

light. speed ahead.

high performance online water quality monitoring



The new spectro::lyser V3

The next generation - from the market leader



aaxis
nano TECHNOLOGIES
Pvt. Ltd.

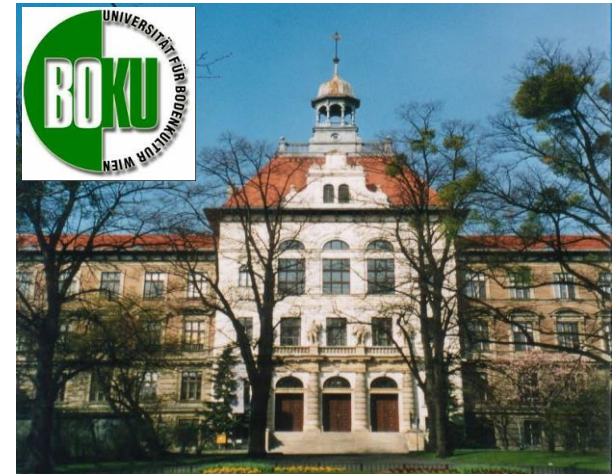
ANTPL Background

- AAXIS is a private limited company - Established since August 2000,
- All India presence with 11 sales & service offices with manufacturing facility in Noida
- Man-power Strength – Total 160+
- Strive to discover new technologies and crystallize them into value for the Environment conservation & society.
- Our mission is to provide reliable environmental monitoring solutions to bring real-time field data right at desktop, and to provide comprehensive operational service support throughout the entire monitoring lifespan.
- We are “One-Stop Shop for Complete Environmental Monitoring Solutions”

Who is s::can?

Company Background

- s::can Messtechnik GmbH
 - Established 1999
 - University Spin-Off
 - Based in Vienna, Austria
 - Worldwide distribution network
 - Represented by Axis Nano in India
- Consistent focus on R & D and developing solutions for emerging markets in the field of clean-to-waste water & environment monitoring
- First water quality spectrophotometer designed & manufactured in 1999



University of Natural Resources and
Life Sciences, Vienna

Agenda

- Real Time IoT Water Quality Monitoring Network
- Real Time Discharge Monitoring
- Real Time Remote Optical Watcher
- Real Time ColiMinder – Rapid Microbiological Testing in water & wastewater
- Q & A

spectrometer series V3

The next generation – from the market leader



spectro::lyser V3

At a glance



3X more stable and precise*
spectro::lyser V2 → V3

10X more power efficiency*
spectro::lyser V2 → V3

12000X more onboard memory*
spectro::lyser V2 → V3

6X more measurement speed*
spectro::lyser V2 → V3

100X more communication skills*
spectro::lyser V2 → V3

* ... remaining the undisputed leader in all disciplines

Simplicity: Communicates directly with your smartphone via  Bluetooth[®] :: **Ingenuity:** Web server on board, IoT enabled

Transparency: Transmits sensor status via optical information ring :: **Precision:** Provides a new level of optical performance in all applications

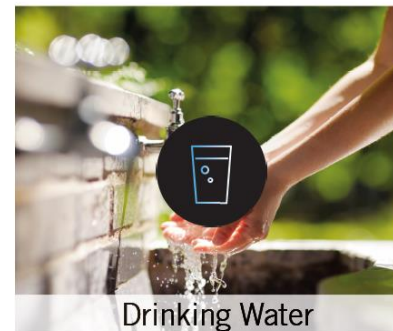
Integrity: With 10000 sensors in the field, we know how to make affordable spectrometers last forever

- spectro::lyser V3



- spectro::lyser V2 for the UV-probe, ATEX and titanium pro for the time being

- spectro::lyser V3



- spectro::lyser V3

The perfect measuring range + accuracy for every application

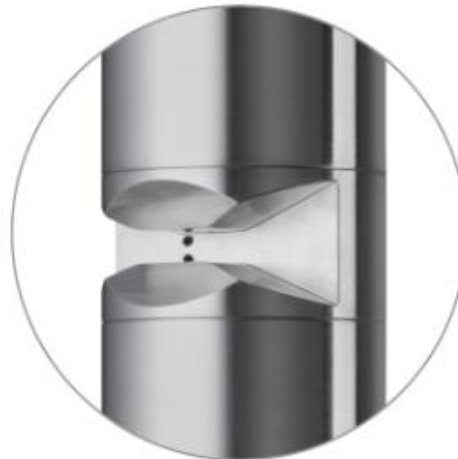
- 3 fixed path lengths for all applications:
 - drinking water probe → 35 mm OPL
 - surface water probe → 5 mm OPL
 - waste water probe → 1 mm OPL

- Easy selection

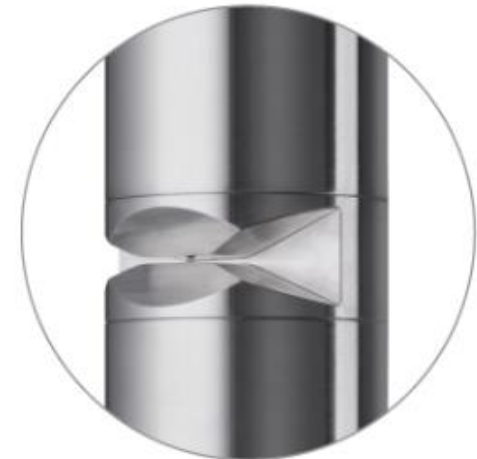
drinking water probe



surface water probe



waste water probe



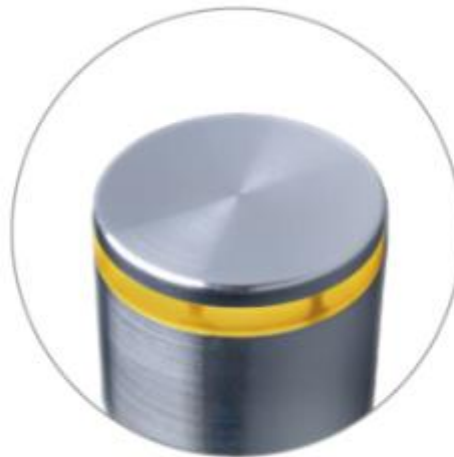
Optical information ring

Usability

- LED ring signals state of sensor
 - blue → everything is alright
 - yellow → service mode
 - red → device error
 - fast flashing blue → booting
 - slow flashing blue → sleep mode
 - flashing red → parameter error



blue - everything ok



yellow - sensor in service mode



red - parameter or device error

Flexibility

Choose your parameters

Freely configure your spectro::lyser for your application. You only pay for the parameters you want to measure. Add new parameters any time.

Application	Environmental				Municipal Waste Water				Paper	Drinking
	Drinking Water	River	Ground Water	Sea Water	Effluent Municipal	Aeration	Influent Municipal	Slurry		
Parameter	d	r	g	o	e	l	l	m	p	q
TSS										
TS										
Turbidity										
Color app										
Color Iso										
TOC										
DOC										
BOD										
COD										
CODr										
NO3-N										
NO3										
HS-										
OS										
CLD										
Chl-A										
BTX										
AOC										
UV254 I										
UV254 F										
UV436 F										
Temperature										
Fingerprint										
Fingerprint comp										

Parameters highlighted in the diagram: DOC, TOC, NO₃, NTU, and Fingerprint.



con::cube V3

moni::tool 4.0

- s::can high-end IoT terminal based on an industrial PC, IP65
- Highly intuitive use, informative visualization & easy operation: time series, optical spectra and all events in clear text
- Sensor and station management of up to 64 parameters
- Low power operation with less than 3 watt
- IoT (Internet of Things) and M2M (Machine to Machine) connectivity



New features

- Wide screen color graphical display (9")
- New moni::tool 4.0 with new Linux
- Dual core processor for improved performance
- Upgraded memory (16 GB)
- LED Status Indicator
 - Consistent color codes with spectro::lyser V3
- Ethernet connection for spectro::lyser V3



With s::can Terminals



Overview

Spectrometer
Probes



ISE
Probes



Physical
Probes



i::scan



Overview

■ carbo::lyser

- Measures: NO₂-N, NO₃-N, COD, BOD, TOC, DOC, turbidity, BTX, H₂S, and more
- Submersible UV/UV-Vis spectrophotometer



■ ammo::lyser

- Measures: NH₄-N, pH, K (compensation), NO₃-N
- Ion selective, installed in a flow cell or in-situ

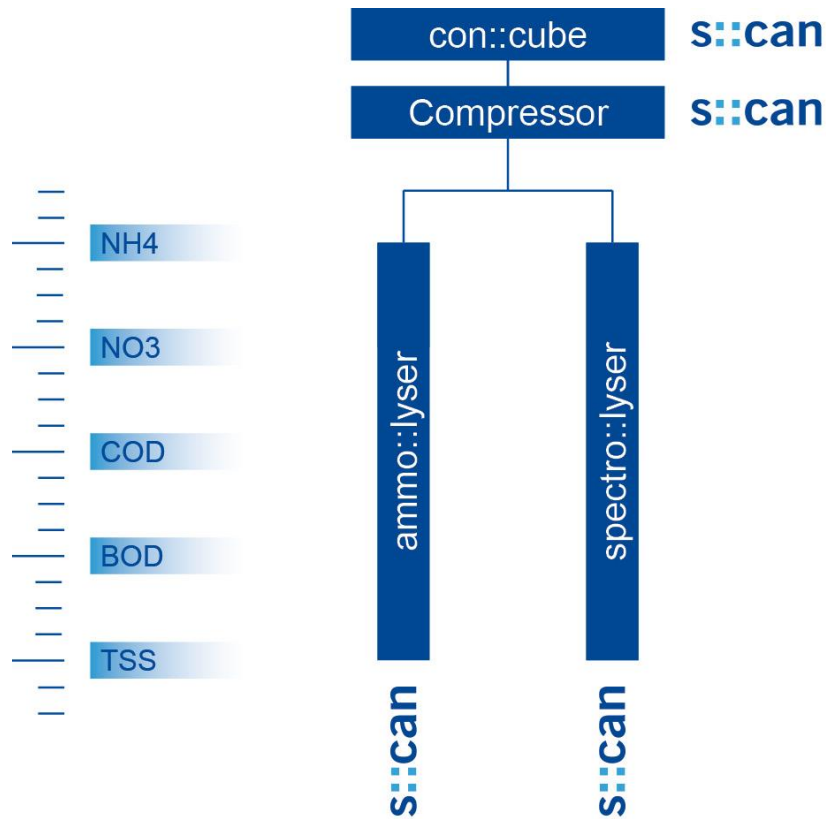


Overview

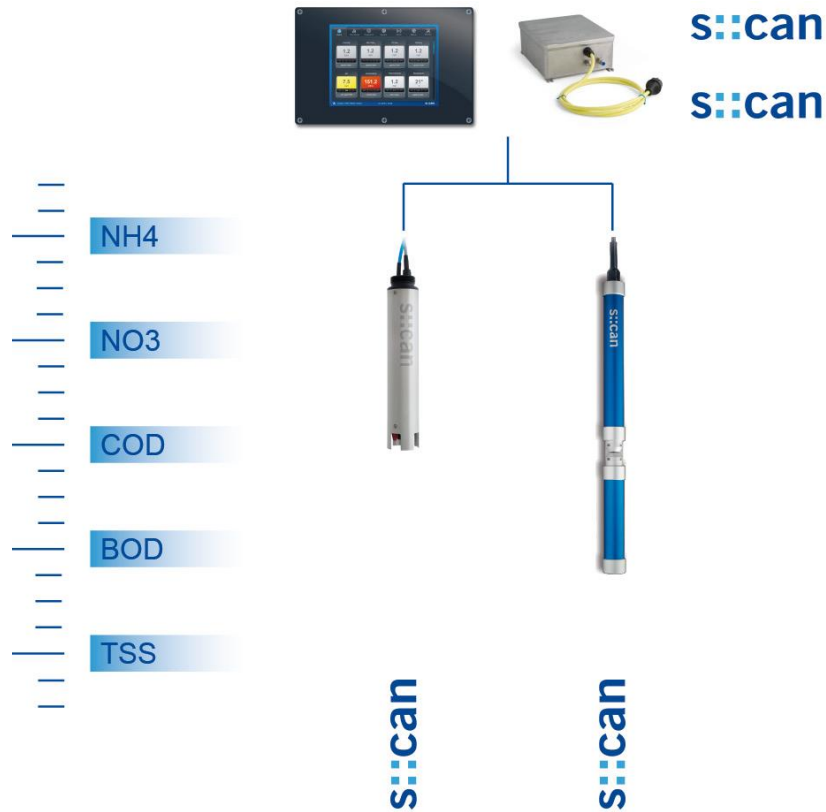
- pH::lyser
 - One-year electrode lifetime & guarantee, low maintenance and operating costs
 - Unique reference electrode for long-term stability
- redo::lyser
 - Measures ORP and temperature
 - Unique, non-porous / non leaking combined reference electrode
- oxi::lyser
 - Dissolved oxygen measurement
 - Fluorescent measuring technique
 - No replacement caps needed, approx. 5-10 year lifetime



system s::can

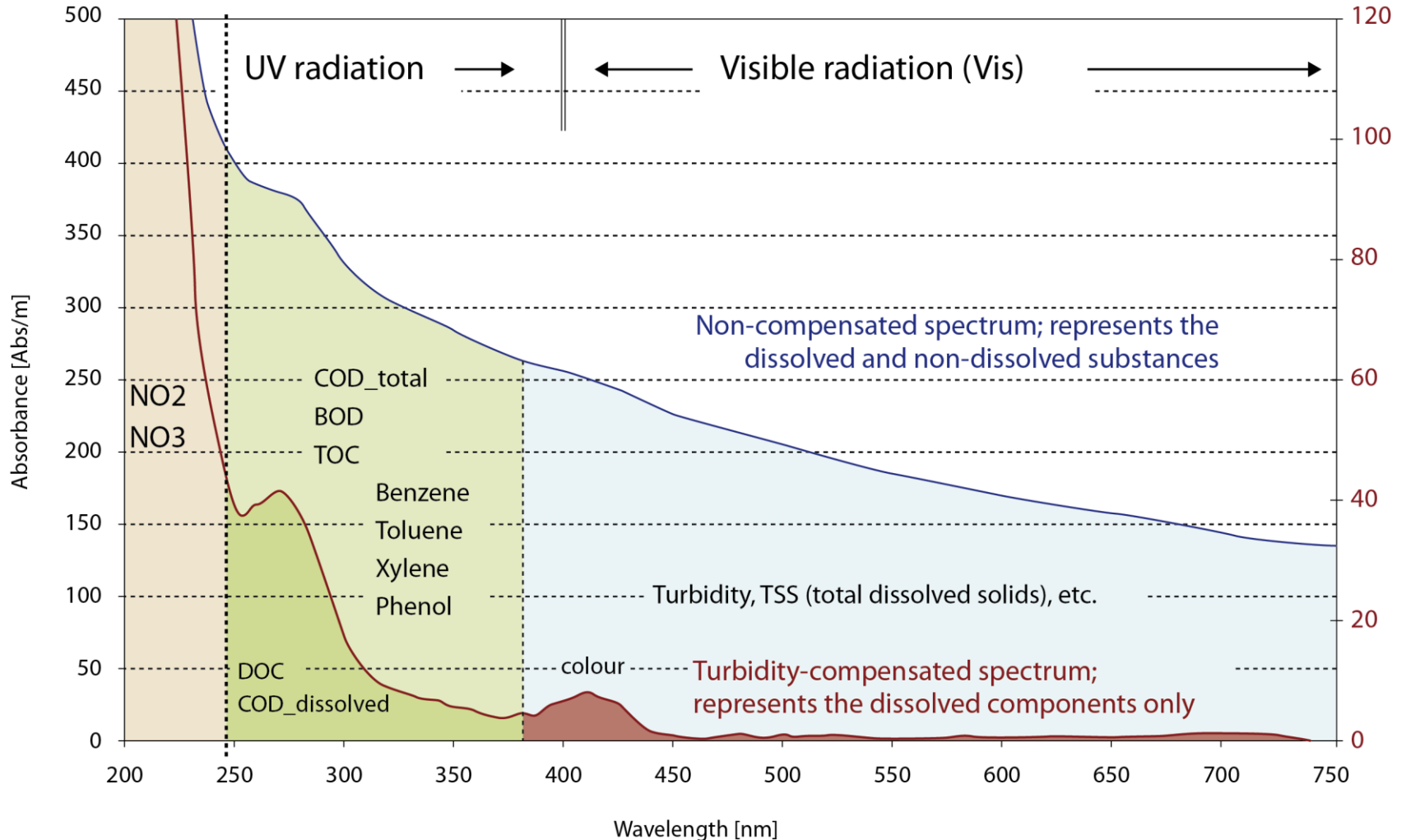


system s::can



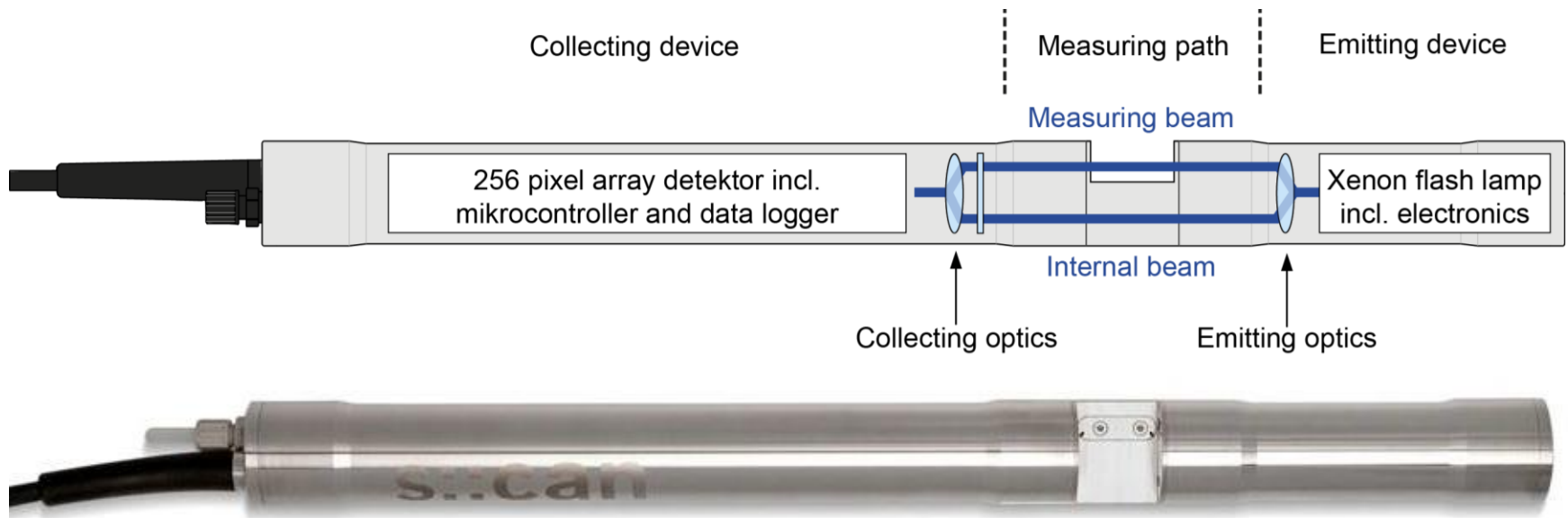
Online Water Quality Monitoring & UV/Vis Spectrometry

