



## **ENTERPRISE ASSET MANAGEMENT**

**ADVANCED MAINTENANCE AND REPAIR MANAGEMENT  
FOR DYNAMICS 365**

# Quick Facts About Us

**GMCS** – a leader in business applications implementation, software development and application management

GMCS helps customers accelerate their digital transformation using technologies and solutions from leading suppliers, as well as the company's proprietary solutions

The company is headquartered in Moscow, branches - in St. Petersburg, Penza, Perm and Kazan



20

YEARS ON THE  
MARKET



500+

SPECIALISTS



700+

PROJECTS

# Trusted Partner to Leading Companies

## RETAIL



## TELECOM



## FINANCE



## OIL AND GAS



## MANUFACTURING



## ENERGY



## PUBLIC SECTOR



# Partnership with Microsoft

Cooperation since 2004. One of the strategic partners in Russia

## Products:

- Microsoft Dynamics 365, AX (2012 and early version)
- Microsoft Dynamics CRM
- Microsoft BI
- Microsoft Azure
- Microsoft SharePoint

## Services:

- Systems Integration
- Technical support and maintenance
- IT Outsourcing



Microsoft  
Partner



Gold Enterprise Resource Planning  
Gold Data Analytics  
Gold Collaboration and Content  
Gold Application Development

**PRESIDENT'S CLUB**  
*for Microsoft Dynamics*

**INNERCIRCLE**  
*for Microsoft Dynamics*

# Solution brief: GMCS EAM

**EAM365 | GMCS is a powerful EAM solution embedded directly within Microsoft Dynamics 365. Built for asset intensive industries lifecycle, operations, and regulatory compliance.**



Accurate expenses planning and repair funds control



Operative repair program execution control



Maintenance and repairs cost optimization



Implementation of a precise instrument for distribution of repair works between the company and external specialists



