污水厂站网智能一体化 解决方案

江苏太湖云计算信息技术股份有限公司



1 污水厂站网体系概述

2 项目目标及方案

3 厂站网体系一览



污水体系中主要角色及对应体量













Lake Cloud

污水厂站网体系示意图





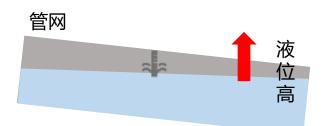
污水体系核心问题:高液位引发多种问题



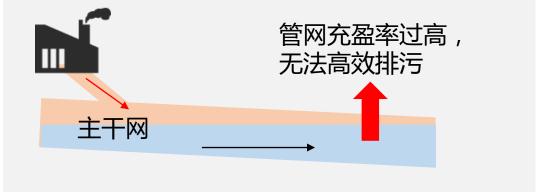


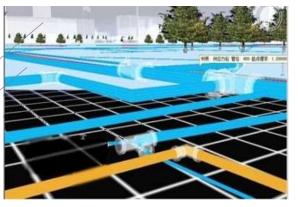
污水管网整 体液位过高













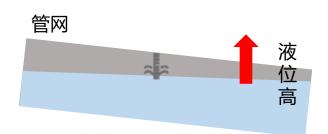
污水体系核心问题:高液位引发多种问题





污水管网整 体液位过高













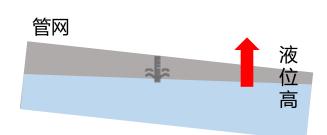
污水体系核心问题:高液位引发多种问题



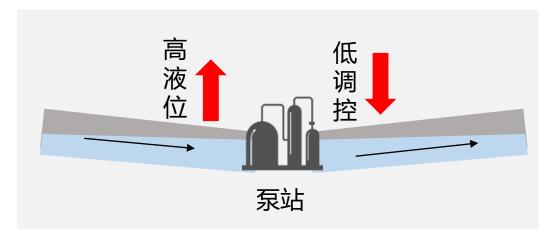


污水管网整 体液位过高











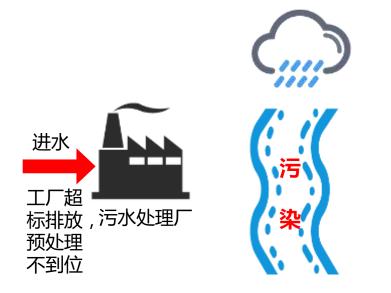


污水体系其它问题



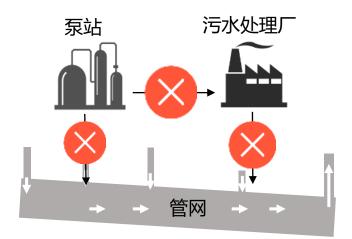


