



New solution Effectively reduce water and energy loss

UAV

Heating network health inspection system

Tangshan Xingbang Pipeline Engineering Equipment Co., Ltd

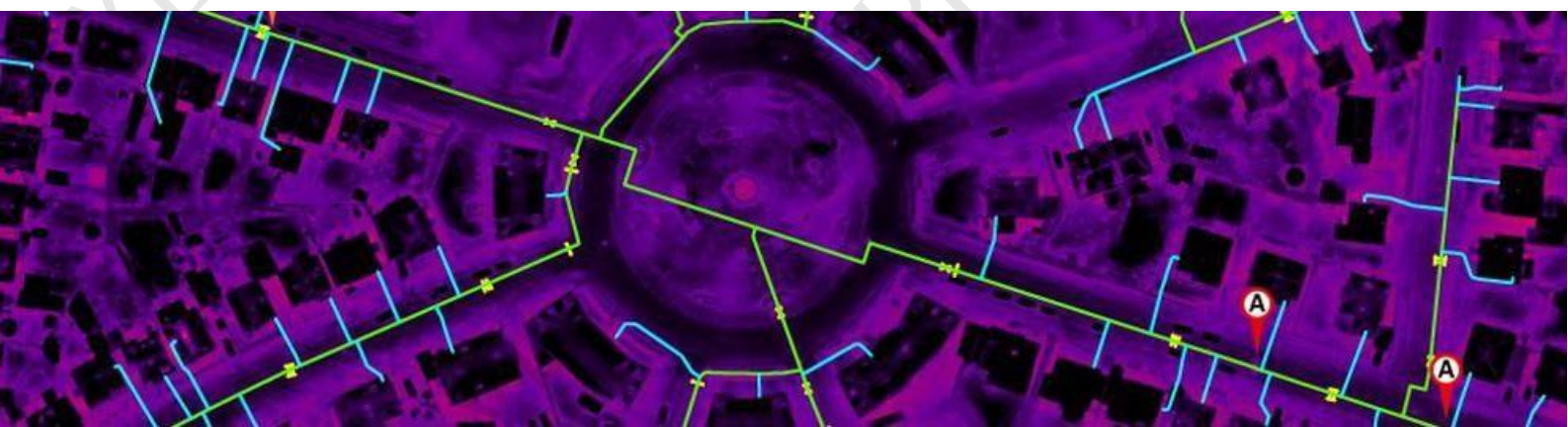
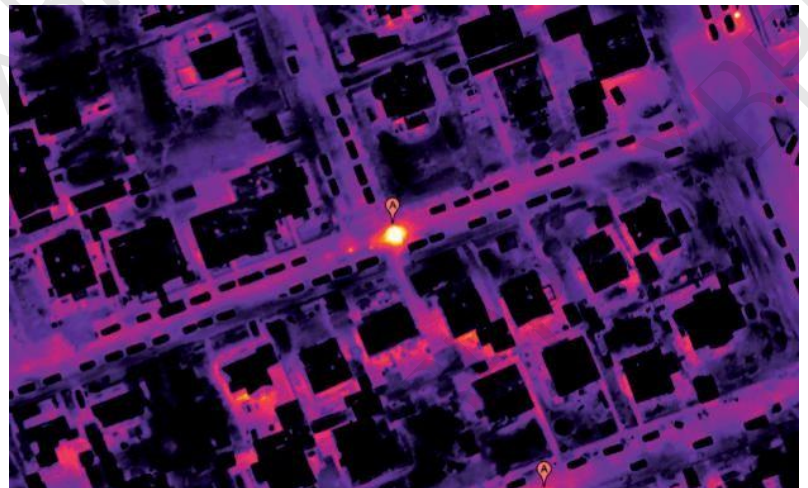
Why do we use XINGBANG UAV heating network health inspection system?



Thousands of kilometers of regional heating pipe network is a great asset for heat supply company and costs a lot for maintenance. It is very hard to fully understand every meter of pipeline of the heating network. We can detect a complete set of regional heating network through temperature measurement of UAV thermal imager. We can develop a better prevention plan, adopt preventive measures, as well as fix and solve the most urgent problem of leakage or corrosion.

