



GERSIS SOFTWARE

Convenient services to realize your ideas

Plant Maintenance Software

**Solution for regular planning of maintenance tasks
and optimal resource forecasting**

Who we are



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European software development partner

Minsk, Belarus

We have experience in working with:

- Energy and Oil companies,
- Dispatch Services Companies,
- Telecommunication Companies,
- Logistic Companies,
- Trade Companies,
- Government Organizations, and more

... and experience in these applications:

- Plant Maintenance,
- Budgeting,
- Reporting,
- Knowledge Management,
- Planning and Dispatch,
- System Integration, and more

Our main technical directions are

Java, .NET, SharePoint and Web (HTML, CSS, JavaScript).

Plant Maintenance



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Main Target:

Ensure an **uninterrupted** production process

Main Problems:

- **Workload peaks** for specific periods, resulting in resource allocation conflicts
- **Human errors** caused by non-automated planning and resource forecasting
- **Increased costs** because of wear and tear of equipment, and resource surplus
- **Management overhead** due to resource lack in the long term

What you need:

Strategic **Planning**, **Scheduling** and Resource **Forecasting**

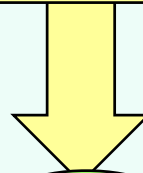
We provide a solution



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Automated Maintenance Planning and Scheduling



Thousands of assets are served in proper time

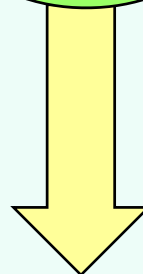
Asset Downtime is minimized

Resources (costs) are minimized and leveled within Maintenance Period

Maintenance Works are grouped to minimize efforts

Benefits

Results



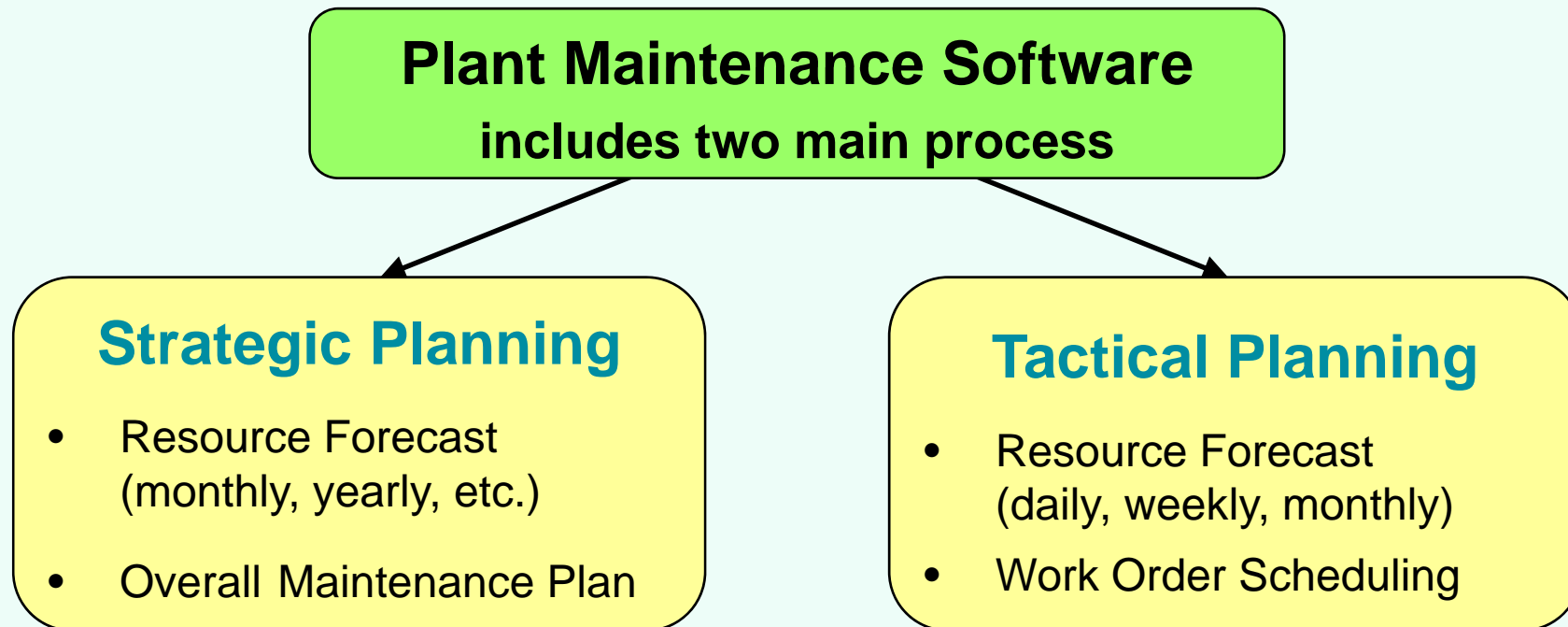
Uninterrupted production process with regular maintenance

