Linpan is an unique landscape in Chengdu Plain of China, with scattered living and producing units and has high resilience for long history. However, this landscape is decreasing after China’s urbanization process started from 1990’s. Our research is to use GIS as a monitoring tool to do ecology assessment for linpan and find the relationship between the changes of linpan and urbanization. The final purpose is to arise the local government attention for linpan and develop a basic principle for future preservation work.

### Linpan Assessment Model

#### Introduction

- **2002**
- **2010**
- **2014**
- **2015**
- **2017**
- **2018**

#### Extracted Elements

- **Linpan - Vegetation**
  - Area
  - Boundary
  - Shape
  - Aggregation
- **Road**
  - 1st, 2nd, 3rd
  - > length
  - > Distance

#### Working Process

1. **Step 1 - Extract Basic Elements**
2. **Step 2 - Basic Calculation**
3. **Step 3 - Context Map**
4. **Step 4 - Aggregation Index Calculation**
5. **Step 5 - Reggregation Analyze**