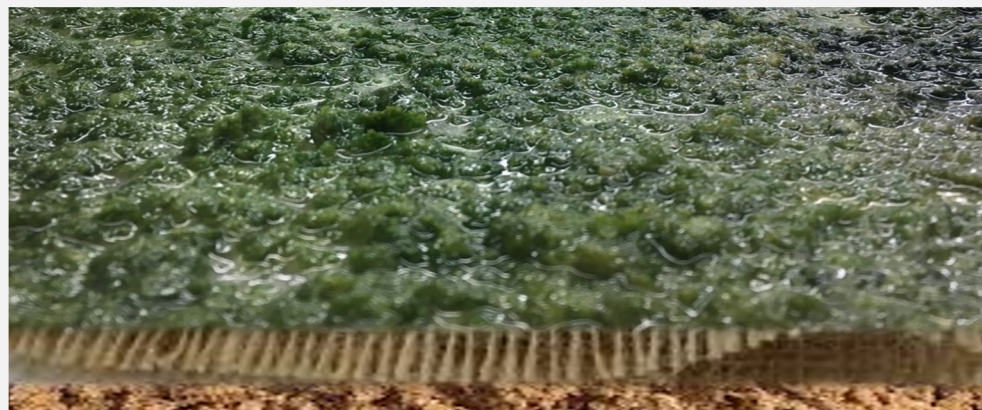
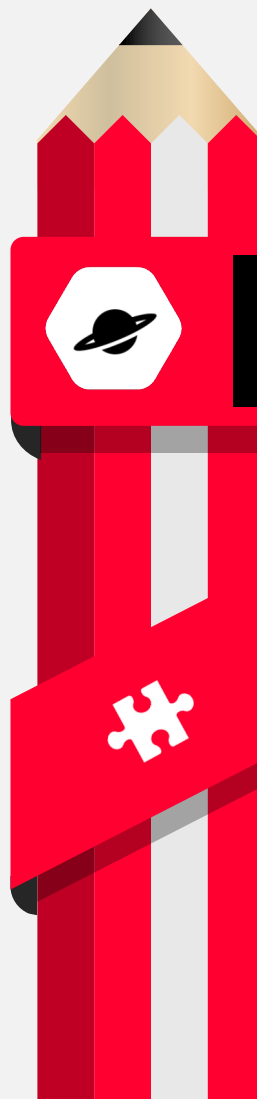


RECAP

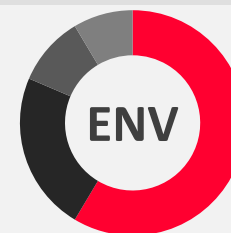
Integrated Strategy for
Rehabilitation of Disturbed Land
Surfaces and Control of Air Pollution



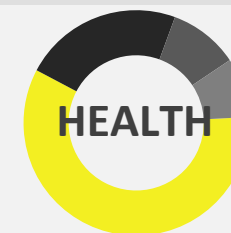
Biocarpet engineering: cyanobacteria growing on geo-prebiotic polysaccharide supports (jute) improving water availability and growth



