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## **Bionatics launches REALnat™ : the first-ever plant modeling software targeting 3D real-time simulations**

Bionatics, a software company specializing in modeling 3D virtual plants and trees, is proud to launch REALnat™, the first 3D plant modeler targeting the simulation industry and 3D real-time database designers. Simple and rapid, REALnat creates realistic 3D vegetation adapted to refresh rate limits in real-time environments.

Based on the AMAP™ technology developed by the researchers at CIRAD, REALnat automatically generates all types of plants (shrubs, trees, bushes and flowers). These plants are all botanically correct and are associated with virtual seeds holding a particular plant's genetic information.

### A simple process.

REALnat comes with a library of 25 plants, which can be updated as of June 2001 through a simple connection to Bionatics' site, [www.bionatics.com](http://www.bionatics.com). The site offers an online library consisting of more than 500 "virtual seeds" stemming from 5 continents.

The user chooses the species, the age, the season as well as the number of individuals desired. REALnat then calculates the architecture of the plant and automatically models it in 3D textured geometric forms.

The user can then modify and continue to fine-tune the plant by changing its luminosity, resolution and format. The same model's age and season can be changed while maintaining all previous modifications.

### A first in the Virtual Realty Universe.

REALnat automatically constructs a model with only 1 to 4 faces, providing a perfect 3D illusion. It also allows the user to observe the model from all its angles at 360°. A vertical plane complemented by two at right angles create the illusion of 3D, thus adding realism. A simulated plant with a fourth, horizontal plane, seen from above with a drop shadow, **forms an aerial view that until now was impossible to create.**

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### A tool with an added value

Simple and rapid to use, REALnat is cost-effective because it reduces production time and costs related to the creation of real-time 3D databases. It can therefore quickly generate realistic geographical zones.

REALnat plants and trees can be exported in the major market real-time simulation formats : Openflight, VRML 1, VRML 2, 3D Studio and Wavefront.

REALnat is moving the industry forward by providing the proper tools required for 3D real-time simulation and virtual reality professionals who need to produce top-notch databases for the Military, Civil Engineering and Gaming industries. With REALnat, BIONATICS is proud to inaugurate a new generation of solutions destined to give life to virtual worlds.

REALnat will rapidly become the reference tool for 3D real-time plant simulations.

#### Minimum configuration recommended :

PC Intel Pentium II, 300 Mhz, 128 Mo RAM  
Windows NT or Windows 2000  
3D Open GL video card, 4 Go hard drive

#### Price :

REALnat = 7 500 euros  
Run-time REALnat = 1 000 euros  
Supplementary plants = 490 euros  
25 plant library = 7 500 euros  
50 plant library = 12 500 euros

#### About BIONATICS

*Created in 1995 by Mathias Monribot and Stephane Gourgout, BIONATICS (formally JMG Graphics SA) saw itself drawn in March 2000 towards the industrialization and worldwide commercialization of plant growth simulation software inspired by the extensive research by CIRAD.*

#### *AMAP technology /*

*The AMAP technology, known throughout the international scientific community, is the software's backbone. BIONATICS has numerous operational references such as LAFARGE, Port Autonome de Paris, Groupe Scetauroute, Ministère de l'équipement Français et Belge, Ex Machina, DUBOI, UBISOFT, Lockheed Martin and DASSAULT.*

*Owning the exclusive rights to AMAP technology, BIONATICS received ANVAR's support in the form of aid for innovation. With an international development forecast, BIONATICS hopes to become the world leaders in plant simulation.*

[www.bionatics.com](http://www.bionatics.com)

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