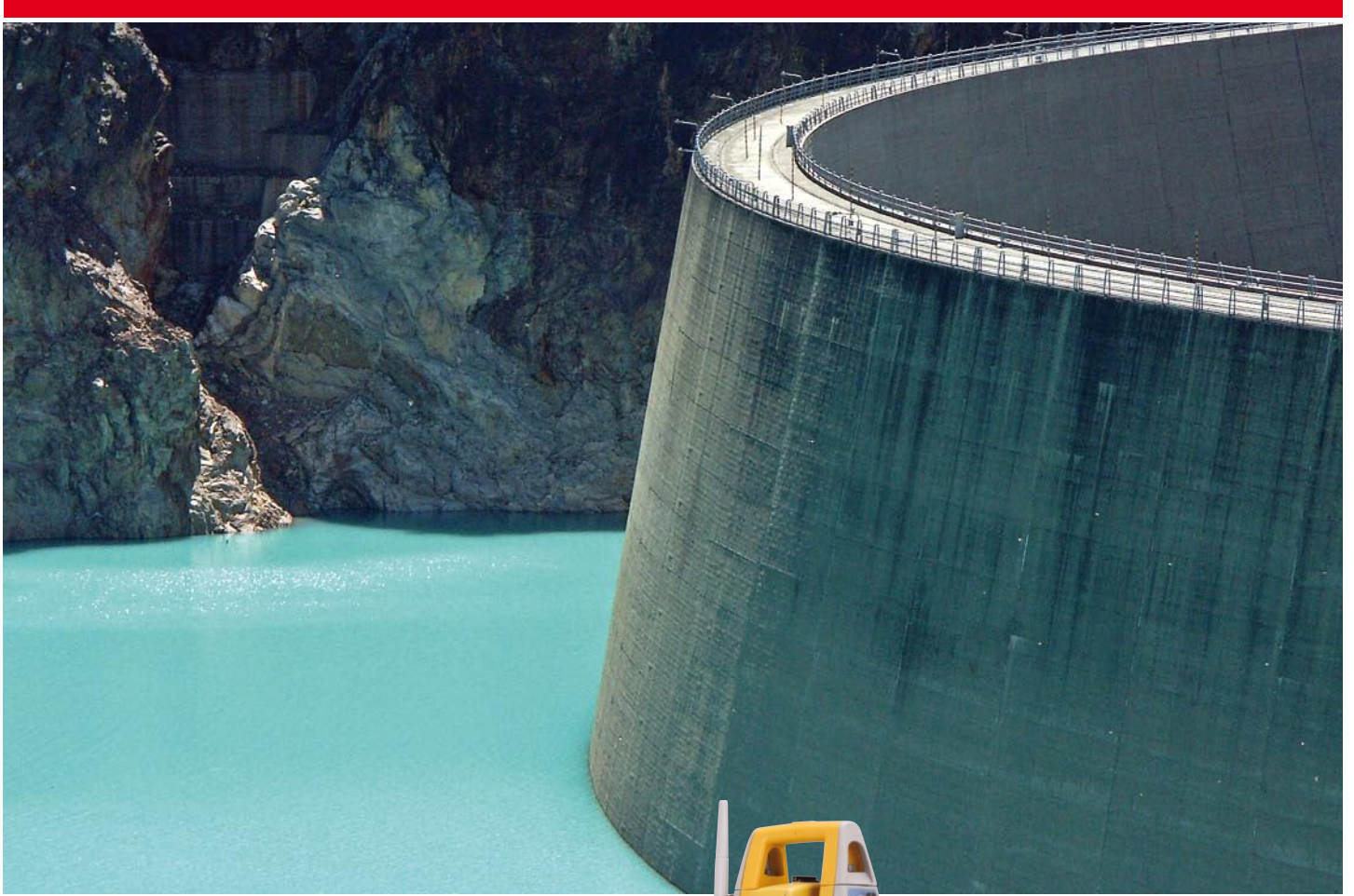


## MEASURING - ANALYSING - ALARMING



### The multi sensor system for deformation monitoring

- Automated deformation analysis
- Multi step alarming
- Web based data presentation
- Total Station, GPS, Tilt and Geo-sensors

## It's time.

In a highly technological world with increasingly difficult tasks for the world of engineering the associated risks for man and infrastructure also increase. Minute structural movement during or after construction or of terrain can have catastrophic consequences.