The Measuring Principle – Fingerprint



Online Water Quality Monitoring & UV/Vis Spectrometry

Introduction

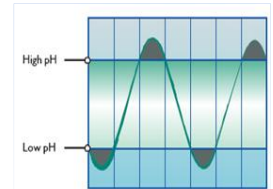
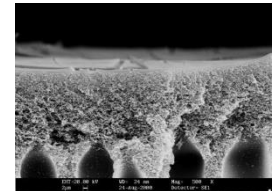


The measurements make use of the specific absorption signals caused by (groups of) substances

The pH::lyser / redo::lyser

What is unique ?

- unique, non-porous / non-leaking combined reference electrode
- long term stable and maintenance free in operation
- high temperature and pressure range
- insensitive to fouling
- factory precalibrated
- digital devices
- automatic pH buffer recognition
- mounting in flow cell (easy connect) or submersed
- optional: automatic cleaning with compressed air
- CE Certification
- lowest cost of ownership





The oxi::lyser

The oxi::lyser

- 1 ... probe housing
- 2 ... measuring element
- 3 ... connection thread for probe mounting pole
- 4 ... probe cable
- 5 ... hose for compressed air cleaning
- 6 ... temperature sensor
- 7 ... cleaning outlet for compressed air



What is unique ?

- drift-free fluorescence measuring principle
- most mature technology - thousands in the field and almost zero defects
- one DO sensor for all applications
- unbeatable accuracy and repeatability
- most insensitive to fouling and contamination on the market
- digital device RS485
- factory precalibrated
- mounting in flow cell (easy connect) or submersed
- optional: automatic cleaning with compressed air
- lowest cost of ownership, easiest handling



The oxi::lyser

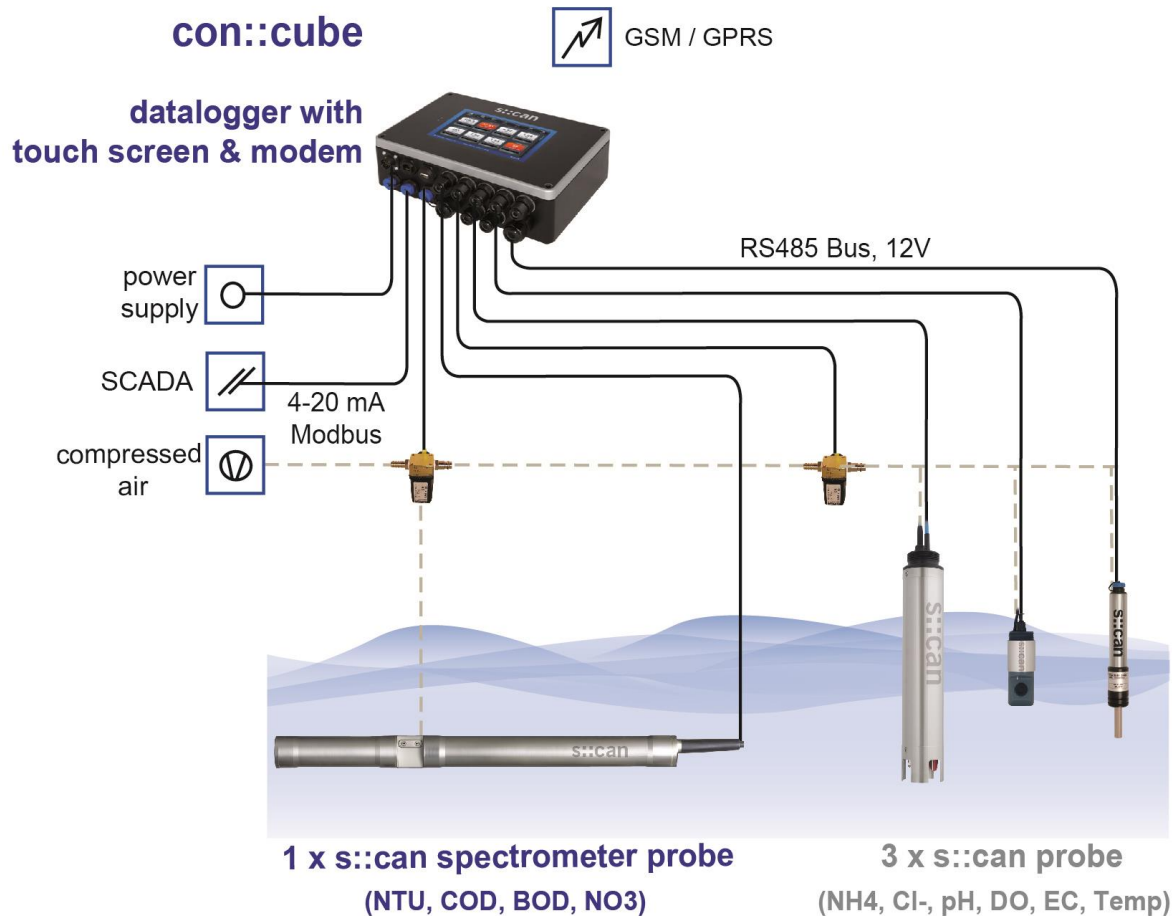
Maintenance and Service

- Automatic cleaning unnecessary in almost all cases
- Automatic cleaning by pressure air under extreme conditions possible
- Check of accuracy
 - for compliance monitoring and reporting: monthly
 - other applications: quarter-yearly
- No exchangeable or serviceable parts
- Exchange of whole sensor before end of lifetime (5 to 10 years)



Innovative Online Water Analysis

The Full Range OnLine – all parameters from one source



Calibrations

Calibrations

“Global Calibration”

- pre-setting for many different situations, to be defined with order. Examples:
 - WWTP influent
 - WWTP effluent
 - WWTP aeration basin
 - river, ground water
 - paper mill, brewery, beverage, tanner, pharma, chemical, petrochem, dairy, and many more
- allows very simple plug-and-play use of s::can instruments
- was developed using thousands of spectra from thousands of samples, with s::can software tool based on PCA (Principal Component Analysis) and PLS (Partial Least Square Fit)
- measurement without calibration, just plug in electricity and start

Calibrations

“Local Calibration”

- to adapt “Global Calibration” accurately to local water matrix, “Local Calibration” is made, which enhance accuracy and stability” to local water composition
 - instrument can stay in the water during calibration
- high quality reference measurements necessary, concerning:
 - sampling
 - storage
 - and laboratory analysis
- procedure of calibration: multiple samples are taken for multi-point calibration
 - simple input of lab values into s::can software
 - calibration automatically (standard) or manually (experts only)

Calibrations

“Advanced Calibration”

- for “difficult” industrial water matrix
- System has capability to adapt for fast changing composition of water; industrial waste waters
- Onboard PCA and PLS tools are used
- used for complex and dynamic water samples
- opens unlimited applications for process spectrometry & many different applications & specific parameters of interest

Innovative Online Water Analysis

The Full Range OnLine – all parameters from one source

River – Installation - India

Case Study:

Real Time Continuous Water Quality Monitoring Stations at the Ganga Basin



Remote water monitoring station in Allahabad (monitored parameters: TSS, COD, BOD, EC, pH, Temp, NH₄, DO, Chloride, NO₃-N)



Case Study:

Real Time Continuous Water Quality Monitoring Stations at the Ganga Basin

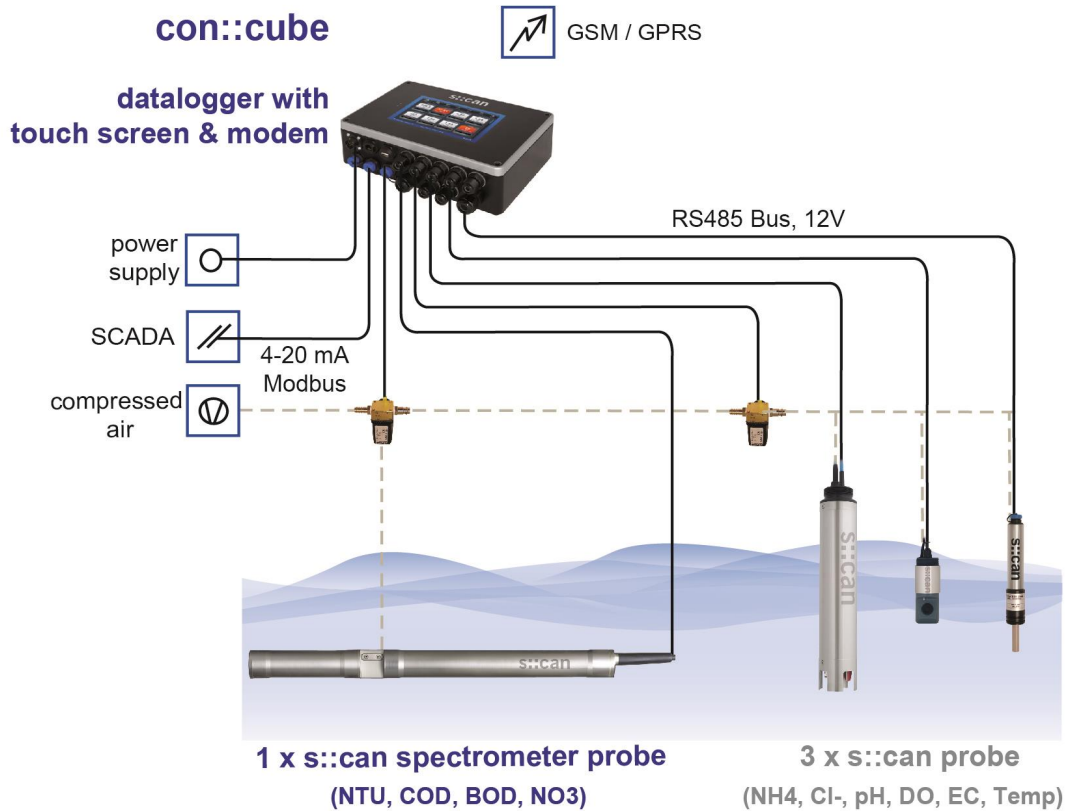
- The remote stations are field operational and tolerant to extreme environmental conditions in India, in high or low temperatures, high humidity coastal conditions and high temperature desert conditions.



