



IROI is a spin-off from university that takes years of academic experience in Operational Research to model and solve complex decision-making situations with a focus on manufacturing.



FINSA Consulting develops real user-centered systems, based on the newest technologies, both Microsoft and Open Source.

VISUALGANTT: TOP TECHNOLOGY AT THE RIGHT PRICE

- ❖ Cutting time-to-order optimizing detail scheduling.
- ❖ Increasing production process without upsetting your company.
- ❖ Saving software asset (accounting, ERP...).
- ❖ Squeezing productivity out of your company scheduling the activities by algorithms from the most advanced mathematical research.



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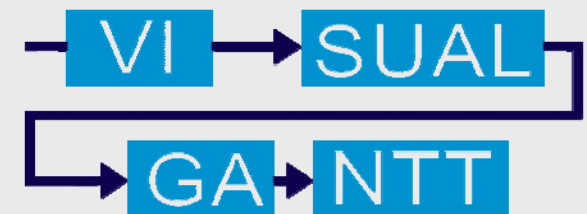
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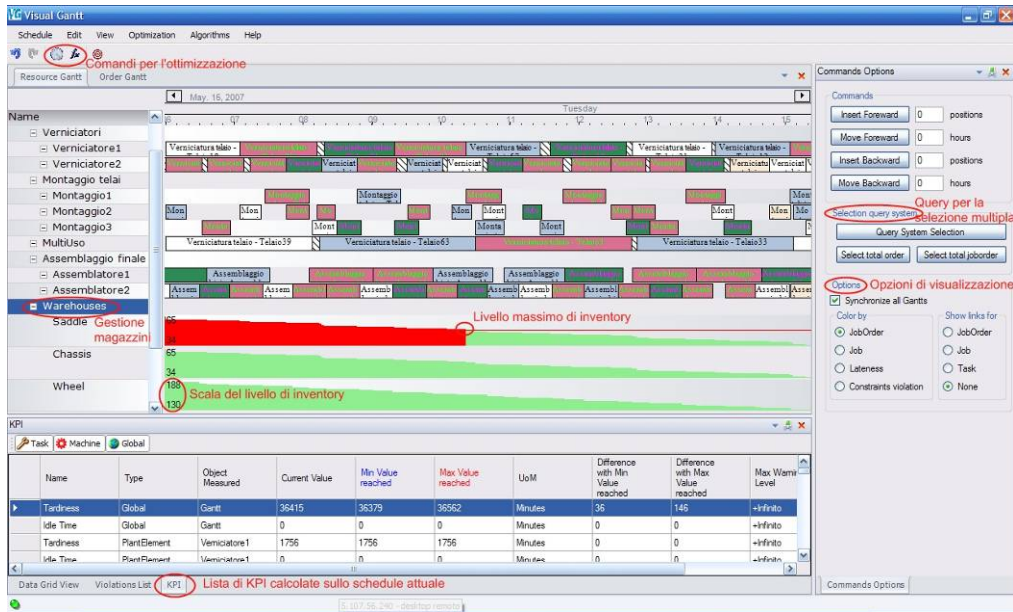
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Advanced Detailed Scheduling Support System



VISUALGANTT, born from an IROI and FINSA Consulting partnership, is an *Advanced Detailed Scheduler (ADS)* integrating up to date algorithms scheduling capability with newest graphic interface tools in order to provide a powerful, flexible and user friendly scheduling support system.

ADVANCED

VISUALGANTT is an **advanced** scheduling tool:

- ❖ it is able to manage the most important aspects in discrete manufacturing production; such as complex *bill of material* (BOM) and production cycles, precedence relationships among production phases,

setup times and costs;

- ❖ it takes into account resource capacity and inventory availability;
- ❖ it is provided with a set of novel scheduling algorithms, including last generation metaheuristics, developed to face and solve complex optimization problems

within reduced computation time.

FLEXIBLE

VISUALGANTT is a **flexible** decision support system:

- ❖ its graphic interface permits multiple synchronized views (*Order Gantt*, *Resource Gantt*, *Material consumption profile* etc.);
- ❖ it allows to execute and store multiple scheduling runs, hence *what-if* analysis, and finally the selection of the most suitable schedule;
- ❖ it lets the users to on-line update constraints relevant to

within reduced computation time.

- ❖ it lets the users to on-line update constraints relevant to

the tasks to be scheduled;

- ❖ it enables manual scheduling: by simple *drag&drop* actions the user can assign tasks to compatible production lines, also fixing task starting times;
- ❖ it is a local information system that can easily interoperate with ERP or other information systems;
- ❖ it can be used as a standalone tool for planning and production plan management.

OPEN

VISUALGANTT is an **open** software package since:

- ❖ it can be easily integrated with company information systems (ERP);
- ❖ it can be customized to satisfy specific company requirements;
- ❖ it can be extended by adding new scheduling algorithms in order to create plants specific optimization strategy.

DISTRIBUTED

VISUALGANTT is a **distributed** scheduling control sys-

tems: it is equipped with both Windows and web clients so as to provide an everywhere access to scheduling plans.

PRODUCT FUNCTIONALITIES

- ❖ Resources and orders Gantt charts.
- ❖ Dependency constraints among production phases.
- ❖ Plant hierarchy.
- ❖ Orders hierarchy.
- ❖ Optimization algorithms.
- ❖ Interactivity.
- ❖ Datasheet view.
- ❖ Constraint violation list.

- ❖ Parametric KPI (Key Performance Indicator).

- ❖ Working shift calendar and auxiliary resources.

- ❖ Task pre-emption.

- ❖ Setups management.

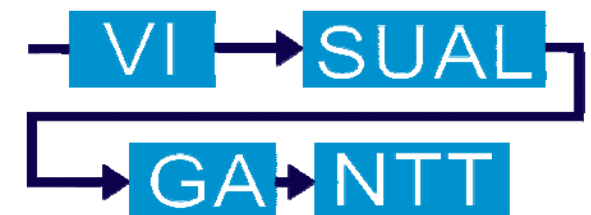
- ❖ Warehouse management.

- ❖ High-usability visual interface with complete customizable work environment.

- ❖ Undo/Redo commands on changes to the current schedule.

- ❖ Operations on multiple selections.

VISUALGANTT ENHANCES THE PRODUCTIVITY FOR THE SMALL AND MEDIUM ENTERPRISE



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