The Kubuqi Sustainable Model: ELION'S Smart Space Solution to PV-based Desert Control

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How to increase the investment in regreening deserts?

亿利 ELION TREELION

ELION KUBUQI Desert Model: Ecological Wealth

The Kubuqi Model & Largest Desert 3.4GW Solar Farm in China

600K+ ha Afforested Land

15.40M t Sequestrated Carbon

24.38B m³ Conserved Water Resources

18.30M t Produced Oxygen

349M Biodiversity Value

100K+ Population Lifted out of Poverty

400+ Innovative Desertification Control Technologies

1M+ Job Opportunities

6,667 ha Desert restored and controlled

4B kwh Average annual supply of green electricity

1.25M tons Standard coal saved annually

3.41M tons Carbon dioxide emissions reduced

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3D Ecological Industry

Elion Eco-Solar Desert Control Model





Photovoltaic Solar Energy + **Forage Grass Plantation** + **Animal Husbandry**

For every **1GW** solar farm, benefits include:

ENVIRONMENTAL

- Improve Energy Structure
- Emission Reduction **-600,000 tons**
- Dust & Haze Reduction **-120,000 tons/y**

ECOLOGICAL

- Panel Shading Utilization
- Evaporation Reduction **-800mm/y**
- Wind Speed Reduction **-1.5m/s**

SOCIAL SOCIETAL

- Provide Job Opportunities
- Increase Income/Person
- Rural Revitalization

ECONOMICAL

- Multiple Sources of Income
  - **Power Generation to Power Grid**
  - **Planting & Breeding Industries**
  - **Eco-tourism Industries**

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Automation in Desert Control

Ecological Big Data Platform

Elion distributes 20 large-scale comprehensive data monitoring and collection equipment in five major deserts to monitor ecological environment data, which provides scientific decision-making basis for desert management and ecological restoration.

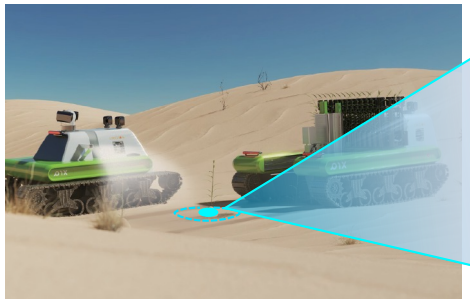
Ecological Big Data

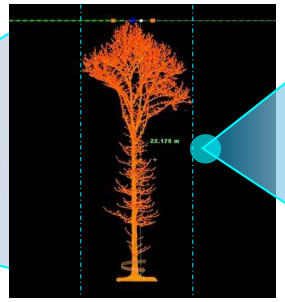
- Satellite Monitoring
- Land Monitoring
- Germplasm
- Robots & Drones Plantation
- IoT for Smart Irrigation

Intelligent Platforms

- IoT
- Blockchain
- AI

Robots automatically uploads information of the planted trees to the desert big data platform in real time, including carbon sink of each tree calculated based on AI algorithmic models, to the blockchain platform that provides services to carbon trading platforms.





Name	Saxaul
Longitude	108.954°
Latitude	39.682°
Serial Number	YL202109240001
Planation Date	2021-09-24
Plantation Method	Robots
Latin Name	Haloxylon
Family	Polygonaceae
Tribe	Haloxylon
Growth Form	Shrub
Height	70cm
DBH	2.4cm
Applications	Sand Stabilization, Greening, Medicine
Water Content	-
Carbon Sink	-
Blockchain	hashcode(ed84703f72e35c037.....)

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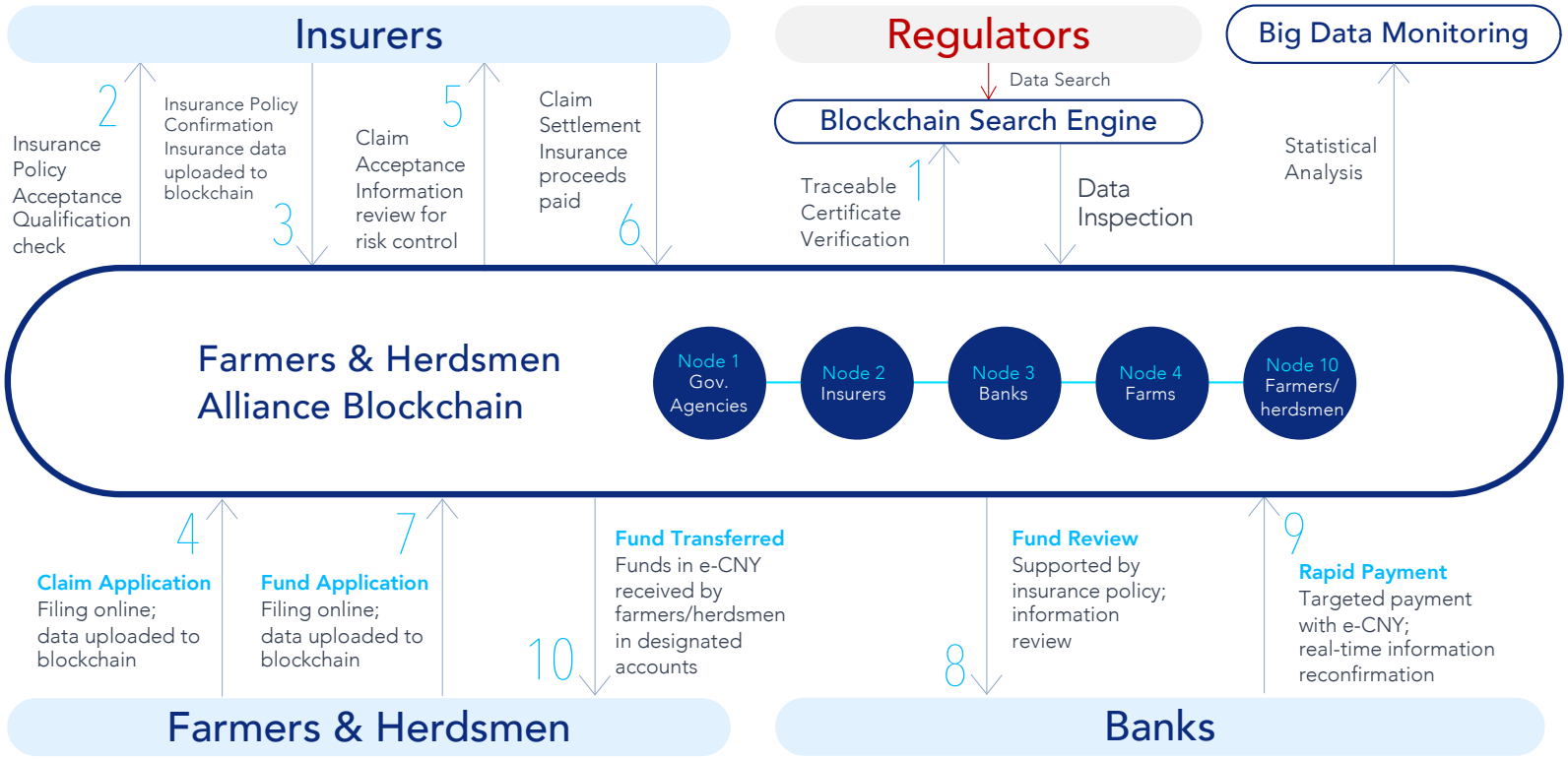
3D-structured Ecological Industry

Blockchain-enabled Financial Services



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