工业排水户排水水质不达标; 污水处理厂进水水质工业污染严重; 污水处理厂设备损坏 河道水质直接污染





厂、站、网相互独立割裂, 无法联动反应 管网液位高,泵站,污水处 理厂无法及时联动解决 管网运行效率低





核心目标





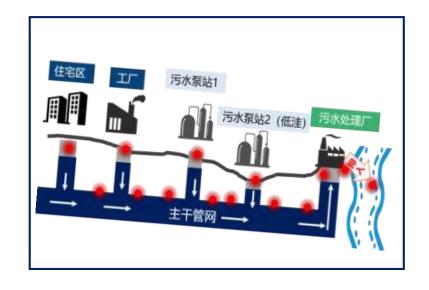


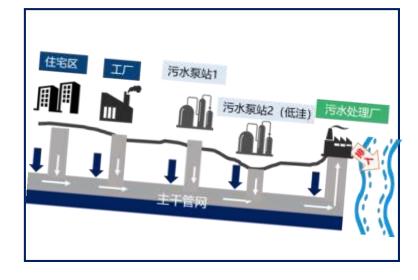


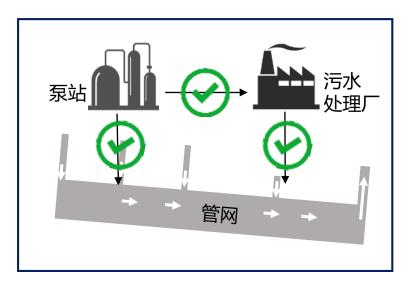
降低管网体系充盈度



提升污水体系联动运行效率







解决思路















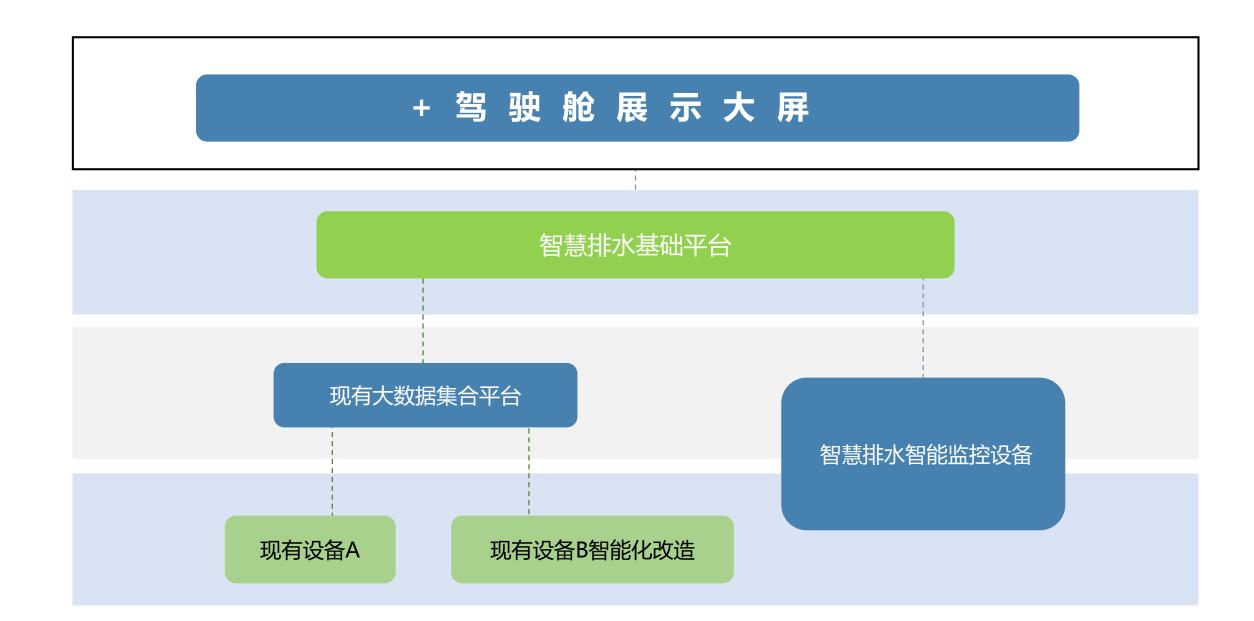


沿污水厂站网体系在各个影响管网液位的关键节点布控传感设备

采集数据,透视整个污水体系链路,实时数据预警,定位问题点

整体架构







智慧水务 SmartWater

无锡市

厂站网一体化平台驾驶舱



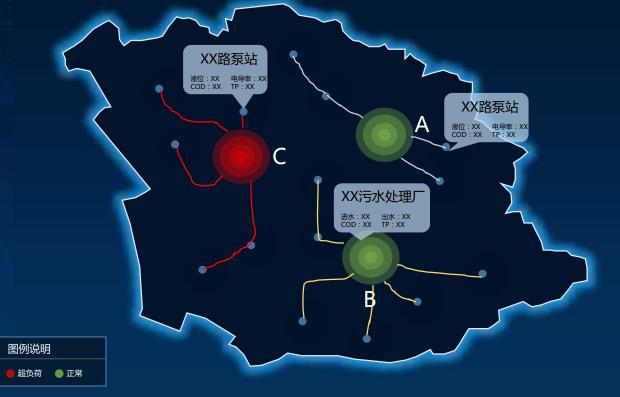
2018/5/11

▋污水处理厂运行状况

11:19:38









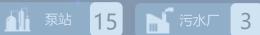


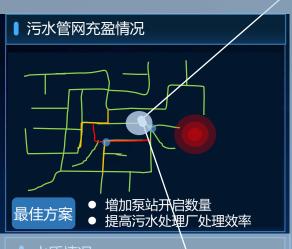