RECAP application



Sustainable rehabilitation of degraded land surfaces, in line with UN goals



Prevention of harmful dust emissions into air and water; health benefits

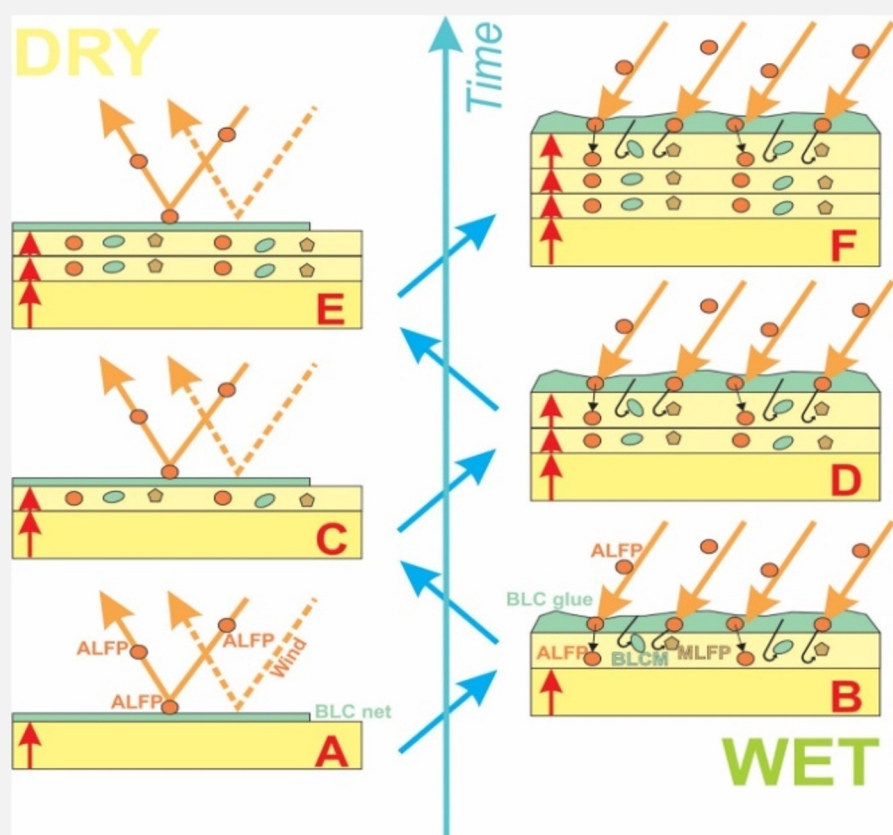


Positive impacts on the beneficiaries (industry, agriculture, tourism...)

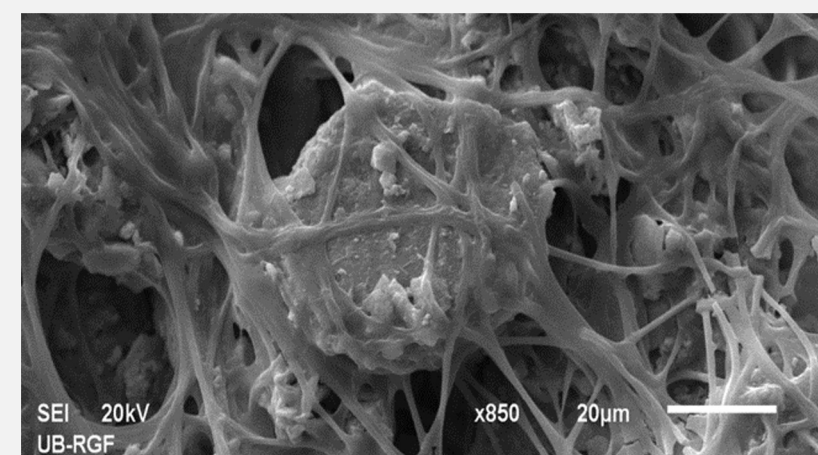
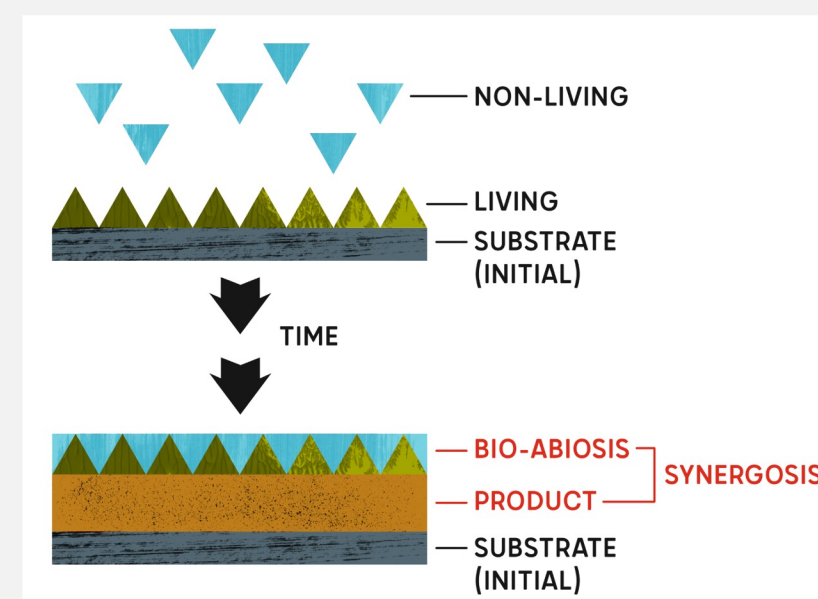
RECAP project, BLOCDUST hypothesis and SYNERGOSIS concept

SYNERGOSIS concept

Synergosis is a new term describing the beneficial physical and functional relations between biotic and abiotic components



Application Novelty Foundation



BLOCDUST hypothesis

Cyanobacteria with their sticky exopolysaccharides capture dust particles during wet conditions. During dry conditions cyanobacterial crusts protect accumulated material from wind and water erosion

=> Biogenic contribution to the origin of loess thought to be aeolian only.