

A woman in a white hard hat and yellow safety vest is looking at a computer monitor. In the background, a man in a yellow safety vest and glasses is holding a tablet. The monitor displays a world map with red location markers and various data charts. A large red diagonal banner is overlaid on the bottom right of the image.

# UROS

引领工业物联网智能化道路

## Making Industrial IoT Smarter

Vladimir Olechshenko | COO, IoT & Smart Cities  
物联网与智慧城市首席运行官





## UROS Global Footprint 国际网络覆盖

UROS is a global smart solution provider. In 2017 our portfolio of patented and award-winning innovations generated over half a billion USD in revenue

UROS提供全球智能解决方案。  
2017年，我们受专利保护的、获行业多个奖项的创新技术与产品为公司带来超过5亿美元的收入。



**2011**

Founded成立

**2012**

3G Hotspot热点

**2013**

**2014**

**2015**

4G Hotspot热点

**2016**

IoT物联网+Goodspeed Roaming+  
eSIM技术

**2017**

**2018**

Digital Water + Vertical Markets  
数字水管理 + 垂直市场

**2019**

Our global offices 位于全球不同地区的办公室:

Finland | Kazakhstan | China | Hong Kong | Taiwan | USA | Germany | Luxembourg | Switzerland | India | South Africa | Brazil  
芬兰 | 哈萨克斯坦 | 中国 | 香港 | 台湾 | 美国 | 德国 | 卢森堡 | 瑞士 | 印度 | 南非 | 巴西



## UROS Team 团队



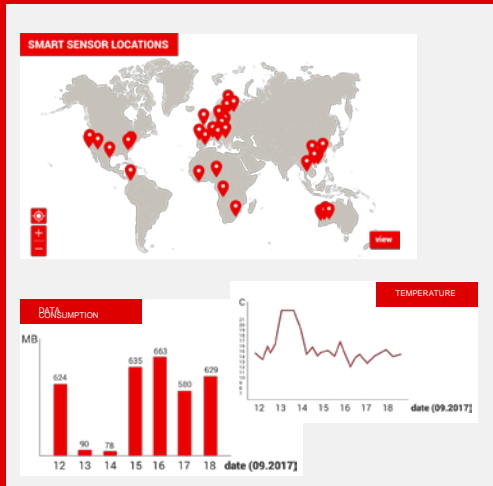
**UROS was founded in 2011 with a vision of truly global connectivity. Strong know-how and unparalleled expertise make up our team.**

