

# Environmental Issue in Zaamar

Tuv province, Mongolia



LANDSCAPE ECOLOGY W-2019/2020

Bayartulga Altankhuyag

# CONTENT



1

## Introduction

General introduction of the topic and rationale

2

## Ecological condition

Ecological introduction, climate of the area

3

## Landscape

Characteristics of landscape of the area

4

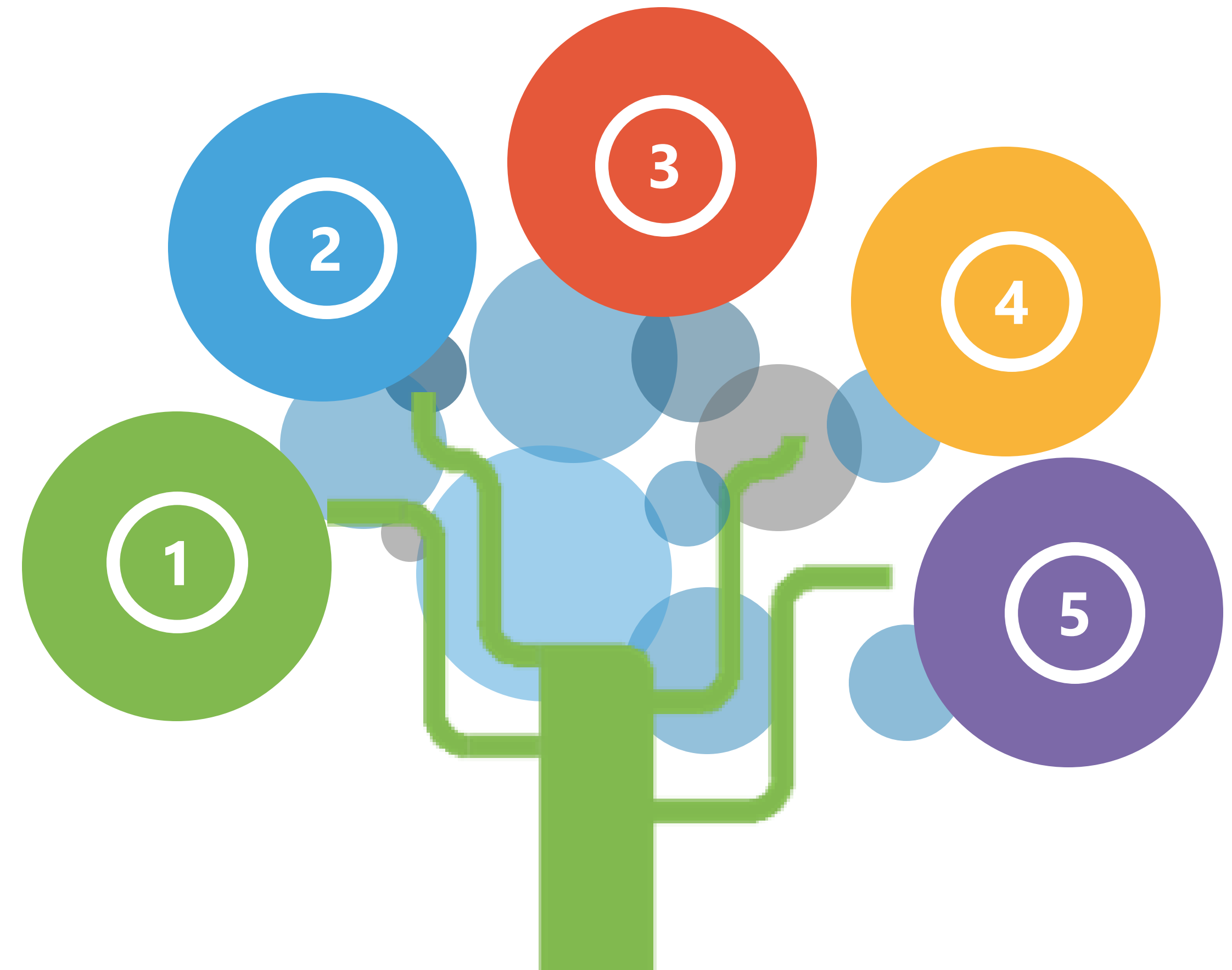
## Environmental issue

What is the most important environmental issue in the area

5

## Solutions

What actions could be solutions to this environmental issue



# INTRODUCTION

## Rationale



Although the mining industry accounts for a large part of industrial part in Mongolia, it impacts on the environment more than its benefit. Due to the large gold resources in Zaamar soum of Tuv province, there is a lot of illegal mining.

