



#1 irrigation design software on the market

- Easy to use
- Fast results
- Quality of design and efficiency of plant
- Savings in water, fertilizers and energy costs
- Quality and quantity of agricultural production
- Lower plant costs



IRRIPRO: THE NEW WAY TO DESIGN

IrriPro is able to accurately predict the functioning of the plant before it is realized and allows to improve existing plants.



IrriPro is able to know the behavior and the quality of irrigation in order to obtain the best distribution of the water on the

ground, even when this presents any slope, the area to be irrigated is of any shape and the network is very extensive.



Whether it is a drip or rain plant, in

an agricultural field or in a garden, IrriPro will accompany the professional in every design decision in order to obtain an efficient plant and



quality irrigation. For concrete results in a short time.





IRRIPRO: THE NEW WAY TO DESIGN



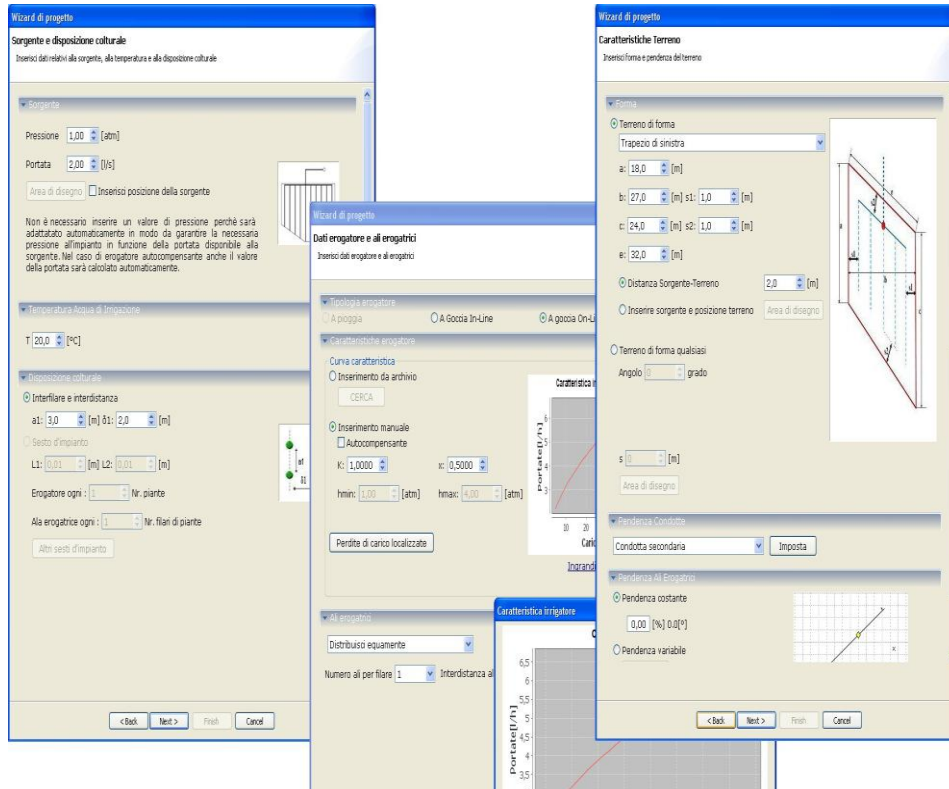
SURVEY WITH GOOGLE MAPS™

IrriPro allows
you to design
plants
remotely using
Google Maps™

With **Google Maps™** you can make the topographical survey (up to 2500 points recorded) in the area where you need to build the plant **without moving from your PC**. Once you have found the area to detect, the program will process the **3D model** of the terrain where it will be designed and built the irrigation system as well as using **high-resolution** satellite images. The data collected will then be used to **automatically assign heights, slopes and sizes to network elements** and draw the contour lines.



IRRIPRO: THE NEW WAY TO DESIGN



THE WIZARD

It drives the user through all the steps of designing

The user can choose whether to draw directly on the working area or use a **simple and intuitive interface** which drives the designer from the survey and data input to the calculation of the elements of the network, up to the presentation of results. The user-friendly environment enables quick use with **short time of learning** and accurate results through simple procedures.

