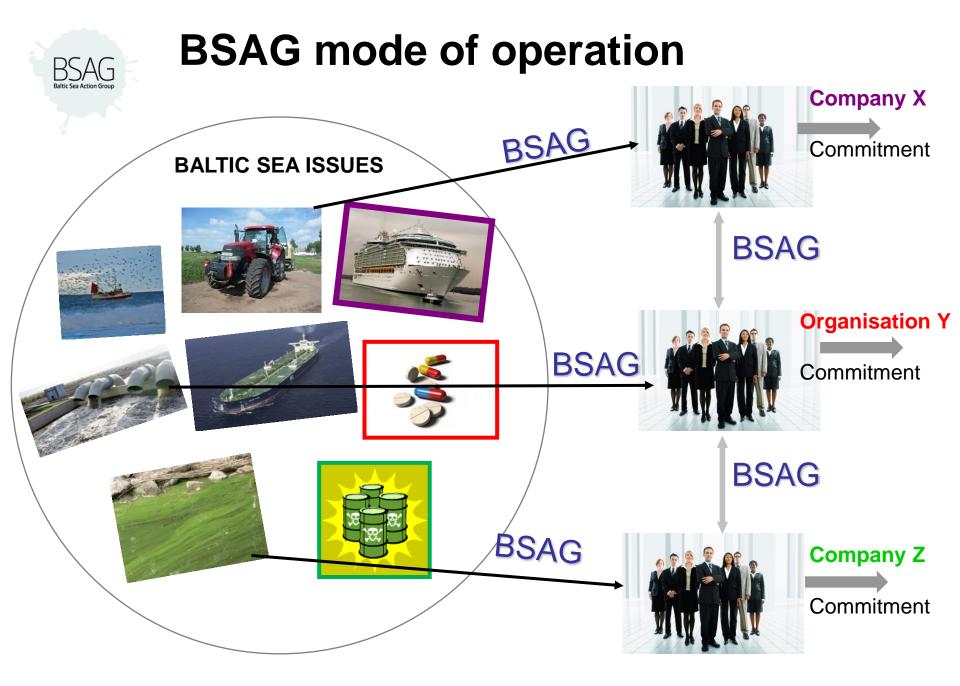
a change of societal structures, incentives, industrial processes and life style

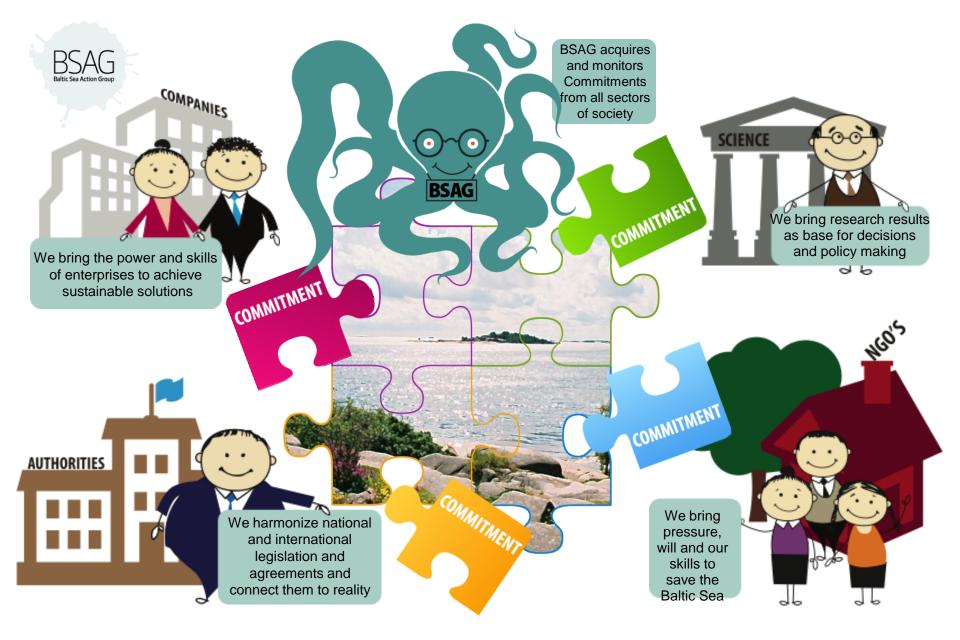
and it provides, as bonuses:

new industrial sectors, new jobs, wellfare, climate change abatement, a living environment, food security, healthy waterbodies, and

