Advitam

EverSense®
Structural Health Monitoring & Control Systems
EverSense® systems are used by infrastructure managers, consultants and contractors for monitoring one or several assets. EverSense® systems integrate any type of measurement and perform data processing to provide relevant health indicators and dashboards for stakeholders.

Our systems have been deployed worldwide for specific engagements, as well as short and long term monitoring of structures such as bridges, civil infrastructures, offshore platforms, wind farms and nuclear power plants. We have experience with deployment in harsh environments and can propose very durable systems designed to resist sea water and high winds, and also meet oil & gas environmental requirements.

An EverSense® system can scale from a standalone sensor to the integration of hundreds of sensors. They can be operated locally or communicate remotely in real time.

Thanks to a versatile architecture and web portal, remote access and management of the system is possible for any user.

Some references

* Cable stayed bridges: Russky Island Bridge • Rion Antirion Bridge • Millau Viaduct • Bay Chai bridge • Normandy Bridge
* Suspension bridges: Bosphorus Bridge • Fatih Sultan Mehmet Bridge • Lysefjord Bridge • Forth Road Bridge • Second Severn Crossing • Tancarville Bridge
* Other bridges: Chek Lap Kok Link • Hammersmith Flyover • Frontera Bridge • Marbache Bridge • Grande Ravine Viaduct
* Nuclear, Oil & gas: Dong Siri Platform • Sellafield Building • Chinon Cooling tower • Maeva Mockup • NKP Barge
* Other structures: La Villita & Malpasso Dams • Wind Turbines • Vancouver Stadium • Parc des Princes Stadium
OUR MEANS

A MULTIDISCIPLINARY TEAM

Our team includes civil, sensor, electronic & software specialists. This wide range of skills allows us to quickly understand our clients’ needs and propose a suitable solution with friendly user interface customized to each situation.

SENSORS THAT FIT YOUR NEEDS

Advitam can propose a full range of sensors adapted to all needs (environmental measurement, structural, hydraulic, water quality, ...), with a special emphasis on:
- Post-tensioned and cable structures
- Scour critical structures
- Fatigue critical structures

As needed, we use and integrate different sensor technologies: video, electric, electromagnetic, optical, vibrating wire, acoustic, ultrasound, radar and laser.

ROBUST, SCALABLE AND EASY TO DEPLOY ACQUISITION SYSTEMS

Advitam can propose a range of wireless, battery powered digitizers (with complementary solar panels if needed). These digitizers can communicate remotely by radio or GSM. They are a quick and cost effective solution for on site deployment.

Advitam can also propose traditional wired acquisition systems that can accommodate hundreds of different sensor types, and ensure uptime greater than 99% over very long time periods.
OUR MEANS
ROBUST, SCALABLE AND EASY TO DEPLOY

ACQUISITION SYSTEMS

Advitam can propose a range of wireless, battery powered digitizers (with complementary solar panels if needed). These digitizers can communicate remotely by radio or GSM. They are a quick and cost effective solution for on site deployment.

Advitam can also propose traditional wired acquisition systems that can accommodate hundreds of different sensor types, and ensure uptime greater than 99% over very long time periods.

A MULTIDISCIPLINARY TEAM

Our team includes civil, sensor, electronic & software specialists. This wide range of skills allows us to quickly understand our clients' needs and propose a suitable solution with friendly user interface customized to each situation.

SENSORS THAT FIT YOUR NEEDS

Advitam can propose a full range of sensors adapted to all needs (environmental measurement, structural, hydraulic, water quality, …), with a special emphasis on:

- Post-tensioned and cable structures
- Scour critical structures
- Fatigue critical structures

As needed, we use and integrate different sensor technologies: video, electric, electromagnetic, optical, vibrating wire, acoustic, ultrasound, radar and laser.

OUR SERVICES

DEPLOYMENT

Supply of equipment and software with associated documentation

Turnkey installation and commissioning, or on-site technical assistance with technology transfer. Our team members are able to work in harsh environments, such as working at a height, confined space, industrial or nuclear environment, …

Data and indicators generated by the EverSense® systems can be transferred automatically or manually to a main server, where it becomes available to authorized stakeholders through a secured web portal. The web portal is also used to manage alerts and remotely configure systems.

This EverSense® View web portal is a module of our ScanPrint® Infrastructure Management Software. Other modules can be added to manage, in a all-in-one system, all the assets and their current conditions. Maintenance and repair activities can then be scheduled, tracked and better managed.

SERVICES DURING OPERATION

- Guarantee extensions and yearly maintenance contracts
- Remote system checks
- Data reporting and preparation for engineering firms
- Analysis of acoustic or ultrasonic measurements

TRAINING

- Training in basic design and specifications of monitoring systems
- Training in daily use and maintenance of a monitoring system
- Training in data management and infrastructure management

EQUIPMENT RENTAL

- Sensors: crack meters, tilt meters, temperature …
- Wireless, battery powered digitizers
- Mobile data acquisition units
OUR MEANS

ROBUST, SCALABLE AND EASY TO DEPLOY

ACQUISITION SYSTEMS

Advitam can propose a range of wireless, battery powered digitizers (with complementary solar panels if needed). These digitizers can communicate remotely by radio or GSM. They are a quick and cost effective solution for on site deployment.