Monitoring stations in Kannauj, Wazirabad and Patna

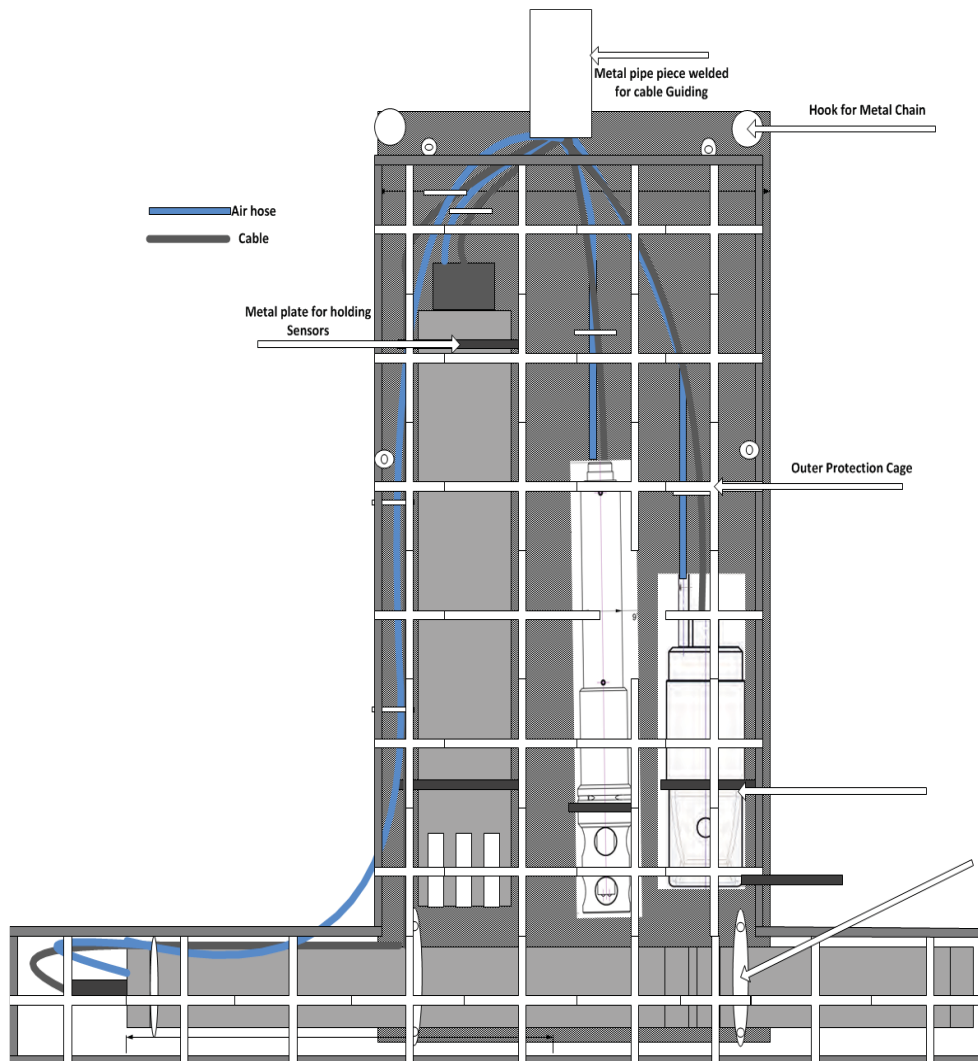
Innovative Online Water Analysis

The Full Range OnLine – all parameters from one source



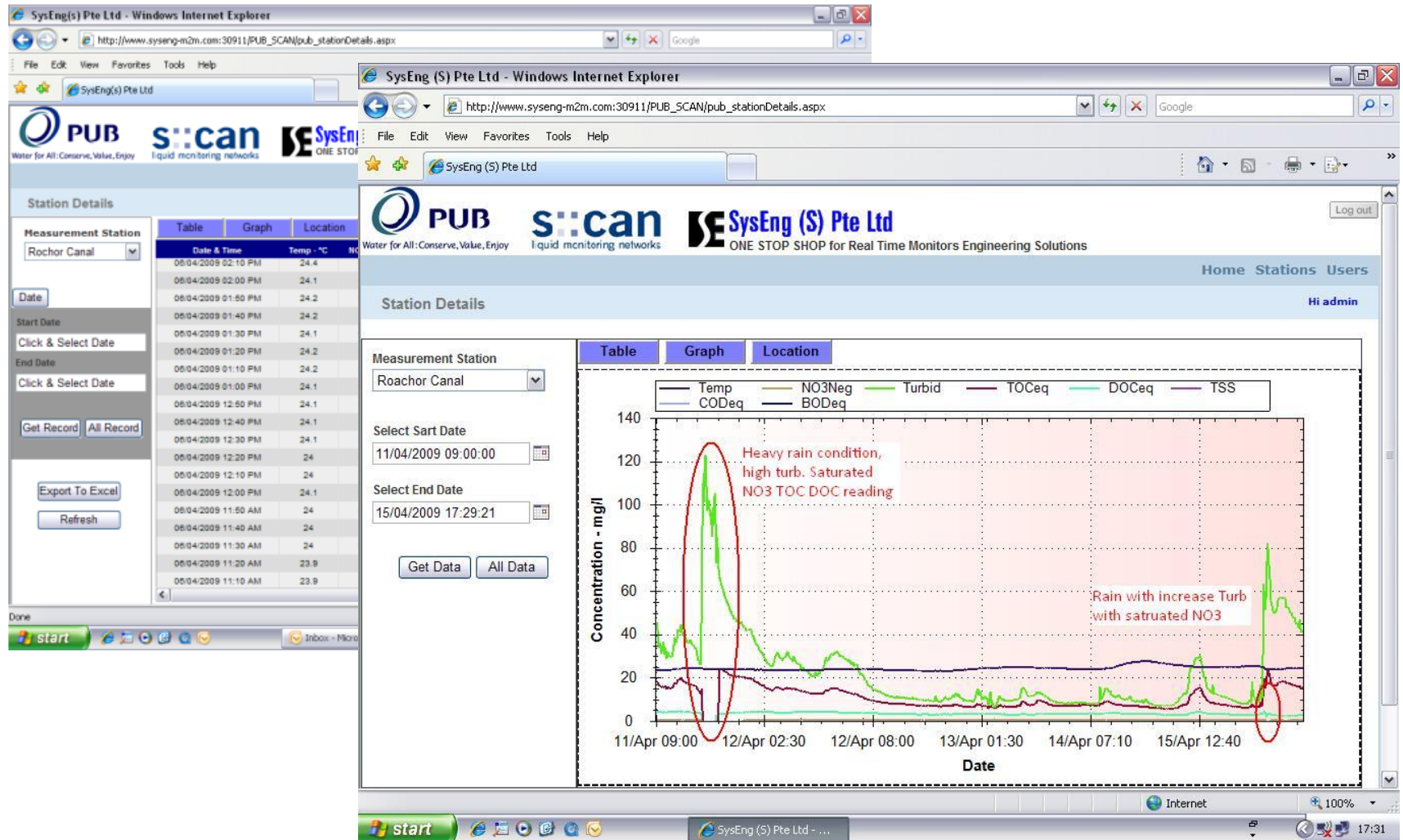
Innovative Online Water Analysis

The Full Range OnLine – Remote Installation General Information



Case Study:

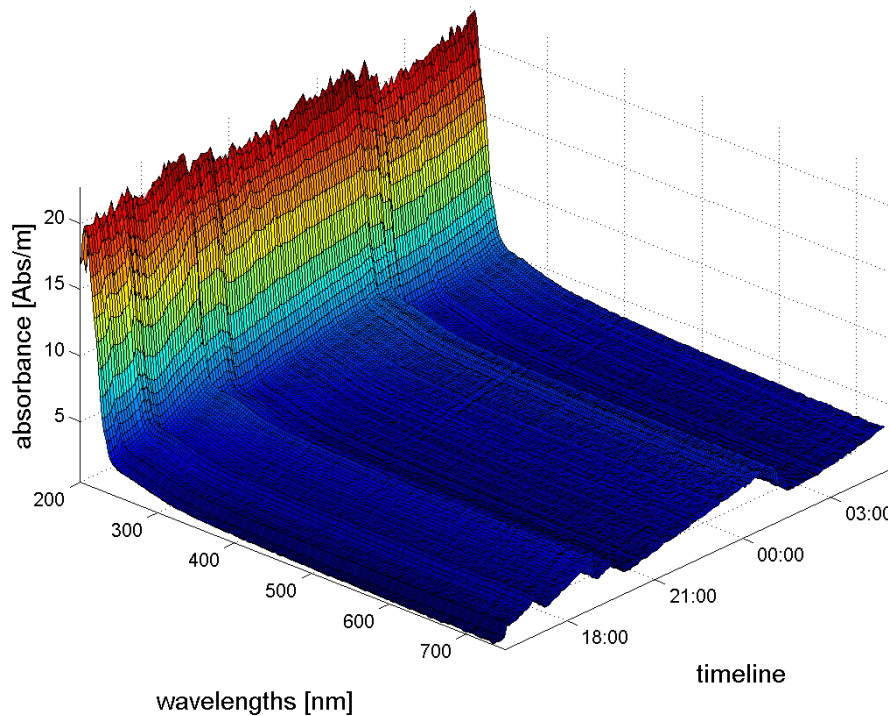
PUB Monitoring Singapore



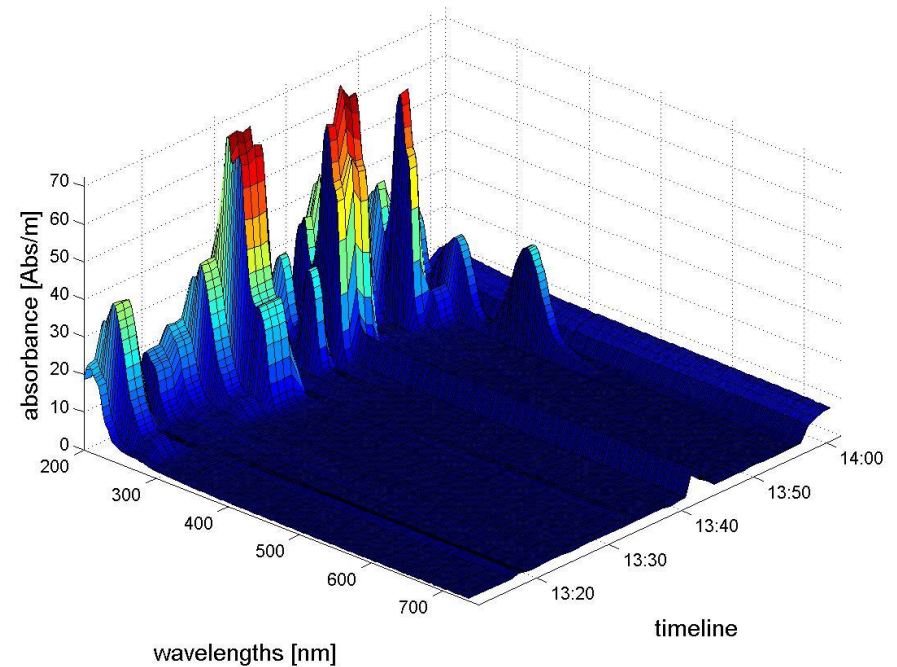
Case Study:

Monitoring Sichuan EPA

Sichuan River Data



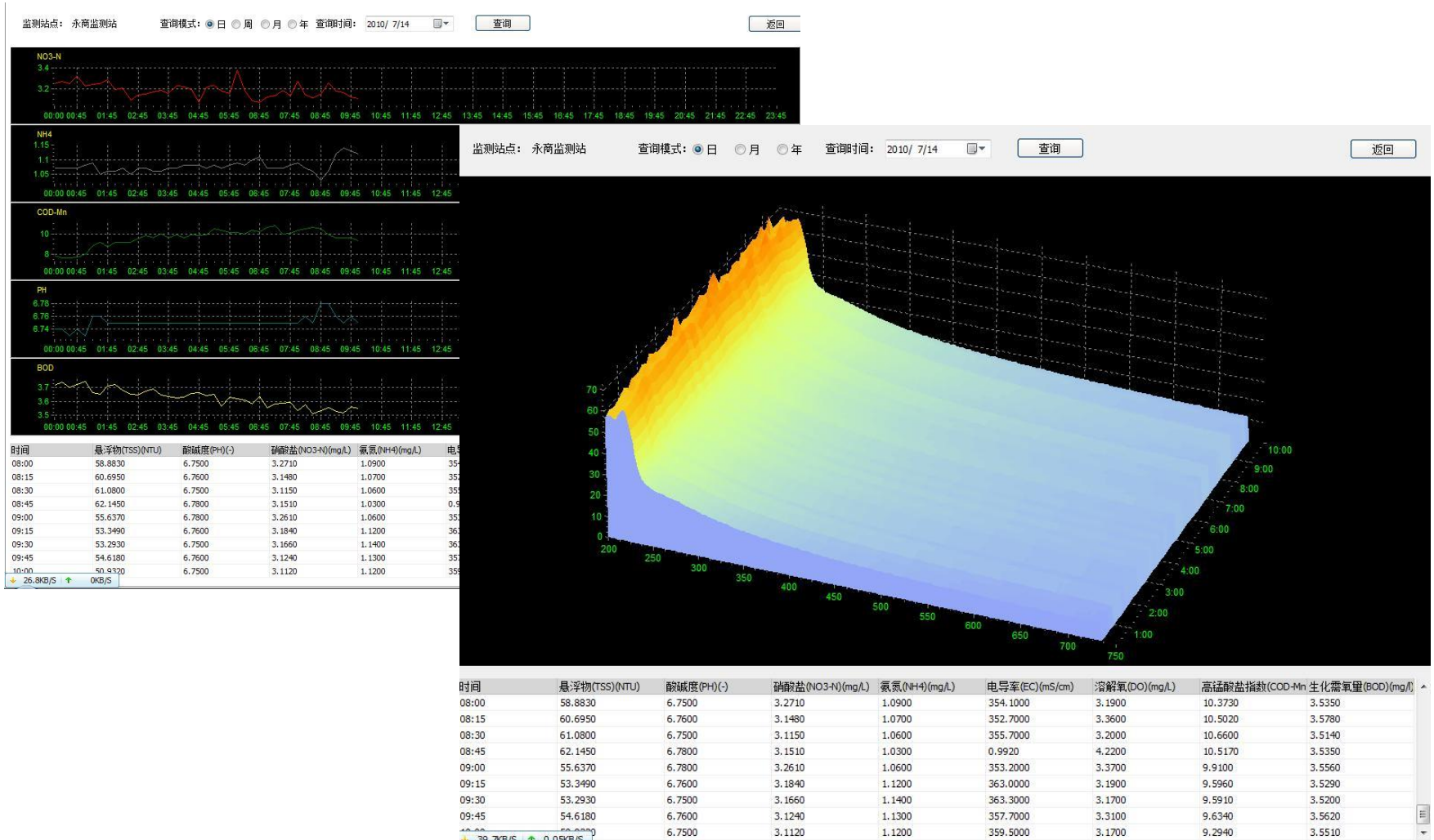
Station 3 Sichuan Chemical Substances Test



spectral alarms for unknown contaminants (e.g.
Hydrocarbons, BTX, ..)

Case Study:

Monitoring Chengdu EPA

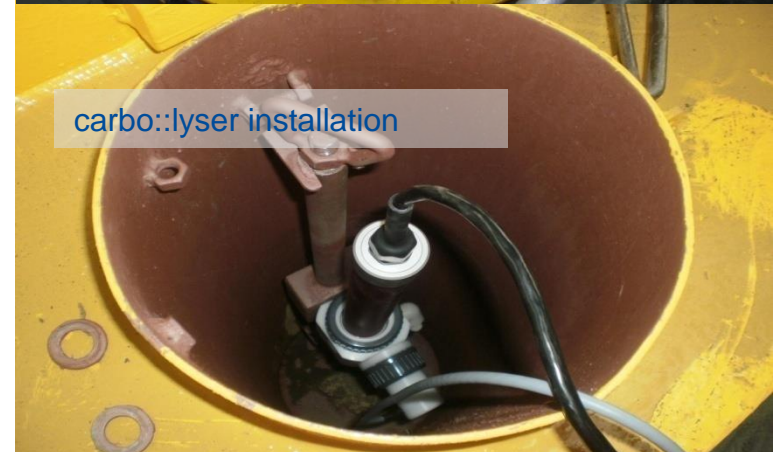
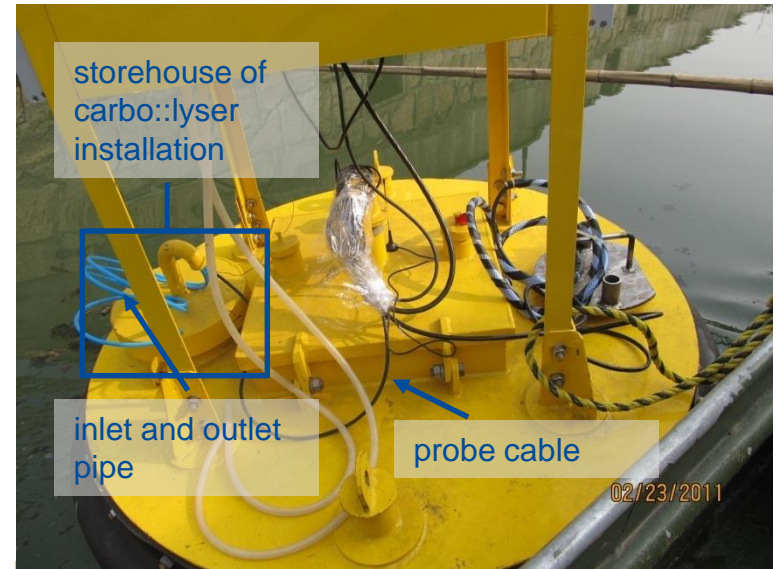


Case Study:

Automatic cleaning of submersed sensors



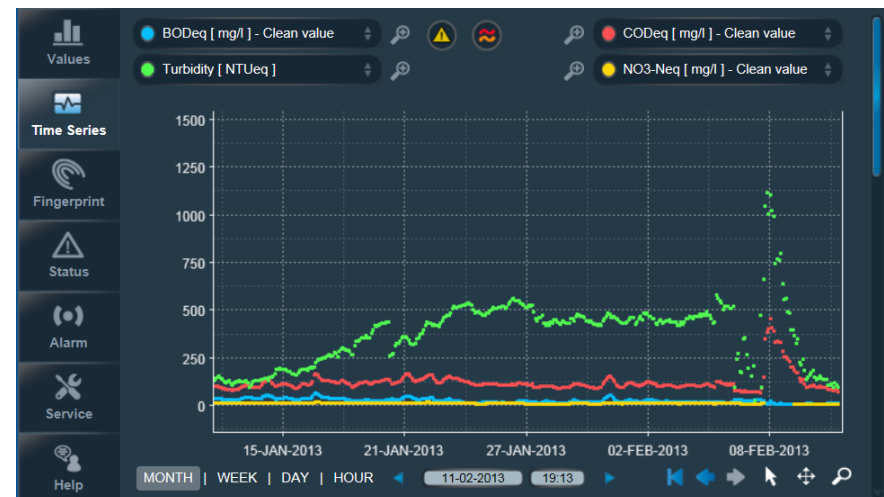
Lake and Reservoir Monitoring



Case Study:

Real Time Continuous Water Quality Monitoring Stations at the Ganga Basin

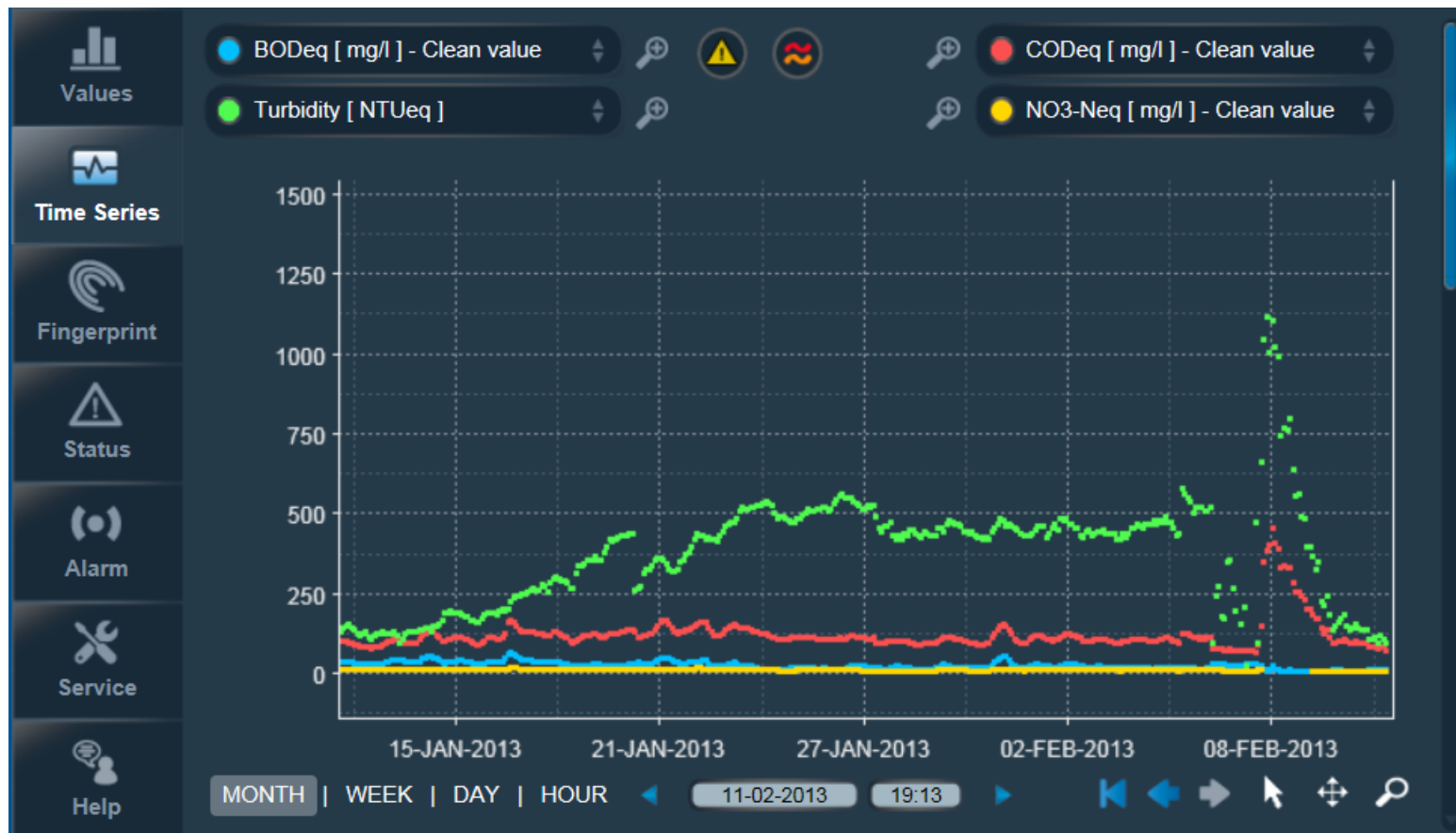
- Measurement results from Okhla:
- Continuous results every 10 minutes, automatic file transfer of:
- NTU, COD, BOD, NO3, DO, pH, NH4-N, EC, Cl-, Temp



