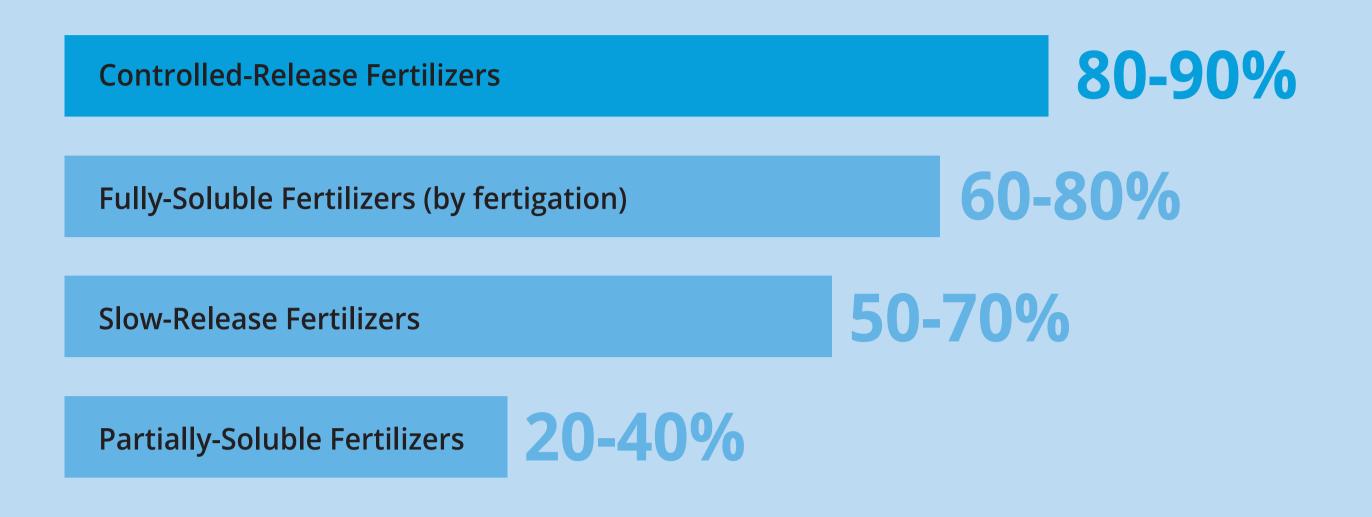
CONTROLLED RELEASE FERTILIZERS (CRF)

CRF is considered the fertilizer with the highest nutrient use efficiency.

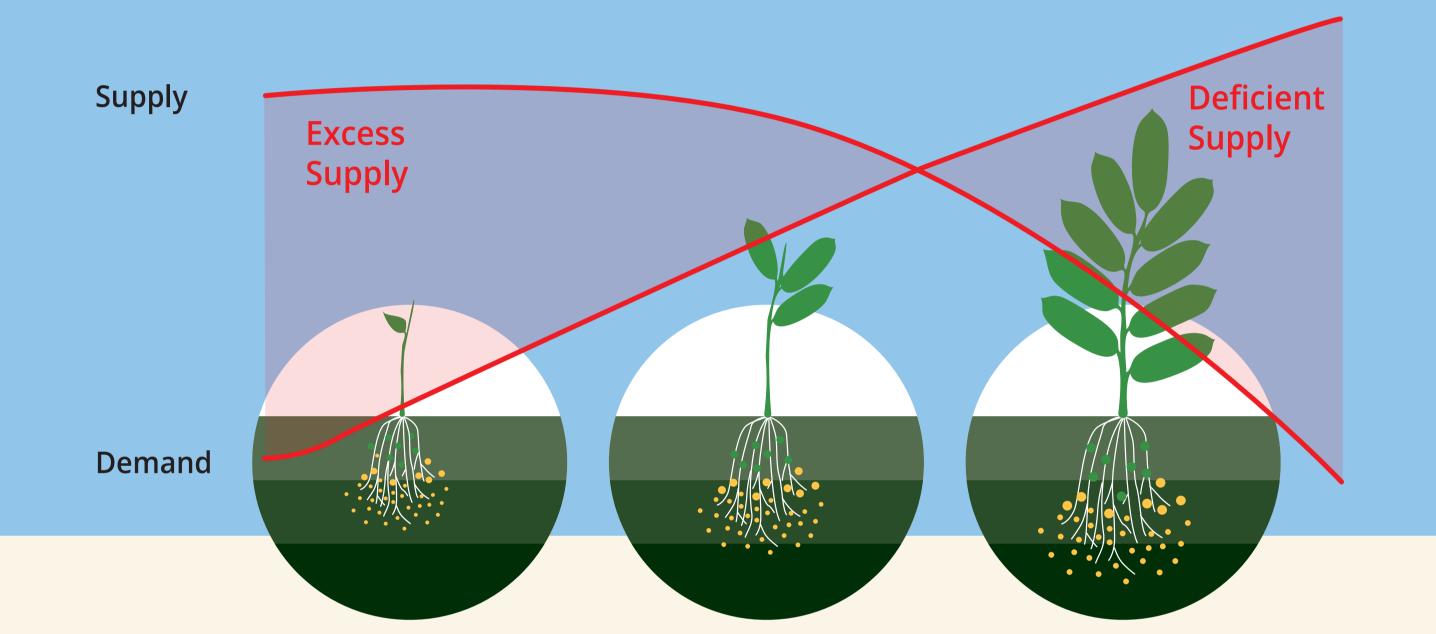
5 000 Mineral fertilizers are responsible for over half of the world's food production.