Conventional monitoring methods are cost intensive and only deliver snap-shots in time. In order to continually assess and control the movement of complex objects in their entirety, new innovative monitoring systems like DC3 are required. This way dangers can be recognized early and the population and infrastructure protected in a sustained way.

### SYSTEM

DC3 is an effective and versatile, scalable multi sensor system for the automated monitoring of construction, buildings, geo- and hydro-technical facilities as well as terrain.

By adaptation to the specific requirements and needs of the different applications DC3 has made it possible to automate almost all of the measuring tasks relevant to a monitoring subject in a cost effective way.

Typical applications:

- Infrastructure
- Tunnel construction
- Road or Track monitoring
- Slipping Hillsides/risk of Landslides/  
Unstable slopes
- Terrain / Land
- Construction site

## DC3 pro-versions



### DC3 dam – Monitoring Water Infrastructure

Water is the elixir of life itself and its use for energy generation or as a method of transport as old as humanity itself. Measurement methods which have been tried and tested for generations are being used in the monitoring of dams. **DC3 dam** combines these, mostly manual methods, seamlessly with modern, fully automated techniques and allows the continuation and expansion of the monitoring activity without interruption.



### DC3 tunnel – Monitoring under ground

Mining with its adverse environmental conditions and its limitations in infrastructure presents its own, very high demands on a deformation monitoring system. **DC3 tunnel** offers the opportunity to capture the tunnel geometry as well as rock specific parameters and to analyse them.



### DC3 rail – Monitoring track

During construction in the vicinity of railways, a permanent monitoring of track and track bed is often required. **DC3 rail** offers the ideal solution with flexible and robust strategies for measuring and analysis. Tailored methods of analyses and presentation allow the fast and safe interpretation of analytical results, thereby safeguarding smooth uninterrupted construction and rail use.