UROS成立于2011年，旨在提供真正意义上的国际网络一体化。雄厚的技术知识和行业多年经验是我们团队的强项。

# IoT 物联网



**IoT Platforms**  
物联网平台



**Real-time Monitoring**  
实时监控



**Smart Sensors**  
智能传感器

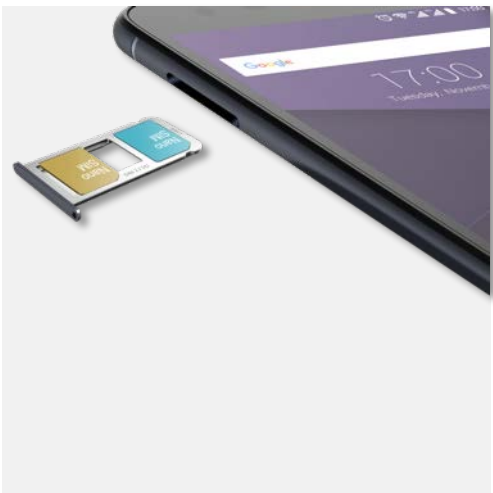


**Risk Based Asset Management**  
基于风险的资产管理

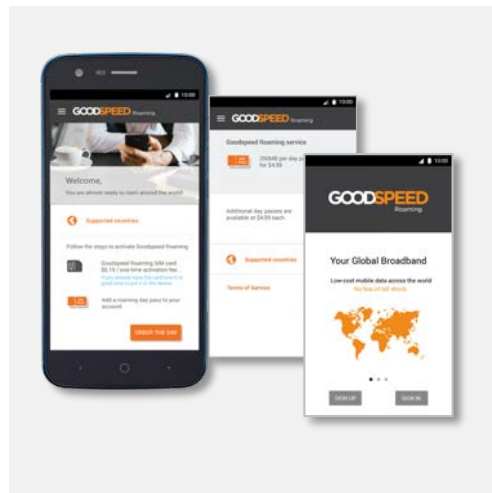
# Connectivity 国际互联



**Global Mobile Hotspots**  
全球移动热点



**e-SIM Ecosystem**  
e-SIM生态系统



