

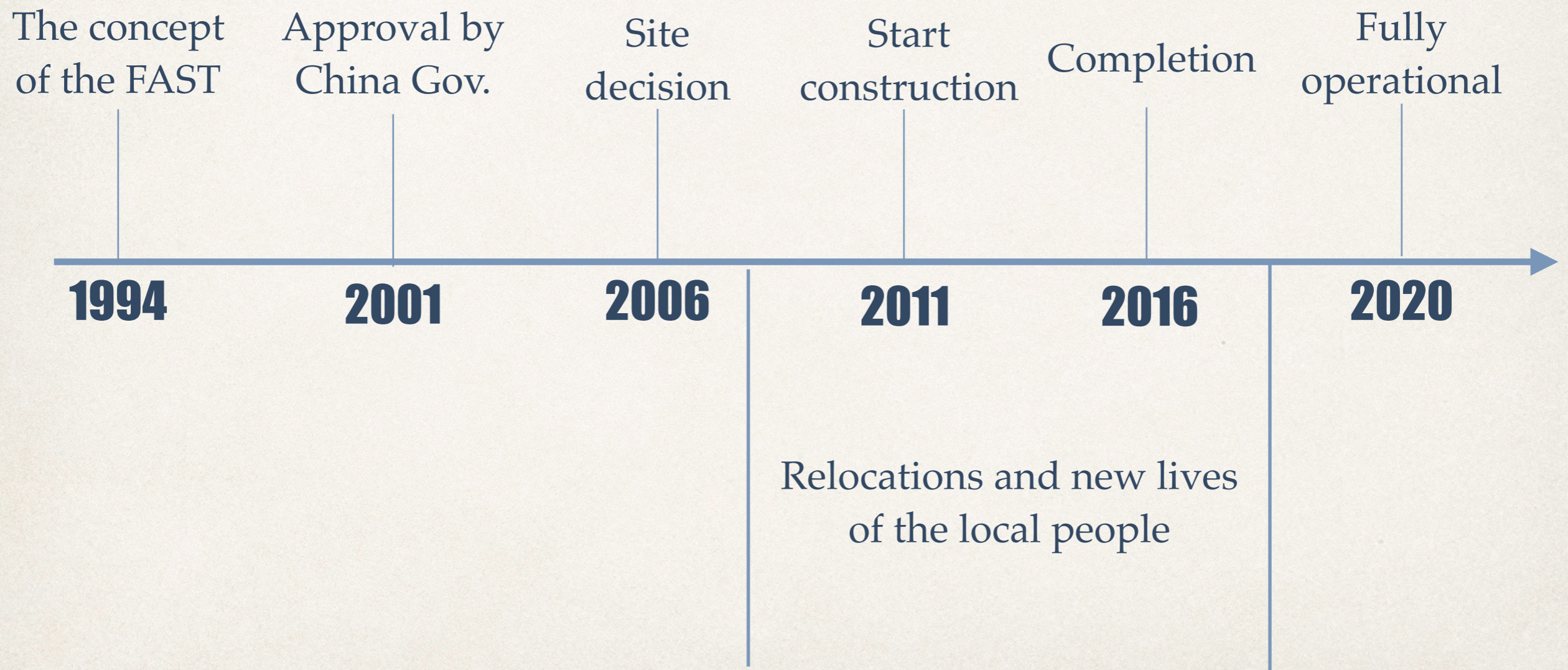


Life changes of the local residents around the FAST site

— Rui Luo (CASS-ATNF)

I would like to acknowledge the natives around the FAST site for their relocations, which was the prerequisite that made the gigantic telescope come into being.

