

➤ OPTIMIZATION

www.gams.com ◀

GAMS

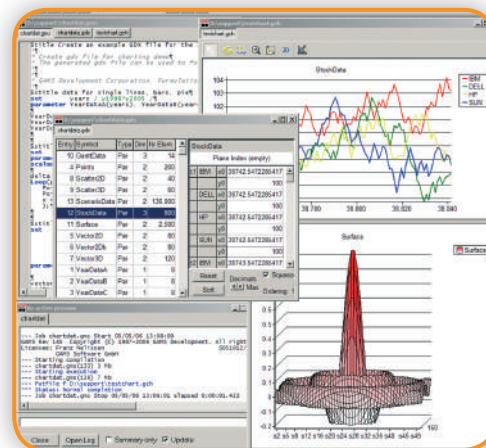


High-Level Modeling

The General Algebraic Modeling System (GAMS) is a high-level modeling system for mathematical programming problems. GAMS is tailored for complex, large-scale modeling applications, and allows you to build large maintainable models that can be adapted quickly to new situations. Models are fully portable from one computer platform to another.

State-of-the-Art Solvers

GAMS incorporates all major commercial and academic state-of-the-art solution technologies for a broad range of problem types.



GAMS Integrated Developer Environment for editing, debugging, solving models, and viewing data.

HABITAT – a reserve selection tool for European wetland biodiversity conservation

Developed at the University of Hamburg, the HABITAT model was explicitly designed for the special requirements for conservation planning on the European continent with its fragmented habitats and high human population density. It is based on principles of systematic conservation planning and economic theory. This central component of the systematic conservation planning philosophy aims at efficiency of resource use. The objective is to find a set of conservation sites that achieves a conservation target at minimum cost.

- A set-covering problem formulated as a mixed integer program to find the cost-efficient allocation of nature reserves
- Integration of representation and persistence principles in the „conservation target“ approach
- Endogenous calculation of reserve sizes
- Explicit integration of land market feedbacks

Europe

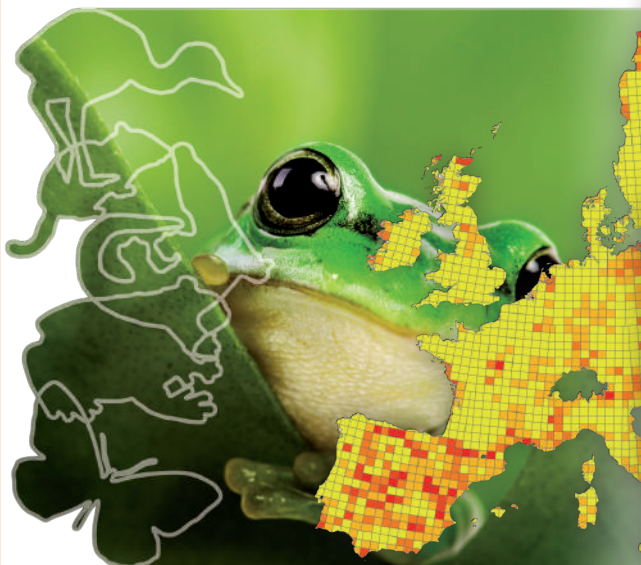
GAMS Software GmbH
Eupener Strasse 135-137
50933 Cologne, Germany

phone
+49-221-949-9170
fax
+49-221-949-9171
mail
info@gams.de
web
http://www.gams.com

USA

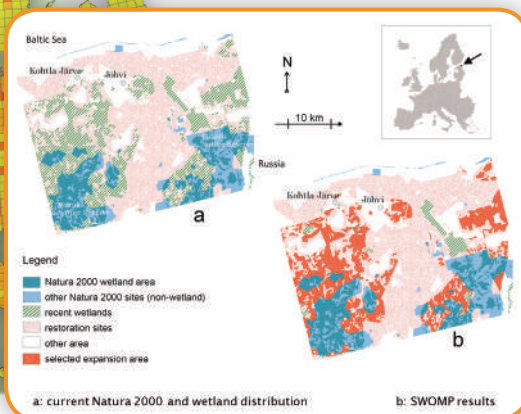
GAMS Development Corporation
1217 Potomac Street, NW
Washington, DC 20007, USA

phone
+1-202-342-0180
fax
+1-202-342-0181
mail
sales@gams.com
web
http://www.gams.com



Percent of planning unit protected under Natura 2000

- <20
- 21-40
- 41-60
- 61-80
- >80



U+H
Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

For further information about this application please contact Kerstin Jantke <kerstin.jantke@zmaw.de>, Uwe Schneider <uwe.schneider@zmaw.de>, or visit: <http://fnu.zmaw.de/>