**Smartphone Roaming App**  
智能手机漫游应用

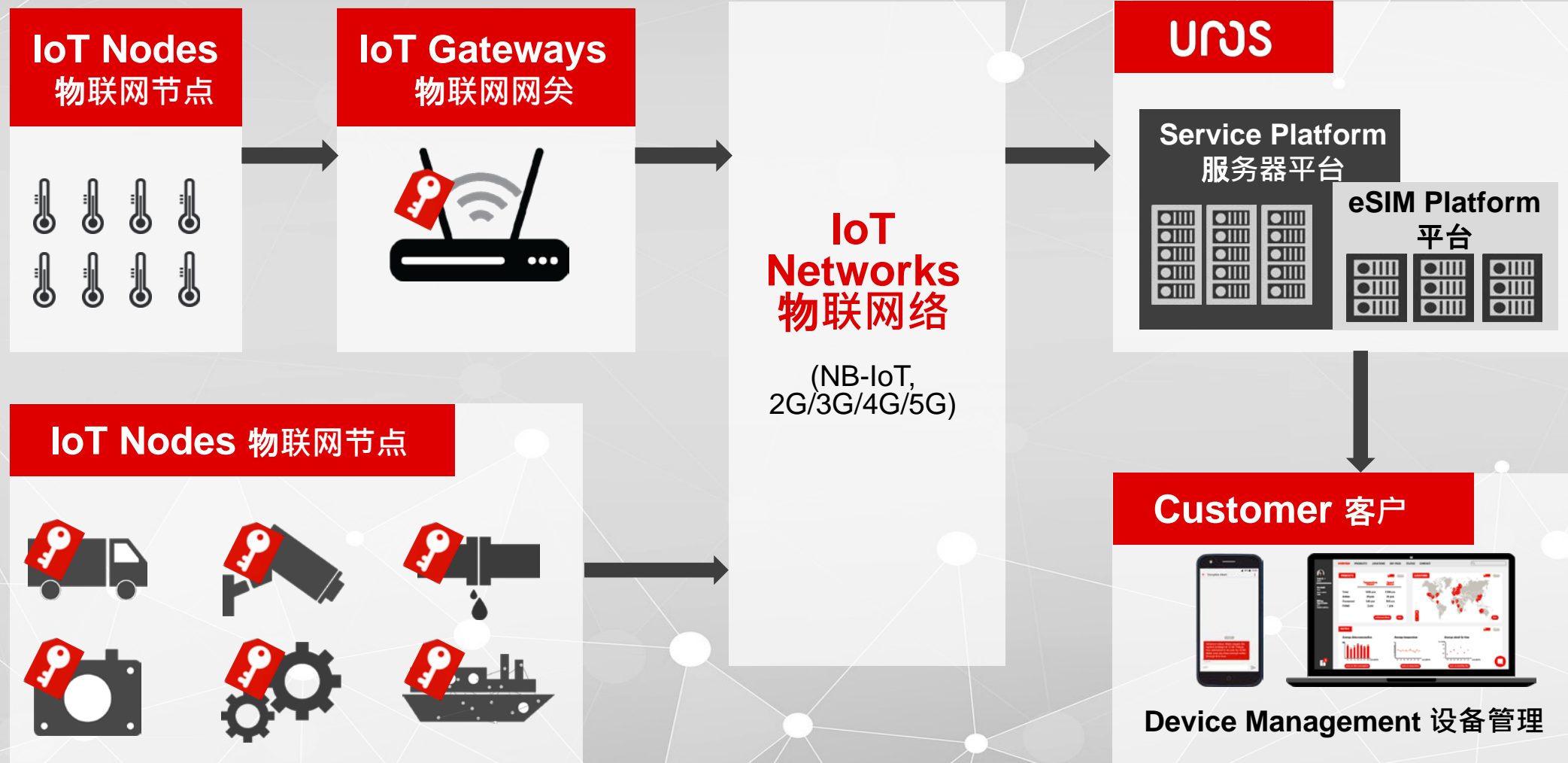


**New Wireless Technologies**  
无线前沿技术

# e-SIM Provisioned IoT Connectivity 基于e-SIM技术的物联网互联



Secure Client & UROS e-SIM  
安全客户程序及e-SIM技术





# Industrial IoT Solutions 工业物联网方案

In the field of Industrial IoT and Smart City strategies, UROS delivers robust solutions tailored to the customers' needs including Smart Process Management.