Application scenarios of service

- Identify existing and impending leakage
- Carry out quality assessment of new pipe network
- Identify unknown pipelines/change records on existing pipelines
- Carry out overall assessment of heating pipe network status
- Carry out strategic long-term transformation plan



Service process

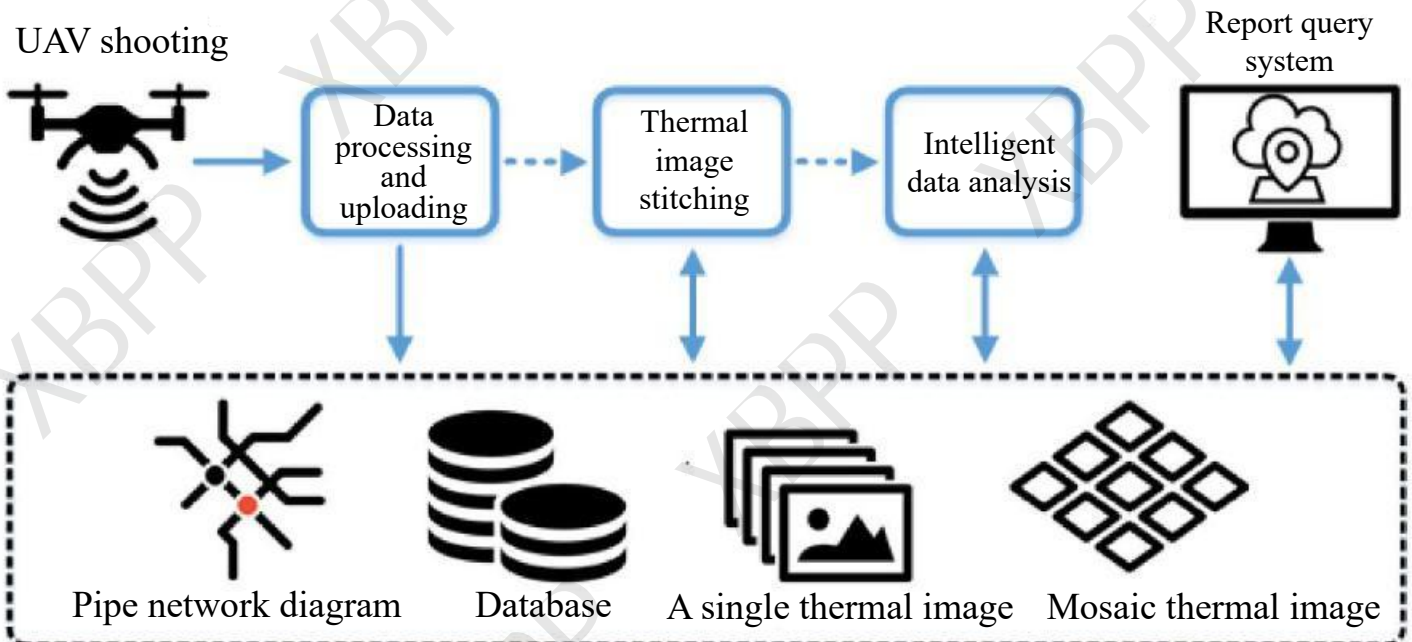
We provide customers with a complete set of turnkey solutions.

All the tasks are completed by XINGBANG's professional technical team using European advanced shooting and analysis techniques.

