

A picture is worth a thousand words

SynerGEE Water can help you get more value from your enterprise systems, no matter what your objective.

In addition to simplifying the model building process through its polyline conversion capabilities, SynerGEE incorporates a variety of basemapping supported formats, including most GIS and CAD forms as well as standard BMP, JPG or TIF files.

SynerGEE recognizes basemap layers that you can turn on or off individually as needed to show the essential geographic detail for your models. SynerGEE's fully-customizable workspace, tailored symbols, expanded annotation, unlimited label styles and color-by capabilities provide extensive information in a straightforward, user-friendly style.

The GL Advantage

GL's comprehensive industry knowledge and experience is unmatched around the world. Not only do we supply you with software products tailored to your individual needs, but we also offer comprehensive services relating to all aspects of managing, maintaining and investing in a delivery network.

Obsessive 24/7 Technical Support

When you choose GL, you're not just getting the world's best network analysis capability, you're also getting the most obsessive technical support in the industry. Our team of professional engineers is committed to delivering world-class support, training and education. Rest assured that our 24/7 technical support team is ready to help you get the most out of your software.

Strong Integration and Partnerships

SynerGEE is unrivaled in its configurability and flexibility, as well as its ability to integrate with other GL products and GIS systems. GL proudly partners with ESRI®, GE Energy™ and Miner & Miner™, as well as other GIS and technology leaders to bring you the most powerful and comprehensive solutions available.

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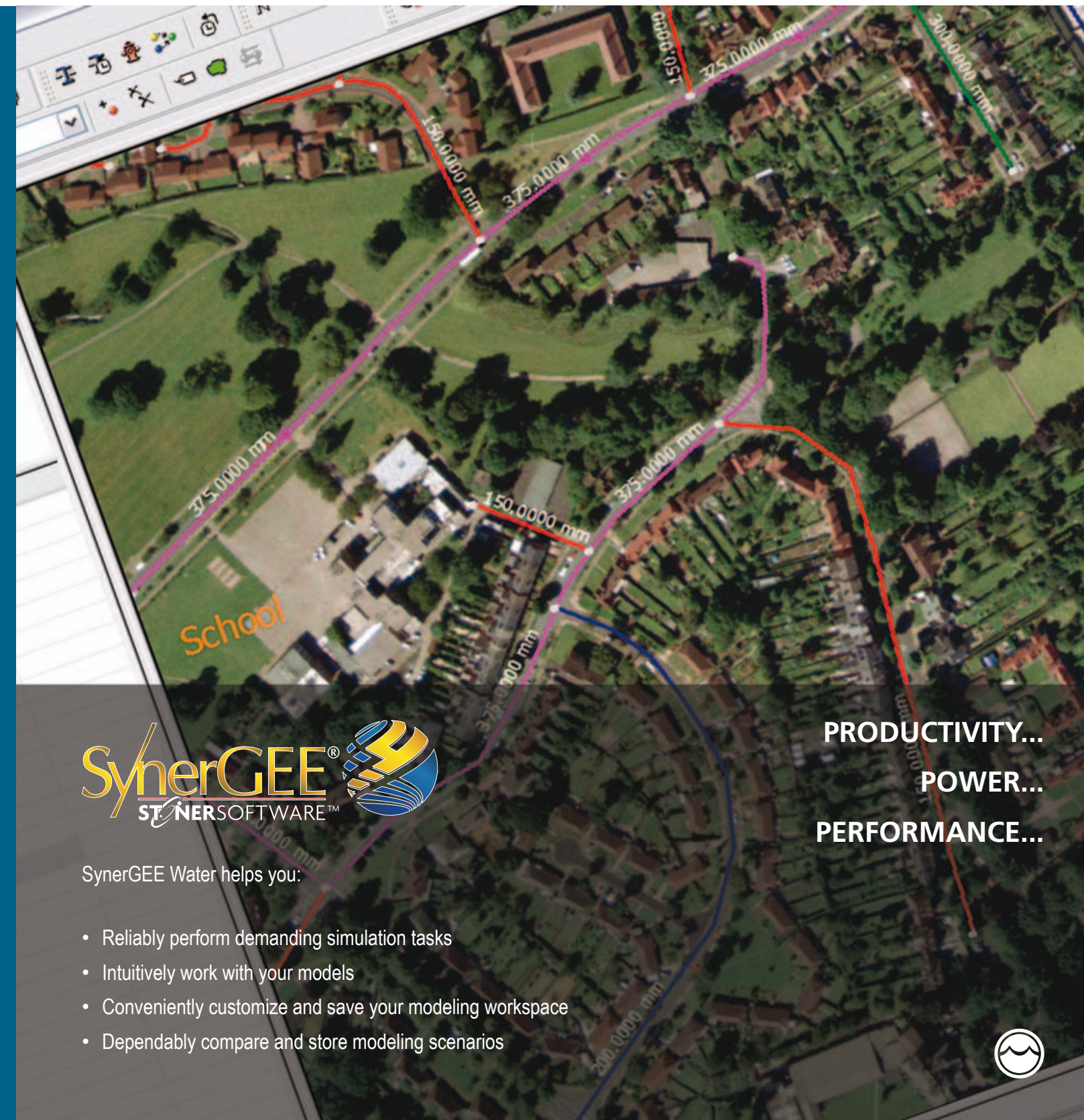
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PRODUCTIVITY...
POWER...
PERFORMANCE...