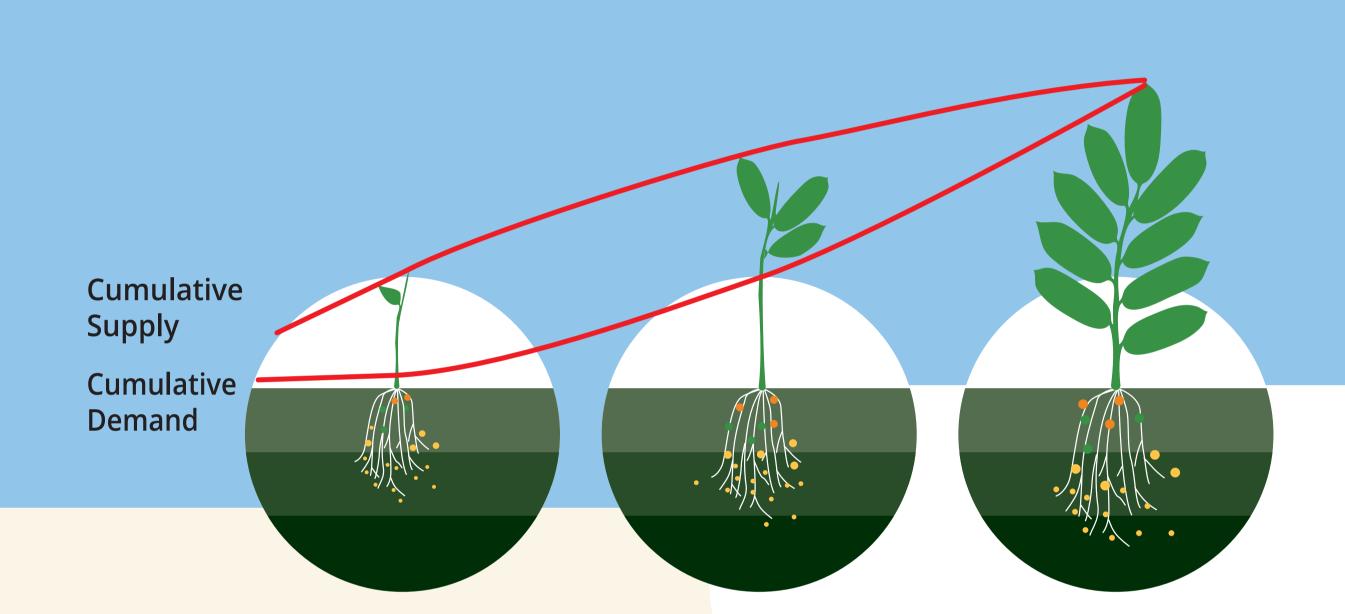
USE EFFICIENCY BY FERTILIZER CATEGORY



CONVENTIONAL FERTILIZERS



COATED FERTILIZERS



Coated fertilizers supply nutrients which match the demand of the plant to give optimal growth, efficiency and a reduction in leaching.