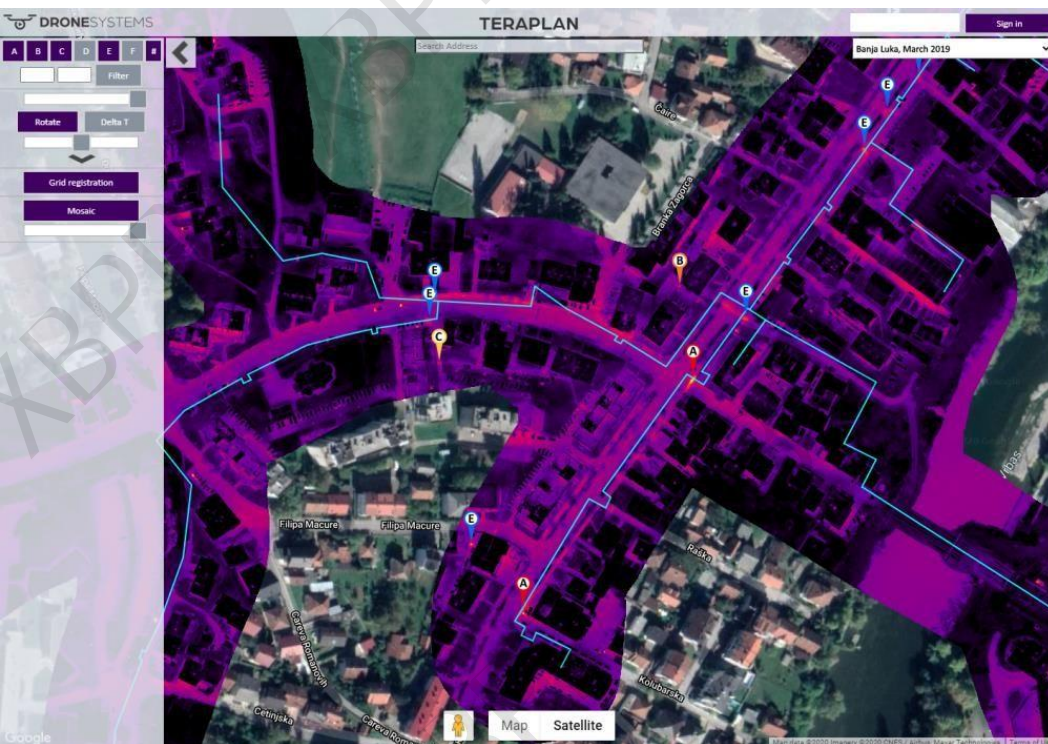
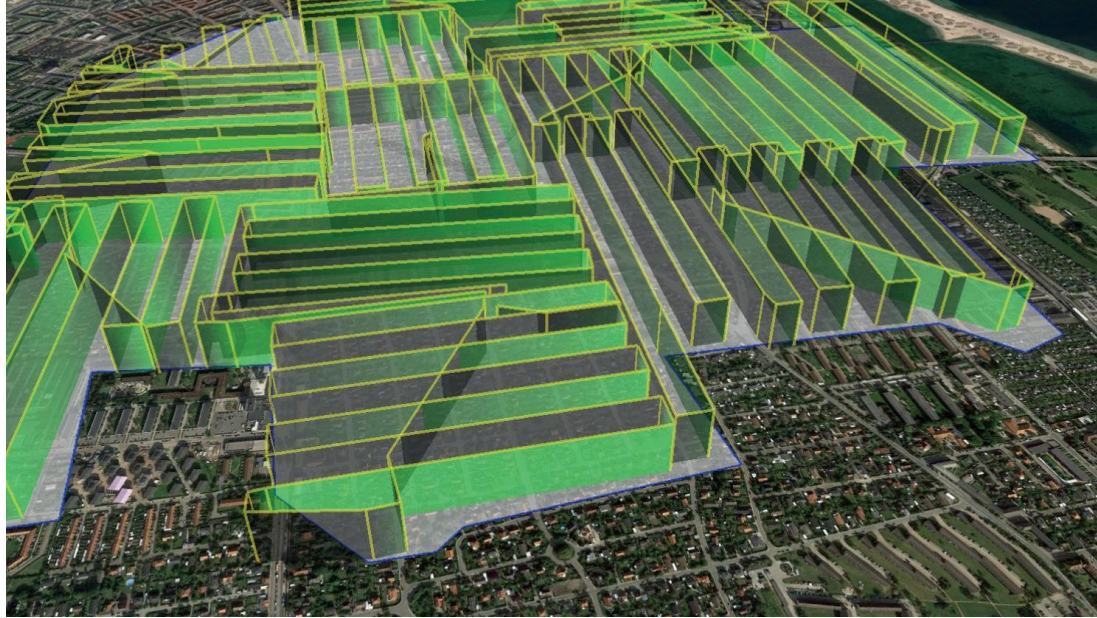


Core technology

- ❑ The intelligent flight platform and the hybrid sensor make up a high-quality thermal imaging system.
- ❑ The professional flight shooting team has scientific and strong planning ability.
- ❑ With strong information processing ability, the team can effectively carry out data acquisition, image stitching, interest point indication, data analysis and report generation.

