Dynamics 365 Integration Interface for IBM Maximo

- Synchronizing ERP master data
- Synchronizing technical assets
- Planning work execution and creating work orders
- Ordering materials and services
- Actual utilization of materials, work, tools and devices
- Financial cost of the performed work
- Asset decommissioning solution for professional services.

Dynamics 365 for Finance and Operations Integration Interface for Asset Management (AM) – IBM Maximo

The Dynamics 365 for Finance and Operations (D365 FO) enables simple integration of the processes for managing technical assets. Organizations, in which technical assets are a significant part of their operations (maintenance, construction, prevention, etc.), can use the integration interface to optimize and connect business processes between AM solutions and ERP system.
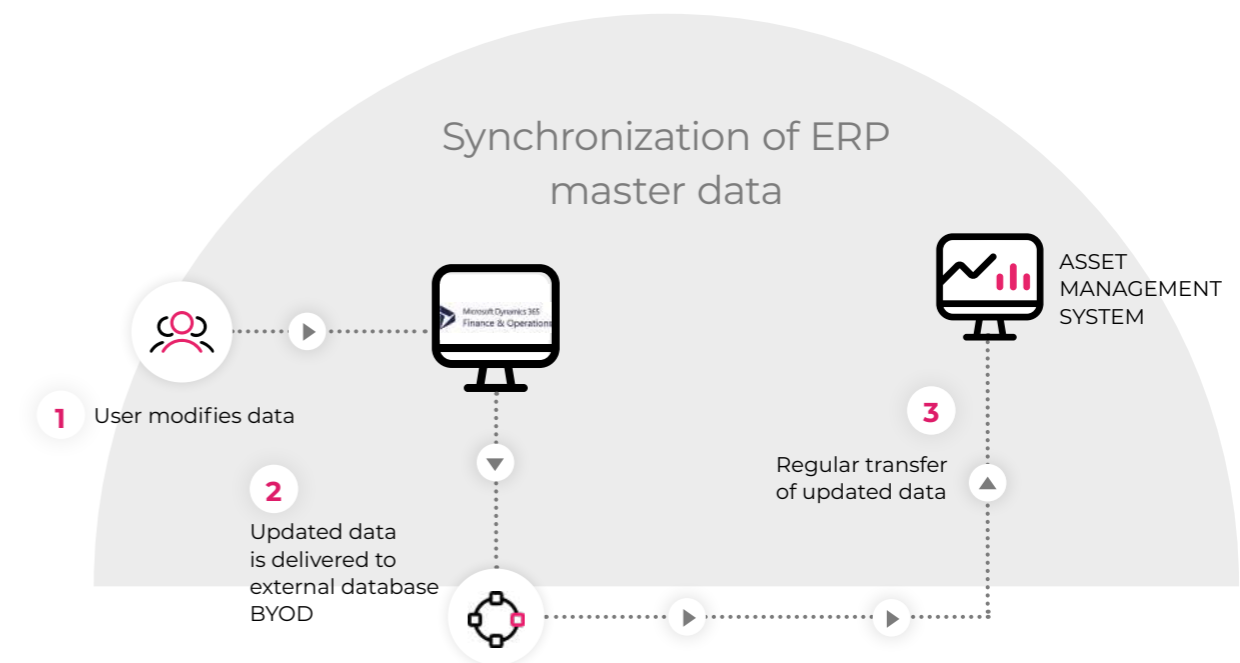
Dynamics 365 for Finance and Operations modules that support integration:

◊ Project management and accounting (investment/maintenance/market projects, project requirements for materials, project transactions)
◊ Inventory management (available stocks, material reservations, issuing and returning materials)
◊ Procurement (ordering materials and third-party services)
◊ Fixed assets (tracking asset value for bookkeeping purposes, write-offs)

Synchronizing ERP master data

One of the key requirements when integrating an ERP D365 FO system with an AM system is the synchronization of master data used by the company.