Data collection, reporting and analysis for repair and maintenance



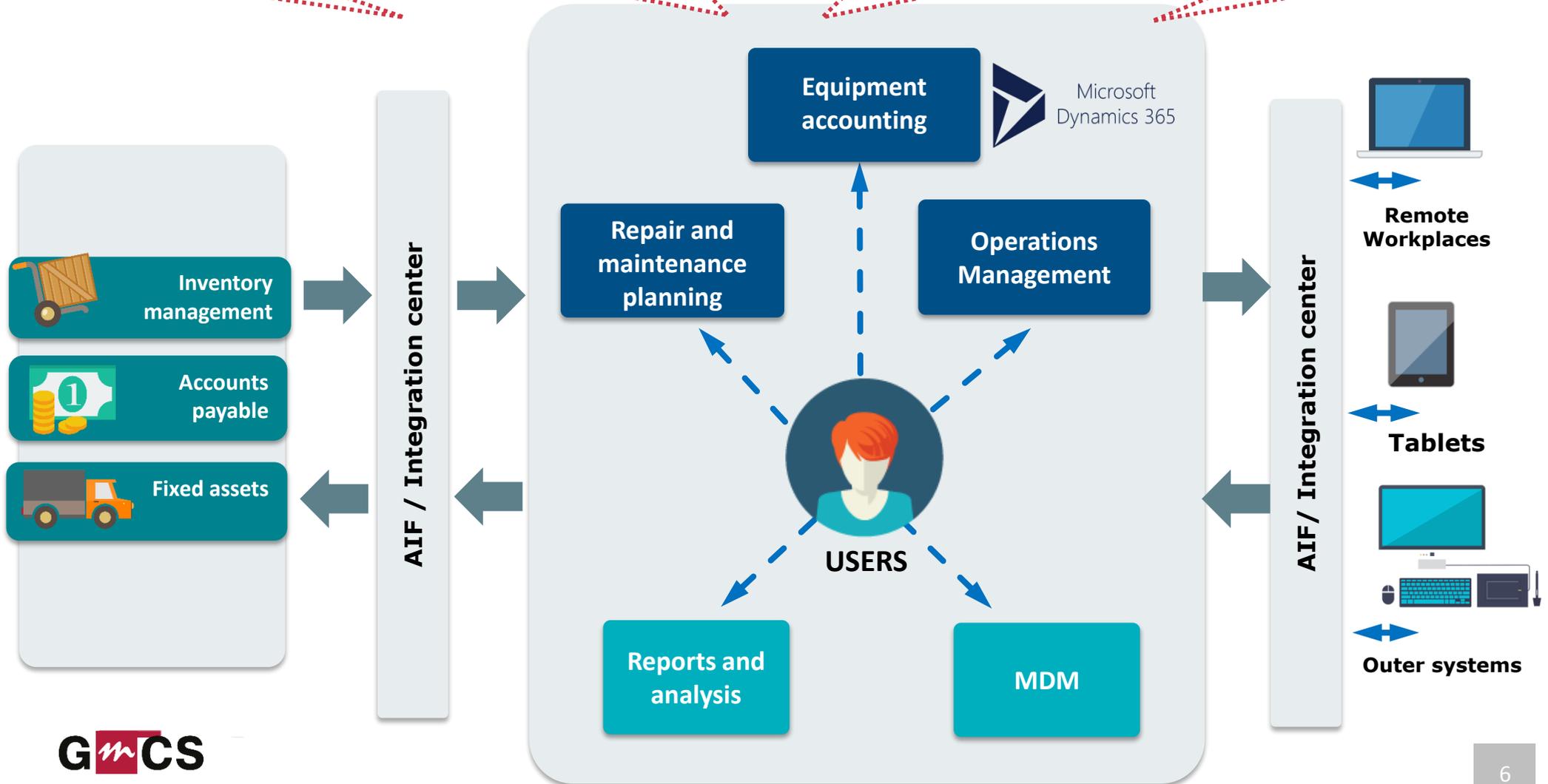
# Basic architecture

Simple integration with familiar Microsoft Office tools

Accessing information easier than before

Less training, faster adoption

Higher return on your investment



# GMCS EAM: an innovative way to change a workplace of repair service employee

- Making intermediate acceptance of works with the formation of intermediate analysis
- Plan vs. Actual analysis
- Calculation of costs for performed work by the economic method
- Interaction with contractors:
  - acceptance of works on the basis of performance acts
  - invoice generation
- Work with personnel records and staff list
- Accounting of availability and reservation of the materials used



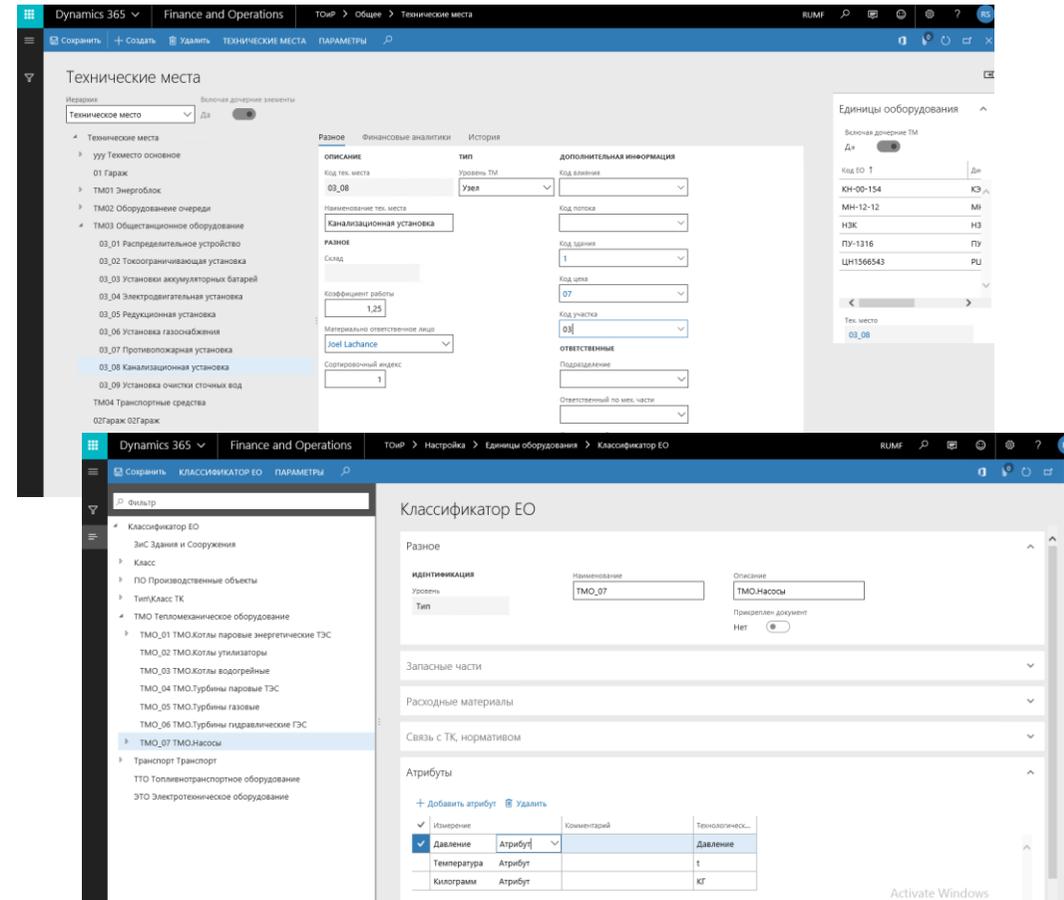
# Classification

## TECHNICAL PLACES

- The reference book includes:
  - ✓ organizational scheme
  - ✓ technological scheme
  - ✓ scheme of influence
- Metering devices (integration with automation control)
- Financial analytics (integration with financial model)
- Attached documentation