In other words, no one is responsible for the environmental loss. This presentation will demonstrate some experiences I possessed while working there as an environmental specialist and try to explain some solutions for the area.



# ZAAMAR SOUM

Map, Geographical location, Climate

Zaamar soum is a continuation of the Khentii mountain range.

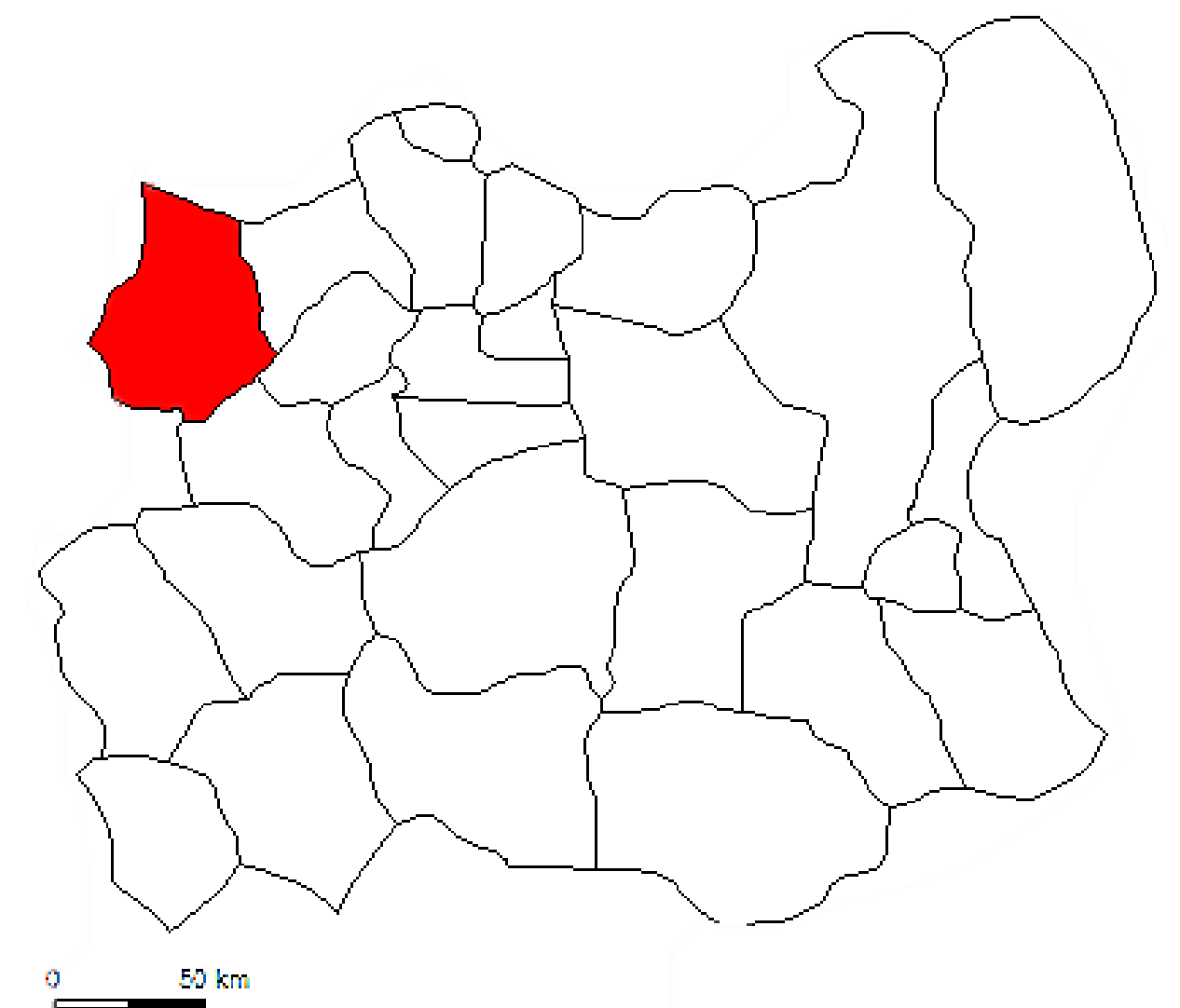
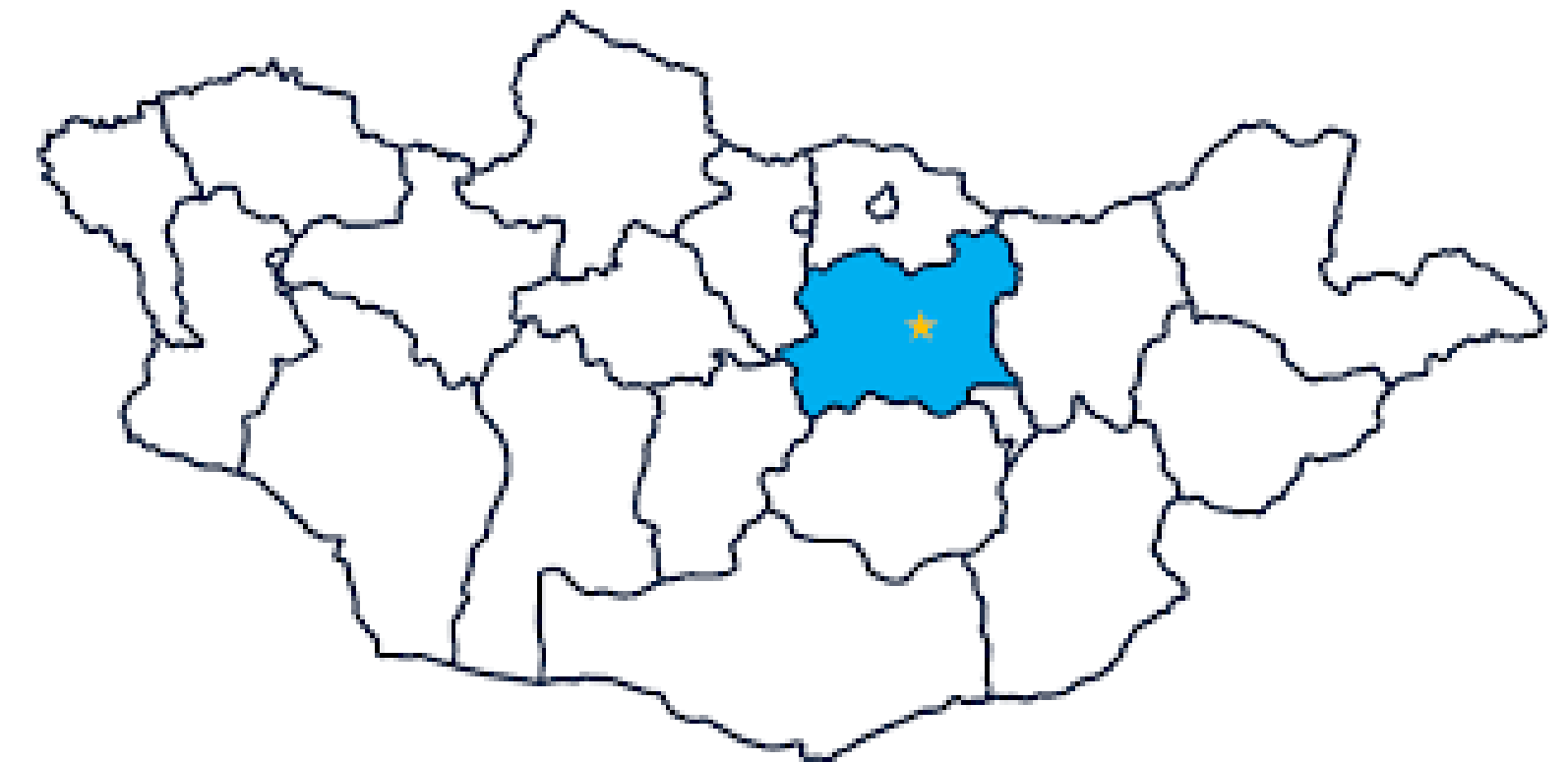
The wide mountain valleys in the northern part of the country have brown soils which suitable for agriculture, and the southern part is a steppe with hills.