Advitam can also propose traditional wired acquisition systems that can accommodate hundreds of different sensor types, and ensure uptime greater than 99% over very long time periods.

A MULTIDISCIPLINARY TEAM

Our team includes civil, sensor, electronic & software specialists. This wide range of skills allows us to quickly understand our clients' needs and propose a suitable solution with friendly user interface customized to each situation.

SENSORS THAT FIT YOUR NEEDS

Advitam can propose a full range of sensors adapted to all needs (environmental measurement, structural, hydraulic, water quality, …), with a special emphasis on:

- Post-tensioned and cable structures
- Scour critical structures
- Fatigue critical structures

As needed, we use and integrate different sensor technologies : video, electric, electromagnetic, optical, vibrating wire, acoustic, ultrasound, radar and laser.

OUR SERVICES

DEPLOYMENT

- Supply of equipment and software with associated documentation
- Turnkey installation and commissioning, or on-site technical assistance with technology transfer. Our team members are able to work in harsh environments, such as working at a height, confined space, industrial or nuclear environment, ...

SERVICES DURING OPERATION

- Guarantee extensions and yearly maintenance contracts
- Remote system checks
- Data reporting and preparation for engineering firms
- Analysis of acoustic or ultrasonic measurements

EQUIPMENT RENTAL

- Sensors: crack meters, tilt meters, temperature ...
- Wireless, battery powered digitizers
- Mobile data acquisition units

EVERSENSE VIEW

Data and indicators generated by the EverSense® systems can be transferred automatically or manually to a main server, where it becomes available to authorized stakeholders through a secured web portal. The web portal is also used to manage alerts and remotely configure systems.

This EverSense® View web portal is a module of our ScanPrint® Infrastructure Management Software. Other modules can be added to manage, in a all-in-one system, all the assets and their current conditions. Maintenance and repair activities can be then scheduled, tracked and better managed.
Advitam is a recognized world leader in the monitoring of cables and post-tensioned structures:
- Monitoring of visible and non-visible cracks
- Monitoring of wire breaks in cables
- Measurement of tension in cables and bars
- Research of white paste and soft grout
- Damping measurements
- Fatigue monitoring

We propose turnkey systems worldwide as well as their linked annual guarantee and maintenance contracts. From day one, a main focus has been the durability of our systems. Over the years we developed the tools and know-how to answer these challenges.

Based on years of experience, our team can propose customized solutions that fit your needs and specific scenarios. Recent solutions include:
- Early Scour monitoring
- Monitoring of overhead sign structure failure
- Stay cable fatigue monitoring
- Corrosion monitoring in reinforced concrete structures
- Crack monitoring

Advitam is ISO 9001 certified, and applies this commitment to our design, manufacturing, software development, installation and maintenance processes. This allows our team to work on nuclear, oil and gas work sites.

Safety is a top priority for Advitam; our OHSAS 18001 certification reinforces this commitment.

We have equipment to test our sensors, digitizers and acquisition units before shipment (temperature, vibration, humidity, lightning protection...) to ensure the durability of our systems.
Crack monitoring
Corrosion monitoring in reinforced concrete structures
Stay cable fatigue monitoring
Monitoring of overhead sign structure failure
Early Scour monitoring

scenarios. Recent solutions include:

Based on years of experience, our team can propose customized solutions that fit your needs and specific

Fatigue monitoring
Research of white paste and soft grout
Monitoring of wire breaks in cables
Monitoring of visible and non-visible cracks

Advitam is a recognized world leader in the monitoring of cables and post-tensioned structures:

OF AGEING PHENOMENON
A VERY GOOD UNDERSTANDING
FOR MONITORING OF CABLES AND POST-TENSIONED STRUCTURES
A UNIQUE EXPERTISE

(temperature, vibration, humidity, lightning protection…) to ensure the durability of our systems.

commitment.

Safety is a top priority for Advitam; our OHSAS 18001 certification reinforces this

work on nuclear, oil and gas work sites.

software development, installation and maintenance processes. This allows our team to

maintenance contracts. From day one, a main focus has been the durability

of our systems.

We propose turnkey systems worldwide as well as their linked annual guarantee and

ON QUALITY
A PERMANENT FOCUS
TECHNOLOGIES

ROBUST & PROVEN
MAIN FEATURES

Advitam specializes in the design and

deployment of hardware and software

tools for management and monitoring

their assets.

for stakeholders.

EverSense® systems integrate any type of measurement and perform

and high winds, and also meet oil & gas environmental requirements.

plants. We have experience with deployment in harsh environments

as well as short and long term monitoring of structures such as bridges,

Our systems have been deployed worldwide for specific engagements,

data processing to provide relevant health indicators and dashboards

and contractors for monitoring one or several assets.

EverSense® systems are used by infrastructure managers, consultants

USERS

CONSULTANTS
CONTRACTORS
PUBLIC AGENCIES
PRIVATE OWNERS
CONCESSIONNAIRES
...