Managing **multiple editor** allows you to compare multiple options for the same system. The software allows both the **design** of new networks and the **verification of existing plants**.

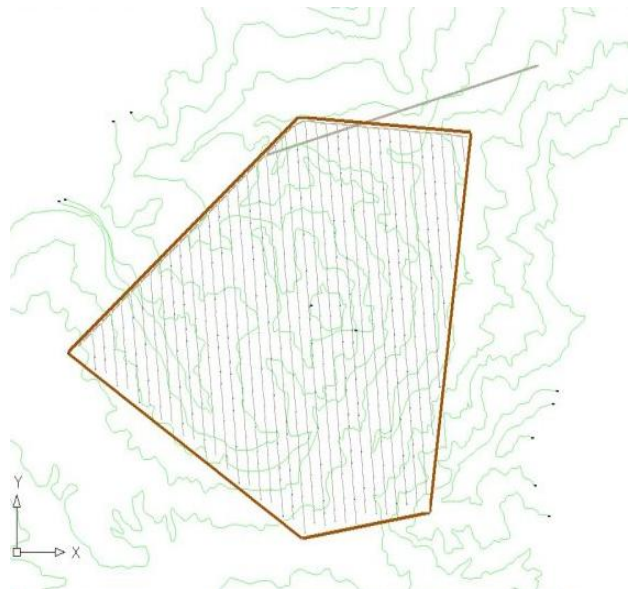
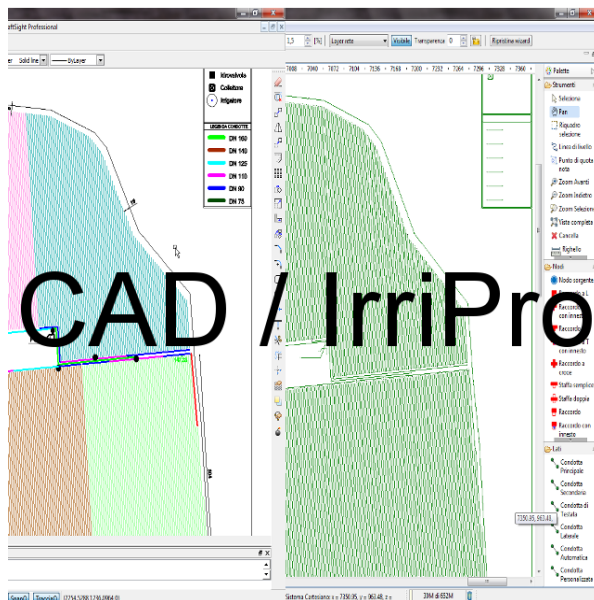




IRRIPRO: THE NEW WAY TO DESIGN

IMPORTING

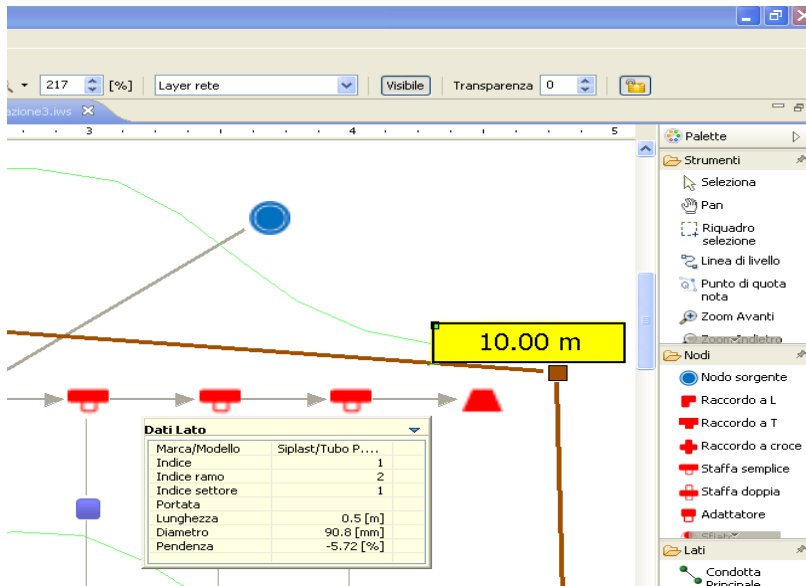
As well as Google Maps™, you can import CAD files, maps and photos. Scaled and with all the slopes



The user can work with external files imported with ease within the work area: manage **cartographic images** (with scale management), acquire **CAD files** (with automatic detection of the contour lines and dimensions of the ground) as well as perform the surveying through Google Maps™.