在工业物联网及智慧城市策略领域中，我们严格依据客户需求开发并提供包含智能流程管理等可靠方案



**Wireless Global  
Connectivity**

全球无线网络一体化



**Process Optimization**

流程最优化



**Remote Monitoring**

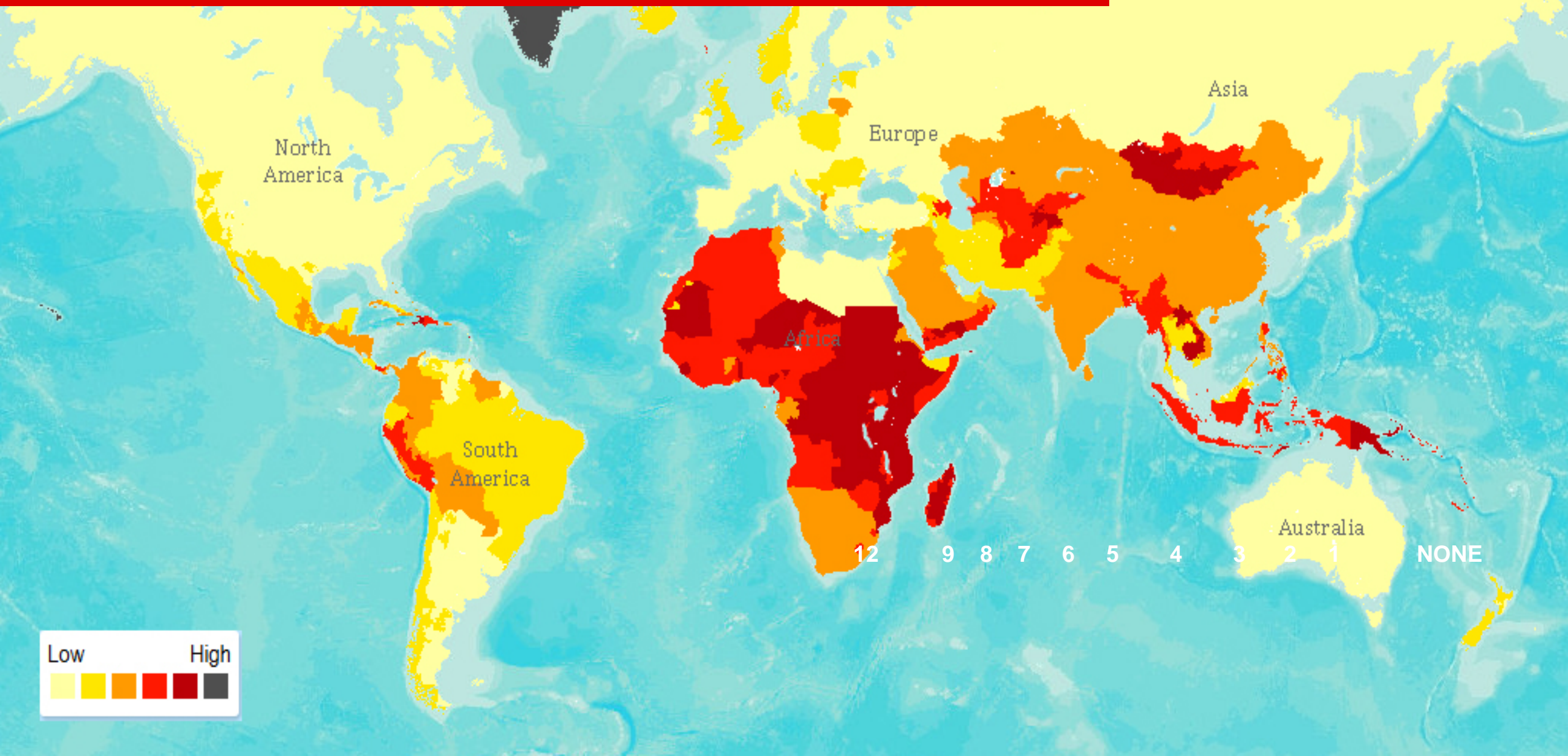
远程监控



**Liquid Quality Control**

液体质量控制

## Reference Industry: World's Water Crisis 全球水危机







**6** hrs

women and girls spend up to 6 hours  
every day collecting water

**Women's Crisis**  
女性危机

**1M**

people killed by water, sanitation and  
hygiene-related disease per year

**Health Crisis**  
健康危机

**1/3**

of all schools lack access to basic water  
and sanitation

**Children's Crisis**  
儿童危机

**\$260 B**

money lost globally each year due to  
lack of basic water and sanitation

**Economic Crisis**  
经济危机





# Reference Use Case参考项目:

Smart Water Cycle - City of Jyväskylä

智能水循环 – 芬兰于韦斯屈莱市



## The Current Challenges 当今供水管理面临的挑战



**High levels of leakage**  
渗漏现象普遍存在



**Hit-and-miss water quality monitoring**  
乱枪打鸟式水质监控



**Unnecessary costs that could be managed**  
不必要花销



**Expertise drain**  
专业人才流失



**Environmental challenges**  
对环境带来挑战



**Undetected disruptions**  
供水中断未测出



# Smart Water Cycle 智能水循环



# Digitalized Water Cycle Monitoring 数字水循环监控

Monitor and manage all stages of the Smart Water Cycle through the Command Center / Smart User Interface 通过控制中心或智能用户界面来监测和管理智能水循环系统中的不同阶段