## UE QUALIFIER

- Hierarchical qualifier on classes, types, types and models of repair objects
- Flexible additional attributes depending on specifics
- Register of spare parts linked to UE qualifier



# Certification

## UNIFIED OBJECT CERTIFICATE

- Identity information
- Technical place and EO qualifier binding
- Operating time and installed spare parts information
- Controlled parameters to change the history
- Defects and performed works associated
- Attached documentation



GMCS provides an opportunity to perform object certification during the implementation of EAM solution

The screenshot shows the Dynamics 365 Finance and Operations interface for 'Единицы оборудования' (Equipment Units). The interface is split into two panes. The left pane shows a hierarchy of equipment units, and the right pane shows a table of equipment units.

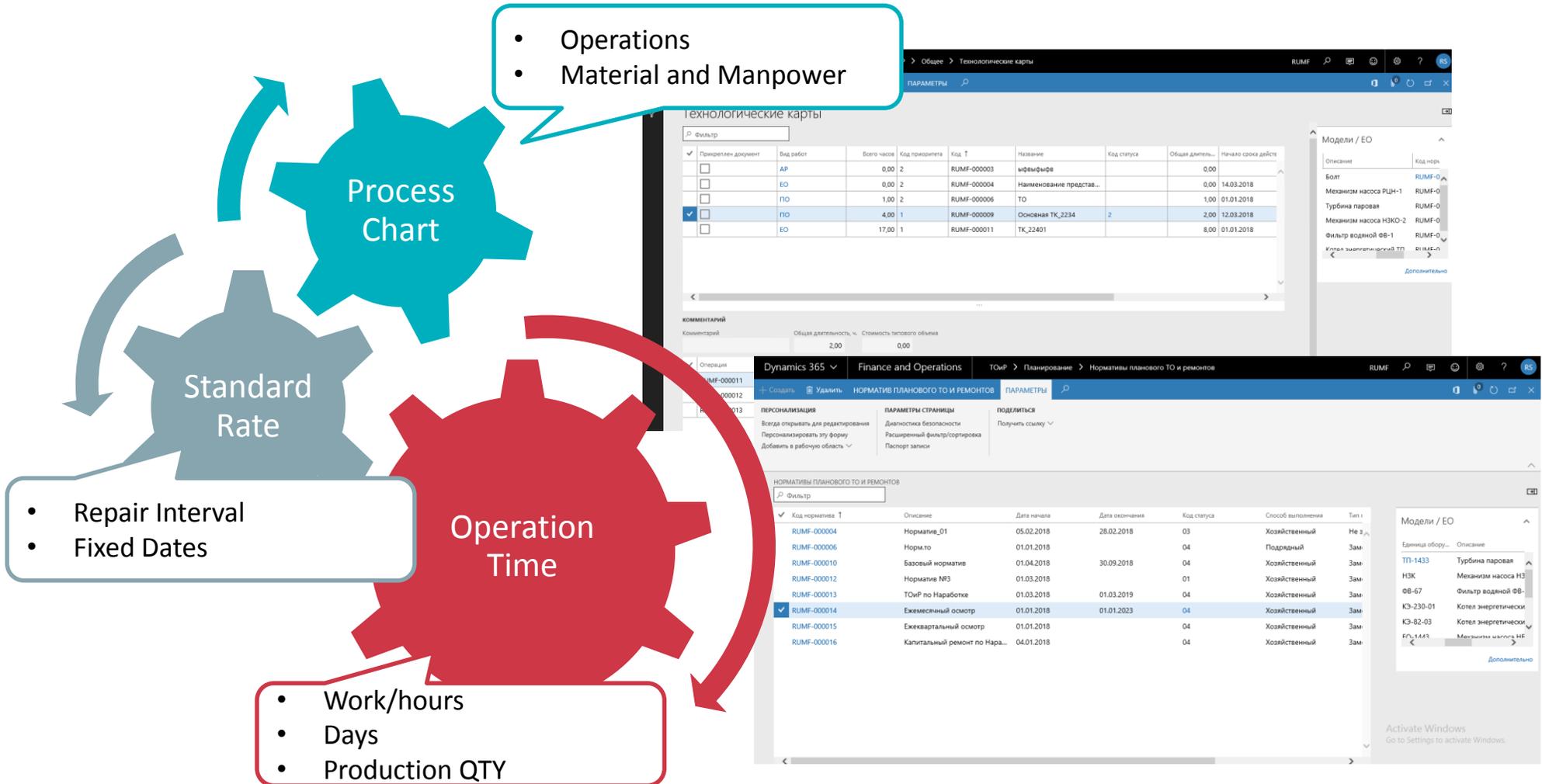
**Table 1: Equipment Units (Top Pane)**

Прикреплен до...	Код статуса	Код EO ↑	Описание EO	Диспетчерское наименование	Тех. место
01	01	КЭ-230-01	Котел энергетический ТП-230-...	КА-4	ТМ01
01	01	КЭ-230-02	Котел энергетический ТП-230-...	КА-6	ТМ01
01	01	КЭ-230-03	Котел энергетический ТП-230-...	КА-8	ТМ01
01	01	КЭ-230-04	Котел энергетический ТП-230-...	КА-10	ТМ01
01	01	КЭ-230-05	Котел энергетический ТП-230-...	КА-9	ТМ01

**Table 2: Equipment Units (Bottom Pane)**

Код EO ↑	Описание EO	Диспетчерское наименование	Тип EO	Состояние
КН-00-154	Механизм насоса КЭН-10	КЭН44	Оборудование	В работе
МН-12-12	Механизм насоса МНС	МНС-12	Оборудование	В работе
НЗК	Механизм насоса НЗКО-2	НЗКО	Оборудование	В ремонте
ПУ-1316	Механизм насоса ПУ	ПУ-3	Оборудование	В работе
ЦН1566543	Механизм насоса РЦН-1	РЦН_ЦН88	Оборудование	На Осмотре

# Rationing and Flow Charts



# Planning

## SCHEDULED WORK ORDERS FOR MAINTENANCE AND REPAIR:

### Scheduled operations:

- Technical service provided by manufacturer
- Routine maintenance, capital repair
- Monthly inspection

