

What we get

What we do

### Project Establishment

#### Questionnaire

Cognition of desertification and desertification control situation

Control effect of desertification area

#### Authoritative organization visits

##### Shaanxi Institute of Desert Control

Put in grass grid

Cultivate plant community later

Improvement of the experimental design

Promotion of the next step of HP

##### Shaanxi Yulin Rare Sandy-plants Conservation Field

Increase of vegetation coverage

Creativity of our project

##### Xiaojihan Forest Farm in Yuyang District

consideration of cost and scope of application

Plan improvement of actual production

# Integrated Human Practices

### Project Progresses

#### Desert soil sampling

provide data (the content of moisture, inorganic salts, etc. of desert soil) for model construction

##### Southern China Regional Online Meeting

Brainstorm

Consider the feasibility of the project

##### Shaanxi Meetup

Project exchange

Sequence information

Plasmid

Project modeling

##### Xinan Meetup

Project improvement suggestions

Analysis of the mechanism of the suicide system

Establishment of accurate model

##### Anti-escape system

Discussion of suicide switch design

Design the suicide switch of the arabinose operon

##### The 7th Conference of China iGEMer Meetup

Project evaluation by experts

Improvement of co-cultivation

##### Symbiosis system, polysaccharide extraction identification and modeling

Co-cultivating cyanobacteria and Bacillus subtilis

Extraction and identification of polysaccharides

Spores and cyanobacteria motility

##### Bacteria and desert simulation box

Screen strains

Conduction of wind erosion experiments

Bacteria's survivability and spreading effect

##### Desert soil ecology and microbial ecology

Verification of the feasibility of the symbiosis system

#### Meetup

#### Interviews

### Project Future

#### Interview with Researcher Qu Jianjun

Assistance for desert test sites

Project future development plan