

"SUREG" application
of efficient flock/herd structure
for herders

*From Smart Herder to
Productive Livestock*

By team SPLICING of Mongolia

29th August 2023

Outline



**Problems
addressed**



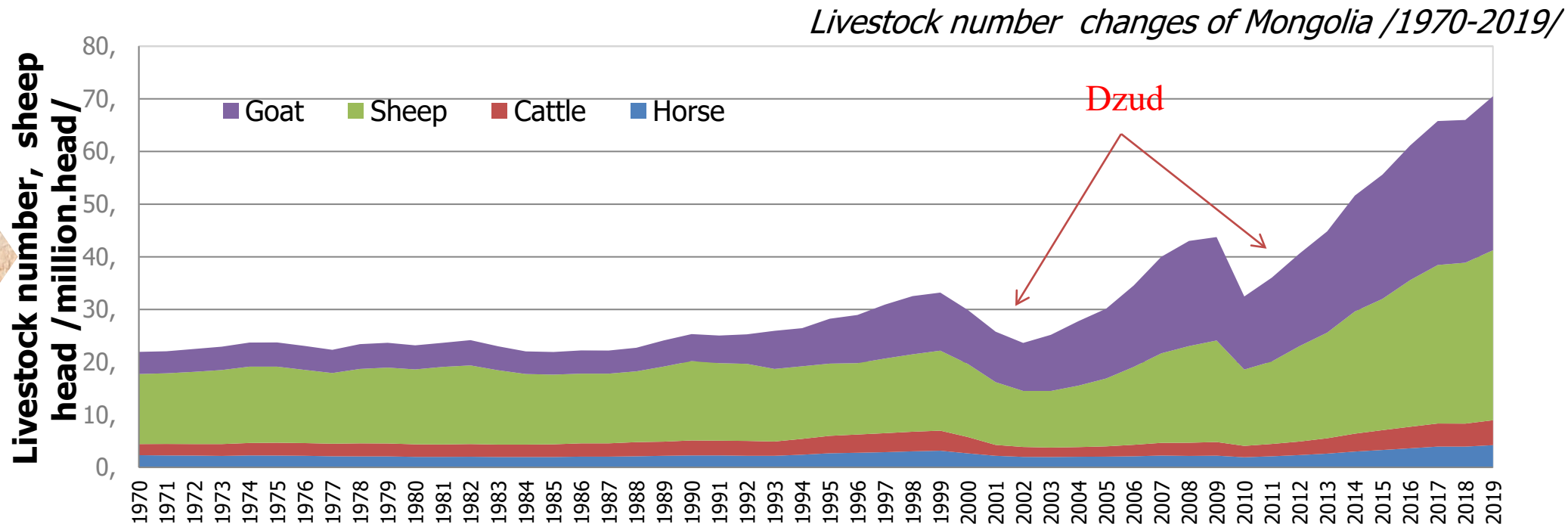
**Proposed
solution**



**Impacts and
development**

Problems addressed & need for the proposed solution

Grasslands and semi-arid grazing areas account for more than 80% of the land area in Mongolia, supporting almost 170 000 full time herder family groups 60% of the total population.



Herder incomes by encouraging increased animal numbers which has arguably contributed to the degraded state of grasslands

HERD INFORMATION



Animal type

Animal number

Animal age

Animal gender



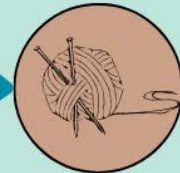
The sheep herd structure calculation



Meat productivity



Milk productivity



Wool productivity



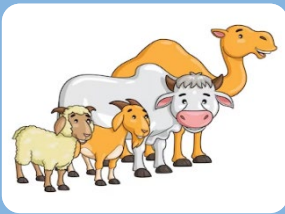
Calculation additional feed



Benefit calculation

Details efficient of the herd circulation calculation

Raising sheep for 3 years without calculation of herd circulation



160 496 heads



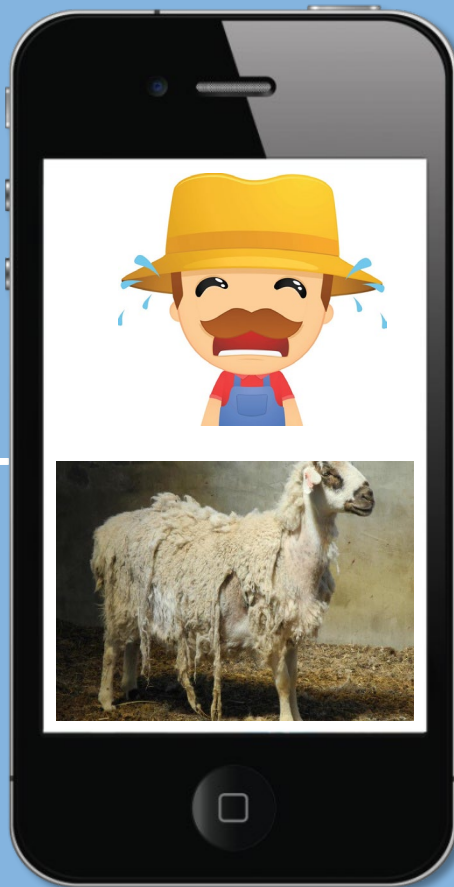
2,210,763 kg



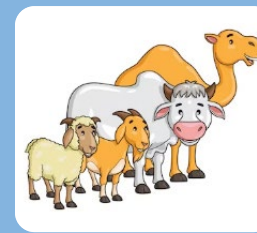
8,097,847 MNT



10,642,104 MNT



Raising the head of sheep for 3 years according to the calculation of herd circulation