Plant Maintenance Software



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Advantages:

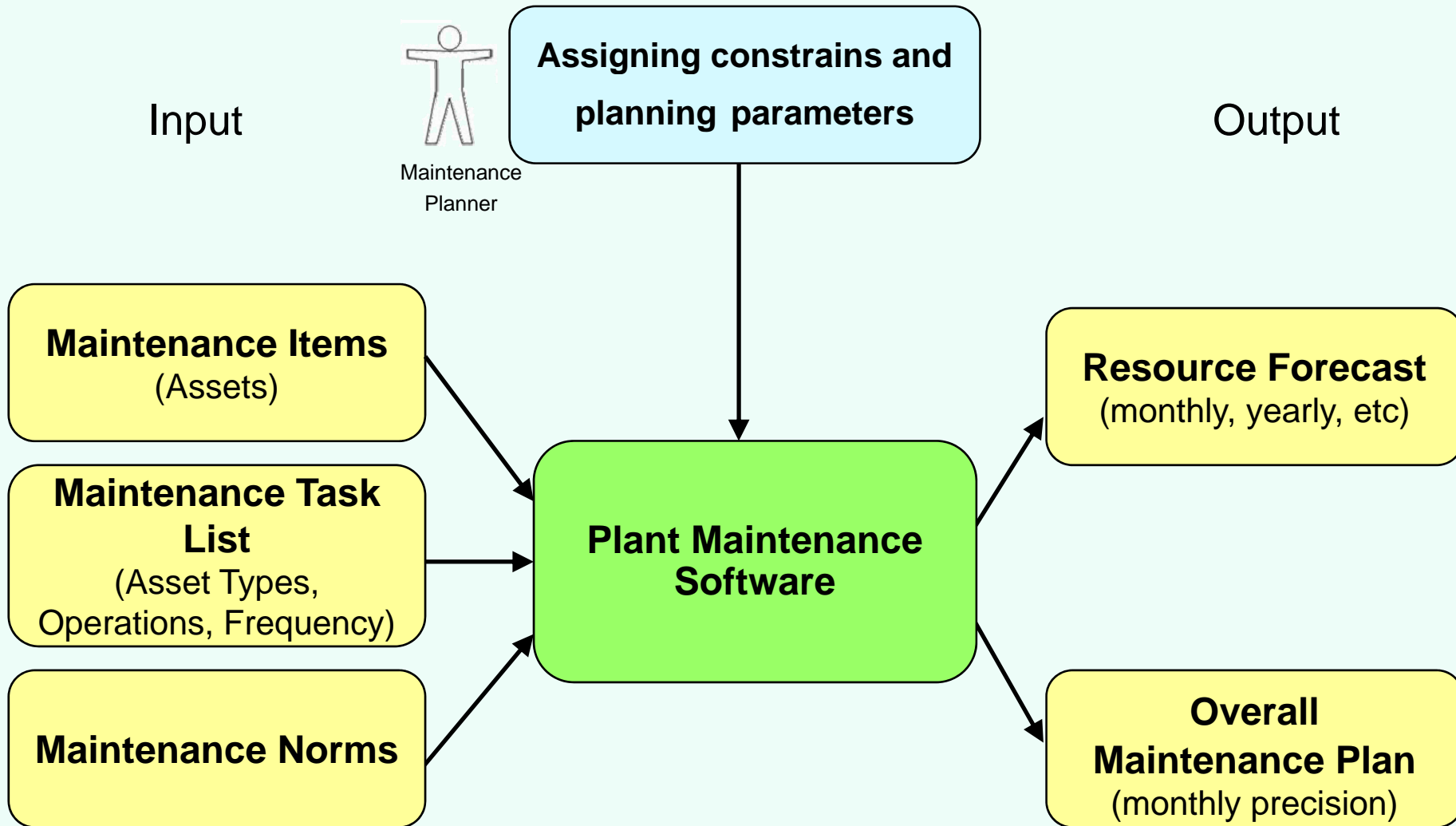
- **Integration with the ERP System (SAP, etc)**
- **Flexible customization**