The climate is sharply continental.

Dry summer with an average temperature of 22°C in July

Severe winter with an average temperature of (−28 °C) in Jan

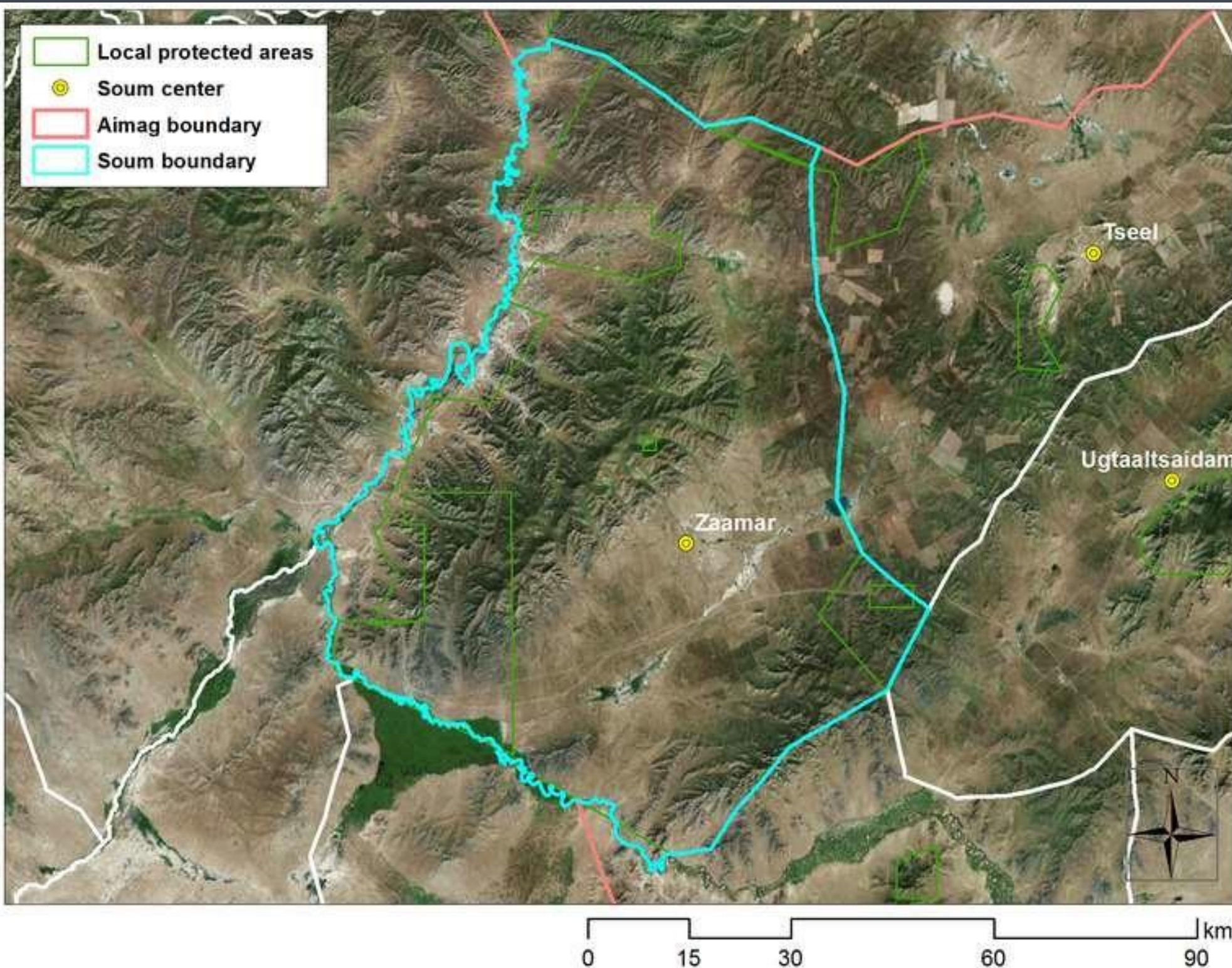
An average of 200-300 mm of precipitation falls annually.