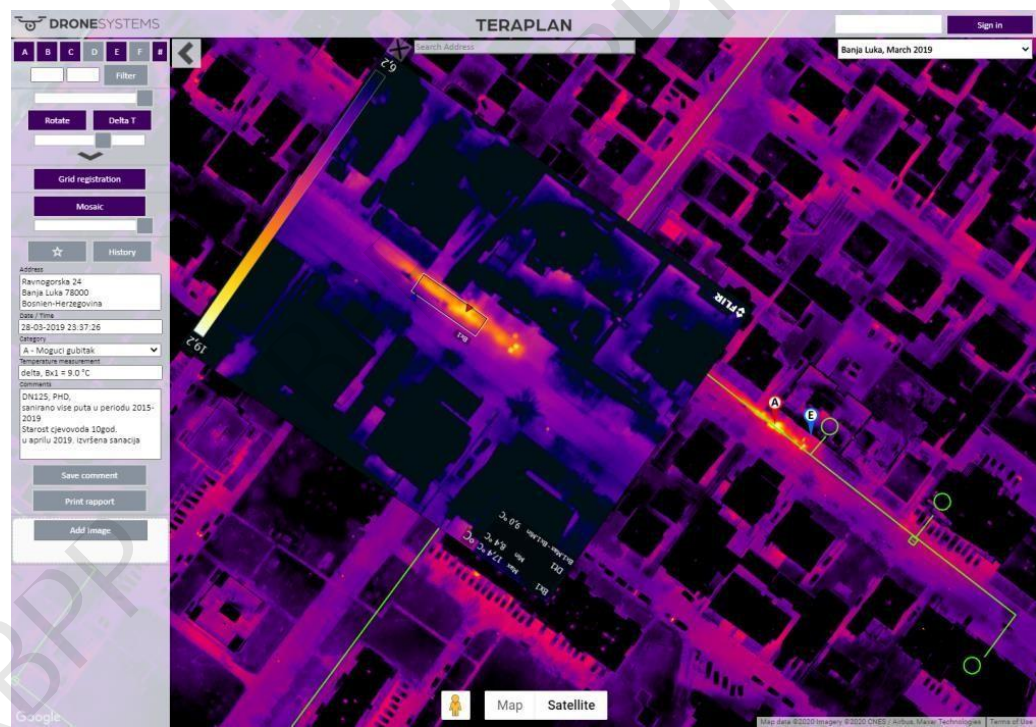


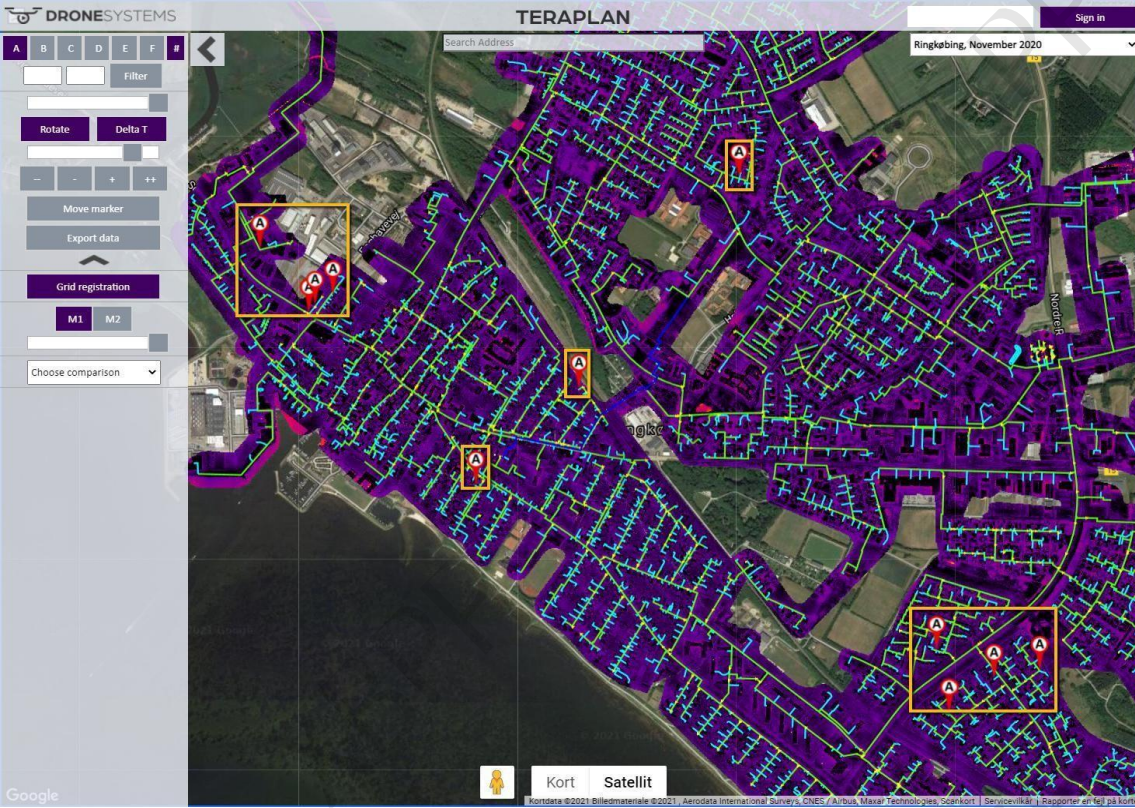
We communicate with the customer about developing a scientific flight shooting route according to data of pipe network.



