UROS

UROS Flow Case Study

Neijiang City, Sichuan Province, China

UROS智慧水务方案案例分析

中国四川省内江市

Background 背景

- From June 6 to 7, 2019, Kai Kaatra, Executive Deputy Director General for Natural Resources and Water Affairs in Ministry of Agriculture and Forestry of Finland, led the delegation of Finland water industry and visited Neijiang, learned the conditions of Neijiang water environment treatment in detail through methods like field visit, meeting and discussion, and had in-depth communication with Neijiang on issues of water industry cooperation.

- 2019年6月6日至6月7日，芬兰农业和林业部自然资源和水务司常务副司长凯．卡塔（Kai Kaatra）率领芬兰水务产业参观内江，通过现场参观、会议和讨论了解了内江水环境处理情况详情，并与内江就水产业合作事宜进行了深入沟通与交流。

- Neijiang People's Government Ministry of Agriculture and Forestry of Finland shall conduct interfirm cooperation by performing one-to-one connection between Neijiang Water Affairs Company Limited and Uros (Finland), and form a cooperative scheme pinpointing leakage loss control of pipe network and development of intelligent water affairs as soon as possible. UROS has continued discussion with Neijiang Water Affairs Company Limited and it has been decided to co-operation and to implement first proof-of-concept project at area containing four villages. The next step is to target expanding the service and cover whole Neijiang city.

- 内江人民政府芬兰农业和林业部须通过内江水务公司和芬兰UROS宇速通物联科技有限公司间点对点衔接展开企业间合作，形成合作机制，精准处理并尽快解决水管系统漏水损失控制和智能水务开发问题。芬兰UROS宇速通与内江水务公司深入洽谈并决定在4个村庄的相关区域展开相关合作，并实施首个概念论证项目。下一步的目标是在内江整个市内全面拓宽该服务。

Case: Neijiang, China
案例:中国四川省内江市

Building a strong base for a digitalized future in the Southeast Sichuan province
为中國四川东南地区未来数字化的发展前景奠定有利的基础

The objective of Neijiang Water Affairs Company is to detect large and medium sized leakages and to decrease leakage by 3~5 percentage points by year 2021 within a defined geographical area.
内江水务司的目的是检查大中型漏洞情况并在2021年将指定区域的该类漏洞情况降低3-5个百分点。

Our Solution 我们的方案

UROS Flow

With Real-Time Hydraulic Modeling, we create a 24-hour forecast of municipal network. The city will get a real-time understanding of the operation of your entire water supply network. 借助实时水力模型，我们可以制定全天24小时市政水网络预测，市政府会取得整个供水网络运作的实时数据。