Total area: 2900 km sq.    Altitude: 1500-1780m



## Map of Zaamar soum



# LANDSCAPE CHARACTERISTICS

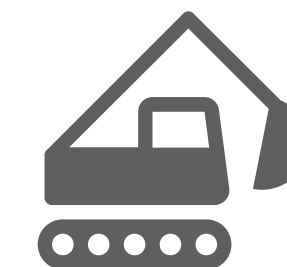
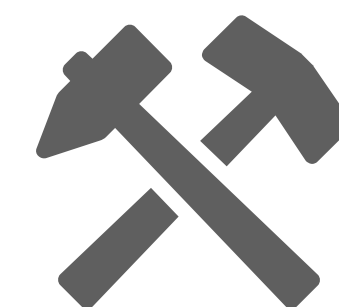


## Landscape

Zaamar belongs to the Khentii mountainous region, which has a well-developed river network, abundant permafrost, high moisture content compared to other large regions, and a sharp continental climate.

## Landscape substructure: Tertiary

Socio-economic phenomena, especially mining, has impacted strongly in the area.





# ENVIRONMENTAL ISSUE

Irresponsible mining





# ENVIRONMENTAL ISSUE

Illegal mining (Individuals called as “Ninja”)





# POSSIBLE SOLUTIONS

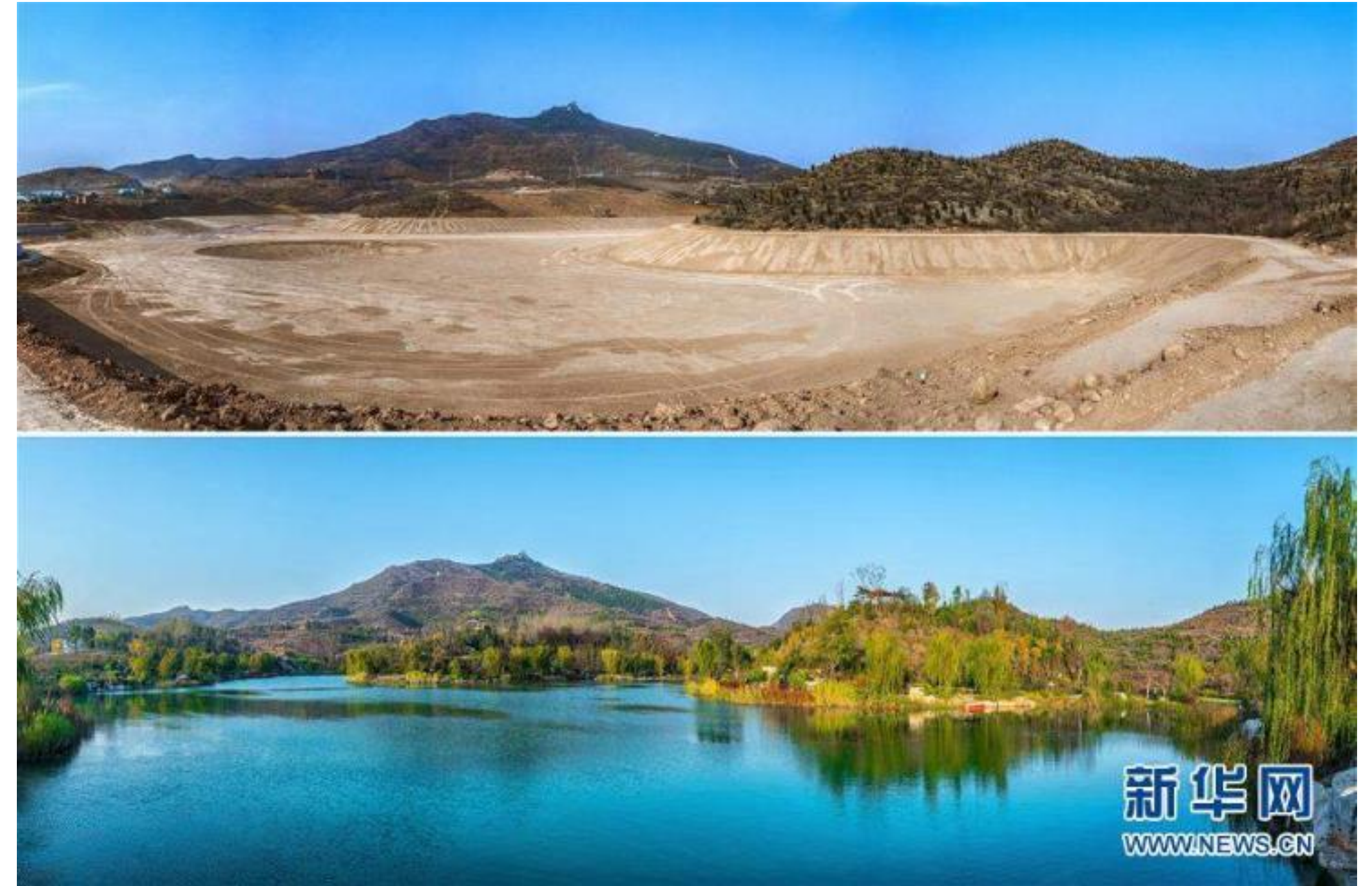


**What actions can be solutions to this environmental issue,  
and how to deal with it?**



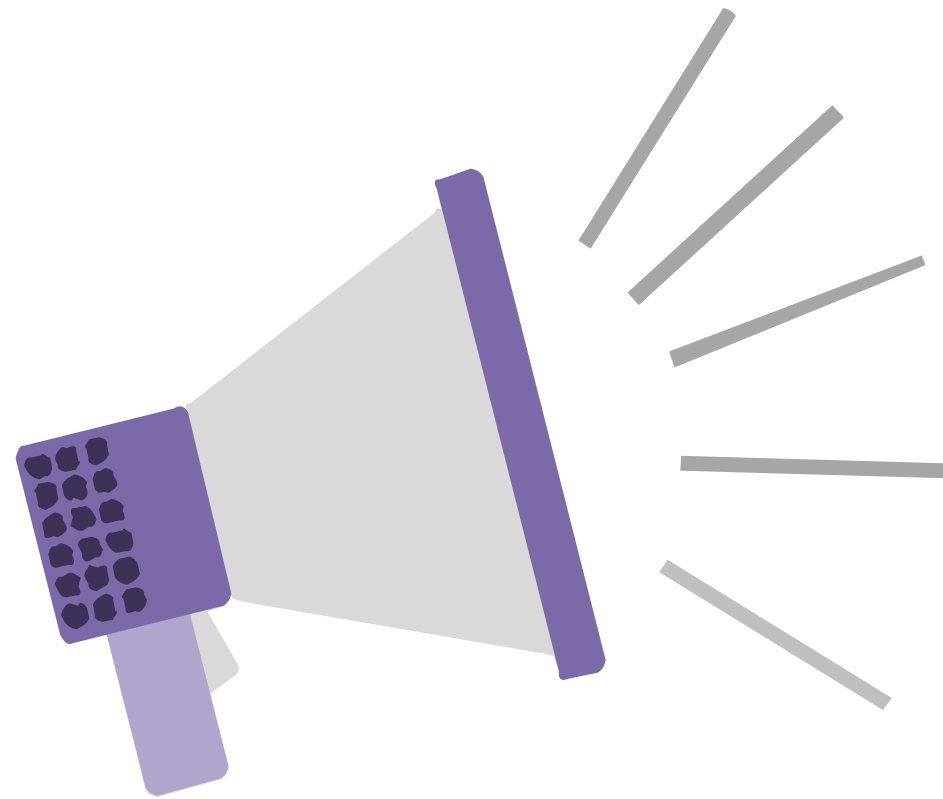


# Strengthening and amending the law on mining activities



State should check regularly and let companies to do restoration up to standard





## **To increase public awareness of mining impact on the environment**

Mining is not only about earning money or gold, but also it is about the environment



## **To provide workplaces for ninjas “illegal individual miners”**

The economy of Mongolia is traditionally based on agriculture and livestock. Thus, support “ninjas” to work in the field of agriculture.





### **To increase the number of environmental specialists**

State needs to consider importance of environment and promote professions related to environment for young pupils



### **To seek financial aid for restoration work in the destructed area from possible funds**

Locals, administration sectors could write project proposals of restoration area for international funds





*Wear facemasks  
and stay healthy!*

# THANK YOU FOR THE ATTENTION



**Bayartulga Altankhuyag**  
yaltankh@mendelu.cz