SynerGEE Water helps you:

- Reliably perform demanding simulation tasks
- Intuitively work with your models
- Conveniently customize and save your modeling workspace
- Dependably compare and store modeling scenarios



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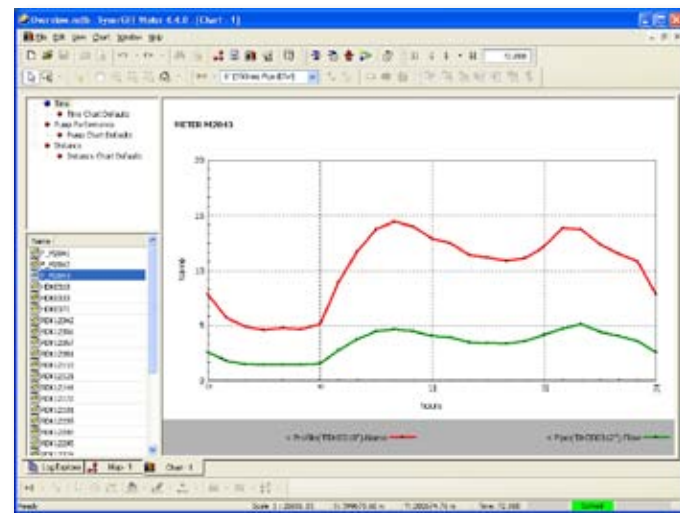
Practical meets functional

System planning is an intense and complicated process. You need to be able to anticipate and apply variables over short- and long-term planning periods. Simulation is aimed at taking the guesswork out of system planning, and Germanischer Lloyd (GL) prides itself on exceeding your simulation expectations by using the world's most powerful steady-state modeling engine. SynerGEE® Water offers enhanced functionality and updated modules that let you generate fast, accurate simulation results.

SynerGEE provides a full range of powerful analysis tools, including:

- Steady-state and extended period analysis, with cost of pumping and complex logical controls
- Age of water and propagation of multiple substances
- Pressure-dependent demand
- Dynamic forward and backward tracing
- Fire flow analysis
- Accept base input from an EPANET model

In addition, separately licensed modules are available to help meet your needs for reliability of supply, calibration, sensitivity analysis, demand loading and customer identification, and repair and flushing analysis.



Giving you the power of knowledge

SynerGEE comes with the power that gives you the knowledge of how your entire network will behave under a variety of operating conditions. Whether you need to ensure the efficient operation of an existing network or want to design a cost-effective connection to new customers, SynerGEE gives you the power to face your challenges head on.

SynerGEE is highly flexible, letting you choose the detail level for your models, from simple hydraulic analysis of a single pressure zone to the twin propagation of water quality in a multi-zone system. SynerGEE puts a

straightforward and simplistic, yet comprehensive modeling interface at your command.

New features at your fingertips

SynerGEE incorporates robust functionality into your daily routine. From our user-friendly and intuitive model explorer to advanced network analysis tools, SynerGEE helps you generate fast, accurate results.

Powerful Customizations

From the moment you open your model, you can customize SynerGEE for a unique modeling experience. Create and save unique map views and unit of measurement sets, and then apply these favorites to any of your models with a click of the mouse. Import your custom attribute data using Model Builder or the exchange file format, and then include them in your map views, scripts, and customized reports.

With our flexible reporting environment, you can create your own reports that include as many of SynerGEE's standard and custom attributes as you like. SynerGEE's highly flexible nature ensures that your model will provide you with the exact data that you need, every time you use it.