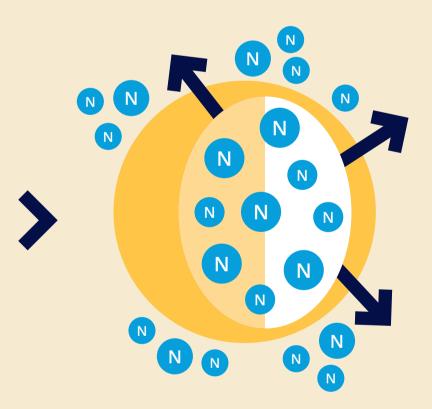
CONTROLLED RELEASE FERTILIZER MODE OF ACTION



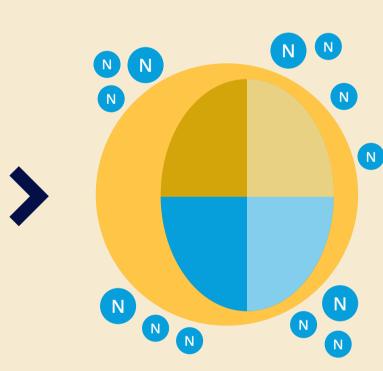
Influenced by soil temperature moisture penetrates the semi permeable E-Max coating and dissolves the nutrient core.



The moisture uptake and dissolution of the nutrient core results in buildup of osmotic pressure inside the E-Max coated granule.



The osmotic pressure causes the nutrient solution to release through microscopic pores in the E-Max coating.



The nutrients are fully released and the E-Max coating desintegrates into the soil.

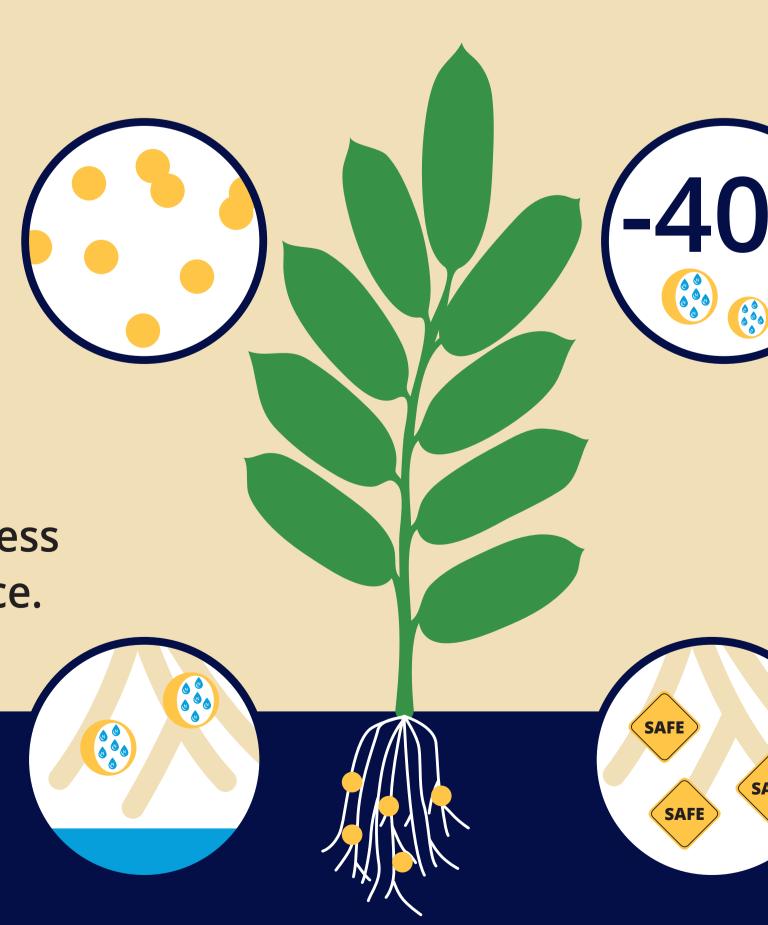
ICL SF APPROACH TO SUSTAINABILITY



BENEFITS

Due to continuous nutrient release, stress periods of deficiencies are avoided.

Due to the controlled release of nutrients, less leaching will take place.



Reductions of 40% of nutrients can be reached vs applications with conventional fertilizers.

Due to the gradual release of nutrients, the EC of the soil solution is not affected.