The synchronization of master data managed in D365 FO utilizes the Bring your own database (BYOD) approach. The native master data that is generated in the D365 FO system resides in a SQL database, where is regularly updated and always available to other system's needs. The master data primarily managed by D365 FO includes products (items) and inventory management code tables, human resource data, organizational structure, partners (buyers, suppliers), project-related code tables, fixed assets, etc.
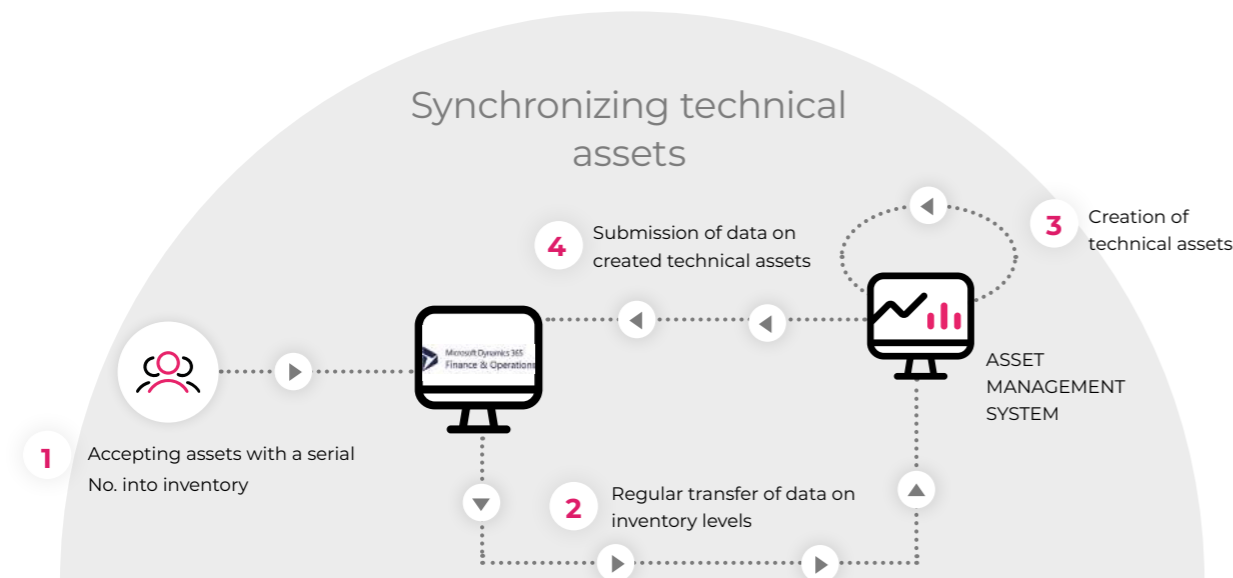

Synchronization of ERP master data

1 User modifies data

2 Updated data is delivered to external database BYOD

3 Regular transfer of updated data

ASSET MANAGEMENT SYSTEM

Synchronizing technical assets

The technical assets may be entered in the AM system as a result of:

