

MADFORWATER

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README file

Software Title: **MADFORWATER. Decision Support Tool for wastewater management and for water & land management in agriculture**

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Software Description

Abstract

Here are provided the user guide and the code for a Decision Support Tool (DST) relative to wastewater management and water & land management in agriculture, developed in the MADFORWATER project. The DST is an integrated agro-economic model developed in Tasks 3.3 and 5.3, aimed at integrating water reuse and irrigation technologies with economic instruments into basin-scale strategies to enhance the use of treated wastewater.

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The hydro-agro-economic DST consists of statements that define the data first, followed by the model and the solution statements. The DST is contained in a computer code constructed with the text editor GAMS IDE. The file has the file extension .gsm and can be read using any text editor. To run the DST, it is necessary to install the GAMS IDE software. The code has been written in order to be usable also with the demo license of GAMS, that can be freely obtained at the following link: <https://www.gams.com/download/>. At the same link, it is possible to freely download the GAMS software, for Windows, Linux or MAC operating systems.

An extremely wide documentation on the use of GAMS, including a relevant library of GAMS codes, is available at this link: <https://www.gams.com/31/docs/>.

Content of the files

- **DST_OpenCode.gms** is the DST, a computer code constructed with the text editor GAMS IDE. File extension is .gsm, but can be read using any text editor. To run the DST it is necessary to install the GAMS IDE software.
- **DST_OpenCode_userguide.pdf** contains a general description of the DST and of its components and an Handbook of the DST.
- **DST_OpenCode_readmefile.pdf** contains detailed information about the software, such as authorship, license, description of files content, etc.
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