66 396 heads



914,272 kg

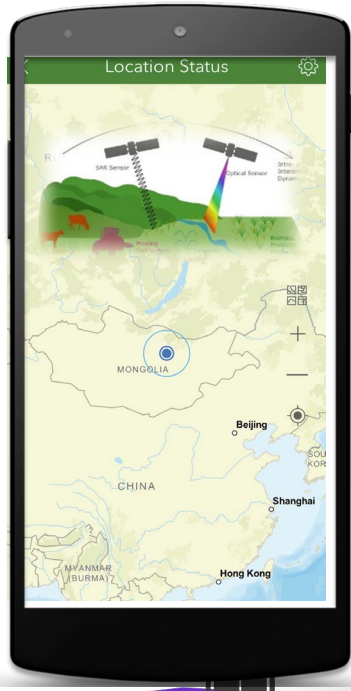


16,395,357 MNT

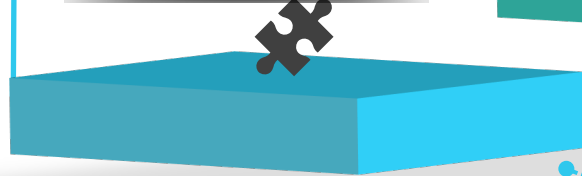
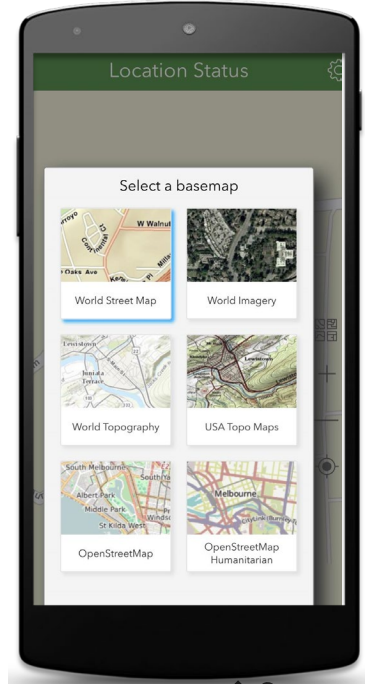


7,571,652 MNT

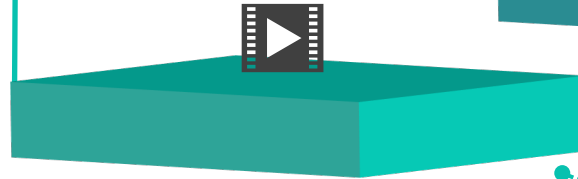
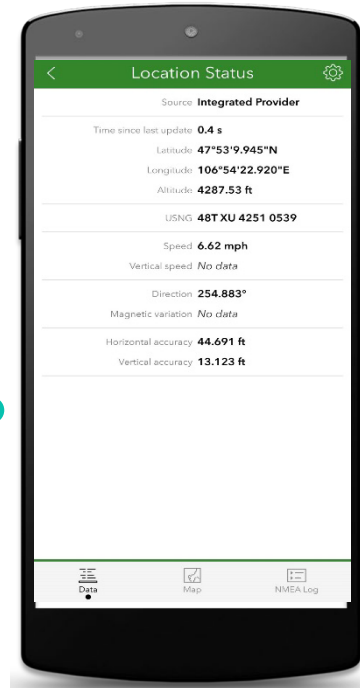
2023-2024



2023-2024

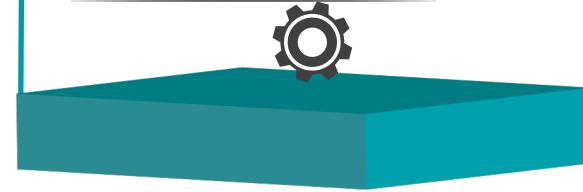
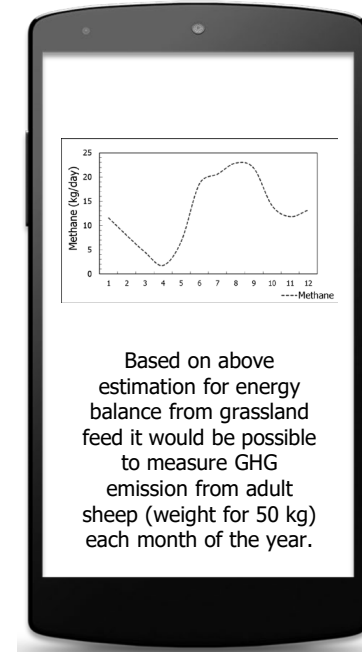


2025-2026



Develop GPS tracking & mapping based on app user seasonal location

2025-2026



Develop calculation GHG emission from livestock by sheep equivalent

Develop livestock performance & management calendar