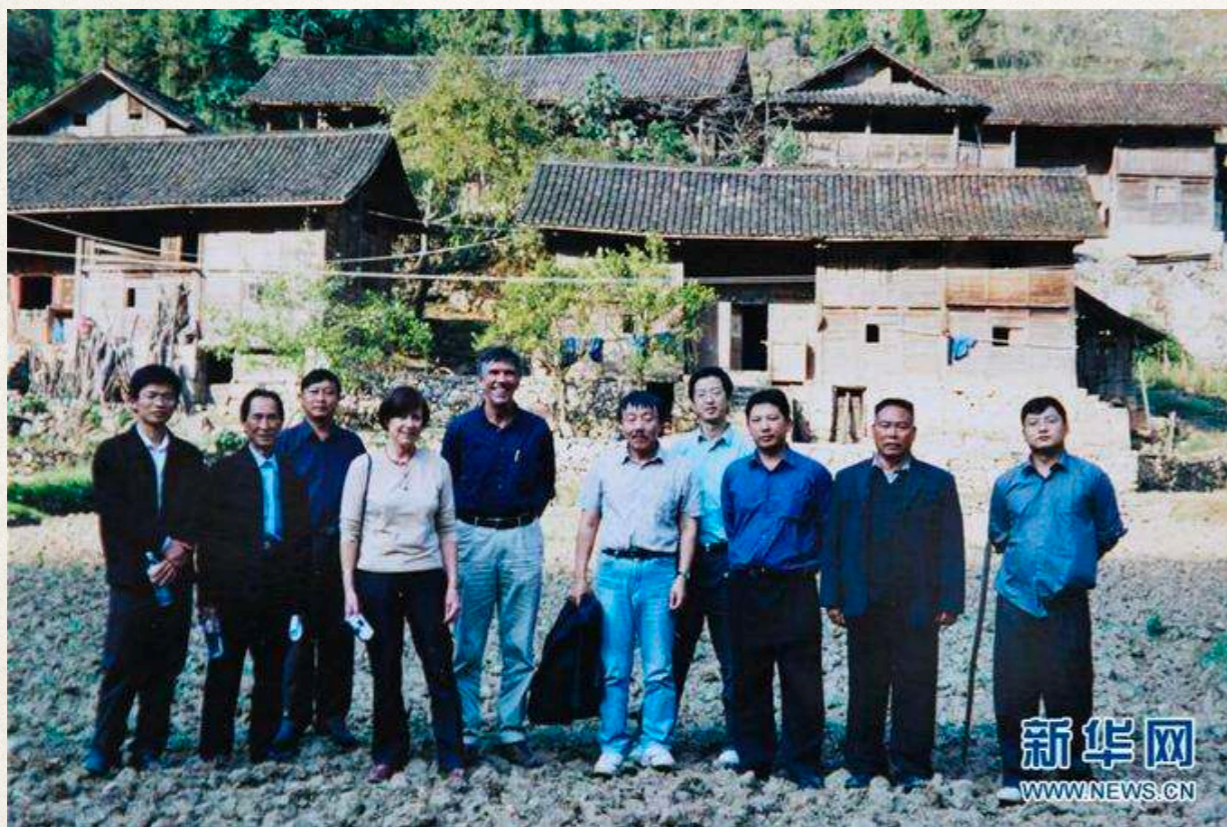
Timeline



The relocations

When the story began...

❖ Site selection: 1994 – 2004



Rendong Nan's team, worldwide radio astronomers and the local residents of Dawodang



Dawodang Depression

- ❖ What it used to be: A small village with 12 households, very remote and isolated.



Chaofu Yang, who was be one of original villagers at Dawodang, was pointing towards the land of his family.
(Picture Credits: Web. of Guizhou Gov.)