Case Study:

Real Time Continuous Water Quality Monitoring Stations at the Ganga Basin

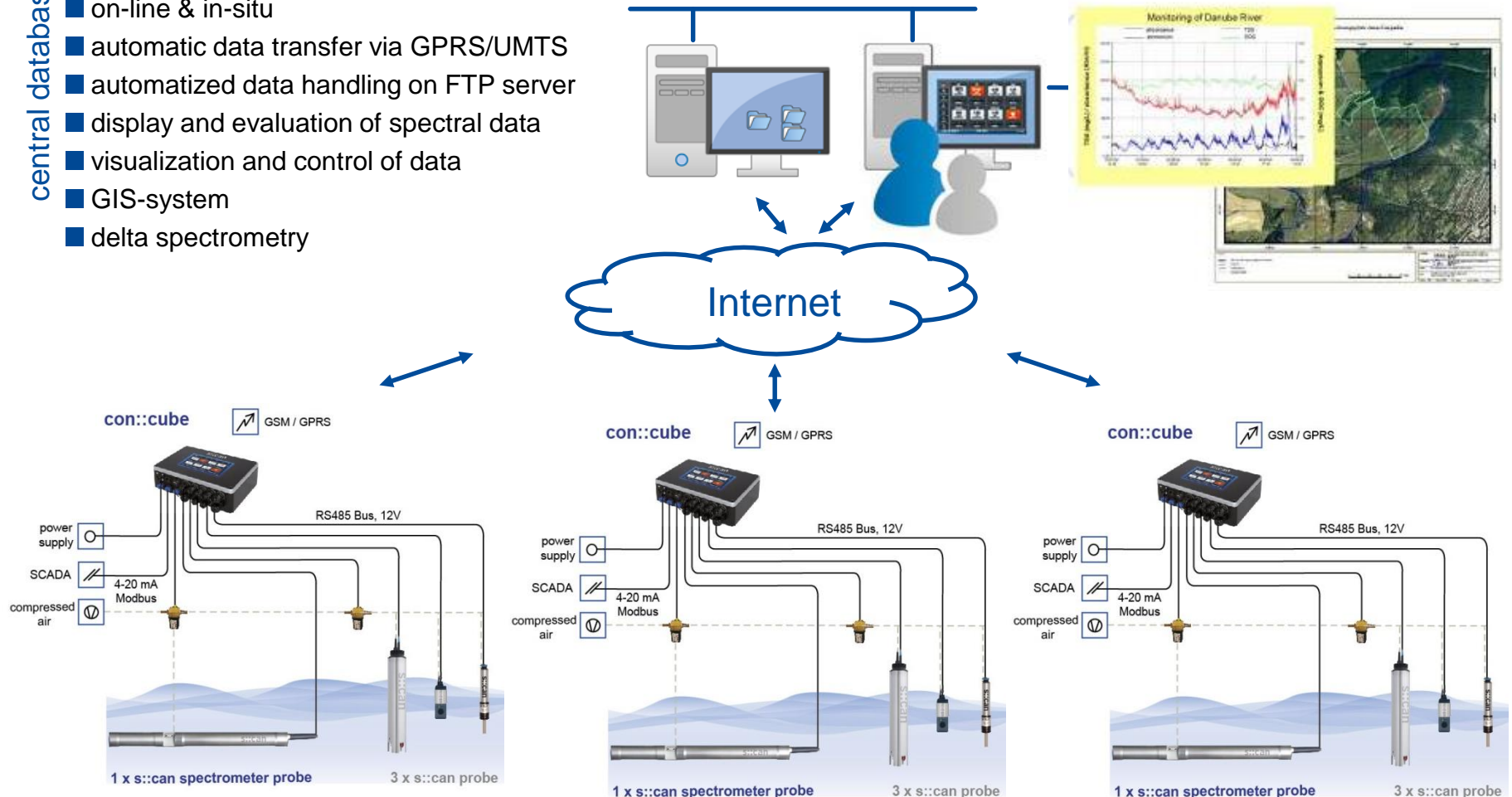
■ Measurement results form Okhla site



s::can monitoring network linked to central database

central database

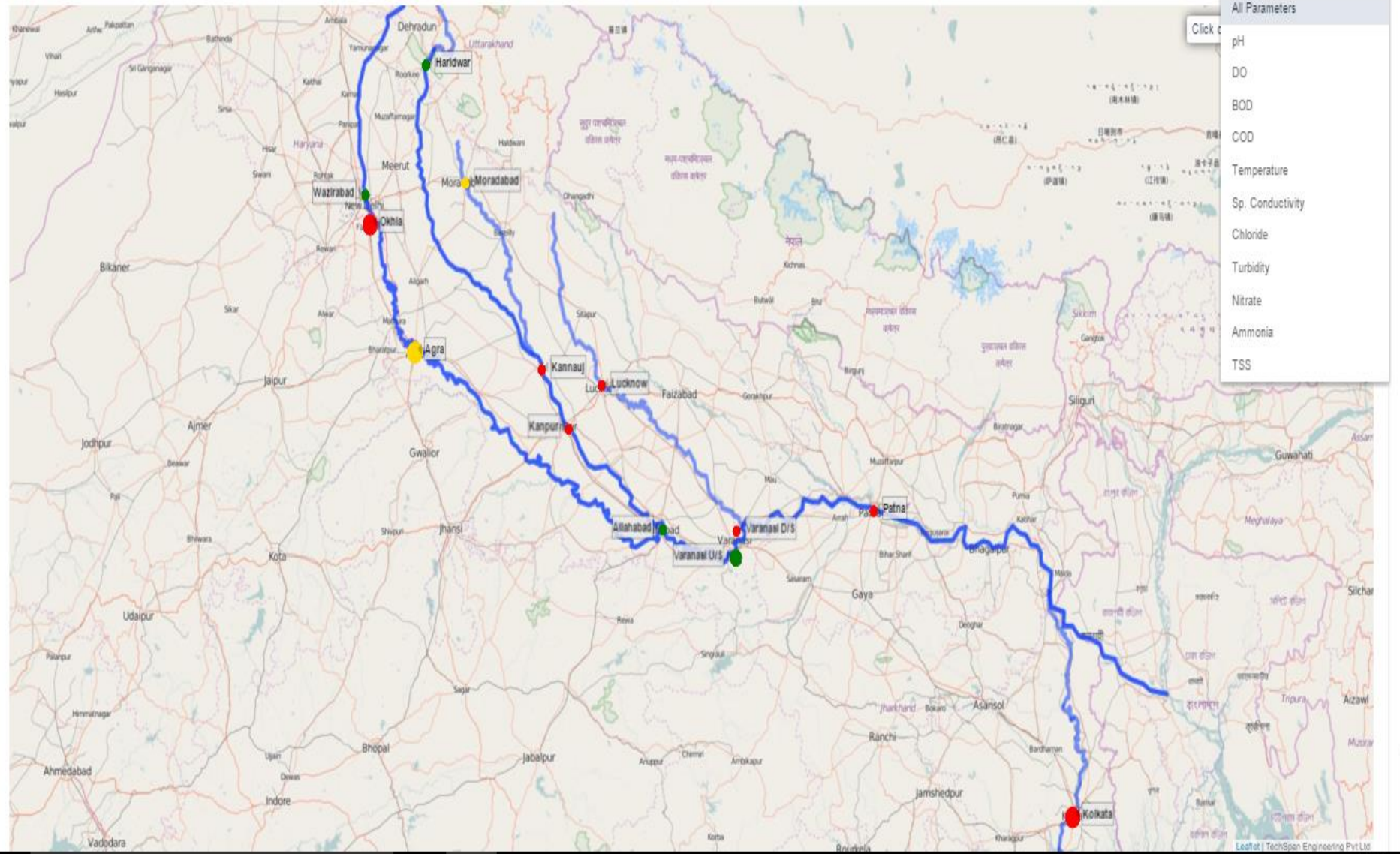
- systems for large monitoring applications (rivers, lakes, etc)
- interconnection of multiple s::can monitoring systems
- on-line & in-situ
- automatic data transfer via GPRS/UMTS
- automatized data handling on FTP server
- display and evaluation of spectral data
- visualization and control of data
- GIS-system
- delta spectrometry



River Ganga & Tributaries

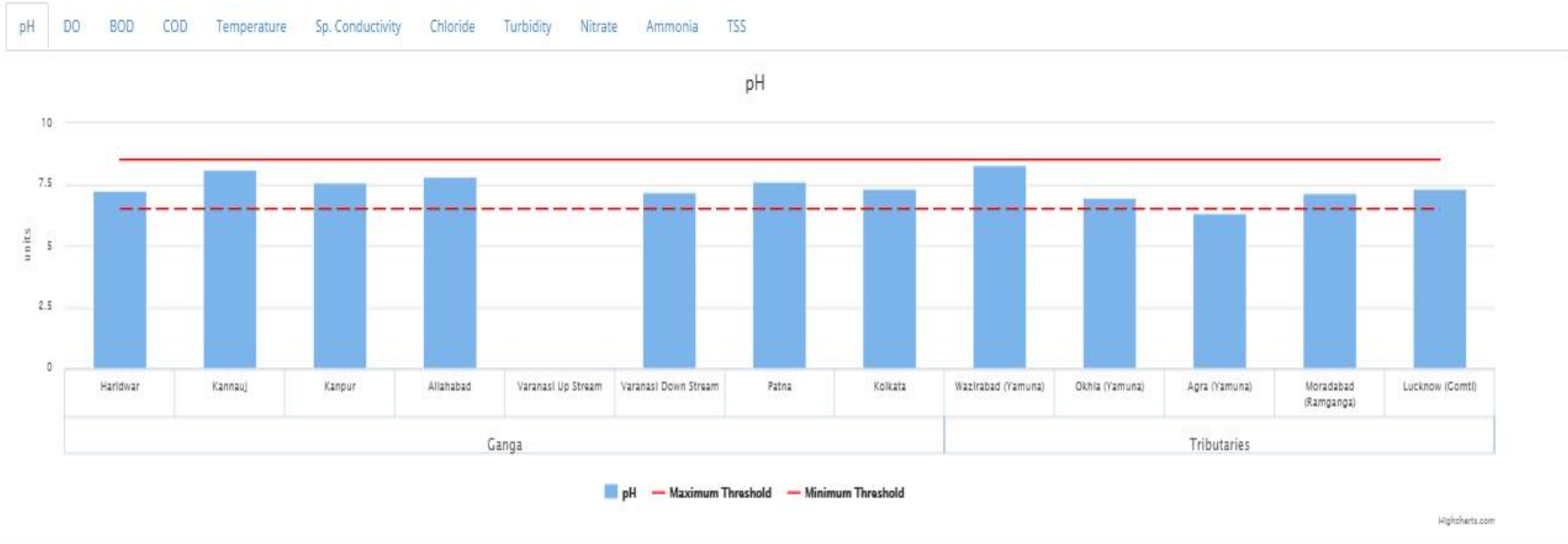
DATA VIEW VISUALIZATION

- ALL PARAMETERS
- All Parameters
 - pH
 - DO
 - BOD
 - COD
 - Temperature
 - Sp. Conductivity
 - Chloride
 - Turbidity
 - Nitrate
 - Ammonia
 - TSS

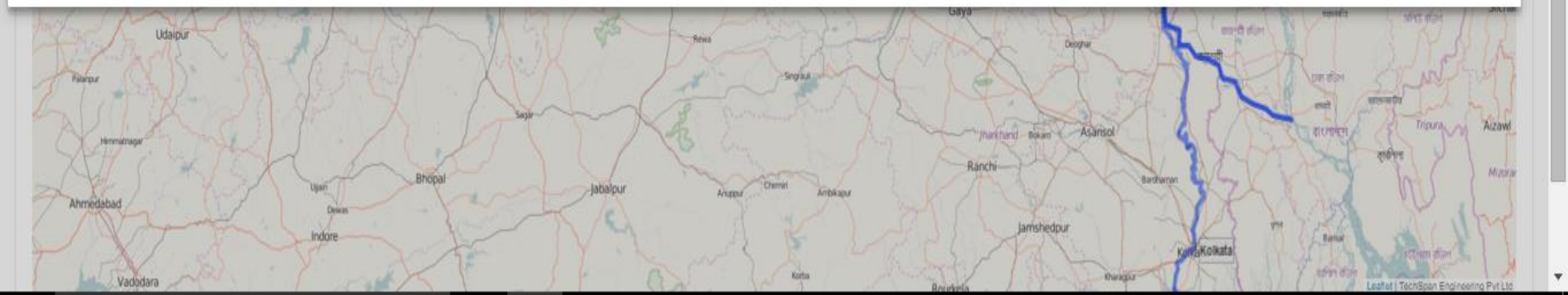


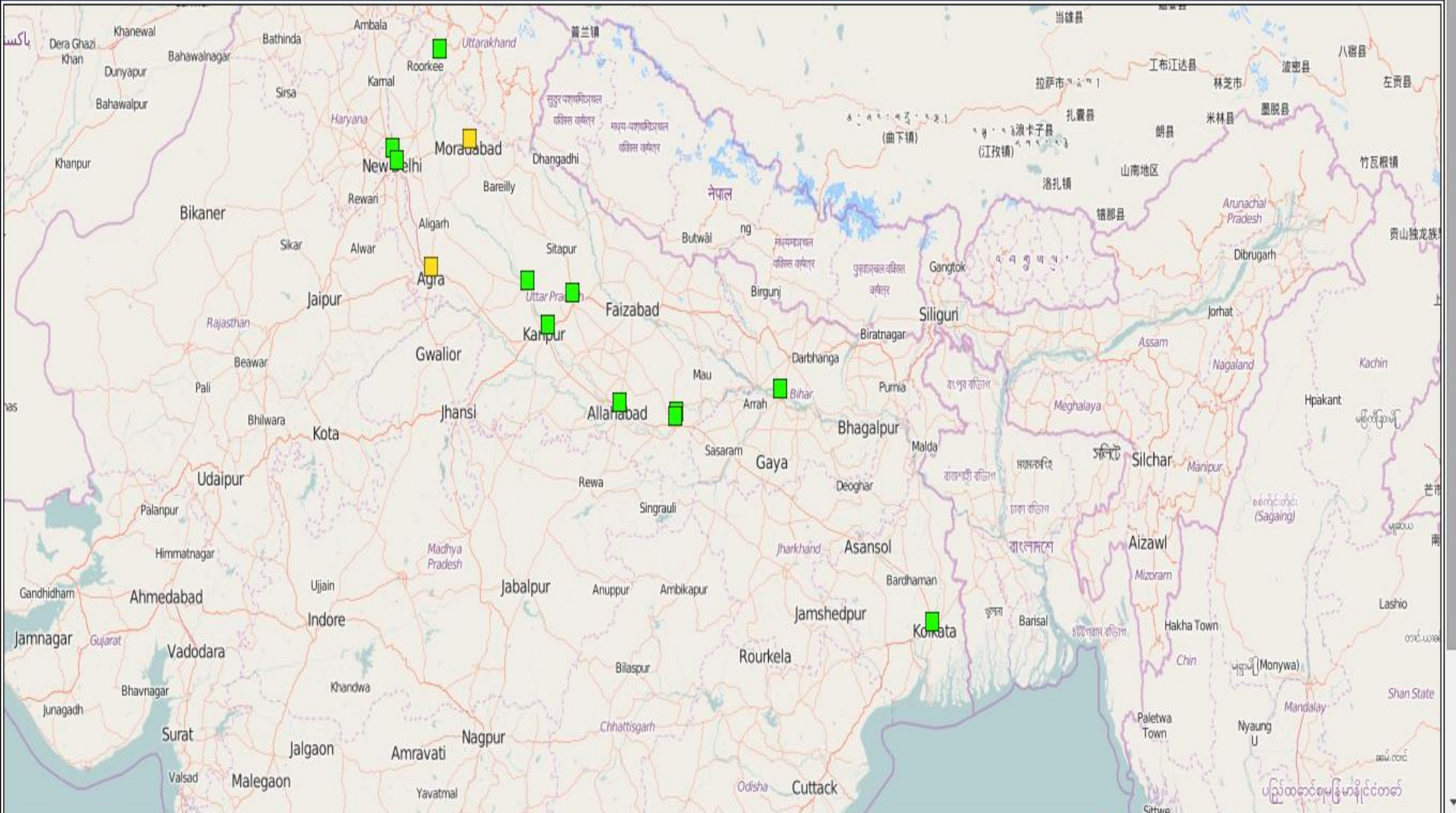
Water Quality in different cities on banks of river Ganga and its tributaries