各污水厂排口液位滚动一览



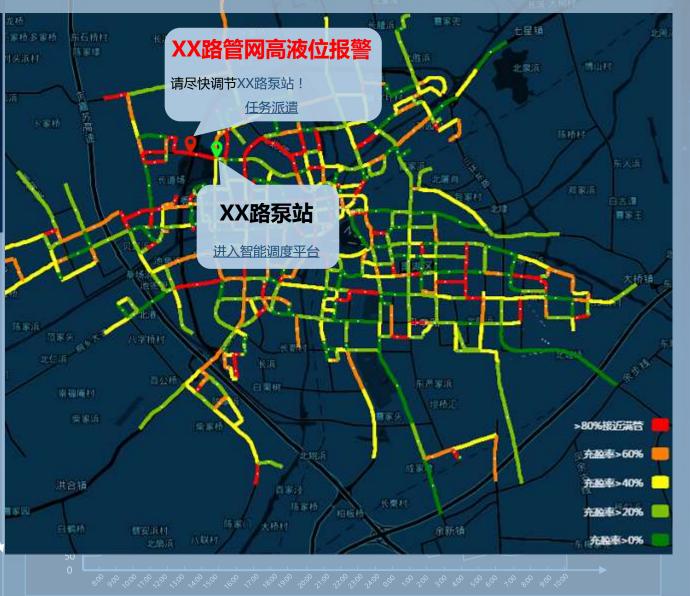
厂站网GIS一张图

















智慧水务 SmartWater

Ö 无锡市

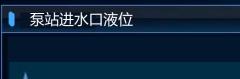
泵站C运行情况一览

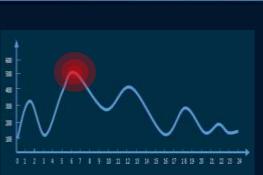
泵站

15 清水厂 3

2018/5/11

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泵站运行联动指令



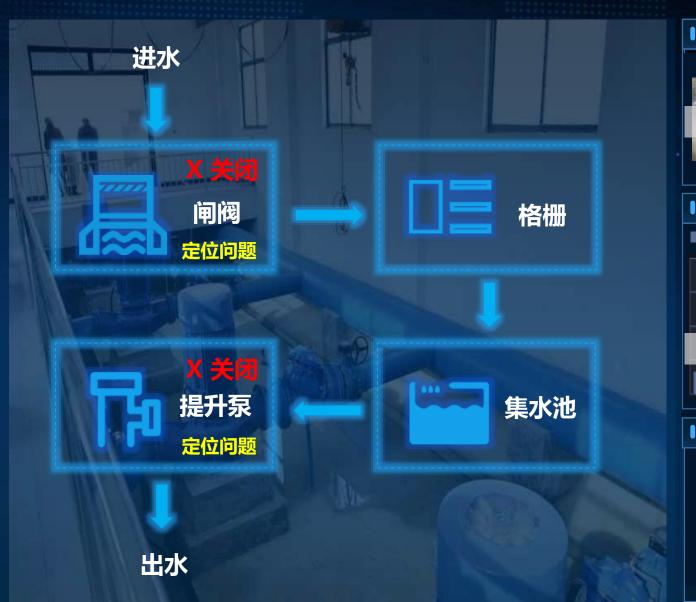
2018-5-11 7:00 泵站进水口液位过高



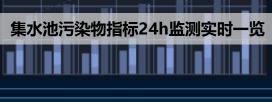
- 开大闸阀
- 开启格栅
- 增加提升泵数量

泵站出水口液位



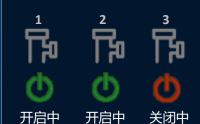






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THANKS

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