



# Product information

## FOG

**With FOG you will get a comprehensive GIS-based information- and planning system, which operates within urban drainage (with HYSTEM-EXTRAN) and urban flood management (with FOG 2D). As an extension for the geographic information system ArcGIS (ESRI), FOG meets all requirements for an efficient urban drainage planning.**

**FOG 7 is also available in Chinese language.**

## Comprehensive GIS-based information- and planning system

### Functionalities of the software

FOG allows the presentation of pipe network data in different views (maps, time series and longitudinal view) and the data processing with automated and manual tools. Height information can be taken from digital elevation models. Comprehensive tools for surface processing support the digitization and the quick link of detailed spatial information with the network data. To ensure the consistency of the surface data, powerful tools for topology checking and geometry repair are available too. The assignment of multiple areas to one pipe is possible.

FOG supports the transfer of data through open interfaces for importing ESRI, CAD and MS Office formats as well as HYSTEM-EXTRAN databases. The analysis of simulation results can be simply made in longitudinal views, in curves derived from time-series and in theme plans. The use of ArcGIS labeling functions will be simplified with a label editor.

The program is available with an optional module:

- FOG 2D

Urban flood management with the assessment of frequencies of flooding corresponding to DIN EN 752.

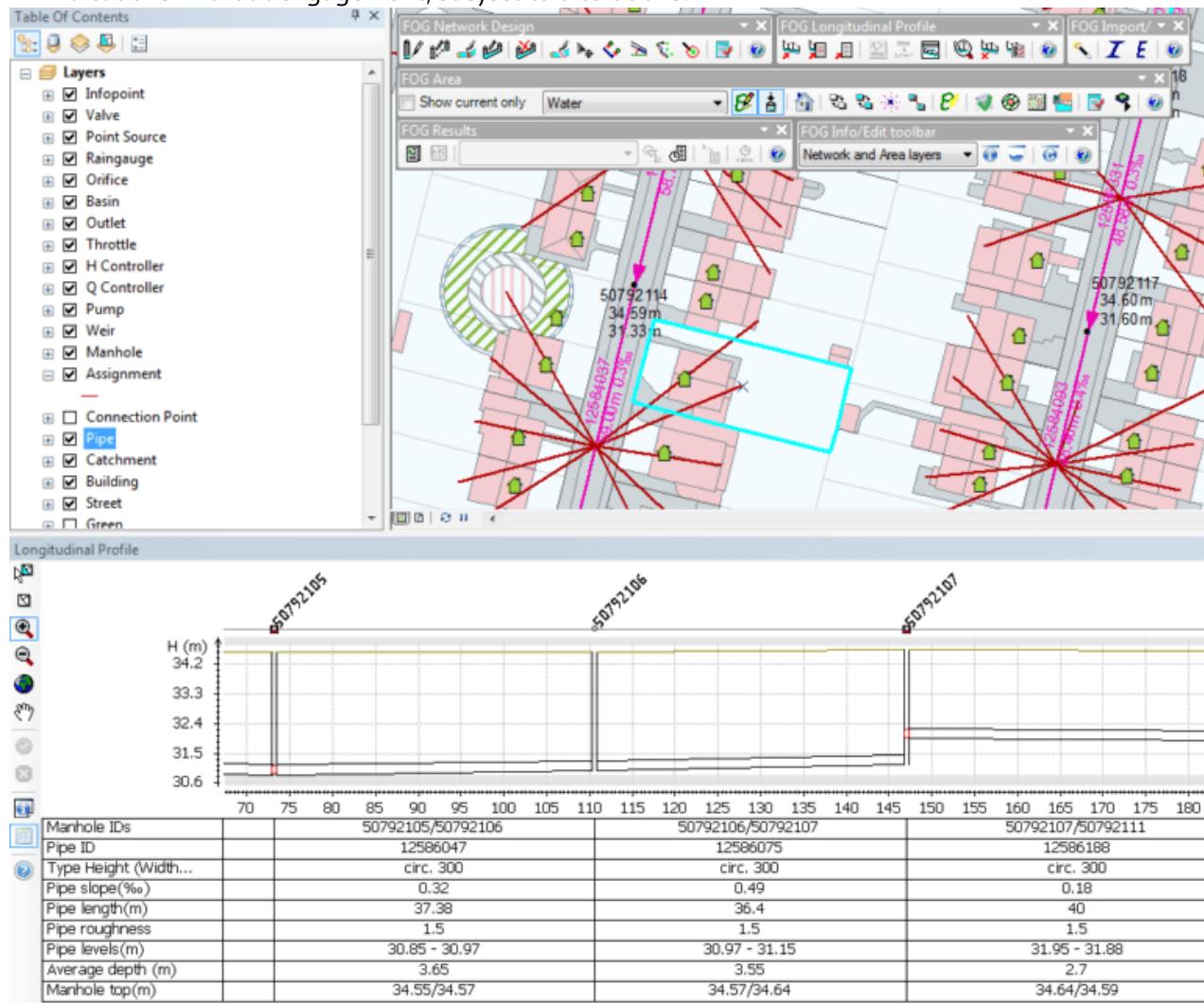
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### FOG – scope of services

- Import/export interface to HYSTEM-EXTRAN; import from ESRI, CAD and MS Office formats
- Editing of pipe networks with object-oriented data input or tools for moving, cutting, interpolation and multiple assignment

- Presentation of longitudinal views with manhole connections, crossing pipes, digital elevation and simulation results; working in longitudinal and plan view at the same time
- Topological clean editing of spatial data, tools for repairing geometry
- Automatical assignment of surface areas to the pipe network based on distance relationships; automatic creation of catchment areas using Thiessen-Polygons
- Individual runoff parameters for each site area can be considered
- Generation of numerate sewer networks; all parameters which are required for simulation can be set
- Display of hydrographs
- Preparation of theme plans
- Search and analysis functions, error checking of network data
- Function calls from topic related toolbars
- Easy creation of labels

All indications without engagement, subject to alterations.



FOG-user interface with toolbars

## Software novelties from this version

- Create flood hazard map according to DWA-M 119
- Model decentralized rainwater management systems
- Determine quality criteria between measure data and simulation results
- Event balancing for every special structure type
- FOG support center for problem solving
- Areas with geometries within HYSTEM-EXTRAN database
- ...and much more!

## System requirements

- „ESRI ArcGIS“ 10.1 to 10.6, at minimum level „ArcGIS Basic“.
- Operating systems:
  - Windows 10 (64-Bit)
  - Windows 8 (64-Bit)
  - Windows 7 (64-Bit)
- Hardware requirements correspond to those of the ArcGIS product.

## Support and Updates

For prices, support, licenses and and/or a quotation, please contact:

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