Thermal image data obtained from flight shooting is processed, stitched and bound to geological information of the pipe network.

The analysis software offers functions such as temperature analysis, exception positioning, exception grading and exception type analysis.



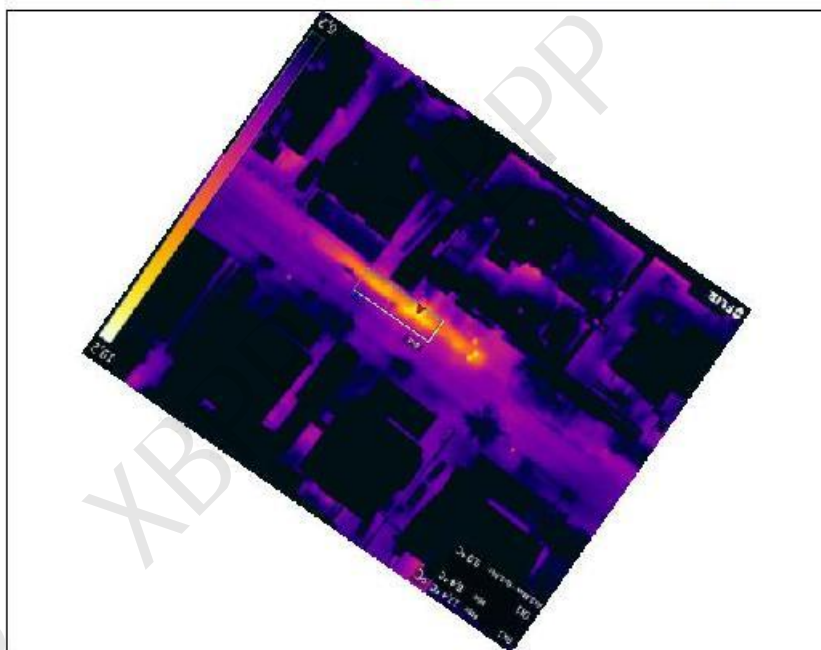
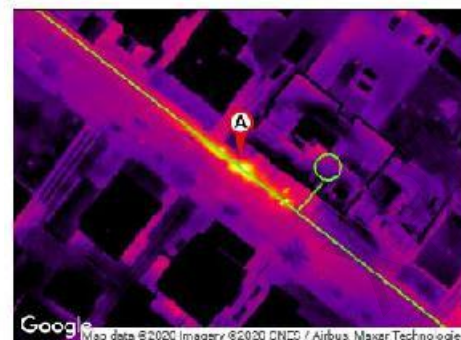


Analysis and report

The analysis software can determine the preferentially transferred pipe area or pipe section plan. Heat supply company can make a reasonable transformation decision to frequently update the preferred transformation sequence of existing plan. The areas or pipe sections that worsen quickly and have a high leakage frequency can be identified by conducting regular (e.g.: yearly) survey and using analysis software. Moreover, we can increase the possibility of centralized tender for major repair and transformation instead of repairing the leak points one by one to lower the maintenance cost.

Analysis Report

Location: xxxxxxxxxxxx
 Time: January 20, 2020 20:52
 Class: A-high temperature
 Temperature: The deviation is 9°C
 Coordinate: 36.1323,17.45323



"We can detect a complete set of regional heating network through UAV temperature measurement. Now, we can develop a better prevention plan, adopt preventive measures, fix and solve the most urgent problem of leakage or corrosion."