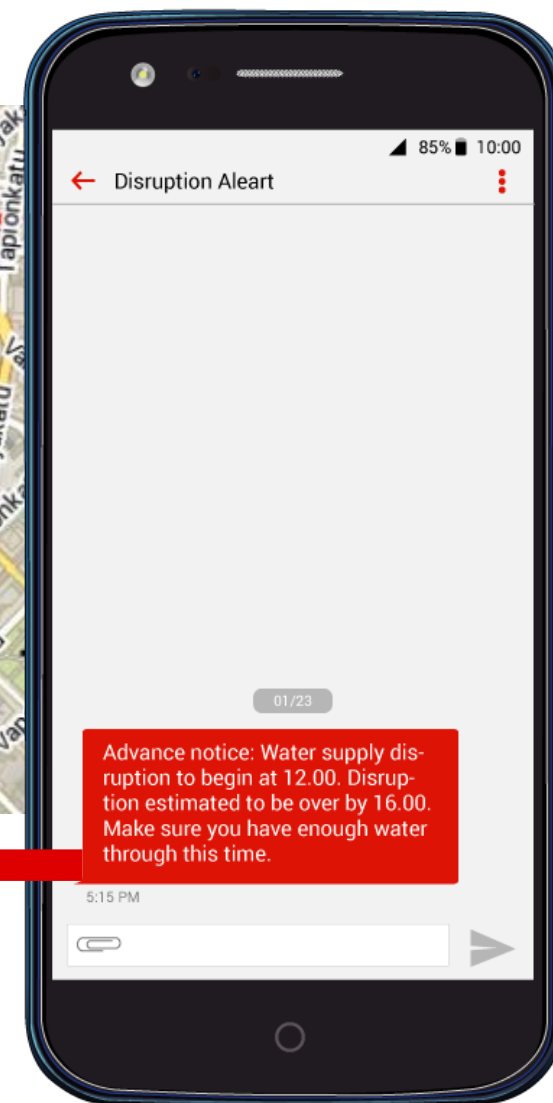
# Water Supply Disruption Alerts 供水中断警告

Site and disruption notifications 场所及中断提示

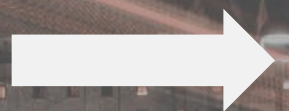
Visually communicating  
construction sites and water  
supply disruptions on a map  
通过地图以视觉形式监控施工地  
点和供水中断现象



Accurate water supply  
disruption alerts electronically  
without delay  
准确快速地发出供水中断电子报警



# Data is Transmitted via the Internet 数据通过互联网传送



The Smart Sensor monitors the water constantly for deviations from a pre-defined good quality fingerprint.

The data is transmitted wirelessly to an Internet hub, which forwards it to the Server Center for processing; the very latest in Artificial Intelligence plays the central role here.

**Smart Sensor 智能传感器**

The monitoring results appear on the online user screen in real time. The user logs on, via a secure Internet connection, from any location at any time. Triggers can be set, to send alarms to key personnel by e-mail or text message.

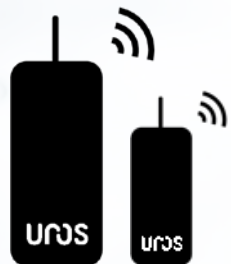
Alternatively, the data can be imported into existing data loggers.

**Monitoring Platform 监控平台**



# Automatic Data Analysis 自动化数据分析

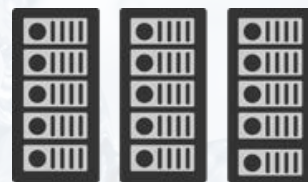
UROS



## SMART SENSOR 智能传感器

The Smart Sensor monitors water for quality deviations in real time

Wireless data transfer  
无线数据传送



## UROS SERVER CENTER UROS 服务器中心

Collecting, analyzing and visualizing data



## ALARM SERVICE 警告服务

The sensor 'tastes' any changes as soon as they occur, and can send alerts instantly, in real time, by **SMS or email**



## ONLINE USER INTERFACE 在线用户界面

The monitoring results are relayed via the Internet to an intuitive user interface



## EXPERT SERVICE 专家服务

Precise accredited water analysis

# Country Overall Smart Water Management 国家整体智能水管理



## In each country we can 国家级别进行:

- Measure water level/amount of underground water 地下水位及水量的测量
- Open water reservoirs 开敞水库的管理
- Install water quality/pressure sensors 水质、水压传感器的安装



## Benefits 获益之处:

- Control water amount and water quality inside country and on transboundary rivers 高效控制国家境内与跨界河流水量和水质
- Forecast of water amount for the next 20 years and prevent floods 预测20年内的水量以预防洪水
- Decrease leakage and control of water feed to the farmers through installed water pressure sensors on the pipes 通过在管道上安装水压传感器来减小渗漏几率并控制农业给水量



## Smart Process Management 智能流程管理

UROS brings end-to-end global IoT solutions for an array of industries and needs, with funding possibilities! 我们为多个重点行业及需求提供端到端的国际物联网方案，同时有获取资金扶持的机会！