The early relocation

- ❖ Moving started in 2008



- ❖ Relocated to new houses in *Kedu Town*



Picture Credits:
Guizhou TV News/
Chinanews.com

Construction phase

❖ 25 Mar 2011 — 25 Sep 2016

Picture Credits: NetEase



Mar 2011



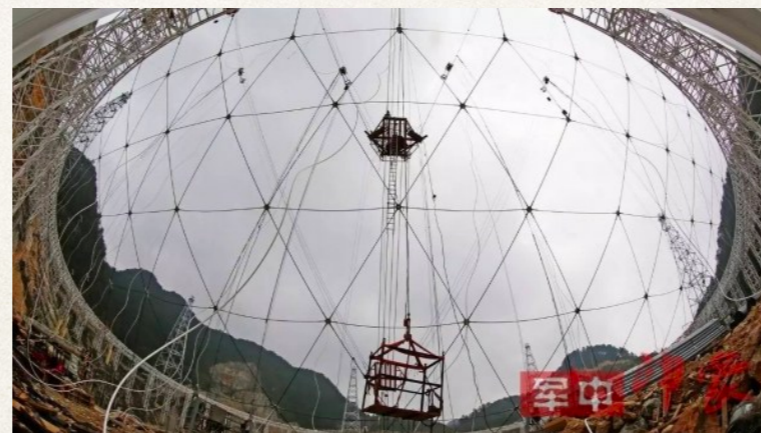
Dec 2012



Dec 2013



Mar 2014



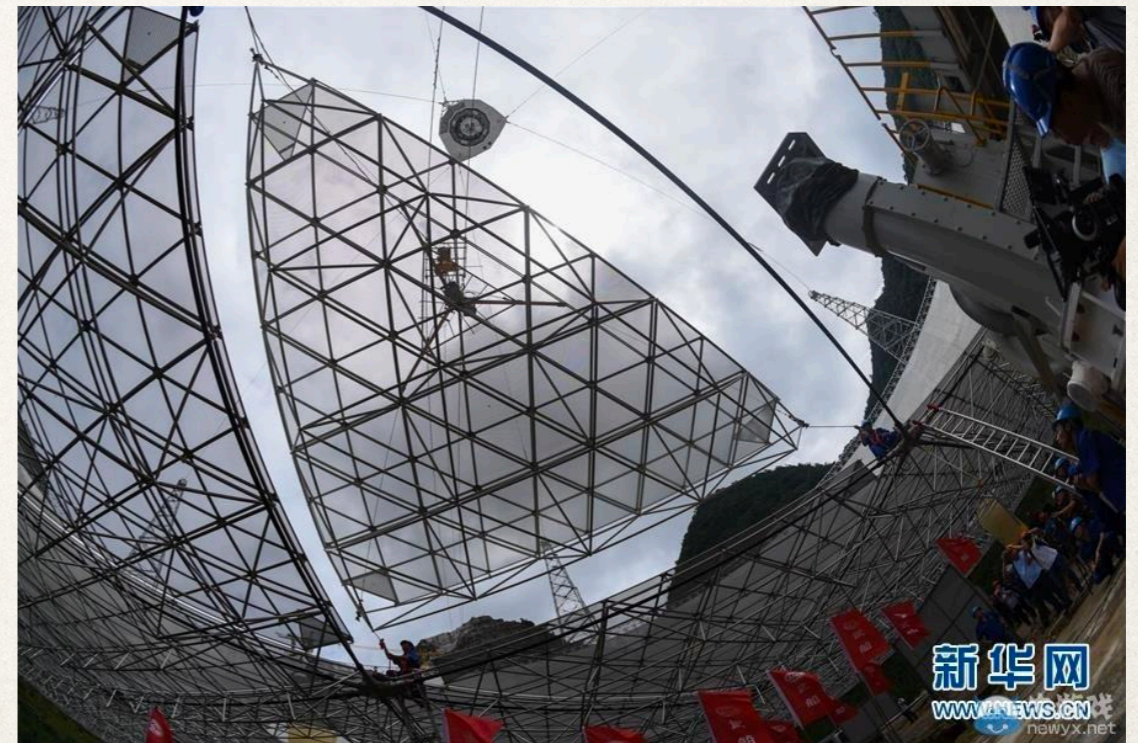
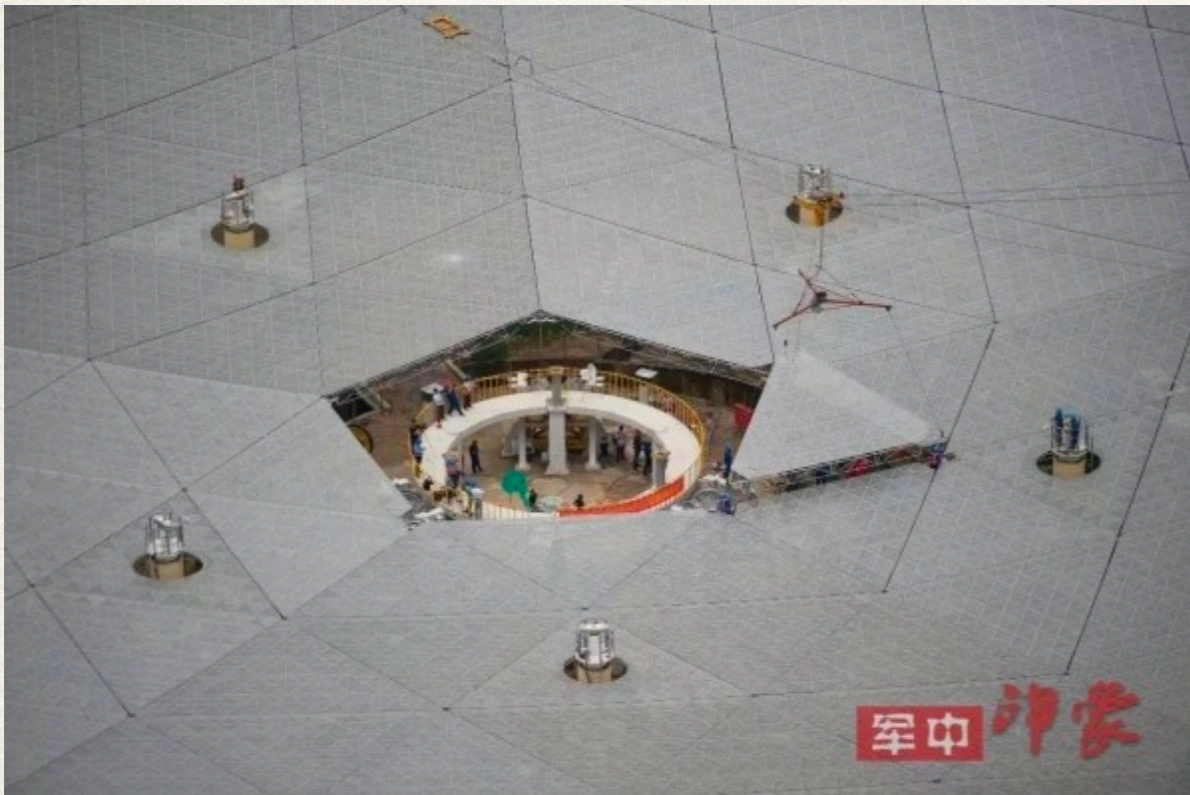
Jul 2014