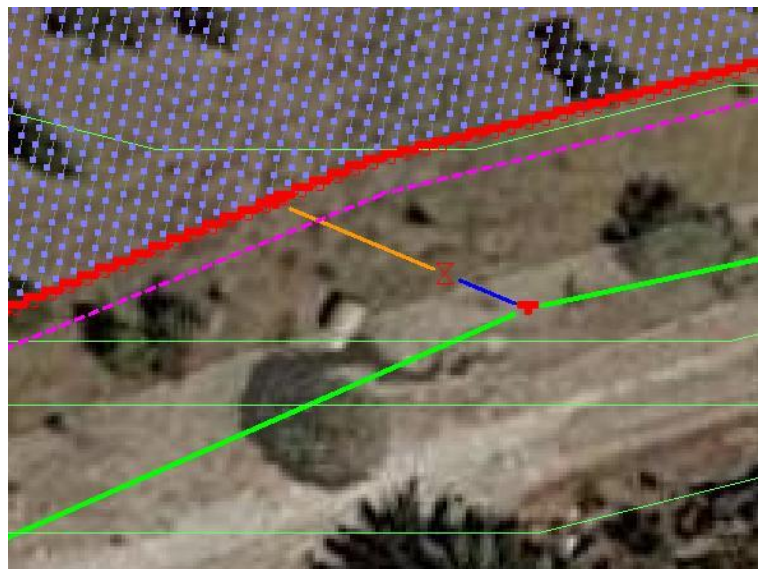
IRRIPRO: THE NEW WAY TO DESIGN



INDO Technology

Draw the elements not only as lines and dots

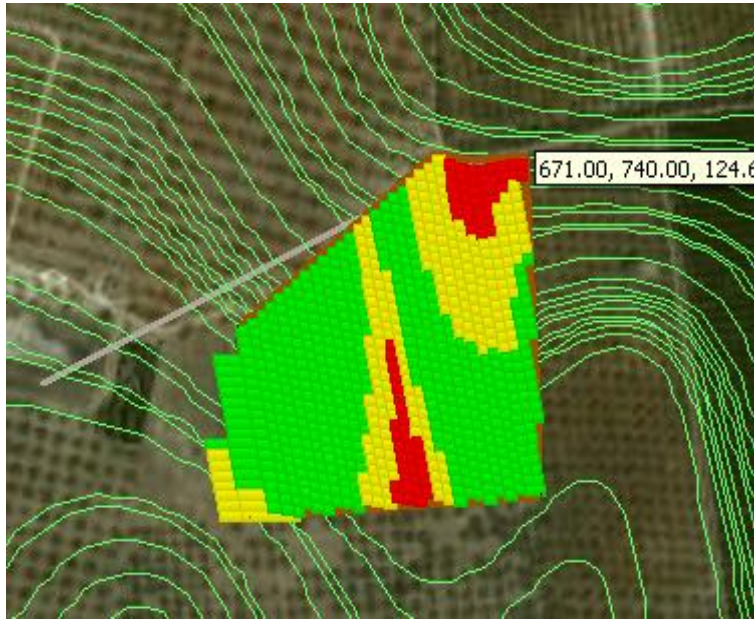
Thanks to the INDO technology (Irrigation Network Data Object) developed by Irriworks, now you can draw the elements of a system (emitters, pipelines, etc..)



and of the terrain not only as lines and dots but as **objects containing hydraulic and geometric characteristics**, materials and GIS information.

For example, changing the position of an element in the working area, IrriPro automatically updates the height, the element coordinates and the length and slope of related pipes.