◊ Warehouse registration of a bought item (non-infrastructure assets), as the serial number and other technical characteristics cannot be acquired before, or
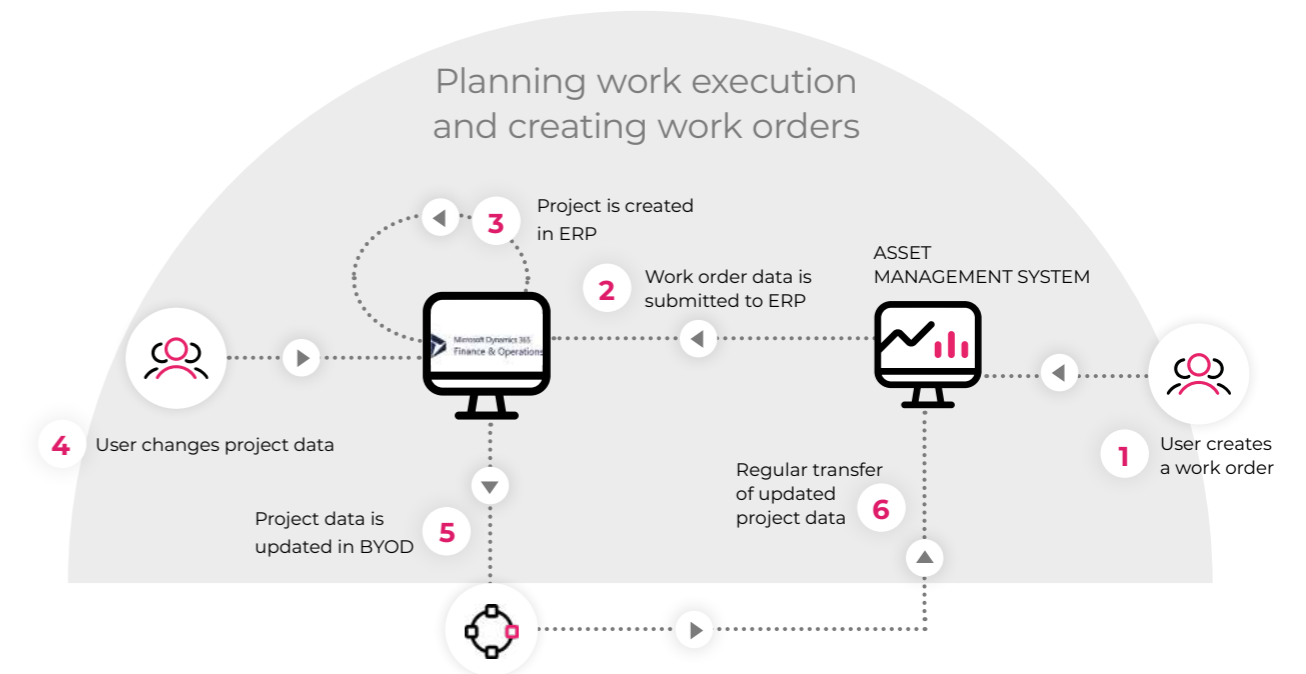◊ Designing and later building a physical object (infrastructural assets)

When procurement and warehouse acceptance processes take place in the D365 FO system, the D365 FO integration interface synchronizes inventory data with the AM system, based on which new technical assets can be entered in the AM system.

As a result, the users participating in the processes for investing and maintaining assets in the D365 FO system, need the ability to use the data about technical assets created in the AM system. Therefore, the D365 FO integration interface enables the synchronization of the basic technical asset data between the AM system and D365 FO.

