

Blockchain 101

1









Network Verification





Verified Information Added to Blockchain



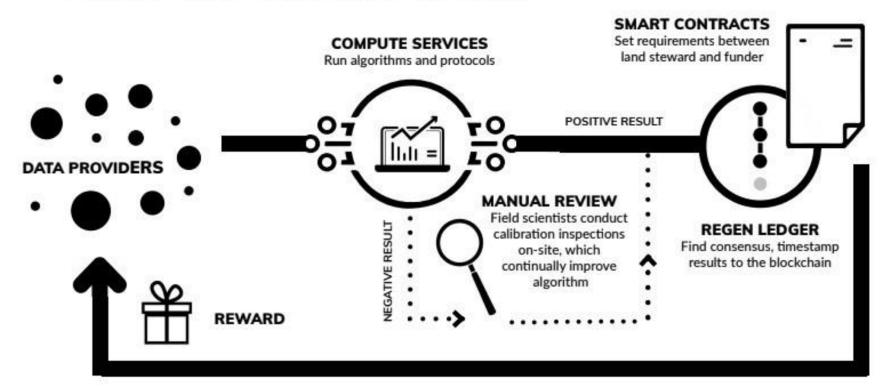
Ecological Agreement Verified and Approved







Data Verification Model



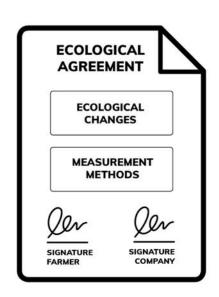


Ecological Agreements are context specific contracts between stakeholders to achieve clear and measurable outcomes.

Ecological Agreements

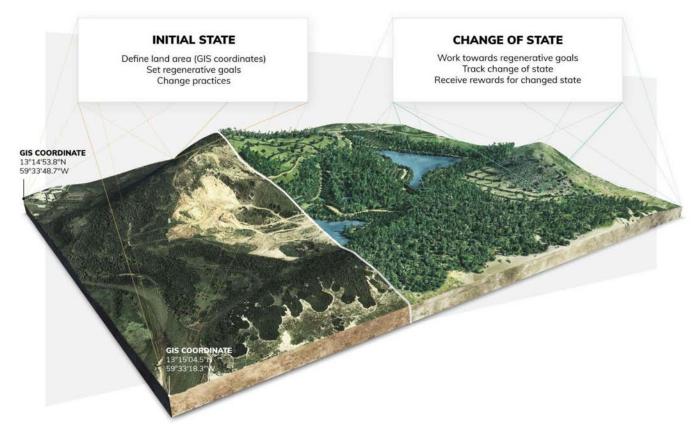
An ecological agreement contains a protocol (what is being measured, when, by whom and how), and digital signatures from two parties. It can also contain information about what happens when a certain outcome (eg. avoided deforestation in a defined location for a set amount of time) is achieved (eg. payments/rewards).







Walkers Sand Mine





The ESPs assessed so far...



Land conversion

Land cover change assessments for the Time of Interest (TOI). Which land covers were replaced with what?



Landscape diversity

Landscape composition analysis through diversity, richness and evenness indexes.



Carbon sequestration

Potential changes in the Carbon sequestration rates (ton C/ha.yr), according to land cover changes and data from similar systems



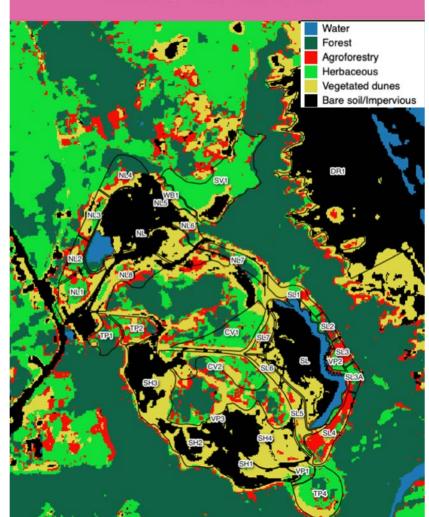
Land regeneration

Trends of steady changes in quantity, quality and development of vegetation through time, based on NDVI time series



Land CONVERSION

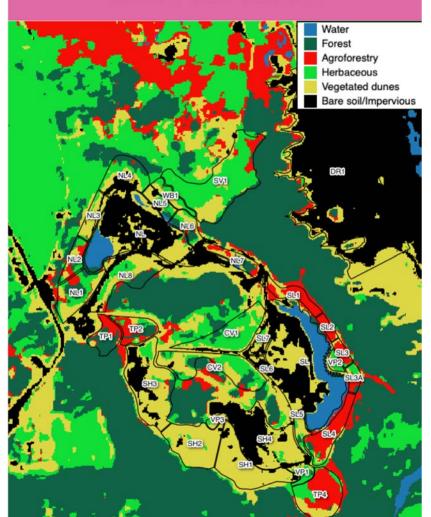
2017 PS- Knn - Dzetsaka





Land CONVERSION

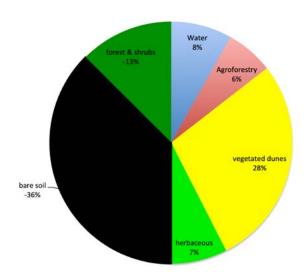
2018 PS- Knn - Dzetsaka





Land CONVERSION

Total areal change of land cover classess between 2017 and 2018



The overall net increase in vegetation cover estimated for the study area has been 3.6ha (8% of the area) between 2017 and 2018 wet seasons, due to:

- An increase in 3.4 ha of vegetated dunes
- An increase of 1 ha of herbaceous cover
- An increase of 1 ha of agroforestry
- Decrease in bushy/forest vegetation of 1.5 ha
- Water cover increased in 1 ha, mostly due to wetlands enlargement and restoration.







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