Aug 2015

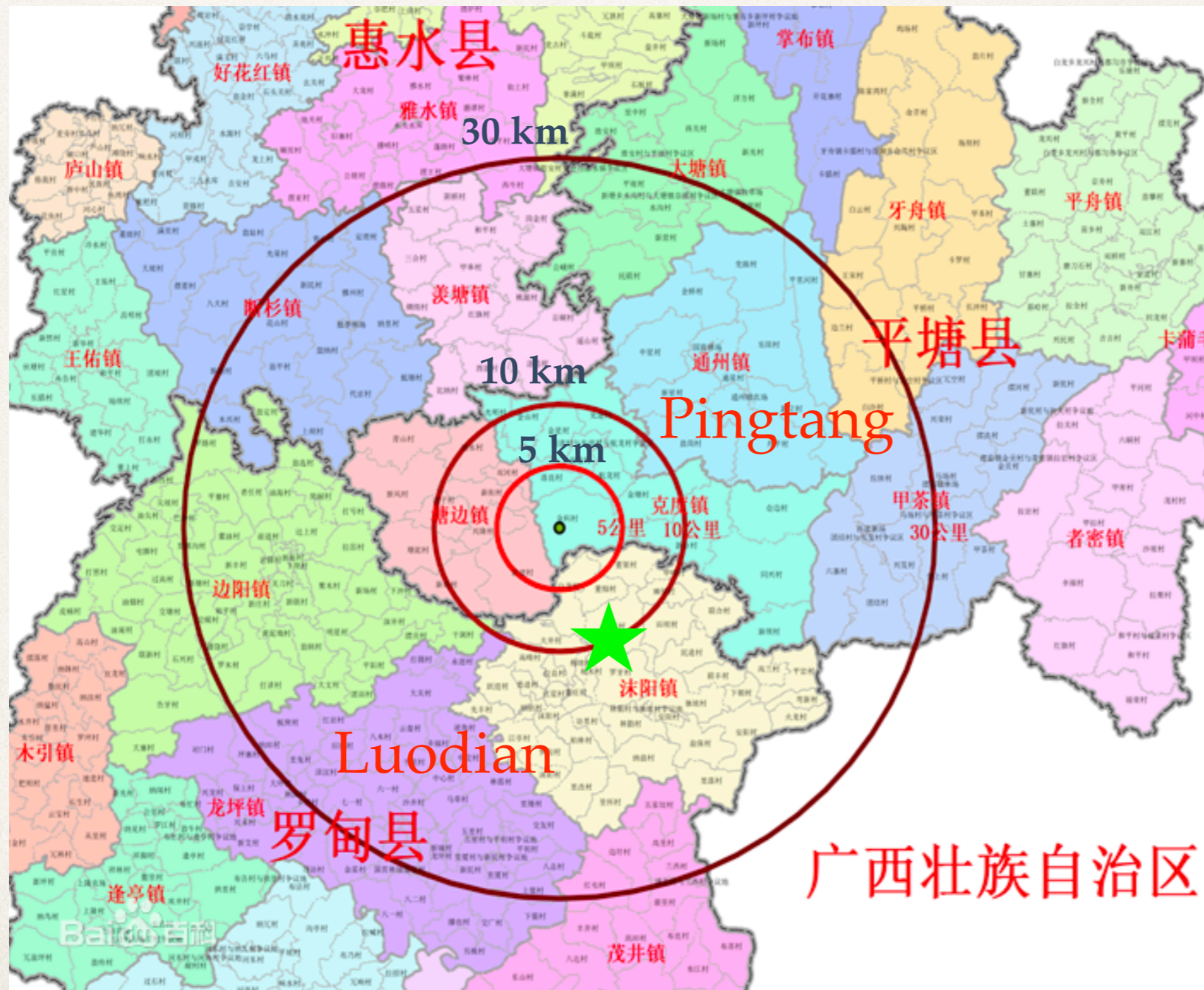
Completion

- ❖ Installation of the last surface panel on 3rd Jul 2016
- ❖ Rising the feed cabin



Picture Credits: NetEase / XinhuaNet

Radio Quiet Zone



New relocations

- ❖ In the 5km-radio-quiet area (including parts of Pingtang and Luodian)