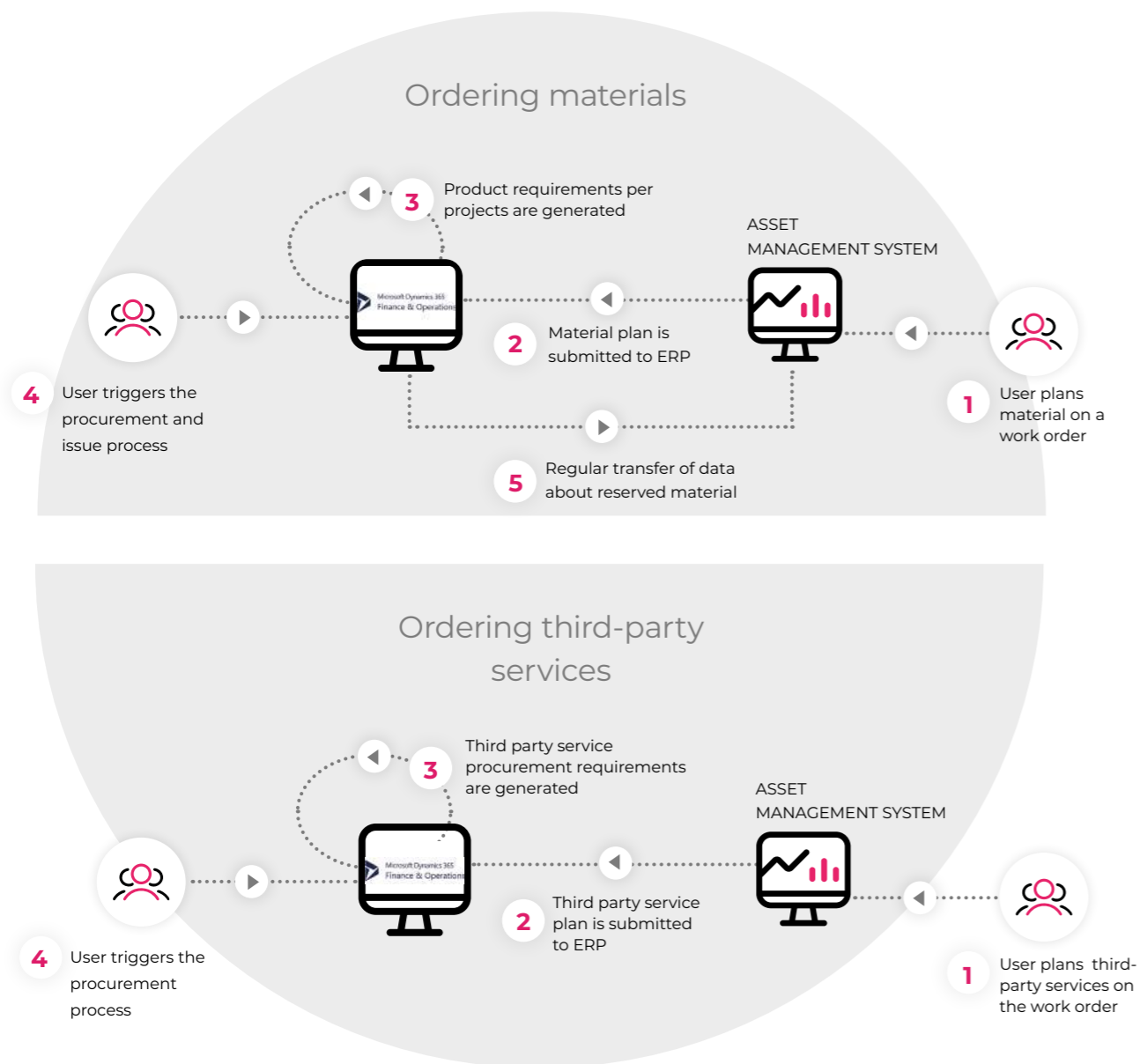# Planning work execution and creating work orders

The users who plan the execution of work in the AM system must create work orders by using master data about employees, organizational structure, buyers and suppliers as well as products and their prices. The D365 FO system integration interface allows companies to transfer work orders in D365 FO system as individual projects in the Project management and accounting module.

Synchronizing technical assets

4 Submission of data on created technical assets
3 Creation of technical assets
ASSET MANAGEMENT SYSTEM
Microsoft Dynamics 365 Finance & Operations
1 Accepting assets with a serial No. into inventory
2 Regular transfer of data on inventory levels

Planning work execution and creating work orders

3 Project is created in ERP
2 Work order data is submitted to ERP
ASSET MANAGEMENT SYSTEM
Microsoft Dynamics 365 Finance & Operations
4 User changes project data
Project data is updated in BYOD 5
Regular transfer of updated project data 6
1 User creates a work order