### Condition-based, constant and periodic monitoring:

- Defect list
- Deviations of controlled parameters
- Operator's comments

### On demand, after failure:

- Emergency
- Breakdown

The screenshot displays the Dynamics 365 Finance and Operations Planning interface. The main table shows a list of plans with columns for Name, Description, Scenario, Model, Period Type, Duration, Start Date, and End Date. The selected plan is 'На год' (Yearly) with a duration of 12 years, starting on 01.03.2018 and ending on 28.02.2030. Below this, a table shows the status of the plan over time, with columns for Period Number, Start Date, End Date, Status, and Quantity. The status is 'Создано' (Created) for all periods. At the bottom, a list of work orders is shown, including items like 'КЗ-82-03' and 'МН-12-12', with their respective planning descriptions.

Название плана	Описание	Сценарий	Модель	Тип периода	Продолжительность периода	Дата начала	Дата окончания
Год_2	Год_2	Год		Год	1	01.01.2018	31.12.2018
КварталНовый		Квартал		Квартал	4	11.01.2018	10.01.2019
Май	Май	Год		Месяц	1	01.05.2018	31.05.2018
На год	12 лет	Год	ОСН	Год	12	01.03.2018	28.02.2030
План на квартал	1 квартал	Квартал	ОСН	Квартал	1	01.01.2018	31.03.2018
План на март	Март 2018	Месяц	ОСН	Месяц	2	01.03.2018	30.04.2018

Номер периода	Дата начала	Дата окончания	Код статуса	Количество пл...	Количество фа...
0		28.02.2018	Создано	0	0
1	01.03.2018	28.02.2019	Создано	33	1
2	01.03.2019	29.02.2020	Создано	0	0
3	01.03.2020	28.02.2021	Создано	0	0
4	01.03.2021	28.02.2022	Создано	0	0
5	01.03.2022	28.02.2023	Создано	0	0
6	01.03.2023	29.02.2024	Создано	0	0

Код	Описание	Планирование по ЕО
КЗ-82-03	Не найдено ни одного нормат...	Планирование по ЕО КЗ-82-03...
КЗ-82-04	Не найдено ни одного нормат...	Планирование по ЕО КЗ-82-04...
МН-12-12	Не найдено ни одного нормат...	Планирование по ЕО МН-12-1...
ПУ-1316	Не найдено ни одного нормат...	Планирование по ЕО ПУ-1316 ...