a living Baltic Sea







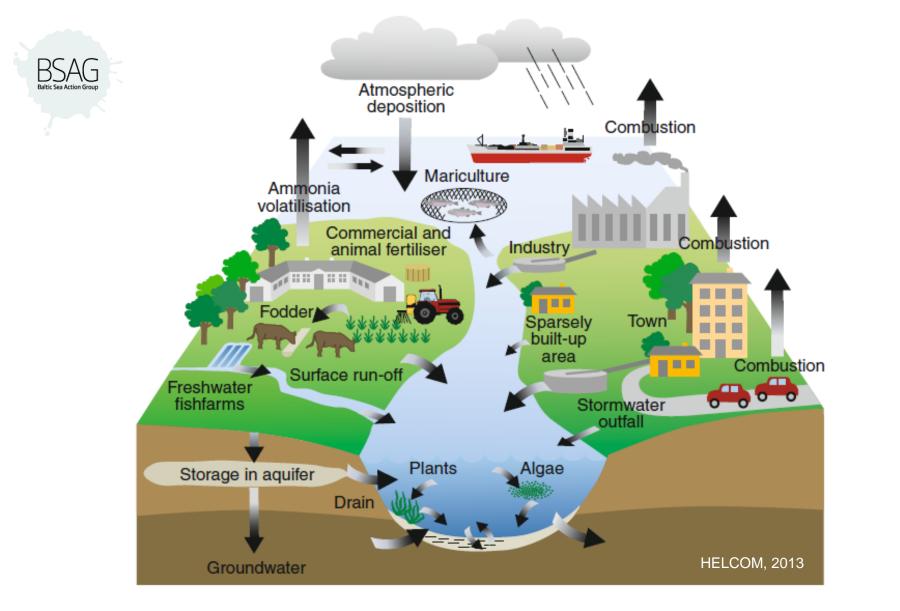
BSAG'S MODE OF ACTION



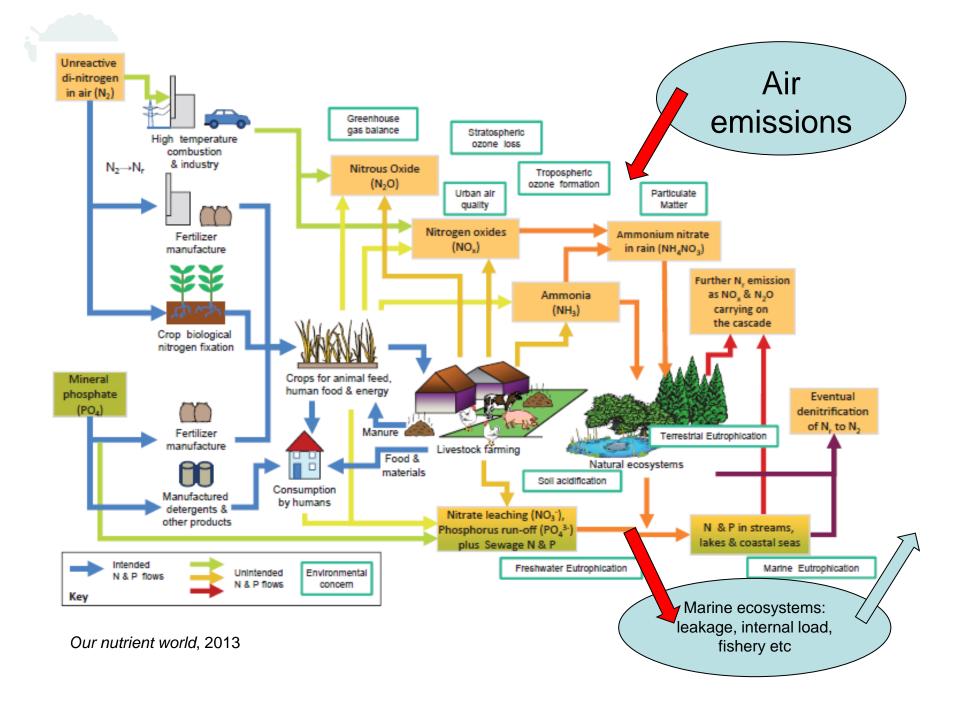
Converting plans into action

A Commitment

A public document stating what actions will be taken for the benefit of the Baltic Sea, and in what time frame (milestones)

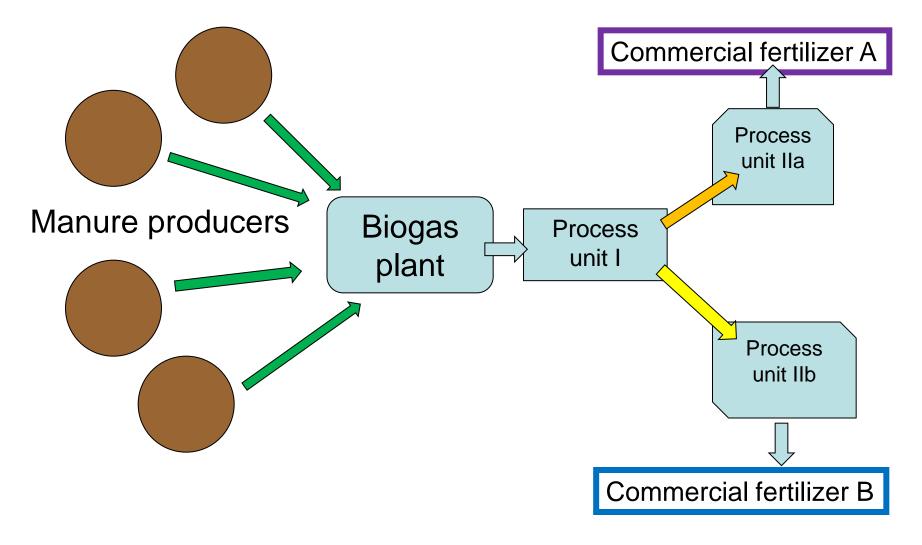


Leakage of phosphorus and nitrogen from human systems into the ecosystem



BSAG promotes blockage of nutrient leakage Leakage AGRICULTURE **ENERGY** PRODUCTION CATTLE-, PIG-AND HEN PRODUCTION Leakage Leakage WATER TREATMENT **INDUSTRY PLANTS** Leakage Leakage **COMPANIES** TRADE AND WHOLESALE _eakage eakade **CONSUMERS**

Nutrient cycling in practice: A pilot area in South-Western Finland





Thus, introduction of nutrient cycling involving systemic changes

produces

new industrial sectors, new jobs, wellfare, climate change abatement, a living environment, food security, healthy waterbodies, and

a living Baltic Sea