- ❖ 5000+ residents relocated to the *Astronomy Town*.



Impacts

- ❖ On the other infrastructure:

- ❖ Airport: The proposal of civil airport of **Luodian** County has to be **canceled**.
- ❖ Traffic network: block original multiple roads, one road is allowed only to the FAST site.

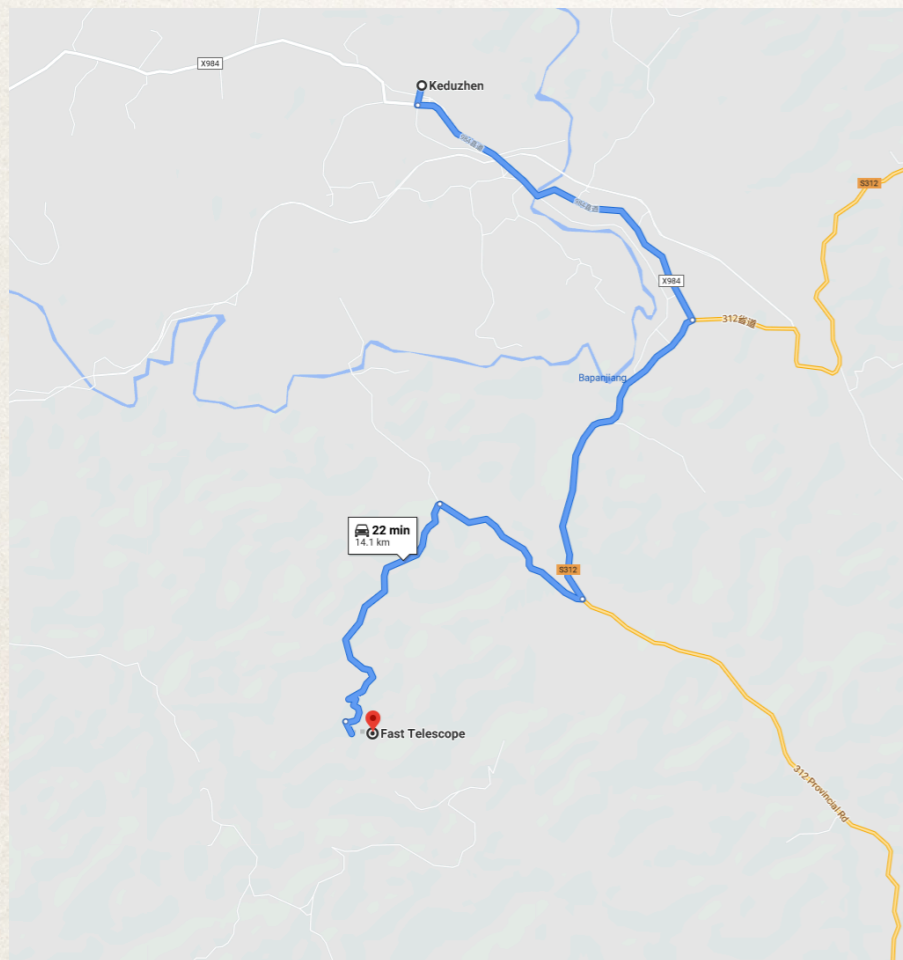
- ❖ On people's daily life:

- ❖ The signal strengths received by mobile phones:
 - ❖ No signals at all in the innermost area (<5 km)
 - ❖ Weaker than previous ($5\text{ km} < d < 30\text{ km}$)
- ❖ Number limit for daily tourists:
 - ❖ Economic development may be constrained due to inconvenience in the RQZ.

Life changes since the relocations

Kedu

❖ Nearest town to the FAST



Kedu

- ❖ Astronomy-named restaurants, hotels, markets, etc.



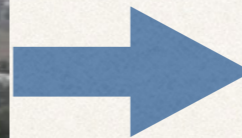
Tiān Wén
天文
Astronomy

Picture Credits:
sohu.com



The Astronomy Town

- ❖ Original village: Hanglong (near Kedu)

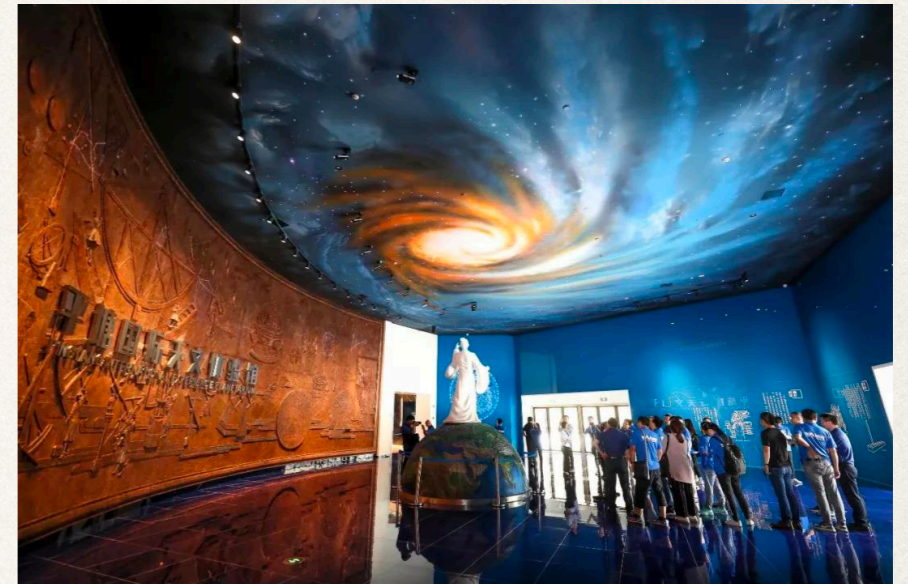


The Astronomy Town

- ❖ A modern town built for the FAST tourism
- ❖ Science popularisation and education



Picture Credits: sohu.com &
Pingtang Wechat Official account



The Astronomy Town

- ❖ Emerging modern hotels, restaurants, agritainment, etc.



Picture Credits: Pingtang Wechat official account

Livings

❖ Selling and catering for tourism



Featured cloth made by Bouyei people
(Original residents of Qiannan Prefecture)

Picture Credits: People's Daily



A restaurant managed by the local people
around the FAST site

Livings

❖ Agritainment



Picture Credits: Pingtang Wechat official account

Specific benefits

- ❖ For the original residents at Dawodang:

- ❖ Traffic isolation disappeared
- ❖ New spacious and modern houses relocated
- ❖ Incomes increased significantly
- ❖ Education for children gets better



- ❖ For the local people in the RQZ:

- ❖ Allocated apartments
- ❖ Start-up opportunities from tourism
- ❖ Poverty reliefs in the full area



An auto repair shop in Kedu
(Picture Credits: Pingtang Gov)

General benefits

❖ Education popularisation:

- ❖ More primary and middle schools built
- ❖ 100% educated children from the remote villages

❖ Employments:

- ❖ Hotels and lodges: 6 -> 137;
- ❖ Restaurants: 8 -> 288;
- ❖ 1200+ jobs were offered to the local people.