Visualization



CLOSE

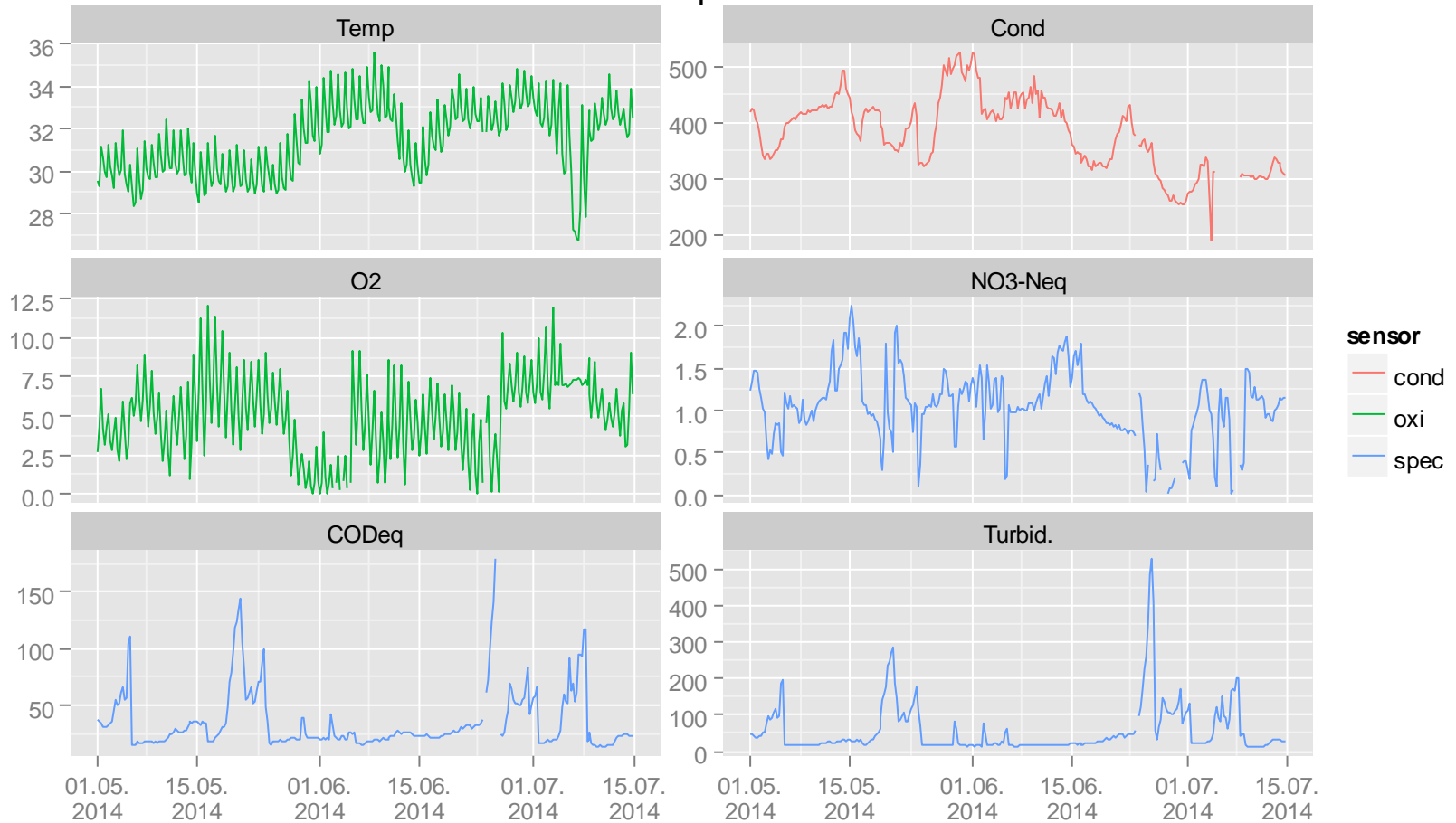




Water quality monitoring – good periods

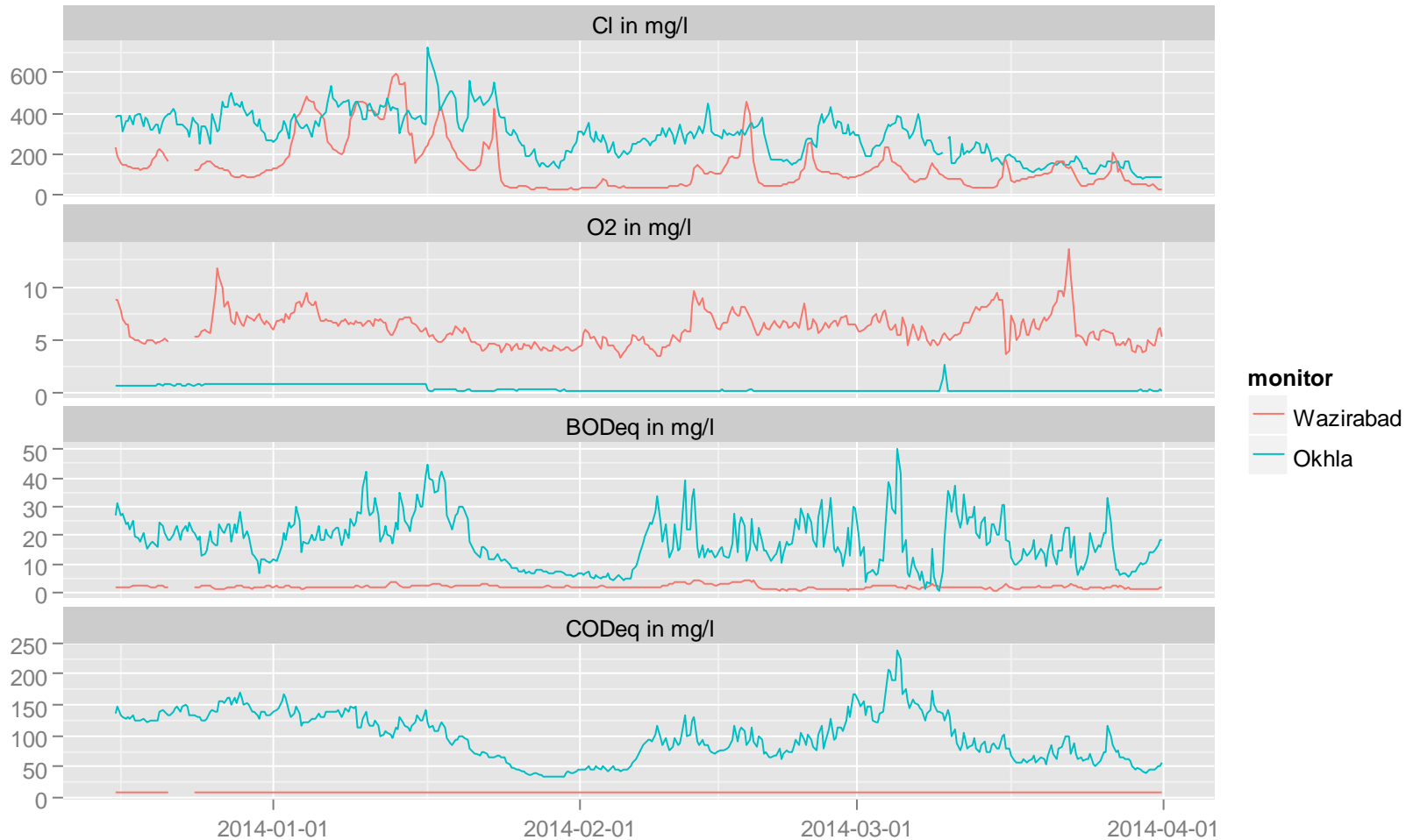
Ganga River

Kanpur



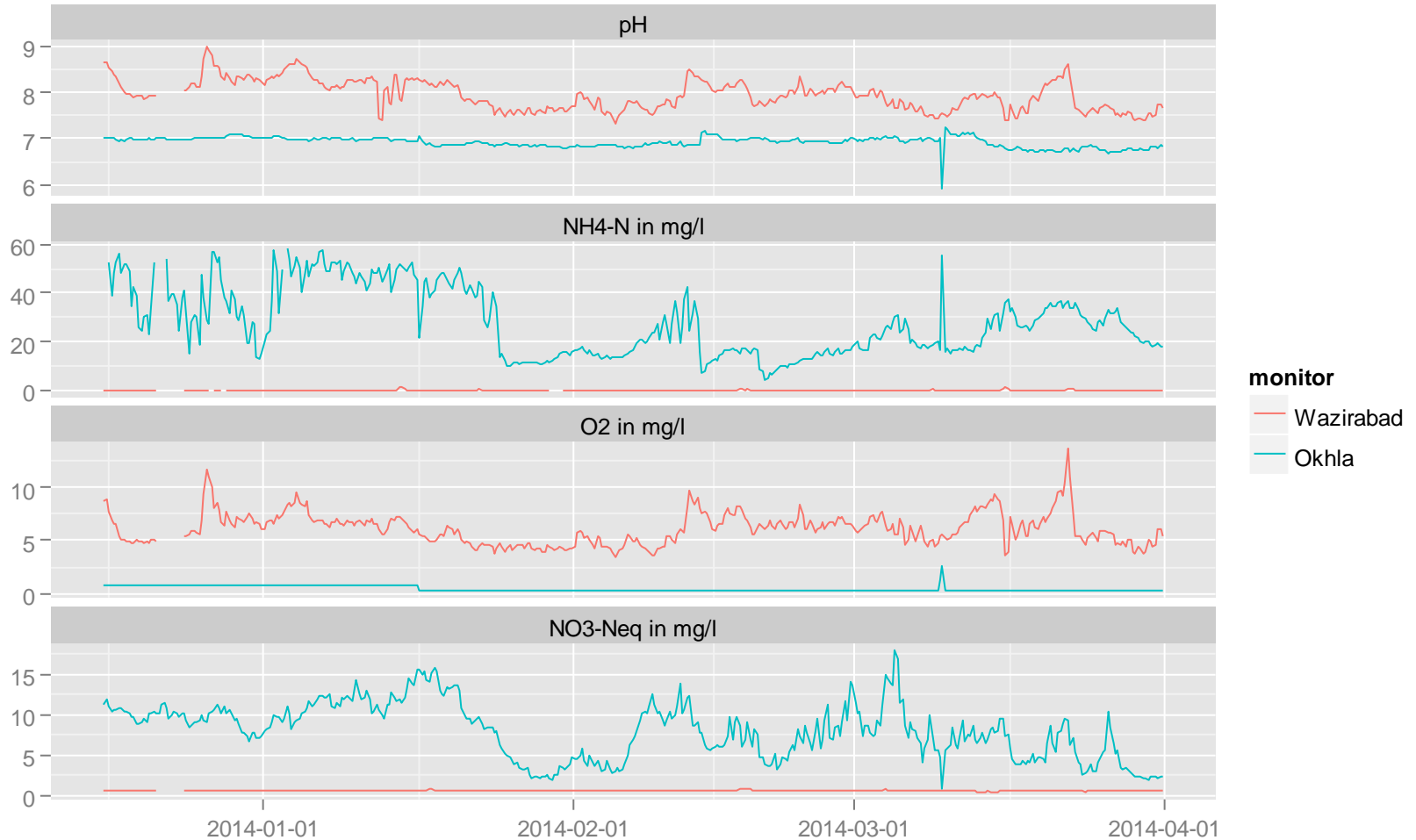
Water quality analysis (6-1)

Water pollution of Dehli (up-/downstream)



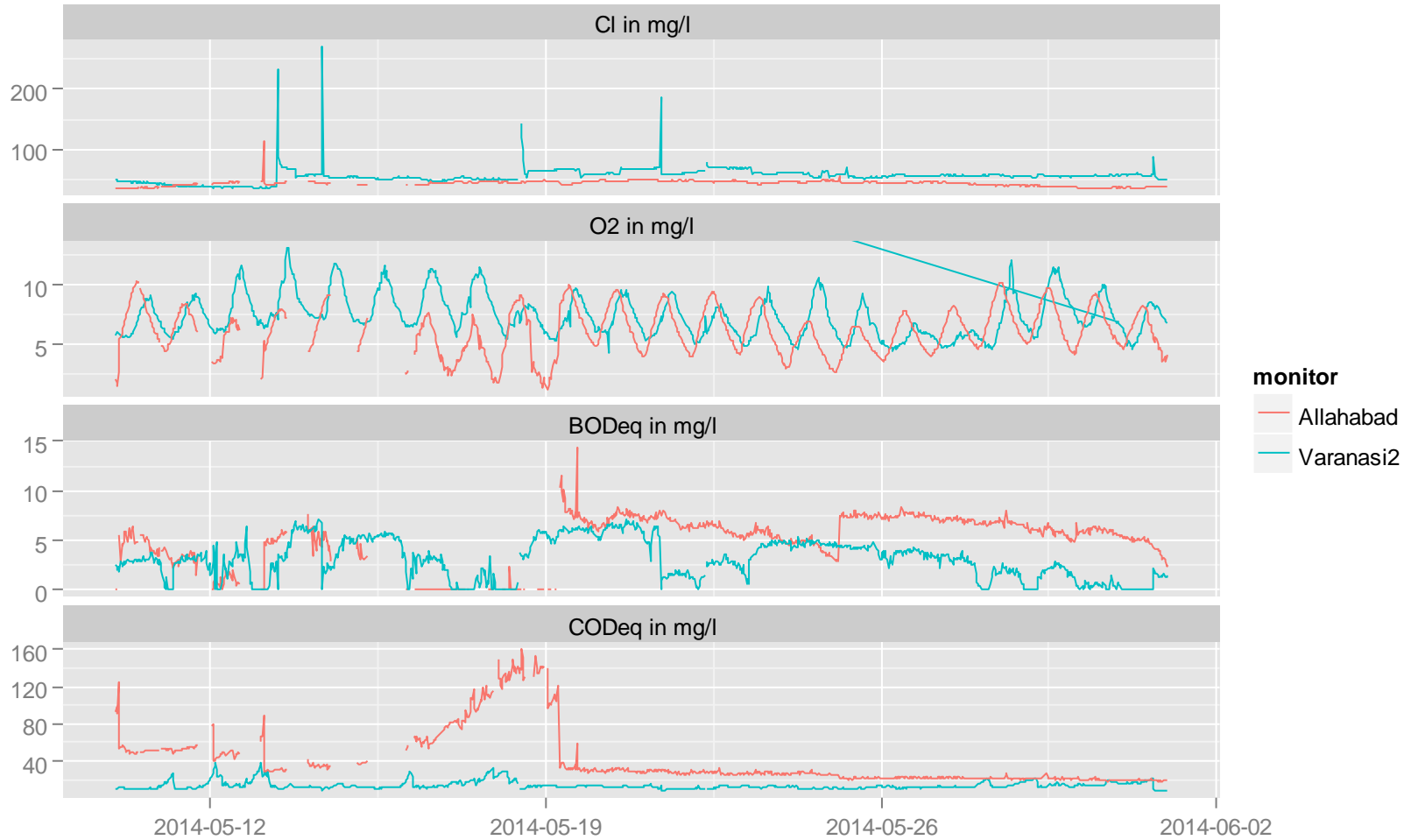
Water quality analysis (6-2)

Relation O2, NO3-, NH4+, pH



Water quality analysis (7)