**Municipal Water**  
城市供水



**Pulp & Paper**  
制浆与造纸



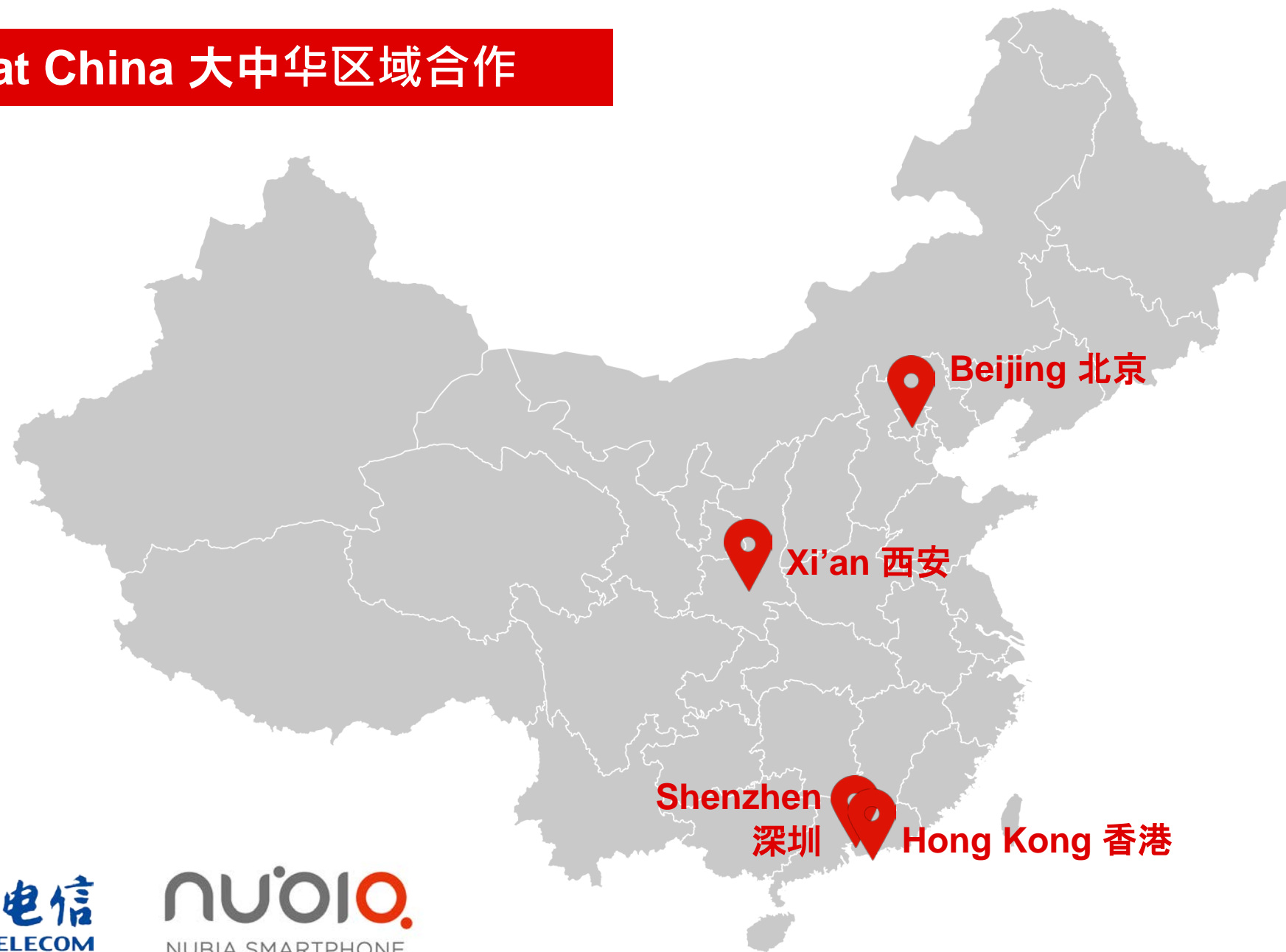
**Food & Beverage**  
食品与饮品



**Metal & Mining**  
金属采矿

**Application in Vertical Markets 不同垂直市场上的运用**

## Partnerships in Great China 大中华区域合作



**ZTE**

 **中国电信**  
CHINA TELECOM

**nuoio.**  
NUBIA SMARTPHONE





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