### DC3 slope – Monitoring of mass movement

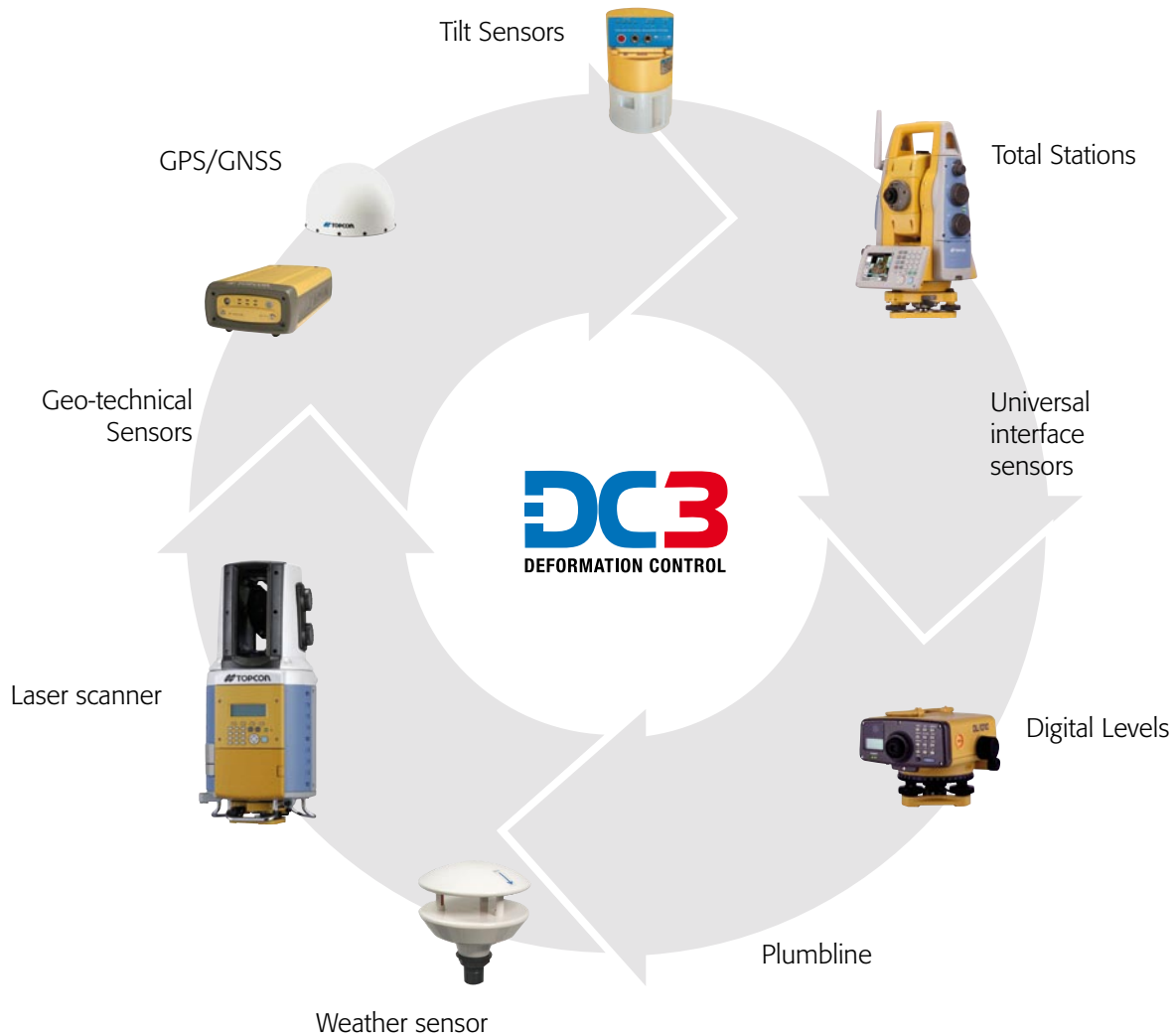
Extreme weather events following global warming are increasingly leading to the destabilisation of stockpiles, steep slopes or rock faces. The scalability of **DC3 slope** facilitates the assessment of the potential danger. Using DC3 also enables the monitoring of acutely dangerous stockpiles and hillsides over long distances safely and cost effectively.



### The multi sensor system for deformation monitoring

- Automated deformation analysis
- Multi step alarming
- Web based data presentation
- Tachymeter, GPS, Geo-sensors

**SUPPORTED SENSOR GROUPS**



■ **Geodata Sensors**

**GPS/GNSS:**

- Topcon NET-G3
- Topcon Legacy
- Topcon GR-3
- Topcon Hiper

**Digital Levels:**

- Topcon DL-101C

**Laser Scanner:**

- Topcon GLS-1000

**Total Stations:**

- Topcon IS
- Topcon GPT-9000
- Topcon GTS-900
- Topcon GPT-7000i
- Topcon GPT-7500
- Topcon GTS-750

■ **Other Sensors**

**Tilt Sensors:**

- Wyler Zeromatic
- Wyler Zerotronic

**Data Communication:**

- Radio
- Cellular radio
- WiFi

**Meteosensors:**

- Topcon Weather Station
- Other Meteosensors

**Plumblines:**

- Electronic Plumblines

**It's time.**

**VERSIONS**

**DC3 pro-Versions**

- DC3 dam
- DC3 tunnel
- DC3 rail
- DC3 slope

Or as DC3 mobile in the versions  
STANDARD, ADVANCED, LEVEL:

**DC3 mobile STANDARD**

On board monitoring system for Topcon  
Total Stations Topcon IS/GPT-9000A/GTS-900A

- Project management
- Freely configurable capture of measured data
- Cyclical calculation of position
- Report generator
- Photo documentation  
(Only with Imaging Station)

**DC3 mobile ADVANCED**

Onboard Monitoring system with analysis  
and alarm function for Topcon Total Stations  
Topcon IS/GPT-9000A/GTS-900A

