

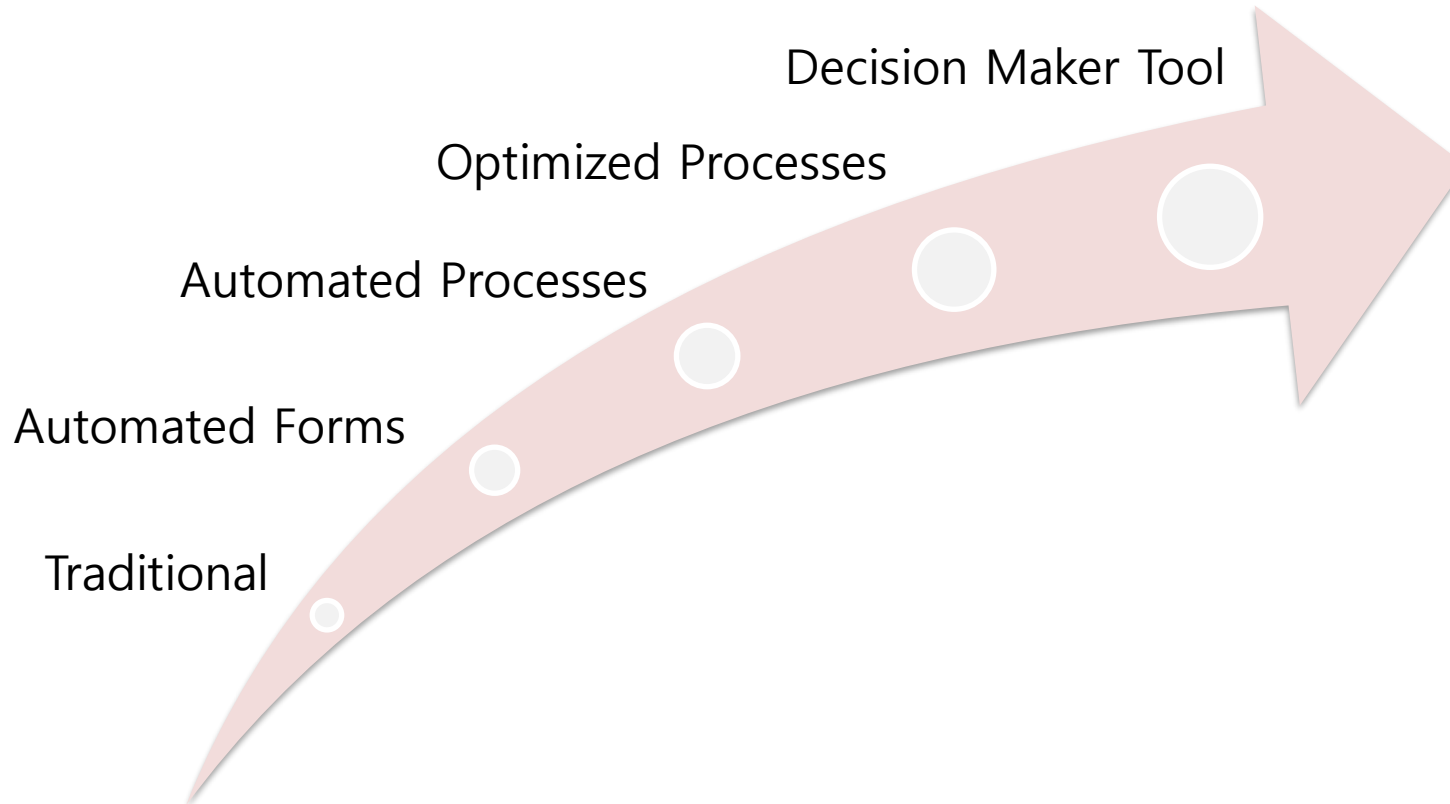
Enterprise Asset Management Systems

آشنایی با سیستم‌های مدیریت دارایی‌های سازمان

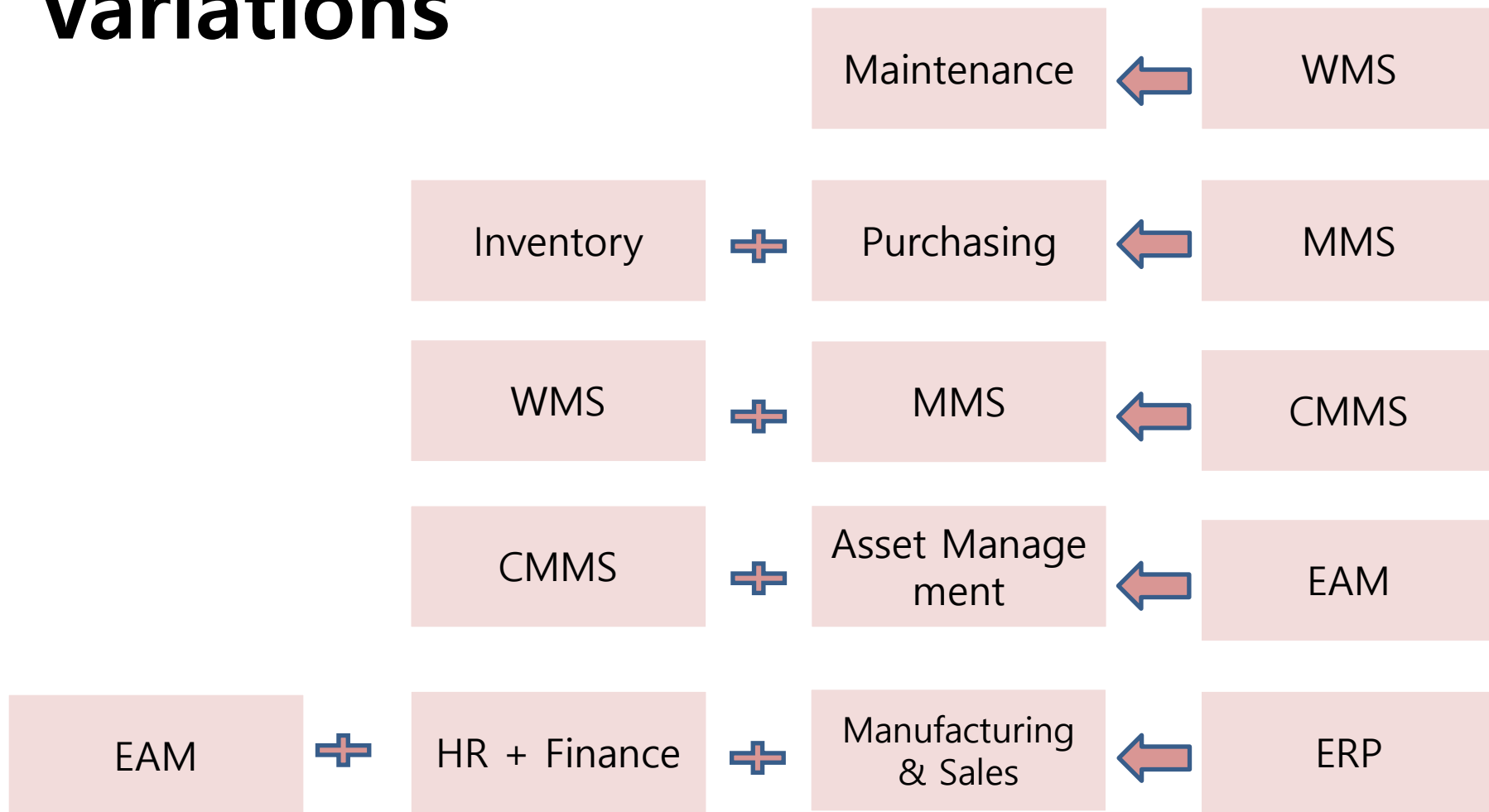
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Evolution



Variations



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CMMS Versus EAM:

There are not many meaningful differences between EAM and CMMS. But the following can be considered:

- Total life cycle asset information
- Asset scope
- User scope
- Stakeholders portal
- Regulatory risks



EAM Market Growth:

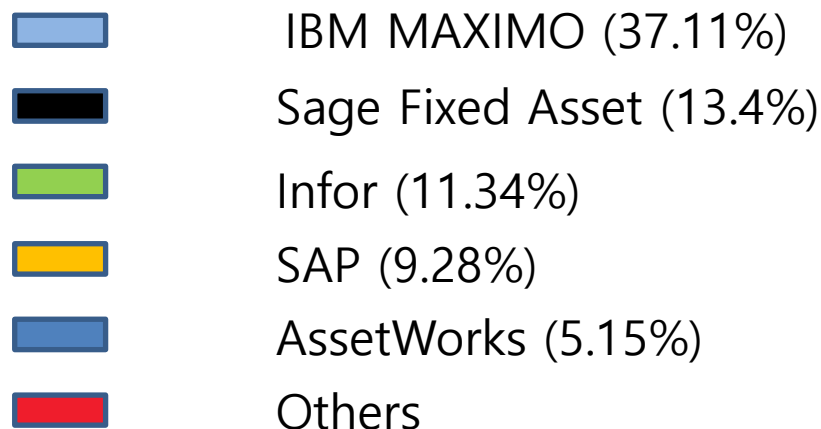
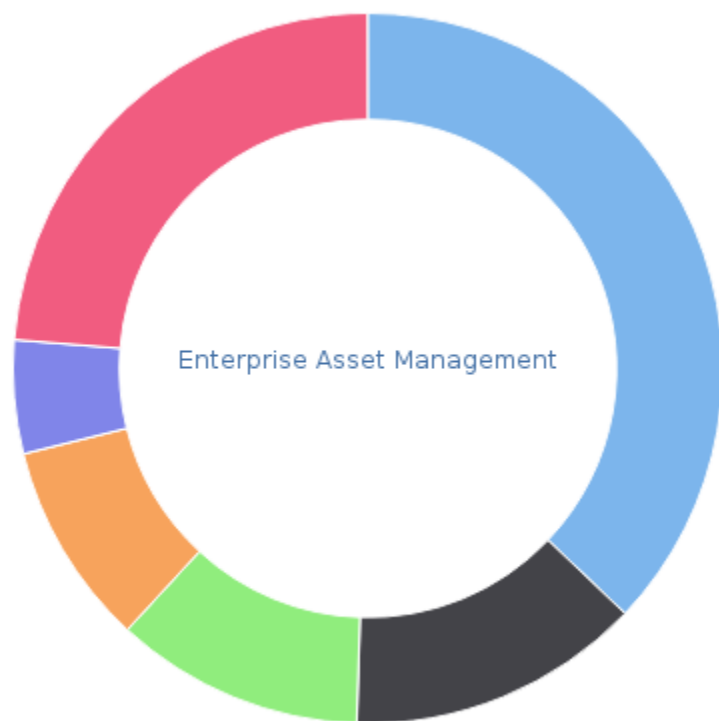


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EAM Market Share (2017):

6,482 Companies using EAM



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EAM Vendors Types:

1. EAM Suites

2. EAM-focused ERP

3. ERP

- Recommendations:

- If you require basic EAM support and have a major ERP
 - Look to the ERP to see if it can do what you need (You likely have already paid for the license)
- Larger asset based enterprises should consider best of breed EAM Suite solutions
- Midmarket asset based users could consider EAM based ERP solutions



Classes of EAM application providers	Strengths	Weaknesses	Representative Vendors
EAM Suites	<ul style="list-style-type: none"> ▪ Advanced functionality, ▪ Ease of use, ▪ Domain specific content 	<ul style="list-style-type: none"> ▪ Applications require integration to ERP systems 	<ul style="list-style-type: none"> ▪ Infor ▪ Avantis, ▪ Indus, ▪ MRO
EAM-focused ERP	<ul style="list-style-type: none"> ▪ Advanced EAM features, ▪ Ease of use, ▪ Functional integration to ERP 	<ul style="list-style-type: none"> ▪ Lack of breadth of large ERP packages ▪ Constrained to mid-market 	<ul style="list-style-type: none"> ▪ IFS, ▪ Intentia, ▪ Mincom
ERP	<ul style="list-style-type: none"> ▪ Superior data integration ▪ Lags on functional integration 	<ul style="list-style-type: none"> ▪ Lesser depth of EAM or industry specific functionality ▪ Less ease of use 	<ul style="list-style-type: none"> ▪ SAP, ▪ Oracle, ▪ PeopleSoft