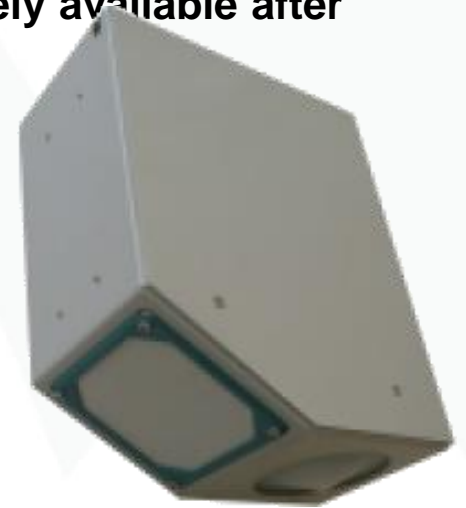
Ganga River



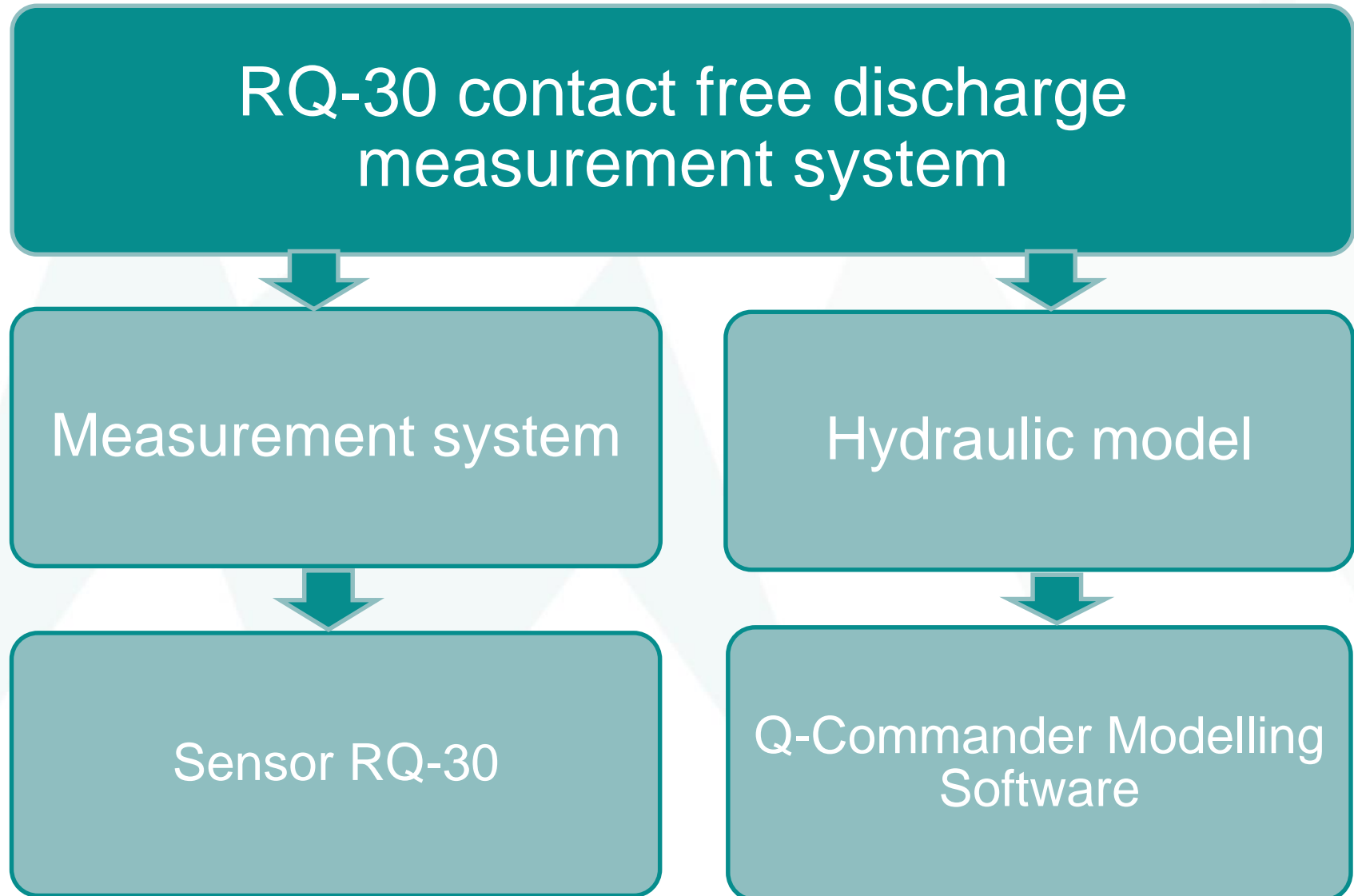


RQ-30 CONTACT FREE DISCHARGE MEASUREMENT SYSTEM

- » **Calculation of discharge**
 - » Continuous measurement of flow velocity and level
- » **Due to the hydraulic model the discharge value is immediately available after installation**
 - » Stage-discharge curve (Q/h) not required
- » **Contact free discharge measurement**
 - » Reliable
 - » Maintenance-free
 - » Safe from flood damaging
 - » Easy installation above the river on a bridge or arm



RQ-30 MEASUREMENT PRINCIPLE

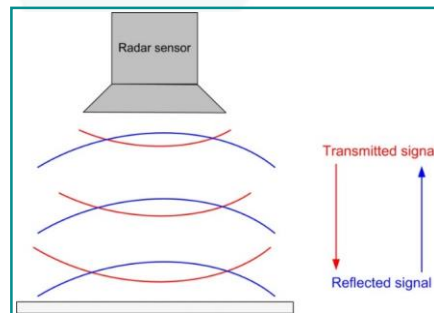


RQ Measurement Principle

Water level (stage)

Transit time measurement

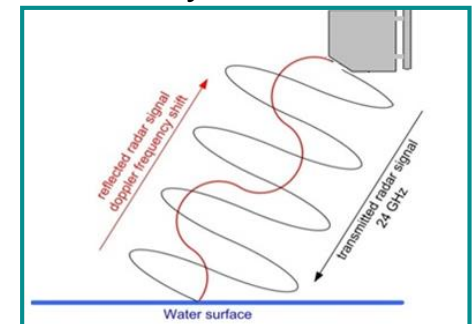
- » Reflected ultrasonic/radar pulse (26 GHz)
- » Vertical to water surface
- » Time between transmitting and reflecting the pulse = directly proportional to the distance
- » **Radar:** independent of air temperature and medium (e.g. foam)



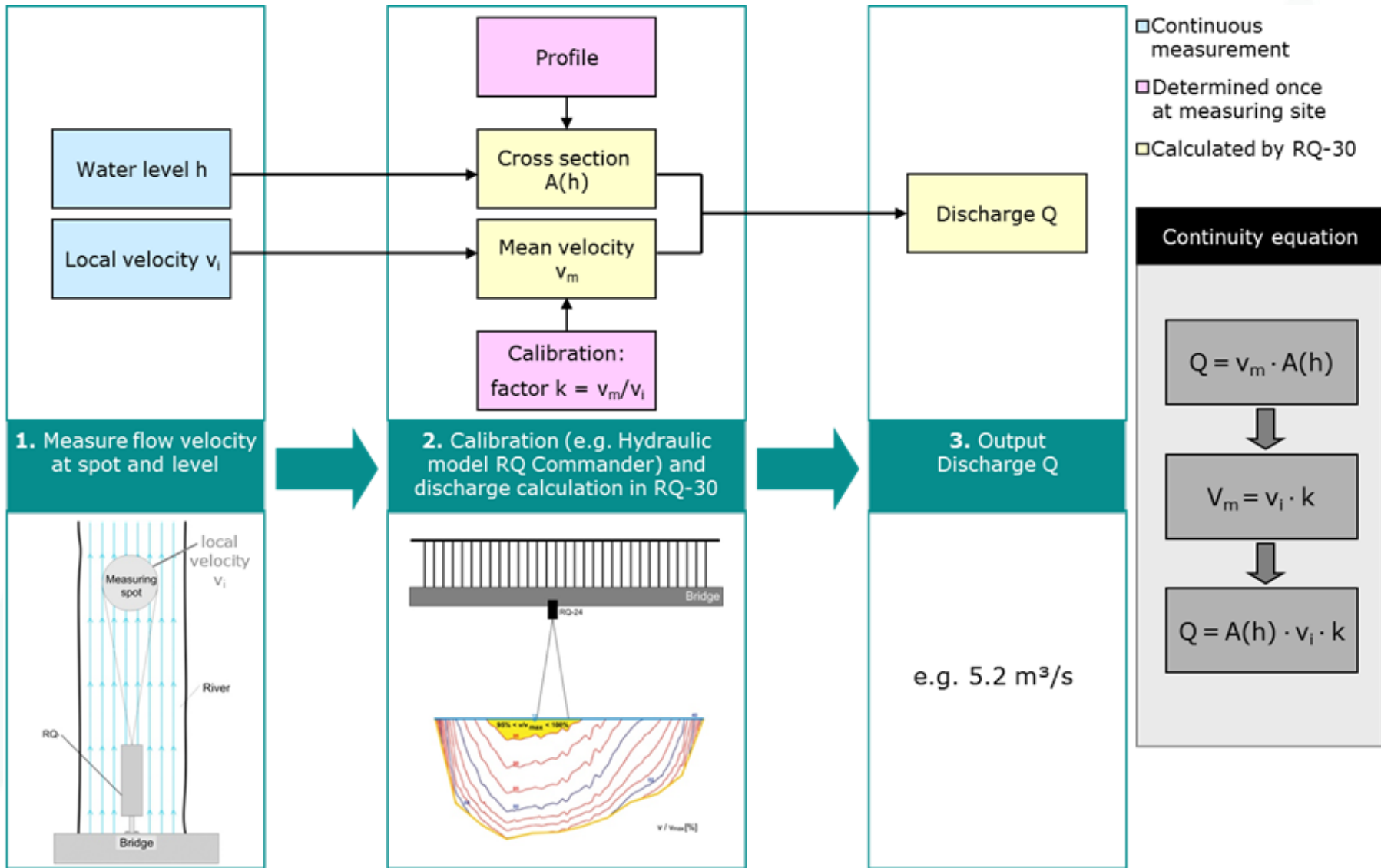
Flow velocity

Measurement of Doppler frequency shift (Doppler Effect)

- » Radar impulse (24 GHz) is reflected by water surface
- » Frequency shift by movement on the water surface (min. swell 3mm)
- » Measurement of **surface velocity**, calculation of mean velocity with hydraulic model



RQ-30 Measurement Principle



Tirol, Austria



Enshi, China

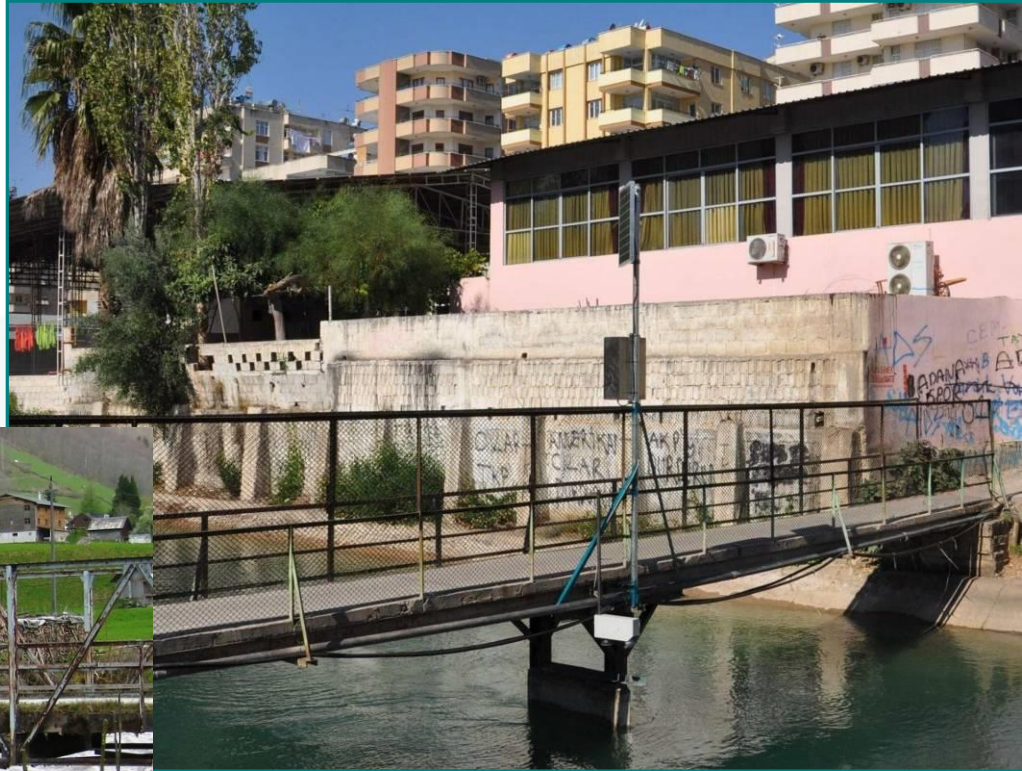


Vorarlberg, Austria



Tirol, Austria

Schwanden, Swiss



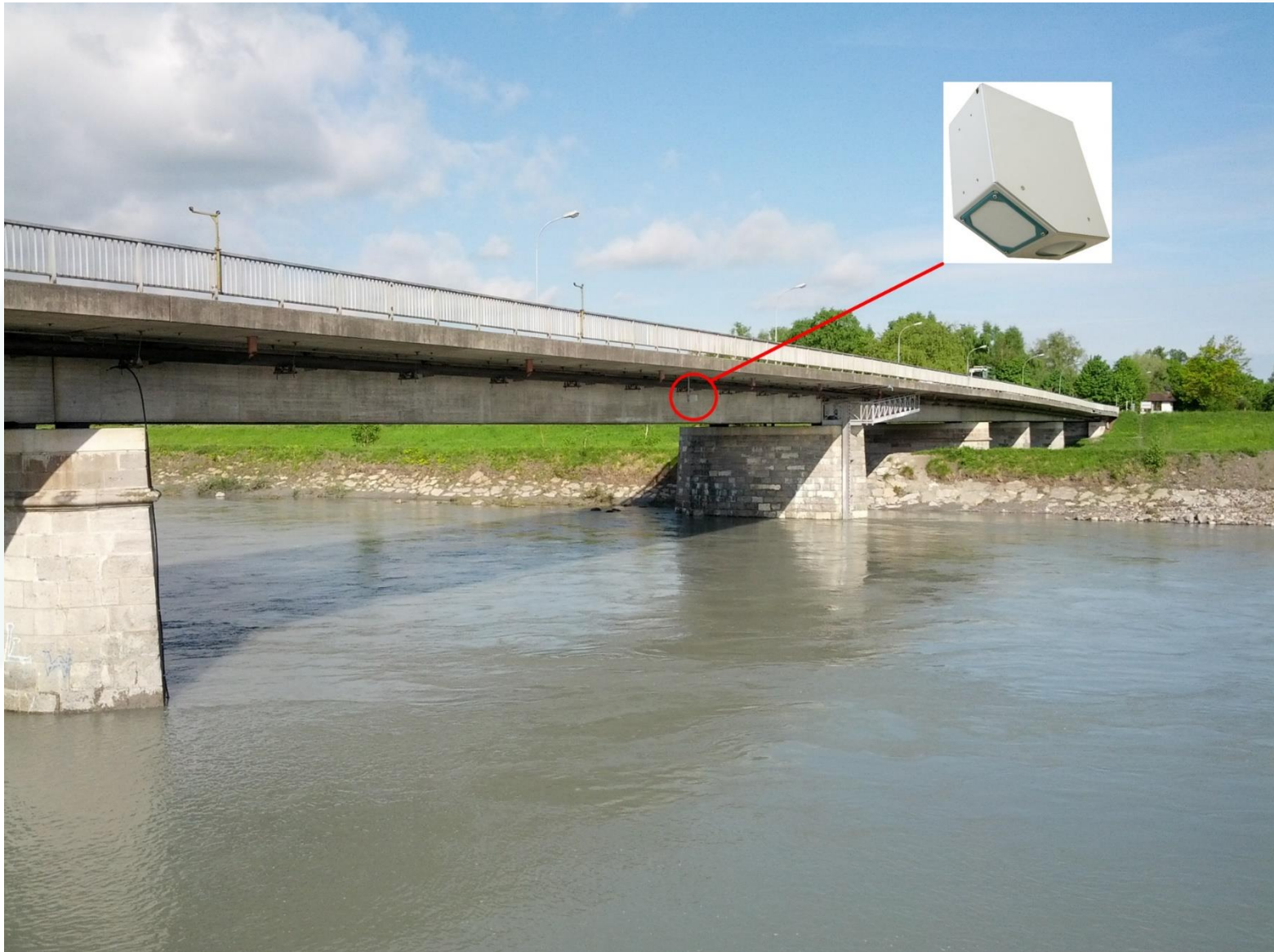
Adana, Turkey



Applications



Rhine (Lustenau May 2016)



Vorarlberg, Austria

Rhine (Lustenau May 2016)