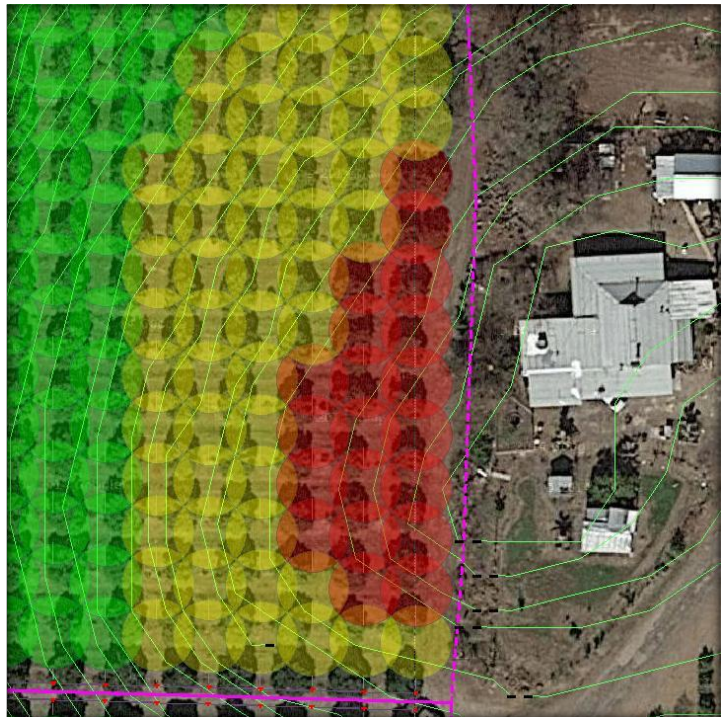




THEMATIC MAP

A key tool to verify the success of the project

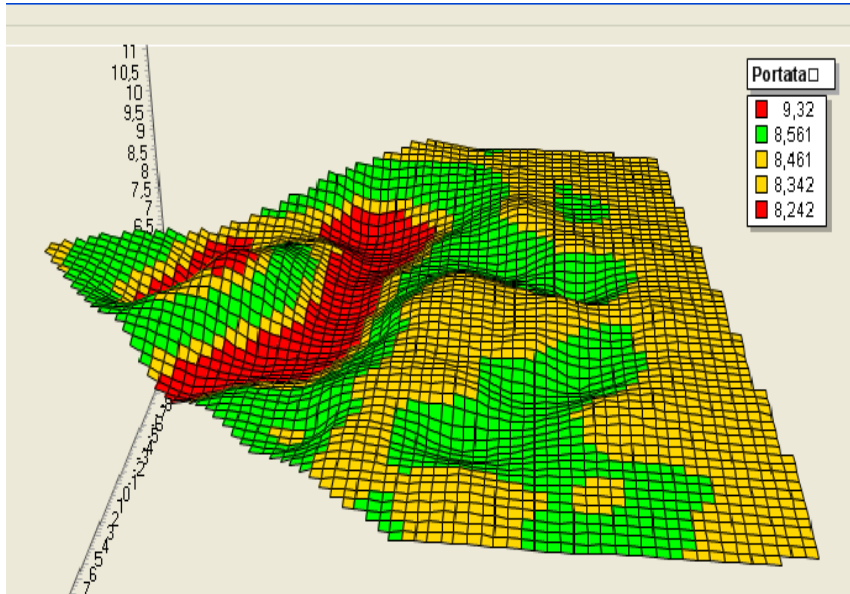
The elaboration of thematic maps (2D and 3D), through different colors for different ranges of flow and pressure, allows to know **how serious and large a negative condition is**, and indicates in which part you need to intervene (red areas).



Currently there is no application that can process the spatial pattern of the hydraulic characteristics involved for an immediate assessment of the quality of irrigation.



