PROJECT MANAGEMENT TECHNOLOGY IN ORGANIZATIONS

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INFORMATION COMMUNICATION TECHNOLOGY

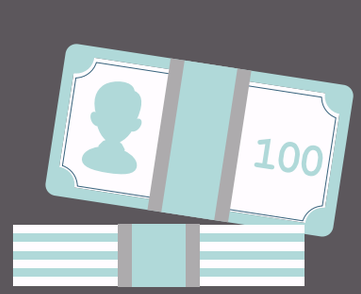
- The World Bank definition of information communication technology: “Consists of the hardware, software, networks, and media for the collection, storage, processing, transmission and presentation of information (voice, data, text, images), as well as related services.”

ICT IN ORGANIZATIONS

- Purpose is to solve a problem or server a purpose.
- Current problems in organizations.
  - Stay competitive by developing products and services at a faster rate.
  - Need to meet deadlines and stay on budget.

PROBLEM IN ORGANIZATIONS

- Over 50 per cent of the projects fail to stay on budget, on time, or have full functionality. (Bouwman, 2005)



ON BUDGET

+

ON TIME

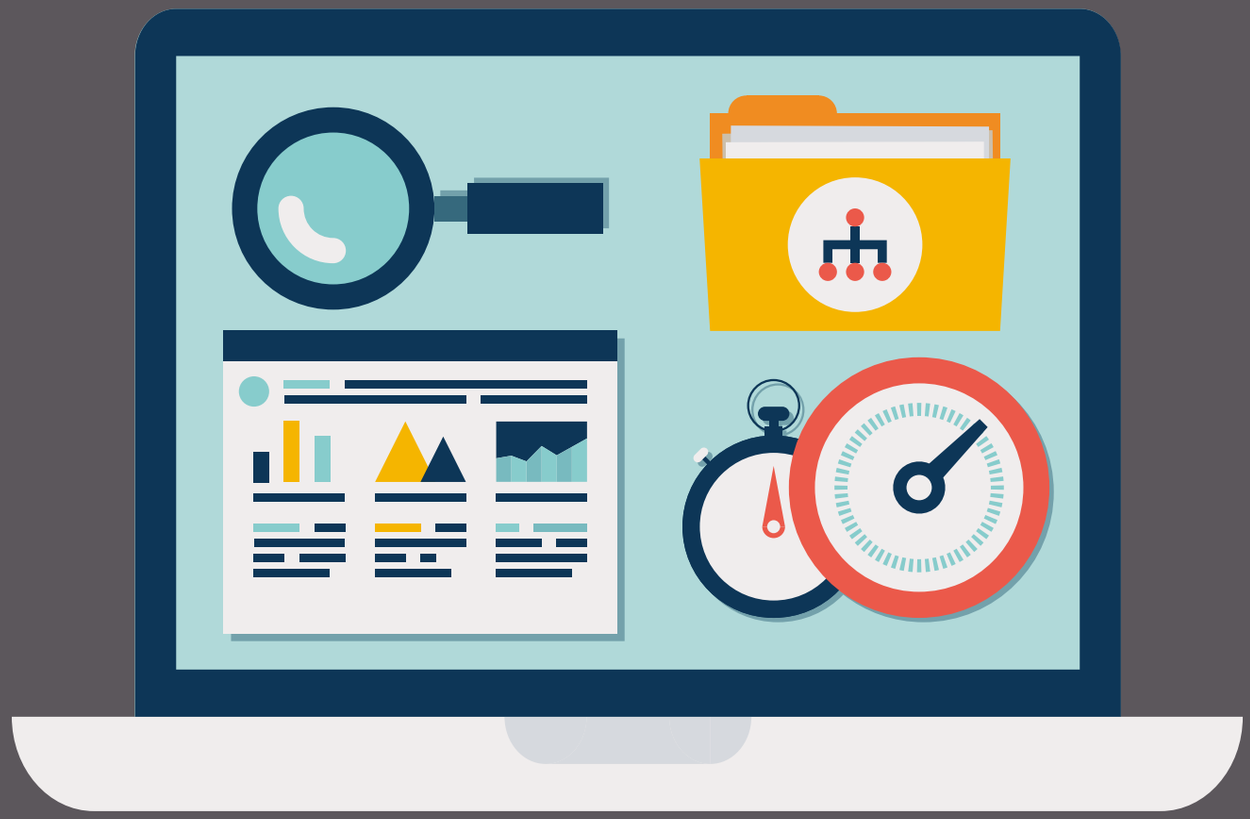
+

FULL FUNCTION

= SUCCESS

PROBLEM IN ORGANIZATIONS

PROPOSED SOLUTION:
PROJECT MANAGEMENT TECHNOLOGY



HISTORY OF PROJECT MANAGEMENT

2600 BC - Egyptian Pyramids

1950 - Mathematical Models

1990 - Software

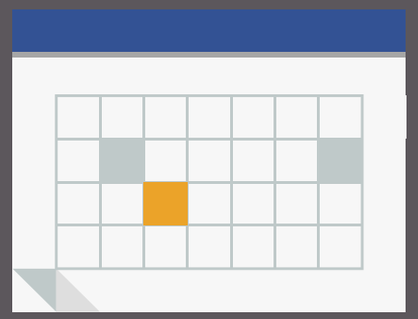
WHAT IS PROJECT MANAGEMENT TECHNOLOGY

- Application that handles one element of daily project management. (data backup or an email client)

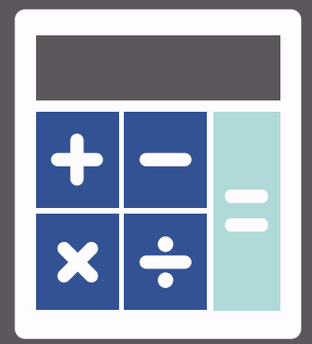
OR

- Complete project management platform.

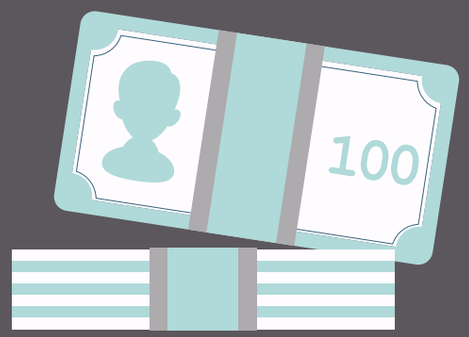
WHAT IS PROJECT MANAGEMENT TECHNOLOGY



