At a Glance

Main Office

Mathildenplatz 8
64283 Darmstadt, Germany
Phone: +49 (0)6151 367 367
Fax: +49 (0)6151 367 348

Established

1999

Management and Associates

Dr.-Ing. Hubert Lohr

Dipl.-Ing. Markus Funke

Prof. Dr.-Ing. Ralf Mehler

Subsidiaries

Ständeplatz 15
34117 Kassel, Germany
Phone: +49 (0)561 / 739-675-59

Registered

2008 as
SYDRO Consult GmbH,
Commercial Register No. HRB 86852
at the Local Court Darmstadt

Employees

16 + 5 freelancer

Civil Engineers,
Hydrologists,
Geo-Ecologists
Infrastructure & Environmental Engineers
Information Scientists

Services

Assessments

Hazard and risk analyses

Feasibility studies

Detailed operations plans for water infrastructure

Evaluation and design of monitoring concepts

Monitoring in the field

Software development and implementation

Main Fields of Work

Integrated water resources management (IWRM)

Modelling: hydrology, water allocation, 1D/2D/3D hydraulics, erosion, sedimentation

Risk assessment of dams, reservoir operation including real-time operation

Risk assessment of floods and droughts

Non-structural measures, early warning systems, emergency preparedness plans

River basin and flood-control management

Ecosystem services and ecosystem-based measures

Risk and impact assessment of effects of climate change, mining, land use management

GIS, data management and data modelling

Consulting and capacity building

Country experience

Memberships

BWK	Association of Engineers for Water Management, Waste Management and Agricultural Engineering
DWA	German Association for Water, Wastewater and Waste
VBI	German Association of Consulting Engineers
DTK	National Committee on Large Dams Dr.-Ing. Hubert Lohr
ICOLD	International Committee on Large Dams Dr.-Ing. Hubert Lohr

Equipment

Network 100 MB/s

3 Network servers, 2 Internet server (1 physical, 1 virtual)

MS Exchange server

20 Workstations in the network

Colour ink jet plotter up to A0

Colour photocopier/printer up to A3

Laser printers A4

Software

Project management and quality assurance

Teamwork Project Management Software (sydro.teamwork.com)	Project management and collaboration Client accounts, project specific Project progress and task and issue tracking Notification desk and email push services Document exchange platform

General software

Operating system	Windows 7, 10
Communication platform	MS Exchange Server 2017 MS Outlook 2010, 2013, 2016
Office	MS Word, Excel, Access, Power Point 2010, 2013, 2016
Database	SQL-server, PostgreSQL

Specific software

Talsim-NG	Hybrid hydrological/hydraulic/quality, reservoir operation model, river basin scale, (SYDRO software)
SMUSI	Pollution load model
GISMO	Coupled pollution load/water quantity model river basin scale (SYDRO software)
HEC-RAS 5.0	2D hydraulics, steady/unsteady flow analysis
Hydro-AS_2D	2D hydraulics, steady/unsteady flow analysis
SMS	Surface modelling system
Hydraulic Expert	Hydraulics for structures, developed by SYDRO, distribution by DWA
Open Telemac	2D/3D hydraulics/water quality/sediment
Epanet	Water distribution systems
NASIM	Hydrological model
SWMM	Hydro-dynamic calculation of sewer systems
Clouseau	Sewer inspection software (SYDRO software)
EVOS	Generic optimisation tool with genetic algorithms (SYDRO software)
Neural Network	Optimisation tool with neural networks (SYDRO software)