❖ Annual Incomes:

- ❖ Individual: ¥ 20k+ (\$ 4k+)
- ❖ Agritainment: ¥ 200k+ (\$ 40k+)
- ❖ Start-up factories: ¥ 1M+ (\$ 200k+)

❖ Cultural promotion:

- ❖ For **Bouyei** minority: languages, festivals, buildings, food, costumes, etc.



One word in ten years

Returning to the site

❖ 2007 — 2017

Bo Peng

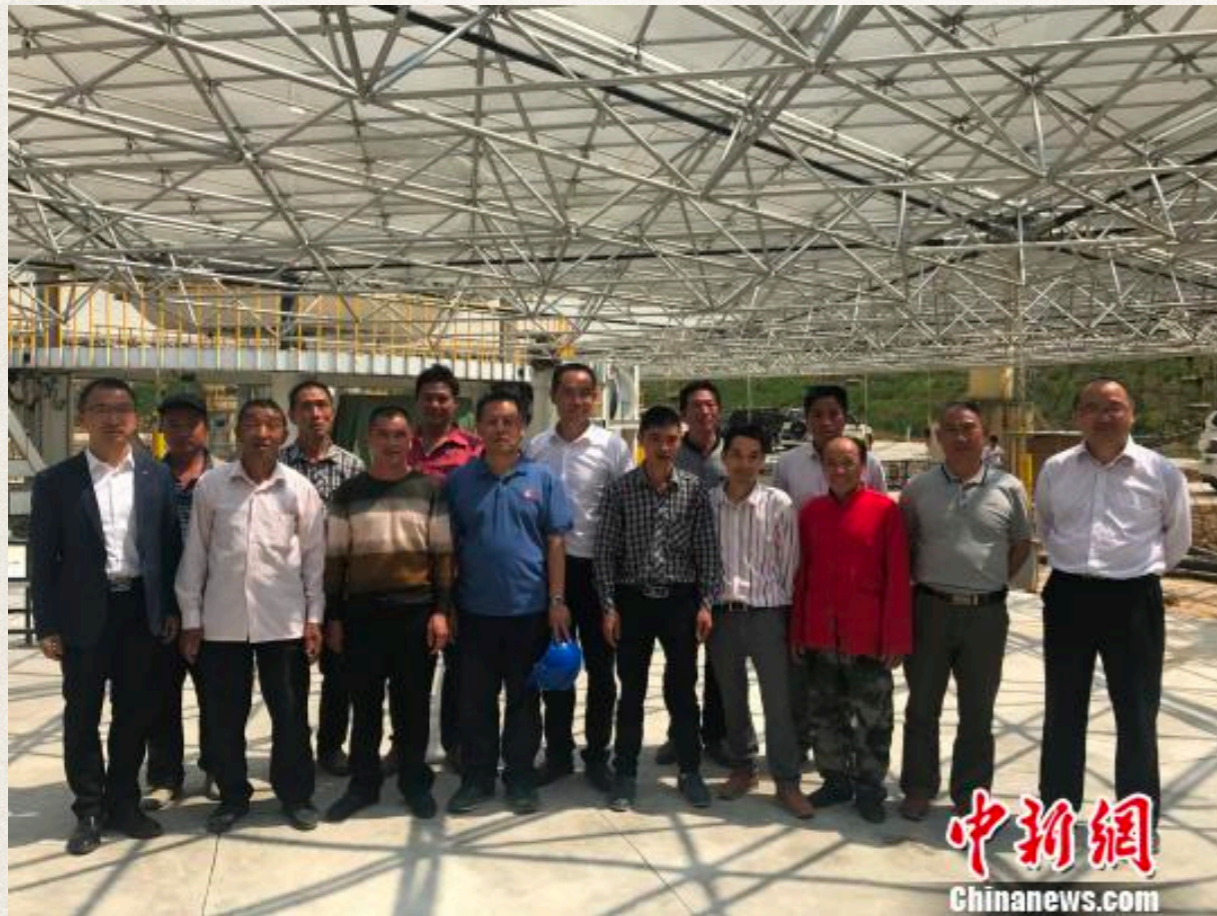


Bo Peng



Returning to the site

❖ 2007 — 2017



Returning to the site

❖ 2007 — 2017



Subtitles

Peng (vice manager of FAST): *Does the dish look like what you imagined?*

Yang (local resident): *Much better than what I've ever thought.*

The stories are to be continued ...