Strategic Planning



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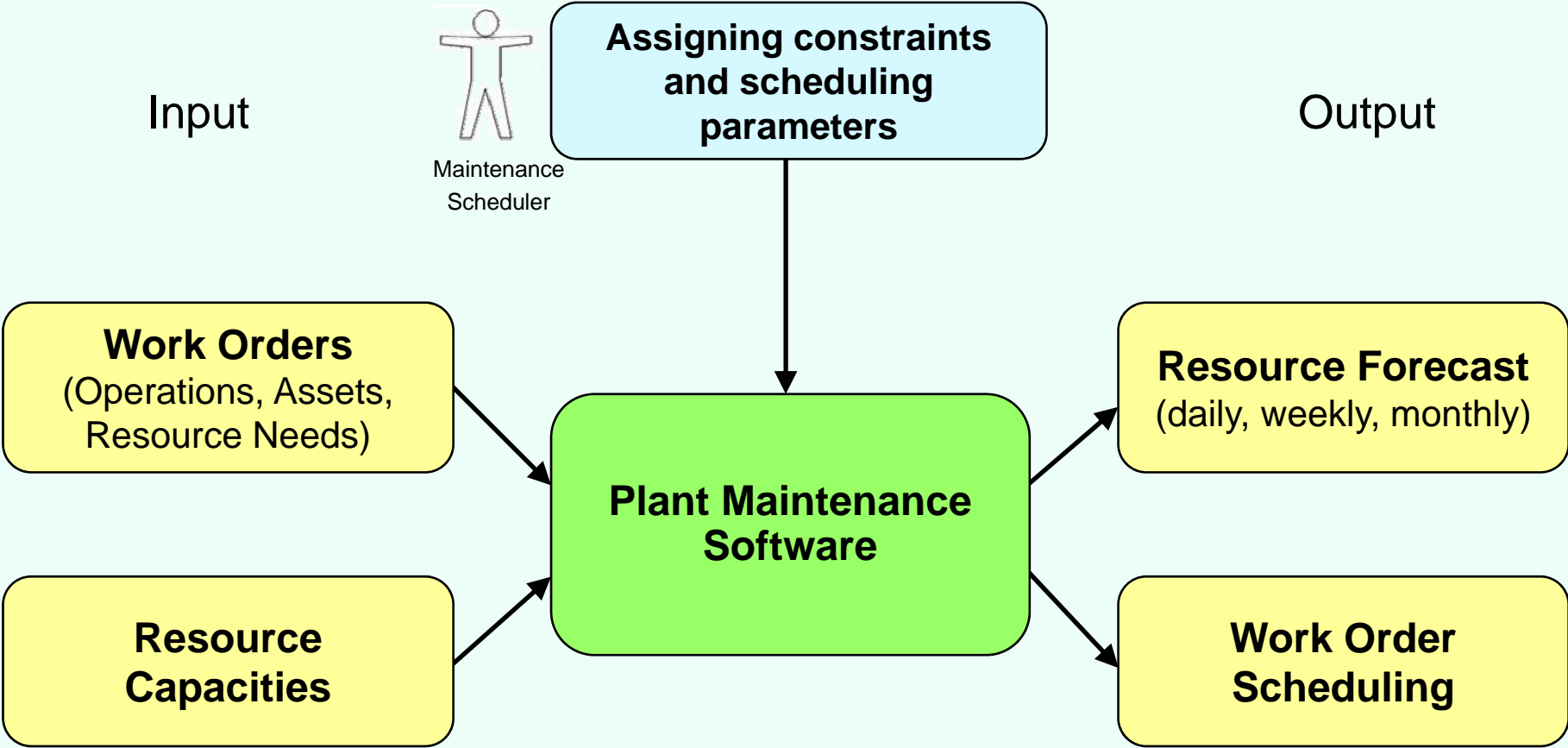