SCHEDULING



COST ESTIMATES



BUDGET

DOCUMENTATION

WHAT IS PROJECT MANAGEMENT TECHNOLOGY

- Over 150 different software options.
- Wikapedia “Project Management Software Comparison”

Software	Collaborative software	Issue tracking system	Scheduling	Project Portfolio Management	Resource Management	Document Management	Workflow system	Reporting and Analyses
10,000ft	Yes	No	Yes	Yes	Yes	No	Yes	Yes
2-plan	Yes	No	Yes[18]	Yes	Yes	Yes	Yes	Yes
24SevenOffice	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AceProject	Yes	No	Yes	No	Yes	Yes	No	Yes
Anyplan	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Apache Bloodhound	Yes	Yes	No	No	No	No	Yes	No
Apollo	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Asana	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
AtTask	Yes	Yes[4]	Yes[4]	Yes[4]	Yes	Yes	Yes	Yes
Axosoft	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Basecamp	Yes[19]	No	No	No	Yes[4]	Yes	No	No
Binfire	Yes	No	No	Yes	Yes	Yes	Yes	No
Bontq	Yes	Yes	Yes	Yes	No	Yes	No	No
Brightpod	Yes	No	Yes	Yes	No	Yes	Yes	Yes

HYBRID COMMUNICATION MODEL

(SCHLOUGH, 2014)

NOISE

DESIGN/ SOURCE

ENCODING

TRANSMITTING

SIGNAL

RECEIVING

DECODING

UNDERSTANDING/ DESTINATION

STORING

RETRIEVING

DATABASE STORAGE

CLOUD STORAGE

FEEDBACK

HYBRID COMMUNICATION MODEL

(SCHLOUGH, 2014)

DESIGN/
SOURCE

UNDERSTANDING/
DESTINATION

- Internal and external stakeholders.
- For example employees and internal or external clients.