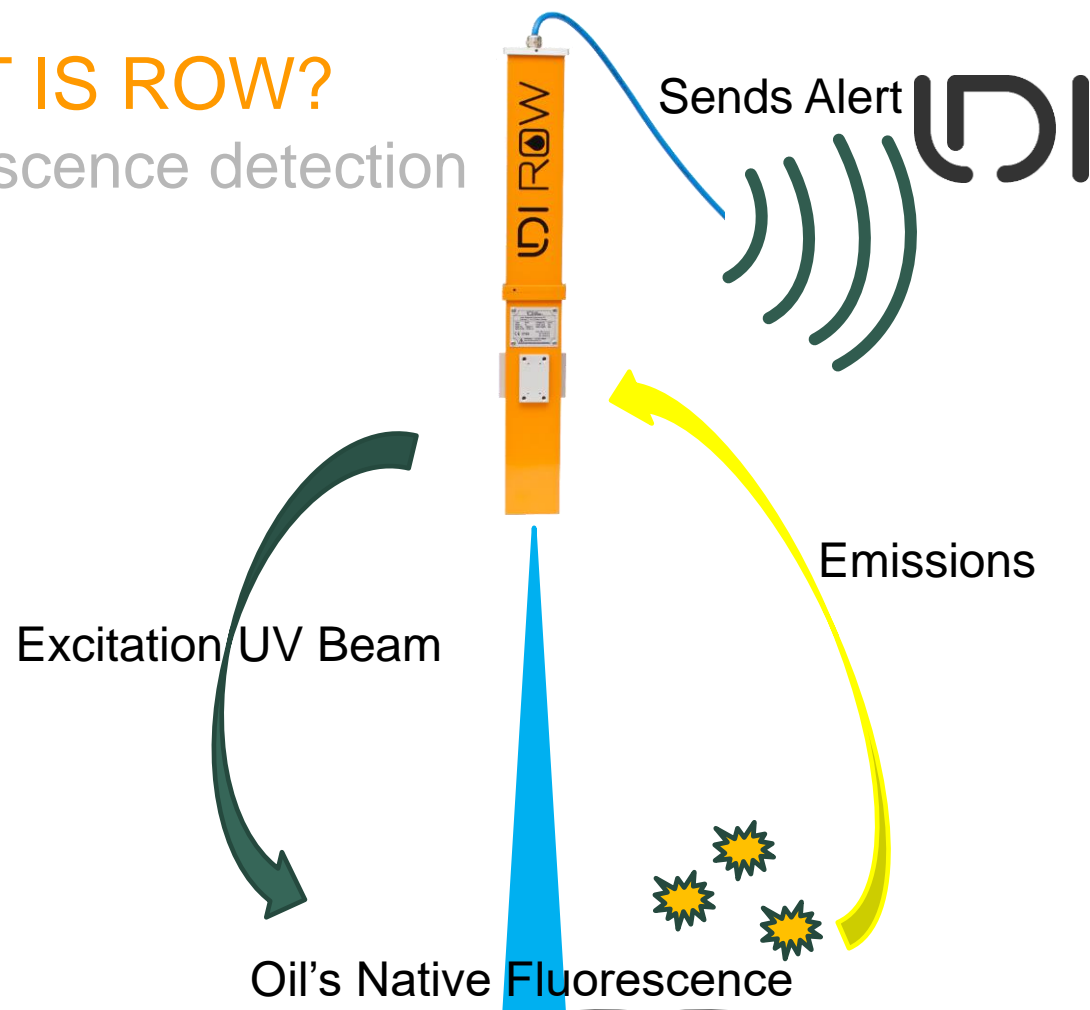
Teledyne Isco Refrigerated Samplers



■ ROW – REMOTE OPTICAL WATCHER OIL ON WATER

WHAT IS ROW?

Fluorescence detection



WHY EARLY DETECTION?



Reduce Damage

Reduce Loss

Reduce Cost

Reduce Downtime

TRADITIONAL APPLICATIONS

Ports and waterways



Port, Estonia

Port Monitoring, Latvia



Port Monitoring, Poland



River Monitoring, China

PRESENT APPLICATIONS

RainWater Collector

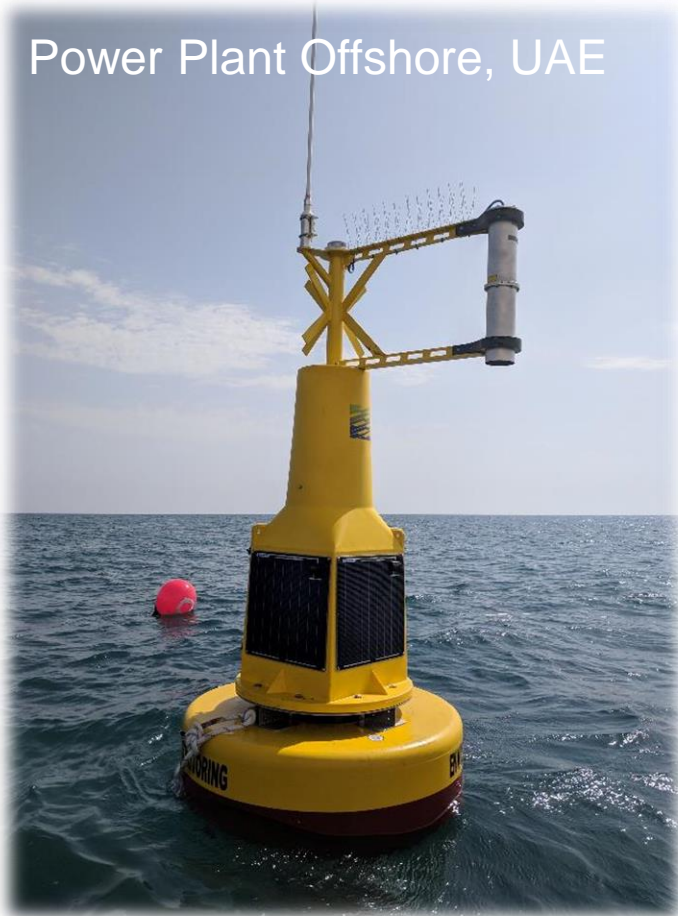


Beverage Plant, Spain

ROW: Off-Grid Installations



Power Plant Offshore, UAE

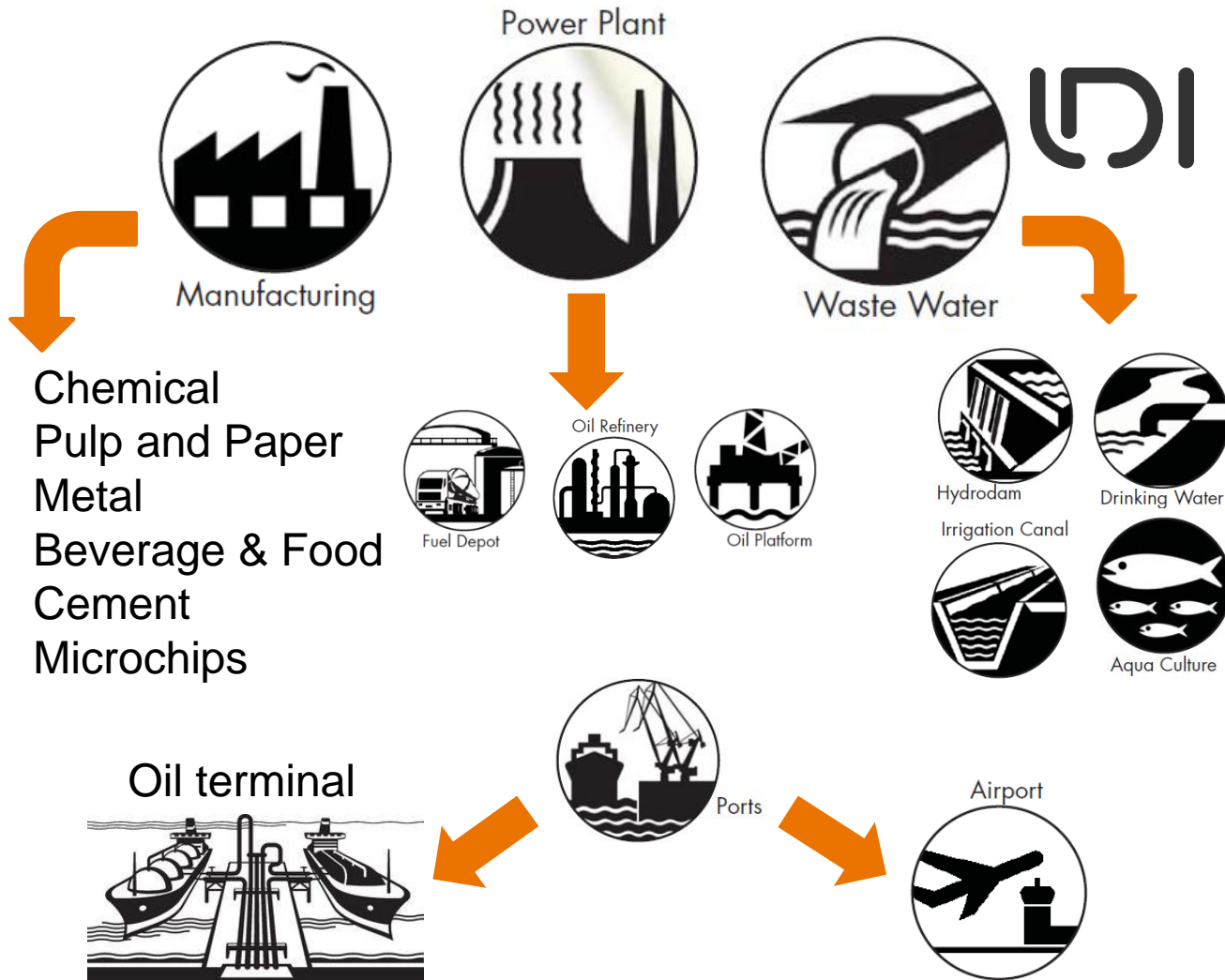


Municipality, Canary Islands



Municipality, South Korea







ColiMinder®
rapid microbiology by **VWM**
SOLUTIONS

**Fully Automated Online Measurement
of Bacterial Contamination in Water
PROVIDING MICROBIOLOGICAL CONTAMINATION
as a
PROCESS PARAMETER**

Isabel Neduchal
Head of Sales & Marketing
VWMS GmbH



THREE DIMENSIONS TO WATER QUALITY

Three Dimensions to Water Quality

1

Physical Dimension



3

Microbiological Dimension



2

Chemical Dimension



Real-time and in-situ sensors for physical and **chemical** parameter are available

3

Microbiological Dimension

→ no sensors available

→ currently evaluated manually

→ result taking 1-3 days



Not sustainable



Not safe



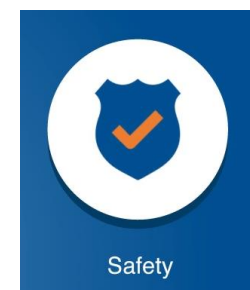
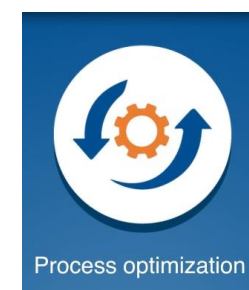
Not efficient

THREE DIMENSIONS TO WATER QUALITY



The ColiMinder is providing real-time and in-situ measurements for the **microbiological** dimension

3 Introducing the ColiMinder means adding the 3rd dimension to process control



ColiMinder[®]
 rapid microbiology by **VWM SOLUTIONS**

Fully Automatic Online Measurements of Bacterial Contamination of Water.

- ✓ **Early Warning**
- ✓ **Process Feedback**
- ✓ **Process Control**

SUITABLE FOR ALL

 DRINKING WATER	 BOTTLED WATER	 SURFACE & BATHING
 MEMBRANE INTEGRITY	 PROCESS WATER	 WASTEWATER



COLIMINDER KEY FEATURES

- ✓ **Fully Automatic** sampling, measurement, cleaning, calibration
- ✓ **Fast:** 15 minutes from sampling to result
- ✓ **Online** data visualization, remote control, automatic notifications

TARGET ORGANISMS

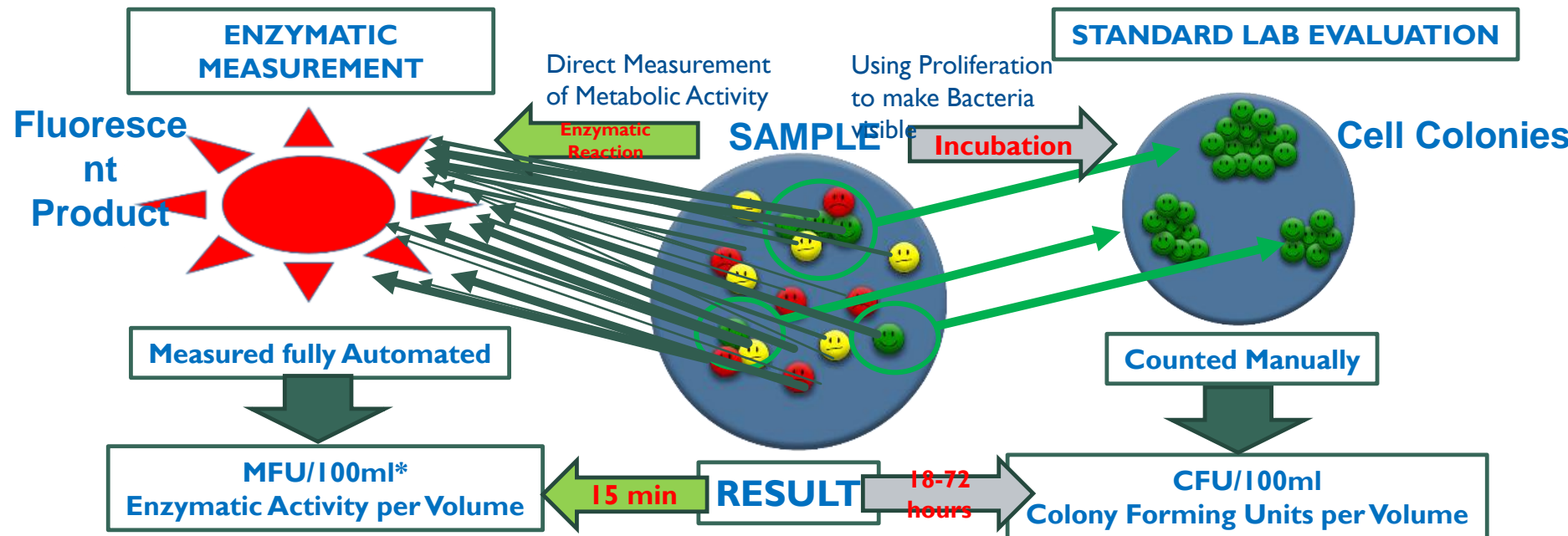
 E. COLI	 ENTEROCOCCUS	 TOTAL ACTIVITY
 E. COLI SALINE	 ENTEROCOCCUS SALINE	 TOTAL ACTIVITY MINERAL WATER

Specific indicator of faecal contamination

Standard indicator

Bulk parameter of total microbiological activity

How does it work?



*Modified Fishman Units (*E. coli* –specific enzymatic activity)





Aaxis Nano Technologies Pvt. Ltd.