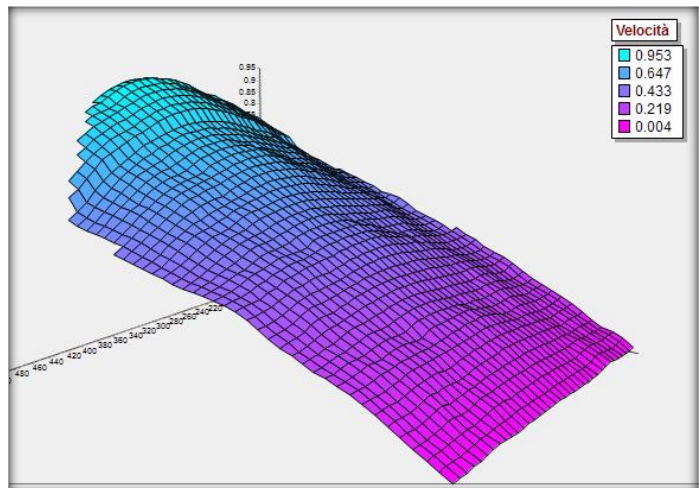
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3D GRAPHICS

Graphic and numeric works to predict the behavior of the plant

The core technology of the software allows to **accurately calculate all the physical parameters** (pressure, flow rate, speed, uniformity, etc..) in each point



representing its progress. Without an accurate and punctual results, you cannot predict, with the necessary rigor of design, the overall impact of the irrigation system response.

The works of analysis and assessment, presented in a simple and clear way, allows the technician to predict the quality of irrigation, and drives him to the changes necessary to improve water distribution.



IRRIPRO: THE NEW WAY TO DESIGN

WIDE DATABASE

IrriPro contains within it an **extensive database** of various brands

Search item

☐ Sprinkler ☒ On-Line drip ☐ Spray/Minisprinkler

Brand:

Code: Model:

Nominal flow rate From: To: [l/h] ☐ Single searching

Nominal pressure From: To: [bar] ☐ Single searching

Max pressure From: To: [bar] ☐ Single searching

Pressure compensated ☐

Range From: To: [m] ☐ Single searching

PRICE From: To: [€]

Brand	Code	Model	Nominal flow rate	Max pressure	Nominal pressure	Press.from	Press.to	Ra
Plast Project	1010.0040	Lem	4					
Plast Project	1010.0080	Lem	8					
Plast Project	1010.0160	Lem	16					
Plast Project	1015.0040	Lem	4					
Plast Project	1015.0080	Lem	8					
Plast Project	1015.0160	Lem	16					
Plast Project	1110.0020	Nike 1	2					
Plast Project	1110.0040	Nike 1	4					
Plast Project	1110.0080	Nike 1	8					

Number of items found: 46

Properties

Property	Value
Brand	Plast Project
Code	1110.0040
Model	Nike 1
Pressure compensated	No
Nominal flow rate	4
Max pressure	-
Nominal pressure	1
Press.from	1
Press.to	1
Closing emitter pressure	-
Opening emitter pressure	-
Hole diameter	3.6
Kind of coupling	1
Mesh	-
Micron	-
Orifice diameter	3.9
CV	-
K	1.5
X	0.54
Range	-

Description

"Nike 1 " inspectable dripper 4 Lt/h

Comment

DESCRIPTION:
Button dripper, composed of a labyrinth created on the two sides of a cylindrical insert, placed in an easy-to-disassemble shell for facilitating any necessary cleaning. During disassembly, the insert remains in its seat and light lateral pressure is sufficient to remove it, therefore minimising the risk of accidentally losing it, even when disassembling during the irrigation cycle. It is particularly easy to take apart thanks to the different kinds of materials used to manufacture it.

ADVICE:
Use flexible small pipe (art. 9130 Ø 3.5x6) / Recommended hole for assembling: Ø 3.6

For each element of DB, you can find the related geometric and hydraulic characteristics to be used in the system, evaluated in the project and shown in the bill of material. The system is equipped with an evolved management of search queries for each type of element.

The database can be **customized** on demand with products of a **specific manufacturer**.