HYBRID COMMUNICATION MODEL

(SCHLOUGH, 2014)

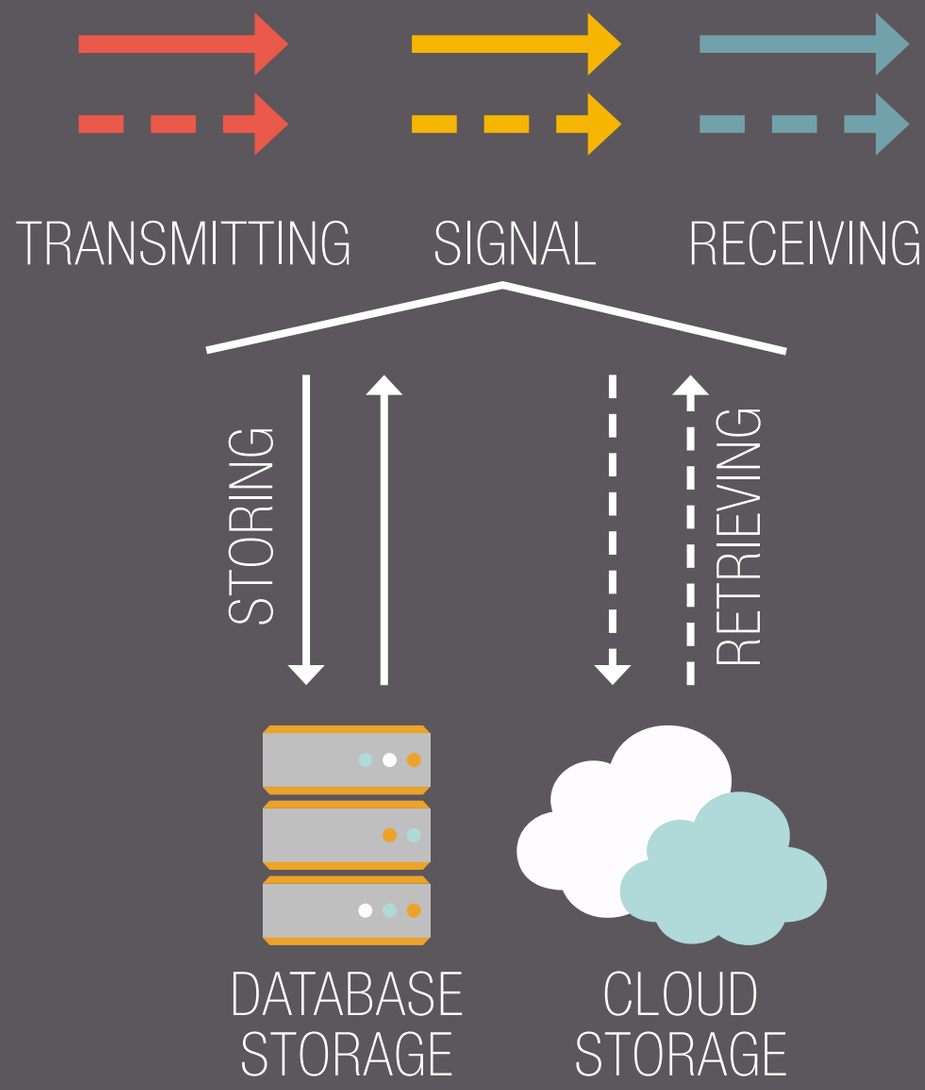
ENCODING

DECODING

- Project management user interface
- Encode or decode data; documents or notes

HYBRID COMMUNICATION MODEL

(SCHLOUGH, 2014)



- Data is transmitted/ received by internal network if using an internal self-hosted database for storage.
- Or the Internet if using cloud based storage technology.

HYBRID COMMUNICATION MODEL

(SCHLOUGH, 2014)

/ / / / / / / / / / / / / / / / NOISE / / / / / / / / / / / / / / / / /

- Noise can including technology failures and user error.
- A sign of a good project management technology is a lack of noise and an increase in understanding.

