

Across Time and Technology:

Understanding Trends in

Enterprise Information Systems

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Overview

- Introduction to EIS
- Advantages of trend technologies in EIS
- Challenges Faced in EIS Implementation
- Opinions
- Conclusions



Enterprise Information System (EIS)

DEFINITION

Integrated Information System that is capable of supporting the business process and functions of large organizations

INFORMATION SYSTEM

Collection of different components working together to collect, process, store and distribute data & information

WHY NEED EIS?

ISLANDS OF INFORMATIONS

- Multiple departments produce a large volume of data independently
- Each departments' information are isolated with each other
- problematic

CRITICAL DATA FROM LEGACY SYSTEMS

- old systems are being outdated (reach end-of-life)
- data is critical and treated as assets
- stored in data-warehouse and integrated with current system

WHY "INTEGRATED"

Generally a combination of one or more of the following systems:

- Enterprise Resource Planning (ERP)
- Customer Relationship Management (CRM)
- Supply Chain Management (SCM)
- Product Lifecycle Management (PLM)

BUSINESS PROCESS & FUNCTIONS

- Accounting & Finance
- Production & Manufacturing
- Marketing
- Human Resources
- Customer Support
- Logistics & Inventory

A set of one or more large scale Application-Softwares that can efficiently manage large volume of data and support business process.

Popular Software Applications for Enterprise System



SAP

ORACLE®
NETSUITE



Salesforce

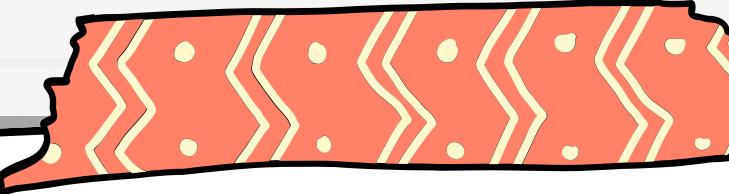


Datapine



Microsoft
Dynamics™

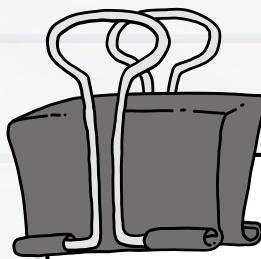
Microsoft Dynamics



Trends in EIS

- The **evolution of Information and Communication Technologies (ICT)** caters to **the growing demands for information integration** in manufacturing and service sectors.
- Technological developments, such as IR 4.0, play a crucial role in meeting the **requirements of global supply chains** by facilitating real-time information transmission, enhancing communication, and expediting decision-making.
- The adoption of modern technologies like **Internet of Things (IoT)**, **big data analytics**, and **artificial intelligence (AI)** transforms industrial procedures and supply chain management, facilitating data interchange, task automation, preventive maintenance, and increased productivity across various corporate operations.





Advantages of trend technologies in EIS



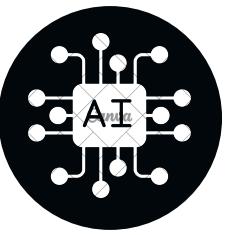
Internet of Things (IoT)

- enable improvements in user guidance across system and technology boundaries, automation of process steps
- frees up employees to focus on higher-value activities, leading to increased efficiency
- enables real-time access to data for further analysis



Cloud Computing

- providing scalable, affordable, dependable, secure, and agile infrastructure and services
- foster creativity, productivity, and competitiveness
- enables on-demand availability of computer system resources



Artificial Intelligence

- process large amounts of data quickly and efficiently, saving time and resources
- generate predictions and forecasts based on data collected, aiding in decision-making
- help visualize data in interactive and intuitive ways, such as charts, graphs, dashboards



