



**SINO-INSPECTION**  
INNOVATION CLUSTER  
MAJOR WATER

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# SINO-I INNOVATIVE SEWER INSPECTION IN JIAXING

## PROJECT

As the geographical concentration of society, cities are a display of macrosocial development, especially in China. The impact of global megatrends on humans becomes especially apparent in cities, e. g. in the form of a rapidly increasing population development, climate change, or economic growth. The pervasive impacts severely affect urban society and urban systems, with the drainage situation in Chinese cities as one of many examples. Whereas aboveground infrastructure has been expanded continuously as a result of economic growth, the maintenance and expansion of under-ground systems have been given far less attention, with disastrous consequences now resulting in a critical urgency for action.

SINO-INSPECTION aims to help improve the drainage situation in China by furthering the development and demonstration of German sewer inspection technologies and by adapting these technologies to the conditions prevalent in China as well as by confirming their operability from a scientific perspective.

The joint project SINO-INSPECTION concentrates on the Chinese metropolis Jiaxing in the province Zhejiang near Shanghai. The Urban Drainage Operations of the city of Jiaxing and the Zhejiang University support the implementation, scientific verification, and derivation of sewer system assessment criteria within the project SINO-INSPECTION.



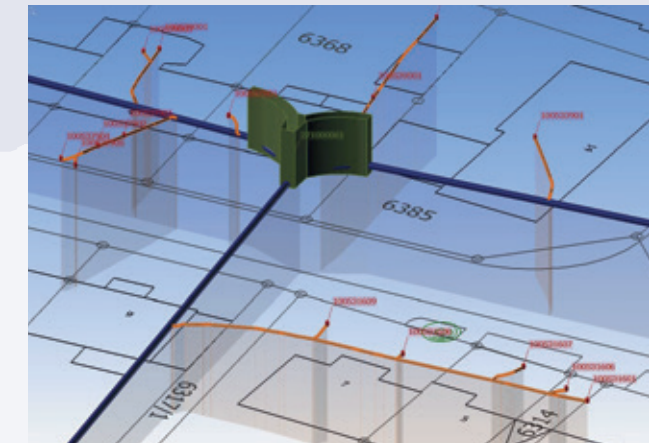
The **Research Institute for Water and Waste Management at RWTH Aachen** is an independent institute at RWTH Aachen University. With the aim of providing applied research, development and consultant services, FiW develops long-term strategies and innovative methods in the fields of urban drainage, climate change adaptation, storm water management, waste water and waste management. FiW coordinates the project as project leader due to its many years of experience in the field of urban drainage. Sewer inspection and evaluation are an important part of FiW's portfolio, both from a scientific point of view in terms of administrating the communication between the German and Chinese partners and from a practical point of view regarding the implementation of the developed techniques and their demonstration in Jiaxing. Important aspects include the scientific exchange between the German and Chinese project partners with regard to existing regulations for sewer inspections, the sewer status assessment and the derivation of remediation measures, as well as the extensive disseminations of project results through scientific publications.

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**JT-elektronik GmbH** is a renowned developer and manufacturer of TV inspection equipment and leak-testing systems. Since its founding in 1980, a large variety of products for optical pipe and sewer inspection as well as for leak-testing and sewer rehabilitation have been developed and manufactured. Within this project, JT wants to implement the cleaning of sewer systems and simultaneous inspection. A fast and cost-efficient technology to monitor the sewer cleaning performance and to ensure planning reliability for the inspection will be developed. The results are expected to be outstanding: inspection output will increase and a means of monitoring the cleaning performance will be implemented. Images or documentation can be recorded using video or a PC. Post-processing in the office is easy and can be used for determining the structure of sewer cleaning when it becomes necessary. Technical setup is easy and user-friendly.

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**bluemetric software GmbH** develops software solutions for municipalities, public services, water supply and disposal facilities, and industrial and engineering offices. We deliver custom software solutions specially tailored for the water and waste water sectors. bluemetric combines civil engineering with computer engineering know-how and geo-informatics. Furthermore, bluemetric supports establishments in working with GI-Systems to execute information acquisition, visualization and intersection of geodata for decision support. bluemetric provides a wide range of solutions for the administration of property drainage system or the locating of the system's underground position. bluemetric offers their customers solutions on every level, ranging from royalty administration to the management of the main sewerage system or the split charge for rainwater, grease trap systems, detailed documented inspection and planning of refurbishment.

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COORDINATION

PROJECT PARTNERS



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