Tactical Planning



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Resource leveling

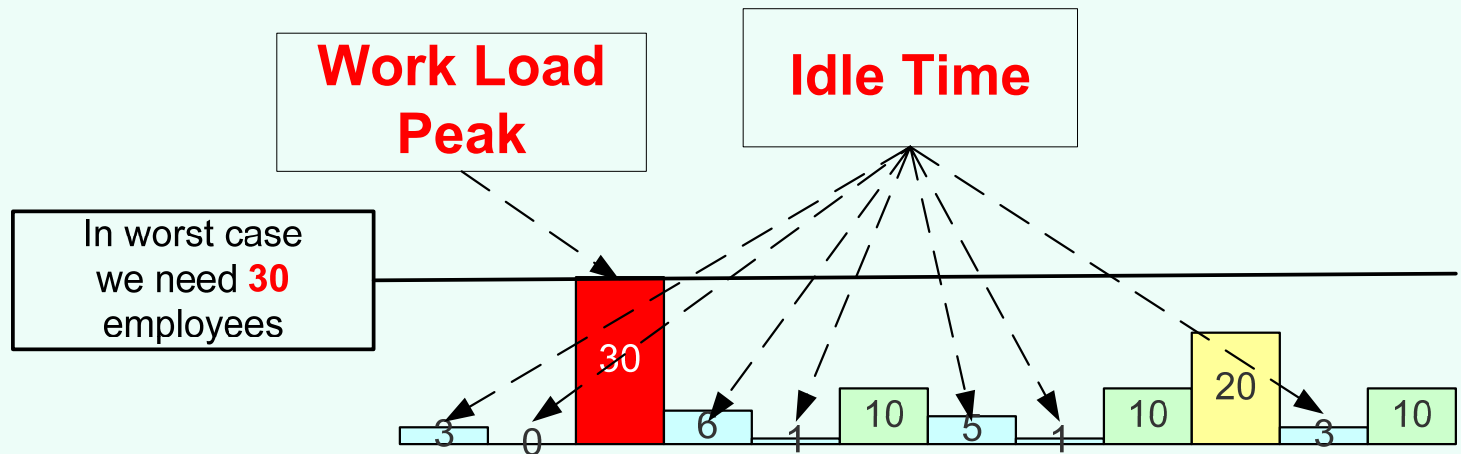


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Example:

Leveling of manpower resource distribution on time scale



Manually Planned Monthly Manpower Needs by Discipline



Automatically Planned Monthly Manpower Needs by Discipline

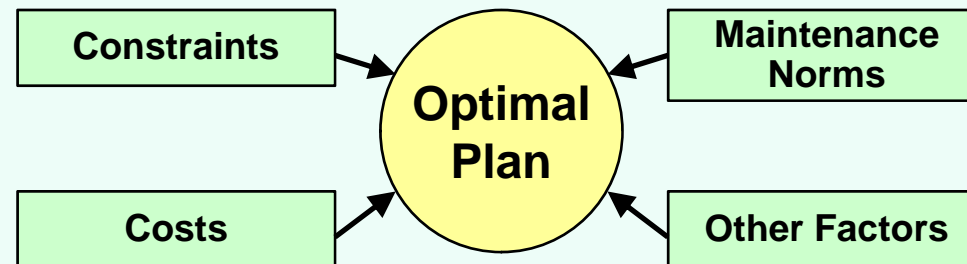
Optimal Planning



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You must keep in mind constraints priorities, maintenance norms and other driving factors to get an **optimal plan**.



Our genetic-probabilistic approach for the planning of optimization tasks

provides high flexibility which in turn allows you to:

- adjust priorities of important factors, as the situation requires
- add new factors to the existing system, for improving its intelligence
- pick the most optimal plan variant

Reference Project



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Industry

The customer is an integrated liquefied natural gas (LNG) enterprise. The equipment complex includes several LNG trains (production lines).

To guarantee an uninterrupted continuity of the production cycle commands, the software commands taking a very high responsibility in scale and enterprise specific know-how.

Business Need

Provide optimized maintenance for an equipment complex, with a huge number of assets (pipes, pumps, transformers, engines, etc).

The Solution - Plant Maintenance Software that provides:

- strategic **planning** for future preventive maintenance activities
- leveled manpower resource **forecasting** within the Planning Period
- dynamic Maintenance **Work Schedules**
- manpower **resource allocation** for Work Orders within the Scheduling Period

Further steps



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If you want to learn more about how we might help you for your Plant Maintenance requirements, please contact us:

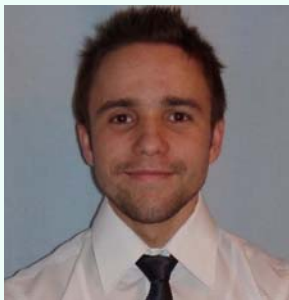


Olga Kalenchenko

E-mail: Olga.Kalenchenko@gersis-software.com

Phone: +375 (17) 259 19 27

Skype: Olga Kalenchenko



Igor Ustinov

E-mail: Igor.Ustinov@gersis-software.com

Phone: +375 (17) 259 19 12

Skype: Igor Ustinov

www.gersis-software.com