IRRIPRO: THE NEW WAY TO DESIGN

BILL OF MATERIAL

15/03/2016 16.18.26

powered by

irriworks

Pipes

N.	Code	Brand	Model	PN[bar]	DN / Dint[mm]	Length [m]	QN[m³/h]	Spacing [m]	Number of coils/rods	Price[€]
1	PELAB11004050	Plast Project	PEAD PN4 DN110	4.0	110	129.74			3	1350
2	PELAB04006100	Plast Project	PEAD PN6 DN40	6.0	40	118.04			2	274
3	TRIPL040042	Plast Project	PEAD PN4 DN40	4.0	40	1525.5			16	1615.68

Adapters

BILL OF MATERIALS AND CAD

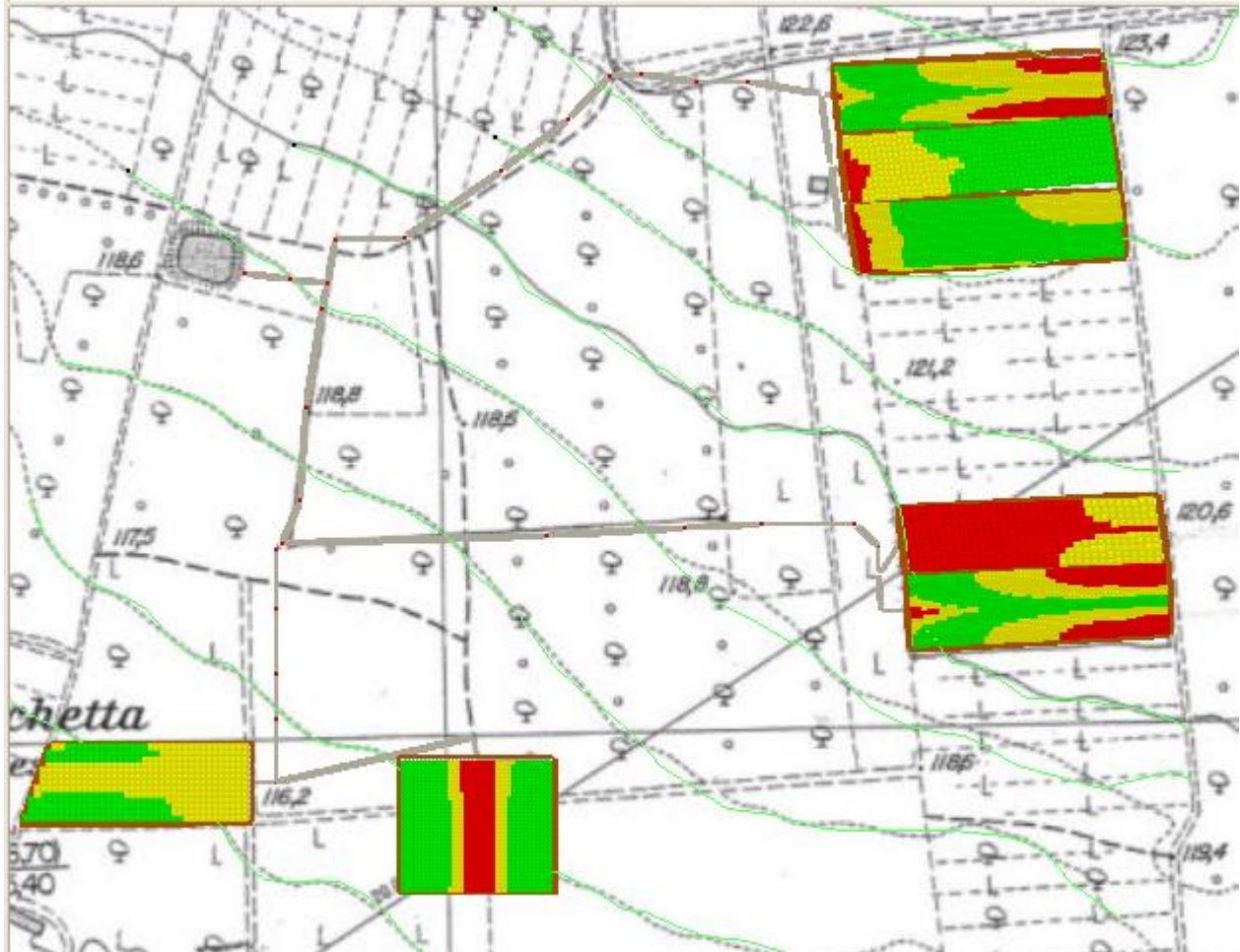
IrriPro creates a bill of materials used in the project with just one click

The document, drawn up within IrriPro (and exportable in pdf., Rtf., Html., Xls), reports for pipes, emitters and fittings, the **exact amount of parts to be used** for the construction of the plant.