## PLANNING BOUNDARIES

- Requirements for material and labor resources
- Agreed schedule of maintenance and repair services
- Provision of necessary material and labor resources

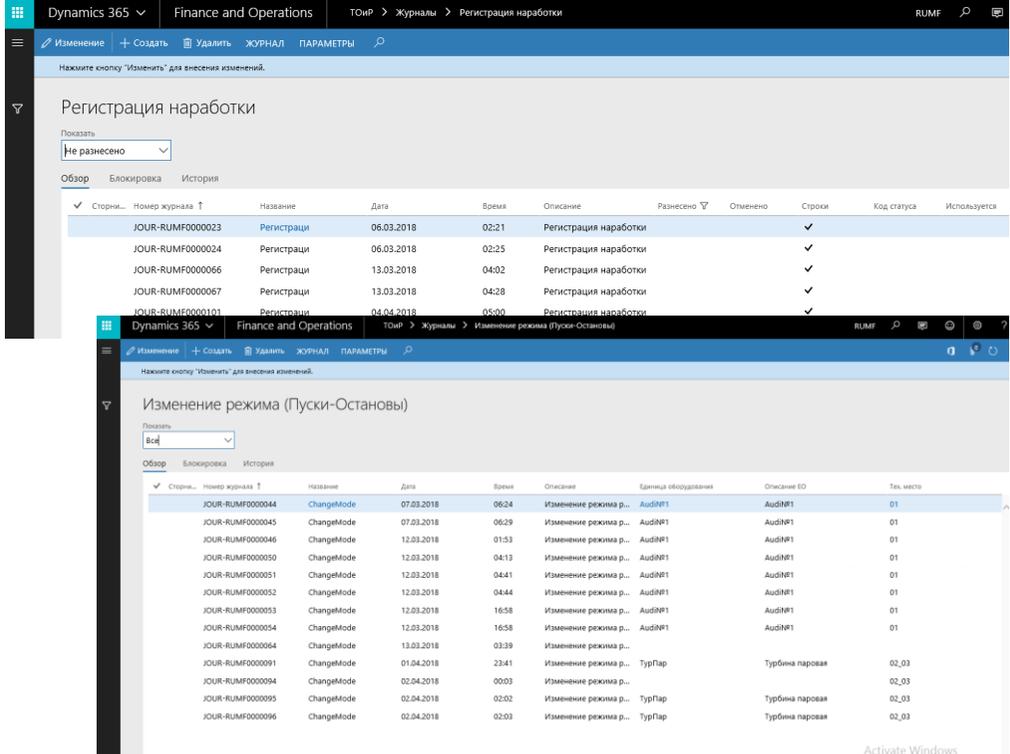
# Journals

## RECORD OF ACTUAL OPERATIONS:

 Preservation of history

## List of journals:

- Taking off parameters
- Defect registration
- Registration of operation time
- Acceptance of work performed
- Rescheduling of repair
- Start-up and shut-down of equipment
- Relocation of repair objects
- Changing of technical place hierarchy



The image displays two screenshots of the Dynamics 365 interface. The top screenshot shows the 'Регистрация наработки' (Registration of work) journal view. It includes a search bar, a 'Показать' (Show) dropdown set to 'Не разнесено', and a table with columns: 'Стороны', 'Номер журнала', 'Название', 'Дата', 'Время', 'Описание', 'Разнесено', 'Отменено', 'Строки', 'Код статуса', and 'Используется'. The table lists several entries for 'Регистрация' on 06.03.2018 and 13.03.2018.

The bottom screenshot shows the 'Изменение режима (Пуски-Остановы)' (Change mode (Starts-Stops)) journal view. It includes a search bar, a 'Показать' (Show) dropdown set to 'Все', and a table with columns: 'Стороны', 'Номер журнала', 'Название', 'Дата', 'Время', 'Описание', 'Единица оборудования', 'Описание EO', and 'Тех. место'. The table lists multiple entries for 'ChangeMode' from 07.03.2018 to 02.04.2018.

# Business Value of GMCS EAM



**Reduce the risks of unscheduled down time**, which leads to lost production, missed operating targets, non-compliance with health, safety and environmental regulations.



**Reliably plan and schedule maintenance** of your assets on time and on budget knowing that all necessary resources will be available 'just in time' according to your schedule.



**Achieve confidence in your maintenance budgets** and know precisely where your maintenance budget being spent.



**Ensure your equipment is in the best possible condition**, protecting your people and the environment.



**Provide unity between your finance and maintenance departments** with one version of the truth while keeping financials invisible to maintenance workers.



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