“Our organisation progress in the field of Industrial Process Instrumentation, Environment Management, Automation, Hydrology, Geology & Software”

REAL-TIME CONTINUOUS WATER QUALITY MONITORING STATIONS

River Ganga Real Time Water Quality Monitoring

Central Pollution Control Board, New Delhi



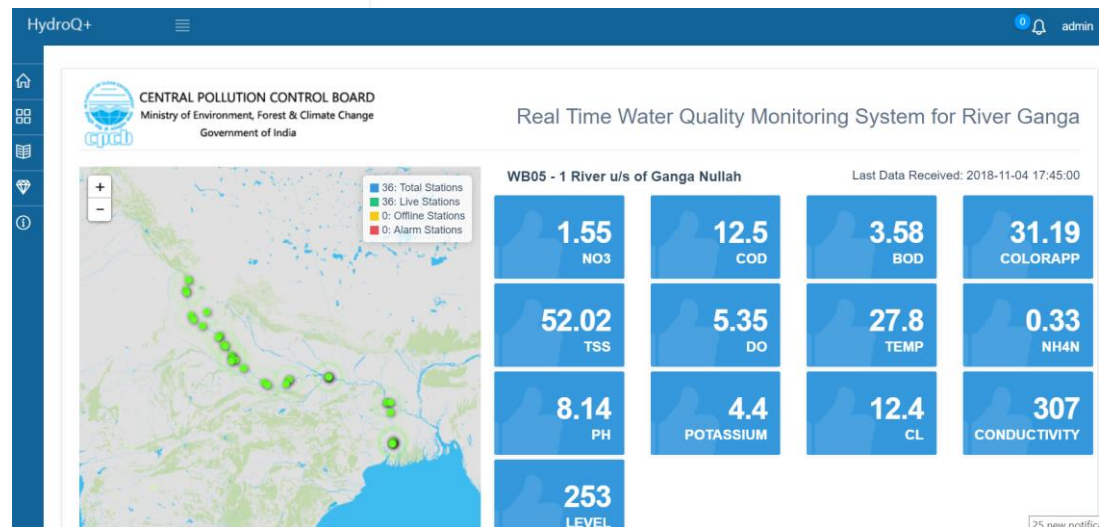
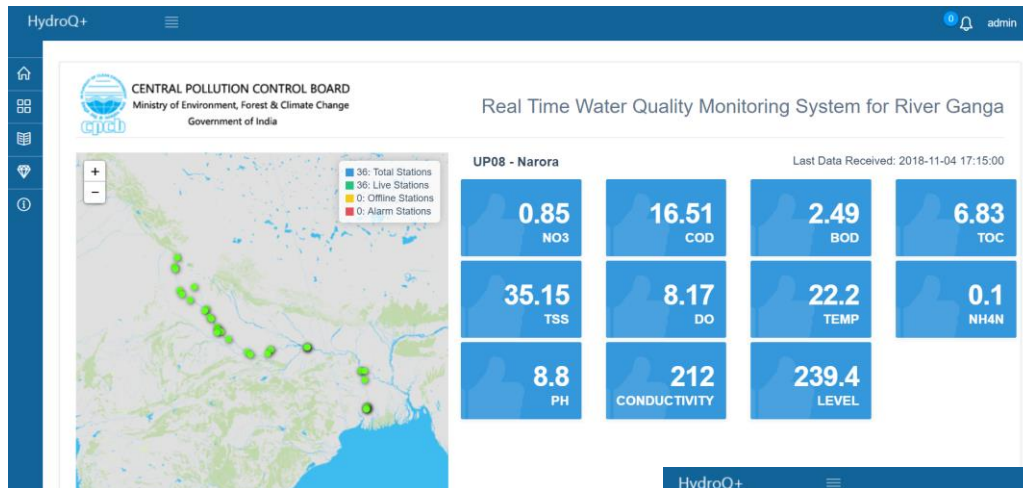
HydroQ+

Login

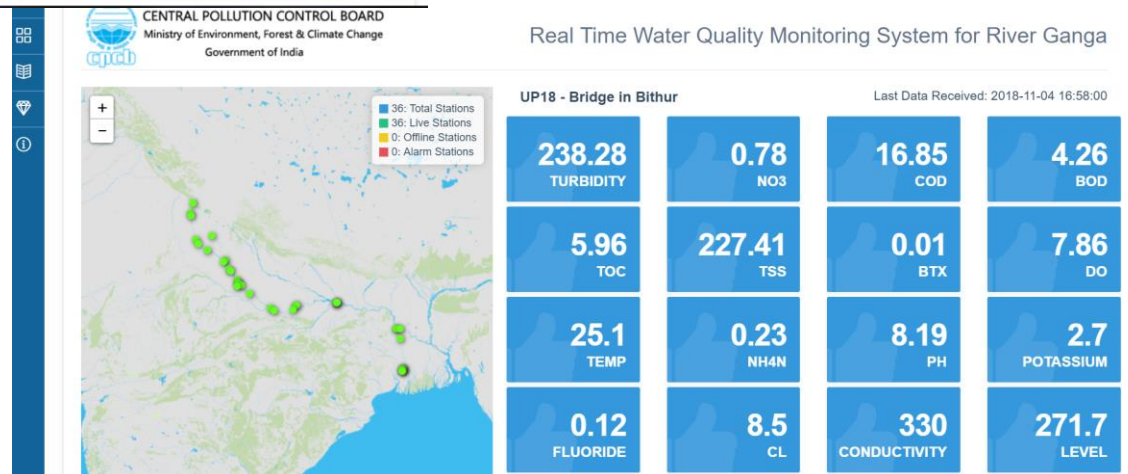
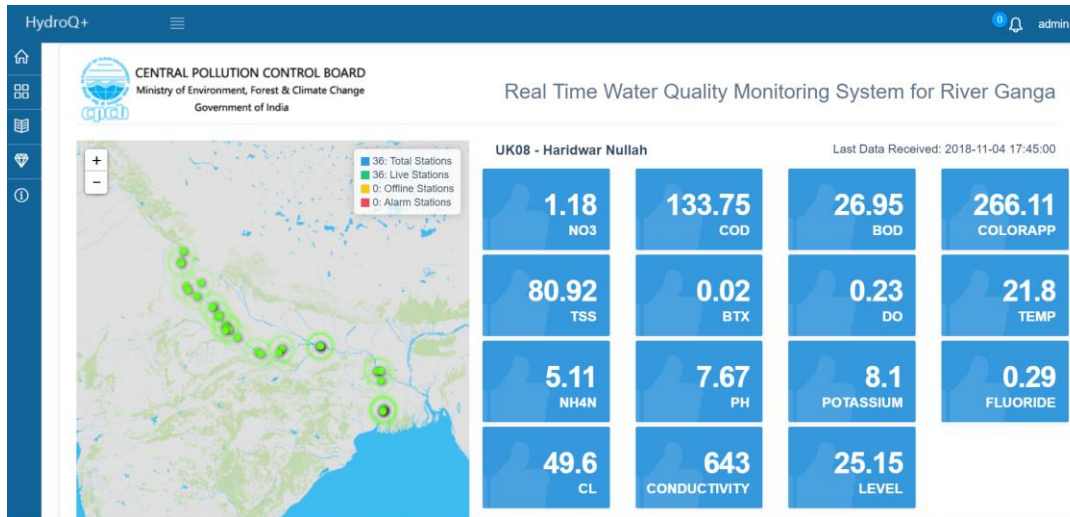
admin

SIGN IN

REAL-TIME CONTINUOUS WATER QUALITY MONITORING STATIONS



REAL-TIME CONTINUOUS WATER QUALITY MONITORING STATIONS



REAL-TIME CONTINUOUS WATER QUALITY MONITORING STATIONS

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STATION LIST

50 records Search:

Station	Category	Type	State	Last Data		Alarms
BH07 - Nallah at Patna 2	Nallah	Surface Water Quality	Bihar	2018-11-04 17:45:00	■	
BH09 - Rajapul Nallah	Nallah	Surface Water Quality	Bihar	2018-11-04 17:45:00	■	
BH10 - Nallah in Patna 3a	Nallah	Surface Water Quality	Bihar	2018-11-04 17:45:00	■	
BH11 - Nallah in Patna 3b	Nallah	Surface Water Quality	Bihar	2018-11-04 17:45:00	■	
UK08 - Haridwar Nallah	Nallah	Surface Water Quality	Uttarakhand	2018-11-04 17:45:00	■	
UP02 - Madhya Ganga Barrage	River	Surface Water Quality	Uttar Pradesh	2018-11-04 17:45:00	■	
UP03 - Sukartal Ghat	Tributary	Surface Water Quality	Uttar Pradesh	2018-11-04 17:45:00	■	
UP06 - Bridge at Anupshahar CROSS SECTION	River	Surface Water Quality	Uttar Pradesh	2018-11-04 14:25:00	■	
UP08 - Narora	River	Surface Water Quality	Uttar Pradesh	2018-11-04 17:45:00	■	
UP09 - Kachia Ghat Bridge Badaun	River	Surface Water Quality				

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UP09 - Kachia Ghat Bridge Badaun	River	Surface Water Quality	Uttar Pradesh	2018-11-04 17:15:00	■	
UP10 - Ramganga d/s of Moradabad	Tributary	Surface Water Quality	Uttar Pradesh	2018-11-04 15:45:00	■	
UP13 - Bridge on Kali River at Kanpur-Farakhabad Road	Tributary	Surface Water Quality	Uttar Pradesh	2018-11-04 17:45:00	■	
UP14 - Bridge at Ghatia Gate Farukabad	River	Surface Water Quality	Uttar Pradesh	2018-10-29 23:30:00	■	
UP16 - Bridge SH21 d/s Kannauj	River	Surface Water Quality	Uttar Pradesh	2018-11-04 17:45:00	■	
UP17 - Bridge SH40 d/s Kannauj	Tributary	Surface Water Quality	Uttar Pradesh	2018-11-04 17:45:00	■	
UP18 - Bridge in Bithur	River	Surface Water Quality	Uttar Pradesh	2018-11-04 16:58:00	■	
UP19 - Barrage u/s Kanpur	River	Surface Water Quality	Uttar Pradesh	2018-11-04 17:30:00	■	
UP24 - u/s Bathing Ghat Kanpur CROSS STATION	River	Surface Water Quality	Uttar Pradesh	2018-11-04 14:12:00	■	
UP26 - Bridge at Kanpur 1	River	Surface Water Quality	Uttar Pradesh	2018-11-04 17:30:00	■	
UP29 - Bridge 2 at Kanpur NH25	Tributary	Surface Water Quality	Uttar Pradesh	2018-11-04 17:45:00	■	
UP32 - Bridge near Fatehpur	River	Surface Water Quality	Uttar Pradesh	2018-11-04 17:45:00	■	
UP40 - Bridge d/s of tributary near Sirsa	River	Surface Water Quality	Uttar Pradesh	2018-11-04 17:45:00	■	
UP46 - Nallah at Allahabad 4	Nallah	Surface Water Quality	Uttar Pradesh	2018-11-04 17:45:00	■	
UP54 - Varanasi at Bathing Ghat 1	Tributary	Surface Water Quality	Uttar Pradesh	2018-11-04 17:45:00	■	
UP55 - Bridge on Tributary in Varanasi	Tributary	Surface Water Quality	Uttar Pradesh	2018-11-04 17:45:00	■	

REAL-TIME CONTINUOUS WATER QUALITY MONITORING STATIONS

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- Home
- Stations
- Reports
- Administration
- License Information

LIVE OFFLINE REPORT

2018-11-03 18:07 - 2018-11-04 18:07- [VIEW](#)

Note
The below table provides the total number of data points collected per hour for Fixed as well as Cross Section Stations As fixed stations are measured every 15 minutes, it will normally show 4 records per hour.

50 records Search: live

Station Name	Status	00	01	02	03	04	05	06	07	08	09	10
UP08 - Narora	Live	4	4	4	4	4	4	4	4	4	4	4
UP19 - Barrage u/s Kanpur	Live	4	4	4	4	4	4	4	4	4	4	4
UK08 - Haridwar Nullah	Live	4	4	4	4	4	4	4	4	4	4	4
UP06 - Bridge at Anupshahar CROSS SECTION	Live										36	58
UP09 - Kachia Ghat Bridge Badaun	Live	4	4	4	4	4	4	4	4	4	4	4
UP16 - Bridge SH21 d/s Kannauj	Live	4	4	4	4	4	4	4	4	4	4	4
UP24 - u/s Bathing Ghat Kanpur CROSS STATION	Live										1	58
UP56 - Tributary at Rajwari	Live	4	4									
WB21 - Ghat d/s of Srirampore	Live	4	4									

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STATION PLAUSIBILITY REPORT

2018-11-03 00:00 - 2018-11-03 23:59- [VIEW](#)

Showing data for 2018-11-03 00:00 to 2018-11-03 23:59 [PREVIOUS DAY](#) [NEXT DAY](#)

[VIEW PARAMETER THRESHOLDS](#) MONTH YEAR DOWNLOAD

Fixed Stations Cross Section Stations

10 records Search:

Station	Date Time	Turbidity	NO3	COD	BOD	TOC	Color	TSS	BTX	DO	Temp	NH4N	pl
BH07	2018-11-03 00:00:00	NA	3.03	84.96	13.53	NA	315.81	103.6	NA	0.27	27.3	1.17	6.5
BH07	2018-11-03 01:00:00	NA	2.96	85.03	13.48	NA	320.85	104.87	NA	0.27	27.2	1.17	6.2
BH07	2018-11-03 02:00:00	NA	3.19	84.96	13.57	NA	315.45	103.53	NA	0.27	26.9	1.19	6.6
BH07	2018-11-03 03:00:00	NA	3.29	84.97	13.58	NA	315.21	103.5	NA	0.27	26.8	1.21	6.6
BH07	2018-11-03 04:00:00	NA	3.15	84.96	13.56	NA	315.42	103.59	NA	0.27	26.7	1.2	6.4
BH07	2018-11-03 05:00:00	NA	3.02	84.92	13.52	NA	314.96	103.56	NA	0.27	26.5	1.17	6.4

REAL-TIME CONTINUOUS WATER QUALITY MONITORING STATIONS

The image displays two overlapping screenshots of the HydroQ+ web application. The top screenshot shows the 'Defined Parameter Thresholds' dialog box, which lists various water quality parameters and their corresponding lower and upper limits. The bottom screenshot shows the main dashboard for the 'UK08 - HARIDWAR NULLAH' station, with a dropdown menu open to select a specific measurement point.

Defined Parameter Thresholds

Parameter	Lower Limit	Upper Limit
BODeq	0.2	500
BTXest	0	0.2
cl	2	2500
CODeq	1	800
COLORapp	0.5	500
conductivity	100	2000
Dissolved Oxygen	0	20
fluoride	0	0.5
Level	100	1000
NH4-N	0	200

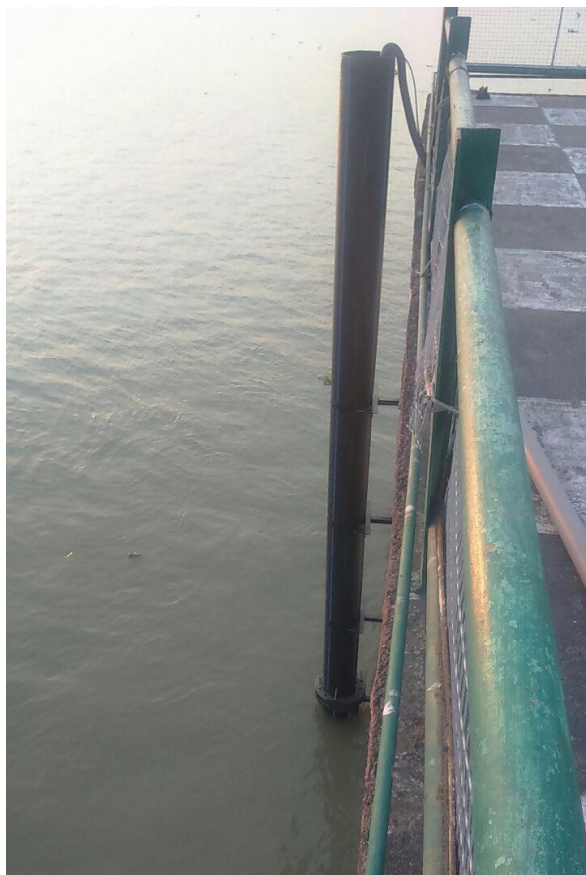
Dashboard Data (UK08 - HARIDWAR NULLAH)

Temp	NH4N	pH
22.1	0.63	7.7
22.2	0.63	7.7
22.1	0.63	7.7
22.2	0.63	7.7
22.1	0.63	7.7
22.1	0.63	7.7
22.1	0.64	7.7
22.1	0.64	7.7

Station Selection List:

- UP08 - Narora
- UP19 - Barrage u/s Kanpur
- UP02 - Madhya Ganga Barrage
- UP54 - Varanasi at Bathing Ghat 1
- UP26 - Bridge at Kanpur 1
- UP03 - Sukartal Ghat
- UK08 - Haridwar Nullah ✓
- UP06 - Bridge at Anupshahar CROSS SECTION
- UP09 - Kachla Ghat Bridge Badaun

REAL-TIME CONTINUOUS WATER QUALITY MONITORING STATIONS



REAL-TIME CONTINUOUS WATER QUALITY MONITORING STATIONS



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REAL-TIME CONTINUOUS WATER QUALITY MONITORING STATIONS





REAL-TIME CONTINUOUS WATER QUALITY MONITORING STATIONS



OUR Quality Policy

We an ISO 9001.2015 certified Organization are a specialized service provider to cater the requirements of various Industries like Paper, Cement, Steel, Oil & Gas, Fertilizers ,chemicals Textiles, Tannery, Slaughter houses, Petro chemicals, Water and sewage treatment plants, Ground water and River monitoring through Pollution Control Board and various other Govt. agencies.

We have adopted process of continual improvement with customer focusing approach. We have our offices in all major cities of India to have reach and connection with our customer and market. A state of art world class manufacturing site at NOIDA is supported by excellent networking and trained Professionals to meet global standards. Our team is specialized in execution of small as well as big projects on turnkey basis.

To be the market leader in field of Environment monitoring system through



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Established in 2006, we thrived to extend services towards the ***utility, environment, electrical and engineering fields with SCADA, process control and systems integration services.*** Our integrated SCADA & Data Acquisition Software was formed from a market demand for a trusted, reliable and sustainable service provider with a modern innovative approach. Boasting a combined 12 years plus experience in the provision of software, DAS, engineering and process control services across a broad and diverse client base, integrated SCADA aims to be your preferred SCADA and automation solutions provider.

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The core competencies offered by integrated SCADA include:

- RTU and PLC SCADA systems
- HMI engineered control solutions
- Power System Protection Schemes
- Industrial Network
- Protocol Integration
- IEC61850 application to SCADA and Protection Schemes
- Time Synchronisation
- Remote Access and Engineering
- Industrial Process Control and Automation
- Remote Telemetry and Data Acquisition Software
- Project and Technical Management

Thank you for your attention



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