Functionality as STANDARD-version, plus

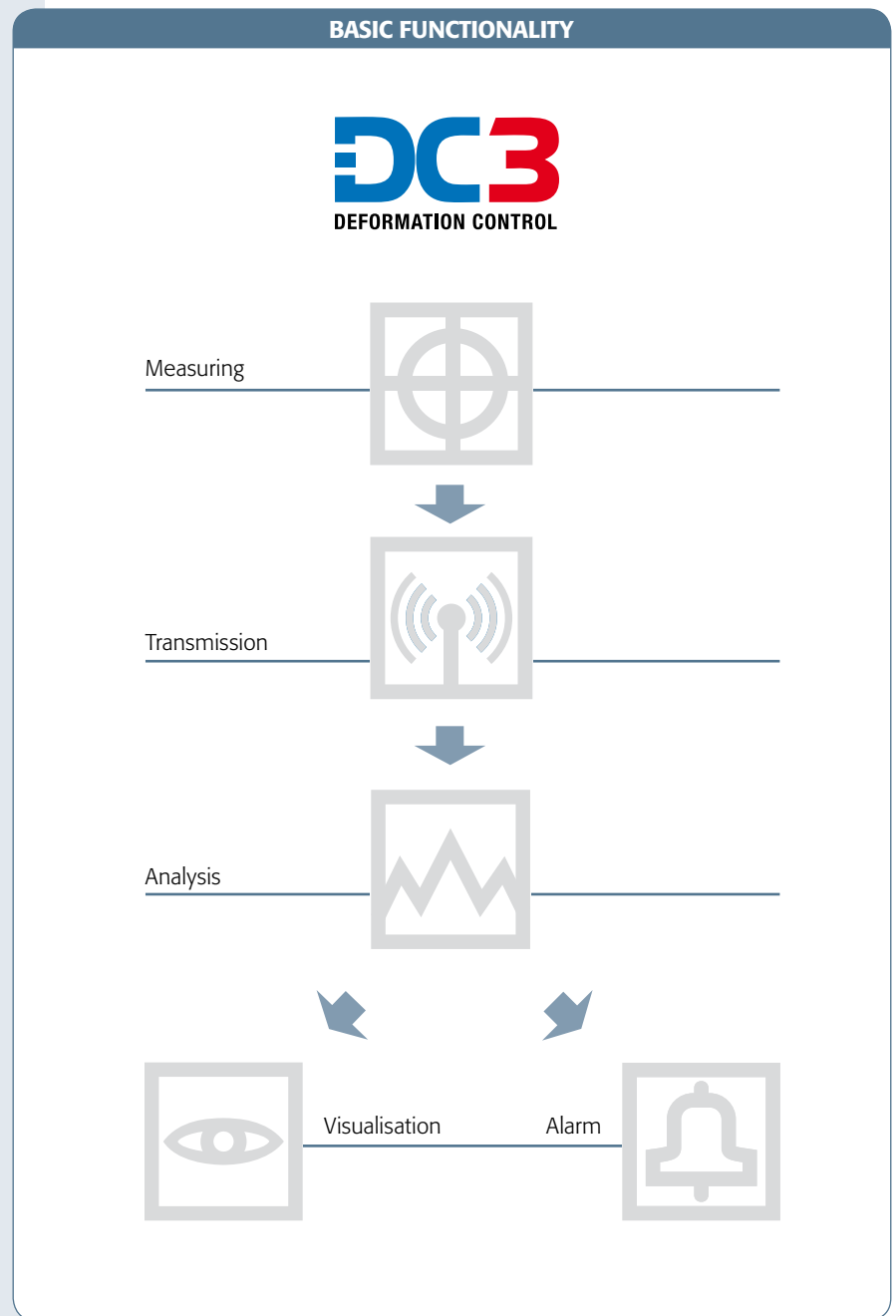
- 3D analysis function
- Alarm function
- Connection of external alarm appliances
- Office module for post processing of the data
- Import- Export function for DC3 pro

**DC3 mobile LEVEL**

Monitoring system for Wyler Tilt sensors with Topcon  
Field controller

- Project management
- Management and Service function for  
Zeromatic/Zerotronic
- Freely configurable capture of measured data
- Report generator

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