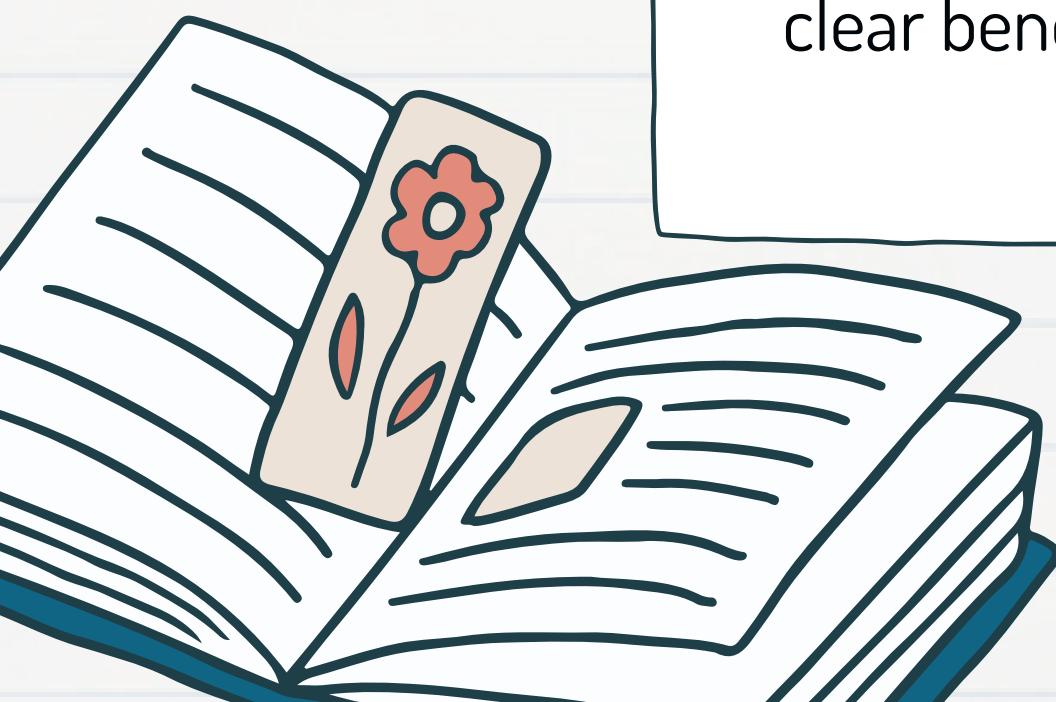
Challenges Faced in EIS Implementation

User resistance

Concerns about privacy, distrust in security measures, fear of data misuse, and afraid to adopt new systems without clear benefits or rewards.

Ensuring Useful Information

Poor data quality, including inaccuracies and incompleteness, can affect the reliability and usefulness of information provided by business systems.



Challenges Faced in EIS Implementation

Inappropriate Learning Method

Often lacks updates on new technologies and focuses heavily on theory, neglecting practical experience.

Organizational heterogeneity

Technical level: Can be seen in hardware, software, and infrastructure used in the design and implementation of EIS
Conceptual level: Refers to data models tailored to different departments' requirements



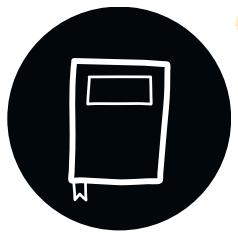


Opinion



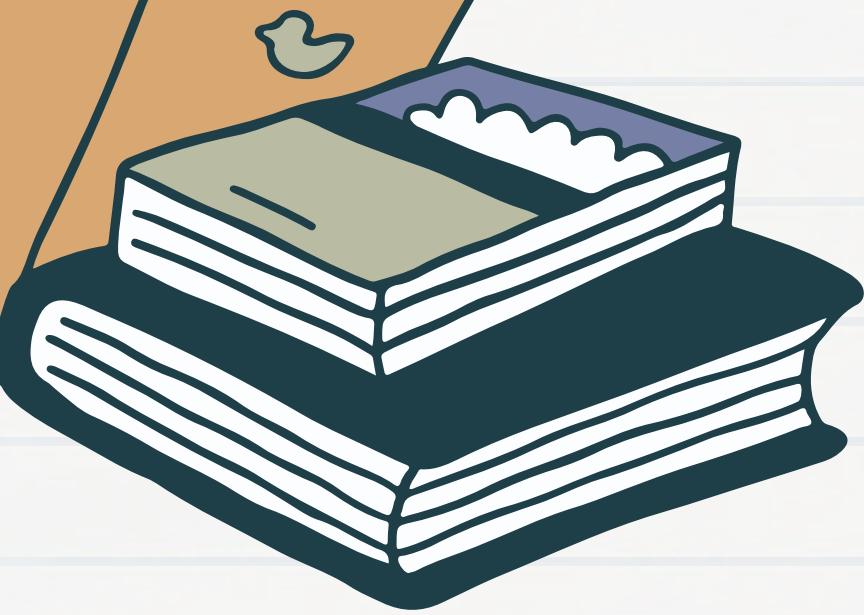
Impact of Technological Advancements on EIS

- Integration and interoperability within EISs are made easier and more flexible
- Enabling efficient data interchange and communication across different applications and systems



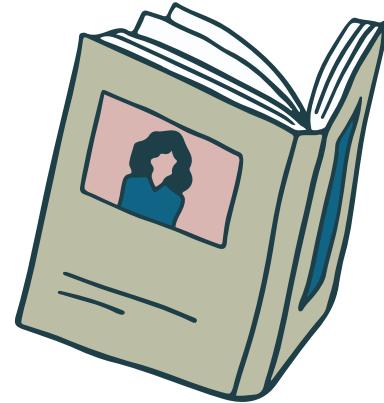
Challenges and Solutions

- **Security and compliance** - Emerging technological advancements provide ways to protect confidential data
- **Information overload** - Prioritize relevant or important data and provide simple data presentation interface



Conclusions

01



Technological advancements offer significant potential to enhance EIS

02



It's important to evaluate if it helps to revenue growth and cost reduction

03



Important to think about how well it fits with the organization's plans, costs, and long-term sustainability



Thank You