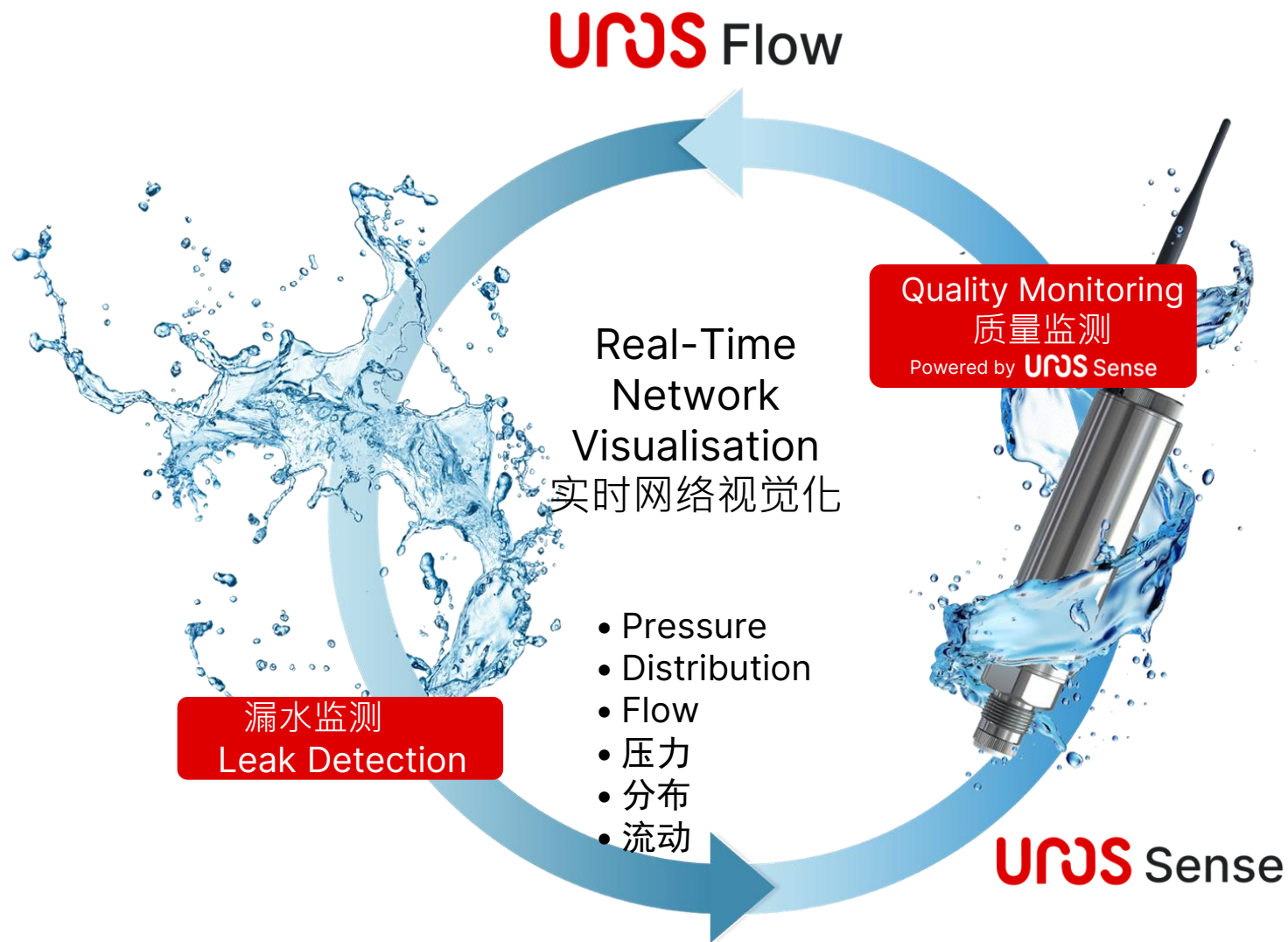UROS Sense and Flow Services are a continuously improving platform with new features released regularly.
UROS Sense水质监控和UROS Flow智慧水务服务通过定期发布的新功能改进平台。

- Leakages 漏洞
- Pressure 压力
- Distribution 分布
- Flow 流动
- Water Quality (Powered by UROS Sense)
  水质（由UROS Sense提供技术支持）

Quality Monitoring
质量监测
Powered by **UROS** Sense

Real-Time Network Visualisation
实时网络视觉化

- Pressure
- Distribution
- Flow
- 压力
- 分布
- 流动

漏水监测
Leak Detection

UROS Sense

Smart City Solution for municipalities and cities for a digitalized Water Cycle
# 直辖市和城市数字化水循环的智慧城市方案

UROS Flow

This kind of implementation brings right away huge amount of benefits for the whole water system. Based on our experience with our solutions typical benefits are:

实施该类方案将使得整个水系统瞬间受益无穷。基于我们对该方案方面的经验，主要优势如下：

* From reactive investments to proactiveness 从被动投资到积极投资

* Better tools, better process and better decisions 更好的工具、流程和决策

* Leakage places recognition -> investments efficiency 漏洞识别 -> 投资效率

* Pressure optimization -> investments efficiency 压力优化-> 投资效率

* Leakage decrease -> whole process efficiency 缩小漏洞 -> 整个流程效率

* New network investments efficiency -5-10% annual basis 新网络投资效率 5-10% /年

* Renovation investments efficiency -5-10% annual basis更新（换）投资效率 5-10% /年

* Maintenance resources efficiency 维护（修）资源效率

* Extension of water utility network life for 50-75 years 水利用网络寿命延长50-75年
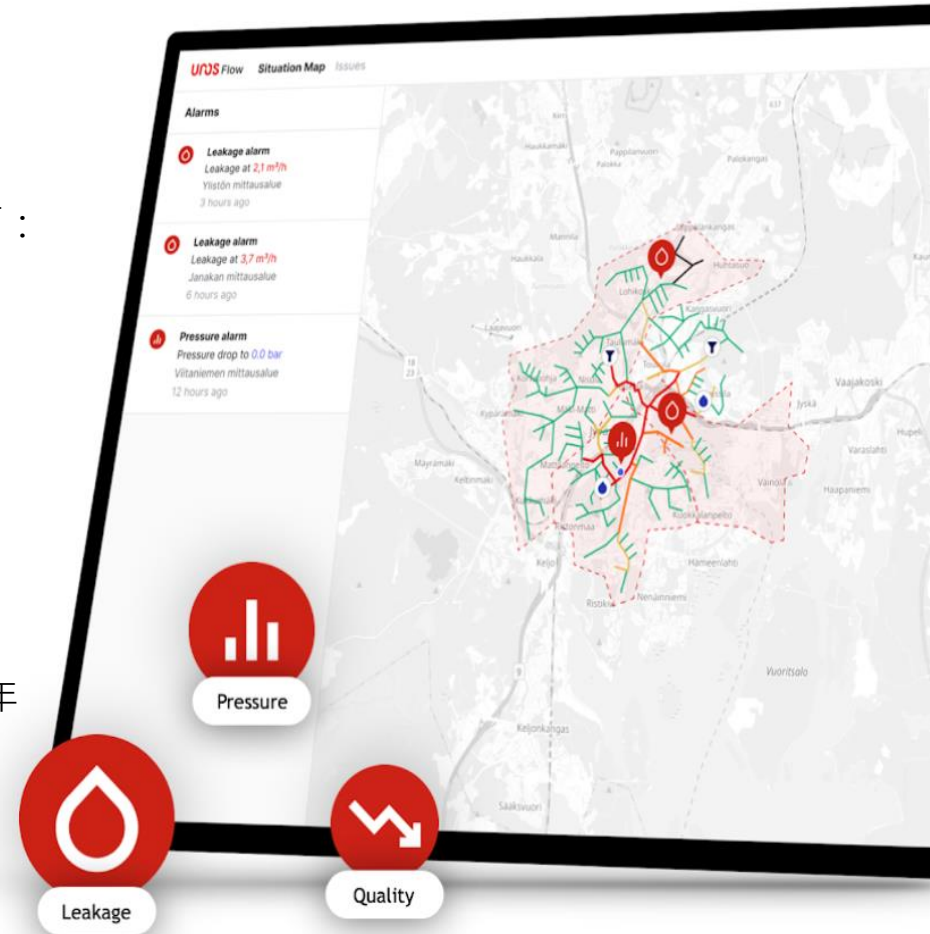
São Miguel do Oeste, Brazil 西圣米格尔，巴西

Case: CASAN deploys UROS water technologies in Brazil to combat losses in water systems

案例: CASAN 在巴西部署 UROS 智慧水务技术，以应对供水系统的损失

Data will be captured and transmitted to UROS servers every five minutes. The data is analysed through algorithmic models on an IoT platform using artificial intelligence, data science and machine learning.

计划将以每五分钟获取一次数据并传输到 UROS 总服务器。 通过人工智能、数据科学和机器

学习，通过 IoT 平台上的算法模型对数据进行分析。

Pune, India 浦那，印度

Case: Improving water management in the IT hub of India
案例：改善在印度信息技术中心的水务管理

The objective of L&T is to detect leakages, from large to medium in size, in the area of Pune city and to decrease the leakage percentage to 15% by year 2032.
L&T 的目标是在浦那市地区检测从大到中大小的泄漏，到 2032 年将泄漏率降低到 15%。

Thank You! 谢谢！

Herbert Chan
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