Ordering materials and services

Orders of materials and third-party services that make up the work order data must be processed as a part of procurement and inventory management procedures. When these processes are primarily carried out in the AX system, it is necessary to integrate the service and material ordering processes between D365 FO system and the AM system.
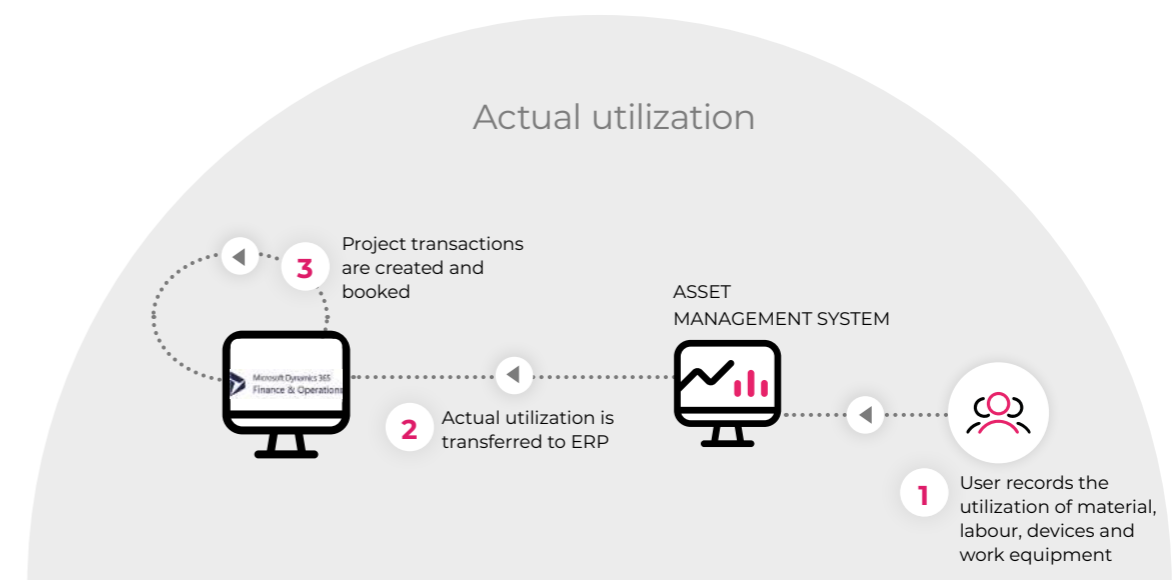
The integration includes several stages: accepting orders in D365 FO system, fulfilling orders by creating relevant procurement or issue documents, reserving materials in stock, generating feedback about the availability of the ordered materials or services.

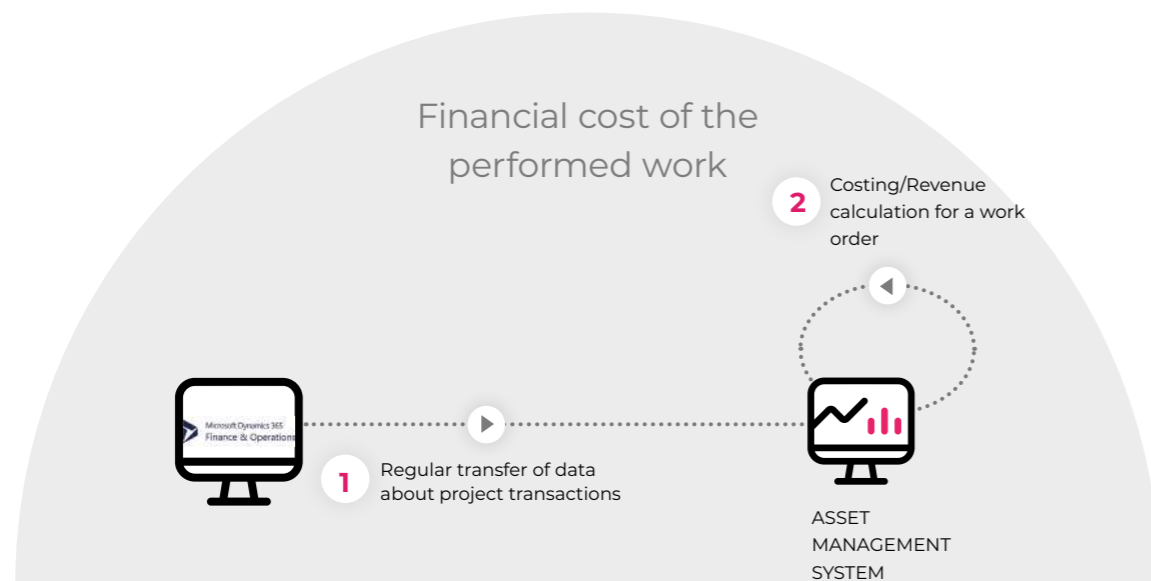# Actual utilization of materials, work, tools and devices

The actual utilization of resources (materials, performed labour, tools and devices) must be shown in the company's financial records, which are most often managed within the ERP system. The D365 FO system integration interface allows companies to receive and manage actual utilization recorded on the work order by the type of resource, which is included in the utilization.

The result of the actual utilization recorded on the work order is visible in D365 FO system in the form of project transactions carried out on the project and in the form of general ledger transactions that affect the financial flows in the balance statement or other financial statements of the company.