Also it indicates the choice from the database without having to refer to catalogs or using third-party software.

The results of the elaboration of IrriPro are expressed in the form of **diagrams, tables of numbers, documents and reports**, all exported to **various formats**. The CAD technical drawings elaborated show the scaled plant planimetry with legend, symbols and colors.



The correct design is the only way to achieve maximum **efficiency and supply uniformity** of plant. Even systems with pressure-compensating emitters have physical limits (compensation pressure) and require appropriate design.



IRRIPRO: THE NEW WAY TO DESIGN

Why to use IrriPro?

- Complete project, from pump to water supplied to each plant
- According to the most stringent scientific and technical requirements adopted today in designing
- Automatic design and sizing of the network
- Automatic calculation of flow rate and pressure necessary to a plant
- Calculation and management of head pump and limit pressure for pressure reducers
- Precise evaluation of the head losses due to pipes, emitters, fittings, valves, filters and to any other element





IRRIPRO: THE NEW WAY TO DESIGN



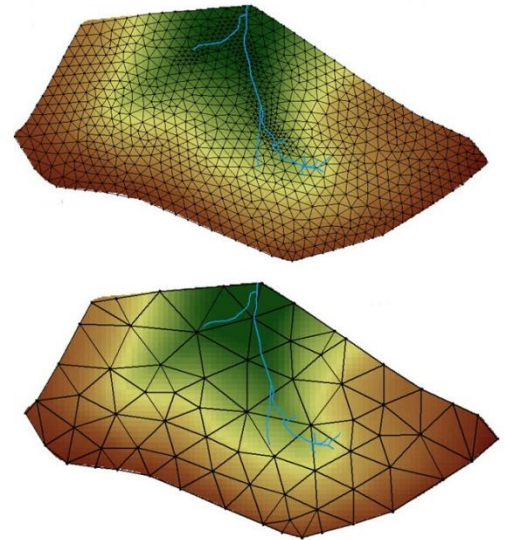
- Calculation of efficiency and of wasted volume

- Advanced feature (discretization) to

design plants of any size

- Automatic update system for database and new features

- Advanced management of elements fittings to allow the right introduction of equipment, fittings, derivations, valves, etc.



Updating



The **competition software** on the market were **focused to drawing** leaving to the hydraulic design a marginal role.

IrriPro comply with engineering and hydraulic requirements, in order to achieve the best **technical design and drawing**.





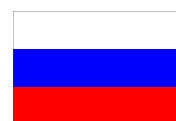
IRRIPRO: THE NEW WAY TO DESIGN

	IrriPro	Other softwares
User-friendly interface	✓	
3D model of terrain	✓	
Simplified hydraulic calculation	✓	✓
Rigorous and accurate project	✓	
Verification of existing plants	✓	
Database	✓	✓
Calculate effective uniformity	✓	
Maximum number of emitters calculable in the project	More than 1.000.000	5.000

IrriPro does **not require third-party software** for the design and processing of documents.

The available measurement systems are **SI, US** and **UK**.

LANGUAGES: Italian, English, French , Spanish, Portuguese and Russian





IRRIPRO: THE NEW WAY TO DESIGN



IrriPro is compatible with MS Windows (**XP, Vista, 7 and 8 and 10**), **Mac OS** and **Linux**.



Maximum compatibility, flexibility and portability

IrriPro is proposed in 3 versions, basing on the size of the plant that you need to design. You can purchase time limited or Life Time full versions. For more info:

www.irriworks.com

info@irriworks.com

www.facebook.com/IrriworksLTD

twitter.com/Irriworks