HOMIS
– Holistic Management
Information System

HOMIS is a digital tool developed to monitor your company's key performance indicators

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HOMIS provides overview

Online integration to utility IT systems

Continuous reporting to operational, planning and management staff

An ideal tool for utilities but applicable to other business types

HOMIS ensures company level consistency between strategy, investment, operation and optimisation by collecting relevant data in one system and automatically calculate and report required performance indicators.

HOMIS, short for Holistic Management Information System, is a software product developed by NIRAS. HOMIS may be configured as a Management Information System for any utility company and is currently being used as a performance management tool in multiple countries. HOMIS is based on Balanced Scorecard – a standard for strategic performance management, which is further combined with management hierarchy and utility topology. The result is a holistic overview of the company's performance that may be customised to the needs of each department, team or even individual staff members, providing detailed insight across geographical operational areas.
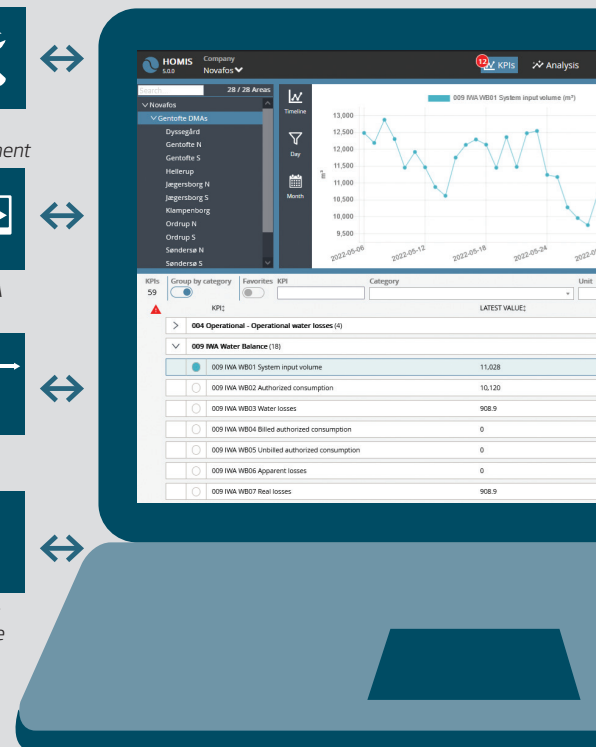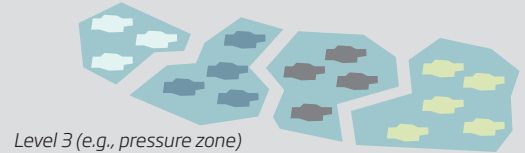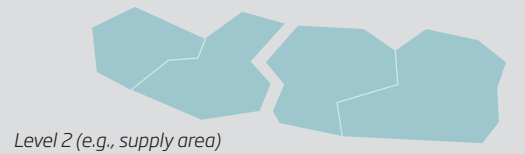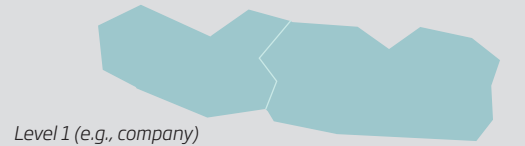
HOMIS collects information
HOMIS is built on a unique and open structure facilitating seamless integration to relevant databases, which contain the necessary information required to build an overview of the current performance level. This enables data collection from different systems such as operations, assets, finance, topology, investment and customer data. HOMIS combines data and automatically calculates performance indicators across multiple data sources.

1 Automatic data collection

Economy

GIS

Asset Management

CIS

Hydraulic Model

SCADA

Noise Logger

Valve

Pump

MIS

Smart Meter

Water Sample

2 Data processing: Aggregation over time and areas

Level 1 (e.g., company)

Level 2 (e.g., supply area)

Level 3 (e.g., pressure zone)
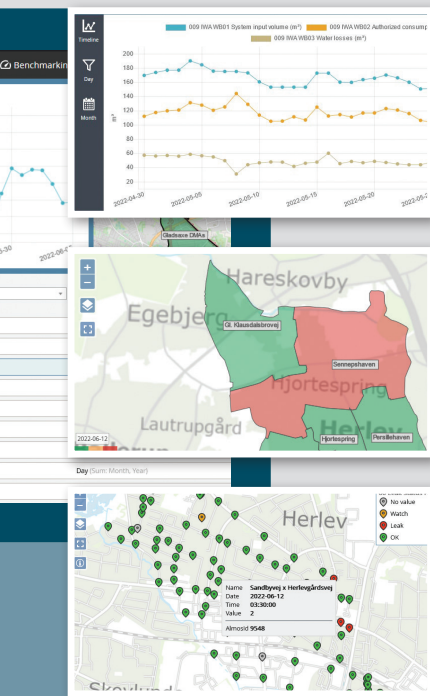
Level 4 (e.g., district metered area)

Automatic aggregation of performance indicators

"The interaction between data from remotely-read smart meters, SCADA, noise loggers and other components in HOMIS enables us to direct our leakage detection activities to the most relevant areas and prioritise our resources"

- Kristiane Østergaard Jensen
HOFOR Greater Copenhagen Utility

3 Visualisation, analysis and reporting

HOMIS analyses correlations between performance indicators and offers benchmarking at all organisational levels. The sectorised overview directly assists e.g. the utility management providing an overview ensuring alignment of strategic goals, investments, operation and optimisation initiatives.

The system supports continuous improvements of operations by means of strategic and operational goals. HOMIS thereby ensures improvement measures are based on objective decisions derived from performance indicators.

Functionalities:
- Web-application supporting Edge, Chrome, FireFox, Opera
- Implementation as cloud or on-premise solution
- Visualisation of performance indicators with geographic reference
- Automatic import of raw data and calculation of performance indicators
- Benchmarking across geographical areas
- Analysis of performance indicators both historically and across areas
- Automatic aggregation of performance indicators over geographic areas

- Built-in event and alarm management
- Unlimited users with role management
- Unlimited performance indicators
- Unlimited data sources
- Table and graph functions
- Intuitive user interface
- Result reporting and data export

Examples:
- Automated leakage monitoring based on SCADA and smart meter data
- Monitoring of water quality parameters and compliance
- Automated calculation of GIS-related performance indicators (e.g. pipe material, age, length, etc.)
- Monitoring and visualising work orders, burst statistics, customer complaints, etc.
- Integrating results from hydraulic models.

About NIRAS

NIRAS is a consulting company covering all engineering disciplines under one roof. We are one of the leading technical engineering companies in the field of digital solutions. We keep close to our clients, stay flexible and deliver innovative software solutions and data consultancy of high quality.

We work with software development, data science, machine learning, data visualisation, GIS, IoT and automation. As a client, you will meet a versatile partner highly capable of supporting the identification of your company's needs and providing solutions to any of your digital challenges.

Experience, quality, and service

Our professional approach is vital for us. At NIRAS, you will meet competent employees with many years of experience in both technical engineering and providing digital services.
We have both in-house software developers, data experts and UX-designers as well as domain experts in all engineering disciplines.

This is your guarantee that we provide an extremely professional and high level of consultancy in all phases of a project. We stand by your side and offer support and service agreements for any needs you may have both before, during, and after delivery.

Want to know more?

If you are interested in more information about our solutions, you are more than welcome to contact us.

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