Ordering materials

3 Product requirements per projects are generated

ASSET MANAGEMENT SYSTEM

2 Material plan is submitted to ERP

1 User plans material on a work order

4 User triggers the procurement and issue process

5 Regular transfer of data about reserved material

Ordering third-party services

3 Third party service procurement requirements are generated

ASSET MANAGEMENT SYSTEM

2 Third party service plan is submitted to ERP

1 User plans third-party services on the work order

4 User triggers the procurement process

Actual utilization

3 Project transactions are created and booked

ASSET MANAGEMENT SYSTEM

2 Actual utilization is transferred to ERP

1 User records the utilization of material, labour, devices and work equipment
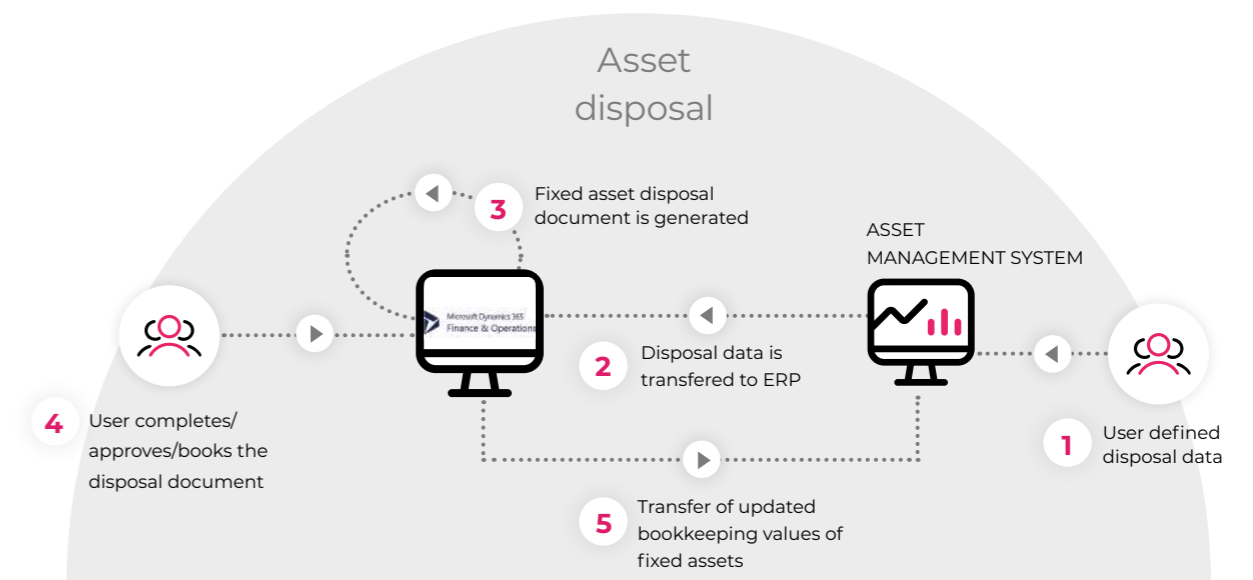
Financial cost of the performed work

The entire financial cost of the performed work, which is recorded in the D365 FO system on a project in the form of project transactions, can be synchronized with the AM system. The D365 FO system integration interface enables the sharing of individual data on recorded project transactions, which represent the information about project expenses and income and can be the basis for work order costing in the AM system.

Asset disposal

When an asset is disposed on the site, the user must have the ability to register the disposal off the asset in bookkeeping records. When the disposal document is created in the AM system, it must be appropriately recorded within ERP bookkeeping records as well. The D365 FO system integration interface allows the capturing of data about disposals when they are created in the AM system. Based on the data received, a disposal entry is created in D365 FO system, which is then processed in accordance with the established procedure (review and approval of the disposal, entry and updating of bookkeeping records).

Financial cost of the performed work

2 Costing/Revenue calculation for a work order

1 Regular transfer of data about project transactions

ASSET MANAGEMENT SYSTEM

Asset disposal

3 Fixed asset disposal document is generated

ASSET MANAGEMENT SYSTEM

2 Disposal data is transfered to ERP

4 User completes/ approves/books the disposal document

5 Transfer of updated bookkeeping values of fixed assets

1 User defined disposal data

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