Process Automation

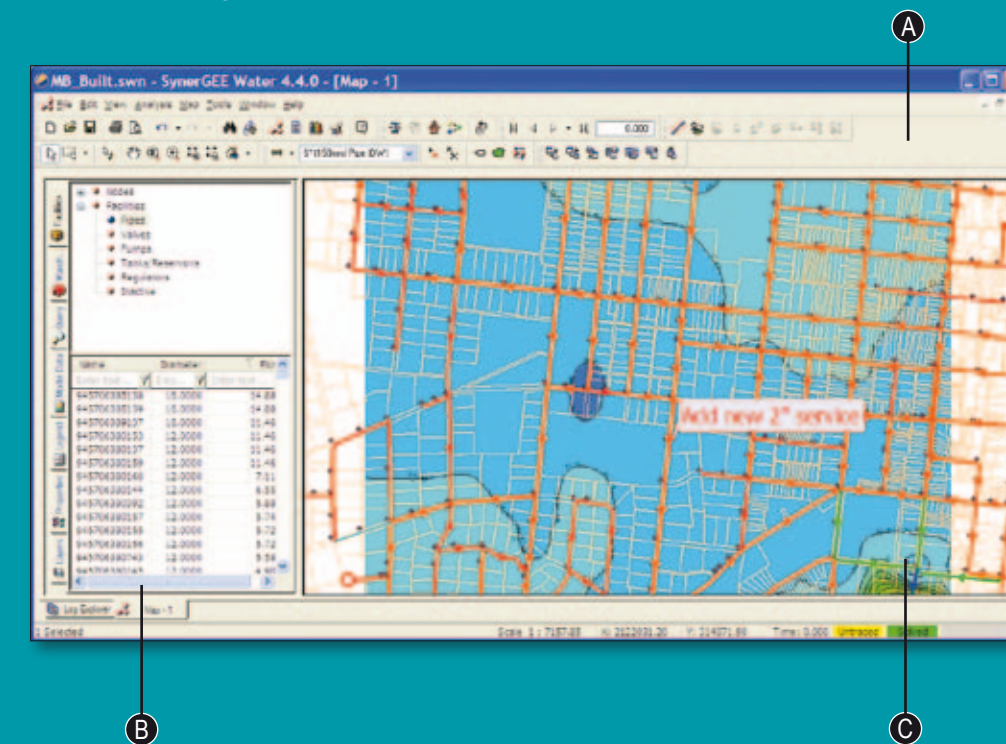
With SynerGEE's unique scripting language, you can automate many aspects of your business process and extend the value of your model throughout your organization. Using scripts, you can:

- Batch-analyze a collection of models
- Publish standard modeling results
- Integrate with SCADA and other systems to provide an accurate, current view of system status
- Create custom alarms and warnings
- Adjust demands by region
- Implement complex system control
- Prototype custom analyses to provide additional value

Enhanced GIS Integration

SynerGEE's robust and flexible data management capability allows you to display and import data into SynerGEE from a variety of external sources, including shape files, CAD files and ArcInfo™ coverages, as well as personal and enterprise ArcGIS® geodatabases. SynerGEE's GIS integration capability provides you with an automated process for efficient model maintenance and revision. Once a model is constructed, SynerGEE allows you to publish results and critical model information to a variety of spatial, graphical and tabular formats.

Productivity, Power and Performance



- A The control console for your model, the map display, provides you with a model view and allows you to make direct updates to the model. Each update can be viewed as a separate map display.
- B The personal assistant to your map display, the model explorer, neatly organizes your related model data (including nodes and facilities, the equipment warehouse and basemapping layers) into seven tabbed areas.
- C SynerGEE helps make drawing models a drag...a drag-and-drop, that is. With its 'smart GUI' edit mode you can drag-and-drop pipes and watch associated nodes go along for the ride.

Robust module enhancements

SynerGEE offers separately-licensed modules to meet your expanding needs.

Customer Management

Using information from your customer information system (CIS) database, SynerGEE's Customer Management Module (CMM) establishes a relationship between consumption associated with a unique property or customer reference code and a pipe-attributed demand value in the SynerGEE model.

CMM uses each customer's coordinate information to automatically assign the customers to pipes or nodes in your model. CMM also provides for a number of advanced modeling capabilities, including:

- Computing demands based on billing data
- Transferring demands to models for an up-to-date representation of your customer loading
- Calculating leakage by a variety of standard methods, including the well-known burst and background techniques

Calibration

Using SynerGEE's Calibration Module, you can determine the relative sensitivity of model parameters and customize the display to graphically show which facilities and model regions are most sensitive to proposed changes. In addition, the Calibration Module features a powerful Genetic Algorithm engine that allows for automatic adjustment of certain model parameters.

Automatic calibrations can be run in batch to minimize the need for manual intervention and allow for long, overnight simulations that compare changes to different model regions or parameters.

Additional Module-Based Enhancements

Determine Reliability of Service. Determine how your system will respond to pipe failure and measure the resulting impact on your system's water supply.

Regional Response. Automatically identify which valves to close in order to isolate or flush trouble spots in your system, and analyze the partially disabled network and see if demands in the vicinity can be supplied.

Model Management. Extract model regions or skeletonize a model to improve computational efficiency, or merge separate model files together to form a master model.