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**ARGUS RELIABLE INFORMATION**

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**Our core business** is the collection, management and assessment of data on environment and public health.

**Our guiding principles** are sustainable solutions, high quality performance and customer satisfaction.

**ARGUS** is an appreciated partner for public and private waste management enterprises and for decision makers in administration and politics.

**Our long-standing experience** allows us to apply an extensive pool of data and methods for the description and assessment of waste quantity and quality.

We analyse your waste in order to identify its recovery potentials and avoid risks for the environment.

**ARGUS** combines its well-established statistical methods with specific sampling methods and reliable sorting procedures. Our methodologies are constantly refined to guarantee high quality and cost effective services.

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**Visit us**

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**IFAT 2014  
Hall B1, Stand 332  
Exhibitor DGAW**

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**ARGUS** - Statistik und Informationssysteme in  
Umwelt und Gesundheit GmbH

Einemstraße 20A • D - 10785 Berlin • Germany

Tel +49 (0)30 / 39 80 60 – 0  
Fax +49 (0)30 / 39 80 60 – 55  
Email [info@argus-statistik.de](mailto:info@argus-statistik.de)  
Web [www.argus-statistik.de](http://www.argus-statistik.de)

**SOLID WASTE SIM**

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**A Simulation Tool  
for Professionals  
in Waste Treatment**

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Innovation by



**A R G U S**



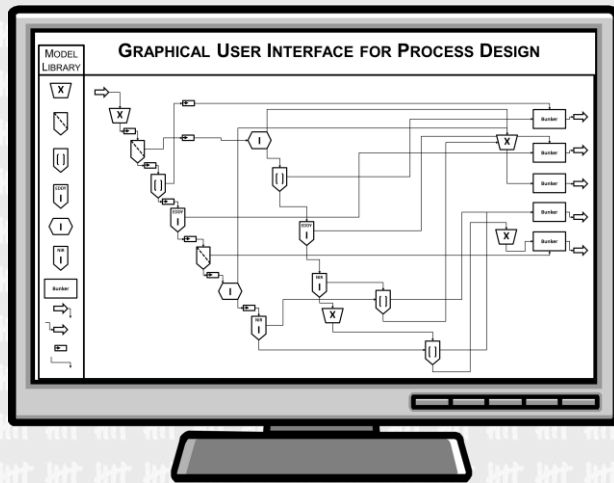
**GreenDELTA**

# SOLIDWASTESIM

## An Innovative Digital Tool

to simulate mechanical waste treatment processes

for Process Designers,  
Manufacturers and Operators of  
Plants and Installations



**Create** process flow schemes by drag-and-drop on screen

**Connect** ready-made aggregates from a library

**Define** technical parameters via **Graphical User Interface**

# SIMULATION FEATURES

**PROCESS AND AGGREGATE** designs are specified by the user on screen. Depending on the defined waste input, material flow parameters are calculated by validated physical models.

**OPTIMUM PROCESS PARAMETERS** can be identified to meet product requirements, e.g. RDF quality. Process modifications and changing waste inputs can be evaluated in advance.

**DYNAMIC MODELLING** simulates process and aggregate start-up, shut-down and varying input waste compositions.

**FLEXIBLE MATERIAL DATA BASE** allows modification of material categories, physical parameters and the visualisation of results, following user preferences. Simulation results can be exported.

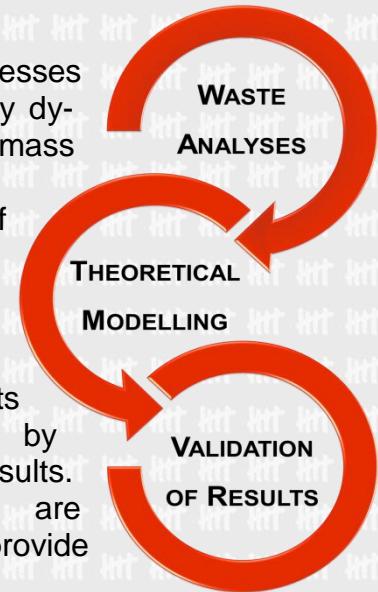
**SOLIDWASTESIM** is implemented in SCILAB and xCOS, powerful free and open source modeling software with an intuitive graphical user interface. SCILAB and xCOS are free available at <http://www.scilab.org/>

# RESEARCH

Required waste properties were analysed by specific sampling campaigns in an operating recovery plant.

Mechanical processes were simulated by dynamic fractional mass balancing. The hold-up of material is considered.

Simulation results are validated by manual sorting results. Process models are improved to provide reliable data.



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