Core EAM Functional Components	Advanced EAM Functional Components	Integrated EAM Processes
Equipment and Asset Information Management and Inventory Management	Condition-based Maintenance	Financial and payment systems
Maintenance Supervision and Execution	Reliability-Centered Maintenance	Supply Chain advanced planning
Preventive Maintenance Scheduling and Emergency Breakdown Management	Integrated Maintenance and Production Scheduling	Data Mining
Maintenance-Orient Analytics and KPIs	Support for Providers of Outsourced Maintenance Services and service Lifecycle Management	Mobility solutions
Mobile Asset Management	Strategic Sourcing	
Management of 3 rd Party Maintenance Services	Advanced Asset Performance Management and Operational Risk Analysis	
	Asset Lifecycle Management	

EAM/CMMS Failures

- 60% failed to generate an expected ROI on CMMS implementation
- Only 21% consider their CMMS implementation a success
- What is clear is that most companies have failed to generate the productivity they sought as a result of implementing a CMMS

Appropriate Selecting

Do not forget to justify

- Establish a Team
- Problem Analysis
- Determine Objectives, Features and Benefits
- Financial Analysis
- Set up KPIs



Appropriate Selecting

Be Sure About Integration

- Maintenance
- Inventory
- Purchasing
- Financial
- Human Resource
- Online Monitoring
- Dashboard



Appropriate Selecting

Specify the Strategy

- In-House Development
- Purchase Ready-Made Software



Appropriate Selecting

Use a Step-by-Step Process

- Establish a Team
- Determine the Objectives
- Develop the System Specification (RFP)
- Search for Vendors
- Primary Assessment
- Final Comparison

Effective Implementation

Use a Step-by-Step Process

- Establish a Team
- Prepare for change
- Order Software/Hardware
- Scope of Project
- Planning
- Installation and Configuration
- Training
- Data Gathering
- Data Entry
- Monitoring

Effective Implementation

Handling Barriers

Lack of Management
Commitment

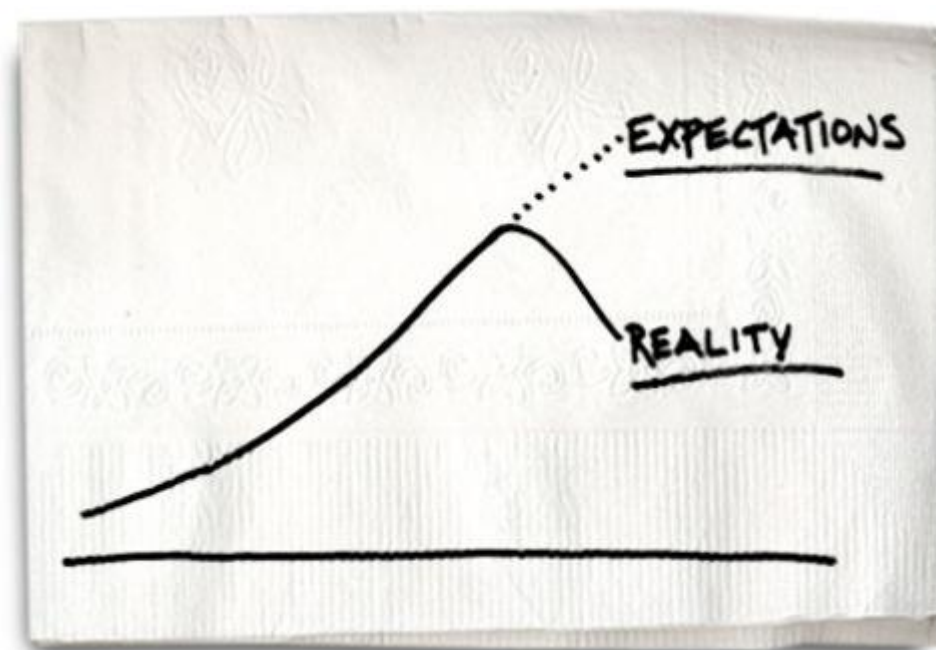




Effective Implementation

Handling Barriers

Wrong Expectation



Effective Implementation

Handling Barriers

Employee Resistance



Effective Implementation

Handling Barriers

Setting Unreasonable
Objectives



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Effective Implementation

Handling Barriers

Poor Training



Effective Implementation Handling Barriers

Non Adequate Budgeting





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