FUTURE OF PROJECT MANAGEMENT TECHNOLOGY

- Collaboration in the cloud.
- More integrated collaboration of project management tools.
- Support for mobile phone, tablets and touchscreens

(Harrin, 2012)

FUTURE OF PROJECT MANAGEMENT TECHNOLOGY

- Greater support and growth of teams working across different physical locations.
- "...access talent across the state, country, and world without relying entirely on co-location." (Makar, 2013)

IMPACT ANALYSIS

- Positive impacts on the economy.
- “90% of respondents say project management is either critical (47%) or somewhat important (43%) to their ability to deliver successful projects and remain competitive. (Economist Intelligence Unit, 2009)

IMPACT ANALYSIS

- Positive impact on the environment.
- Project management technology supports working from home.
- Not driving to work one day a week saves between 1,300 and 2,600 pounds of CO2 a year. (Work from home: boost the environment.. and your wallet, 2012)

IMPACT ANALYSIS

- Negative impact on the environment.
- The hardware needed and energy used to support the project management technology.
- Life Cycle Assessment would need to be done to accurately understand the positive and negative impacts.

IMPACT ANALYSIS

- Negative impact on social interactions.
- Encourages electronic communication, which can negatively effect social interaction.
- Enables a lack of work/life balance.
- Client interactions lack personalization and attention making it hard to create a great customer experience.

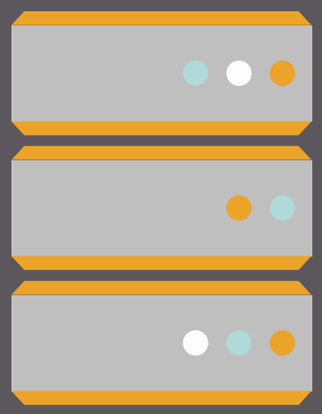
IMPLEMENTING PROJECT MANAGEMENT TECHNOLOGY

- The first step to implementation is to receive sufficient buy-in with clear leadership and support. (5 Pitfalls of Project Management Software Implementation)

- Examples could be making a project management system part of the companies strategic plan or creating a committee to manage the project.

IMPLEMENTING PROJECT MANAGEMENT TECHNOLOGY

- Decide between a hosted on-premise solution or a web/ cloud based solutions.

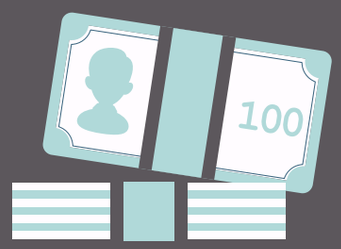


DATABASE STORAGE

CLOUD STORAGE

IMPLEMENTING PROJECT MANAGEMENT TECHNOLOGY

- Set a budget.
- Different software's have different fee structures like unlimited users, cost per user, storage fee's, etc.
- Typically project management software is either a one time cost for self-hosted solutions or per user for hosted solutions.



IMPLEMENTING PROJECT MANAGEMENT TECHNOLOGY

- Compile a list of desired functions.
- It is also important to prioritize these needs since there is most likely not a perfect solution.
- There are third party solutions that can sometimes be integrated with the choose software.

IMPLEMENTING PROJECT MANAGEMENT TECHNOLOGY

- Basic features can include:
  - Task management
  - Store and share documents
  - Integrated calendars and contacts
  - Time and budget tracking tools

IMPLEMENTING PROJECT MANAGEMENT TECHNOLOGY

- Almost all software options include a trial option, which can let potential users to test the waters.
- An important factor that cannot be sufficiently judged with research is usability.

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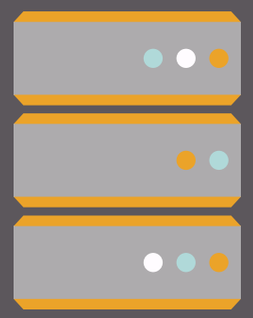
IMPLEMENTING PROJECT MANAGEMENT TECHNOLOGY

- Self-hosted applications are hosted on your company's servers and while there is greater control and customization, there is also the need to support and maintain that system. (Project Management Software)

- The initial cost of a self-hosted system can also by high and require the purchase of additional hardware. (Project Management Software)



IMPLEMENTING PROJECT MANAGEMENT TECHNOLOGY

- A cloud or web-base system is hosted online and maintained by the software provider
- Monthly expense can start at as little as $20 a month, but it is a long-term commitment. (Project Management Software)
- A draw back to this option is that it relies on a internet connection to function.