



PROJECT MANAGEMENT
CENTER FOR EXCELLENCE

A.J. CLARK SCHOOL OF ENGINEERING
Civil & Environmental Engineering Department



CHALLENGES IN CPM AS FACED BY MILLENNIALS IN EGYPT AS A DEVELOPING COUNTRY

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PMBOK 5th edition VS 6th edition

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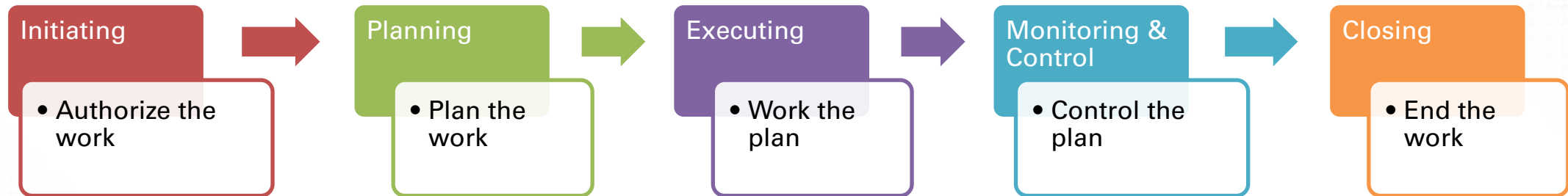
Mega Projects in Egypt

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Introduction:



Process Group is a logical grouping of activities, inputs, tools, techniques and outputs required for any type of project. Project management process groups are not project phases.

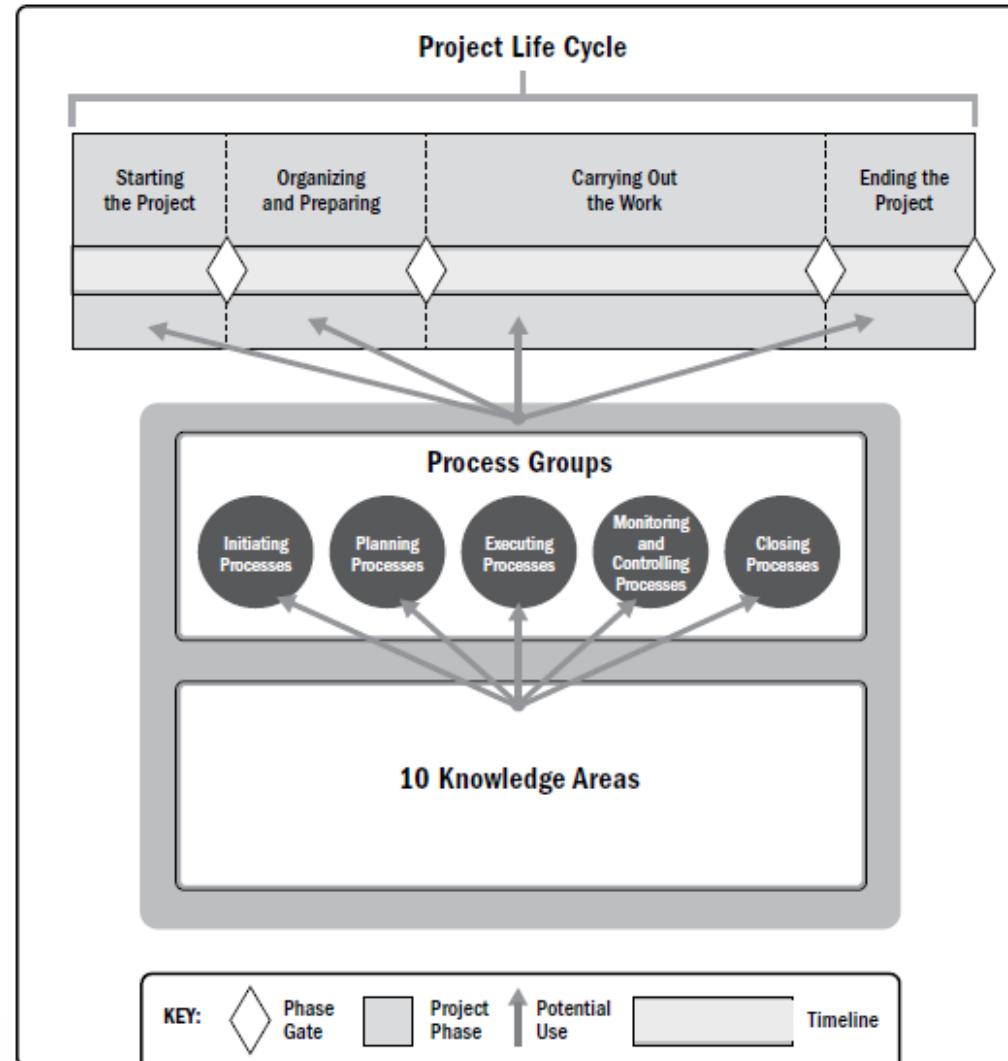
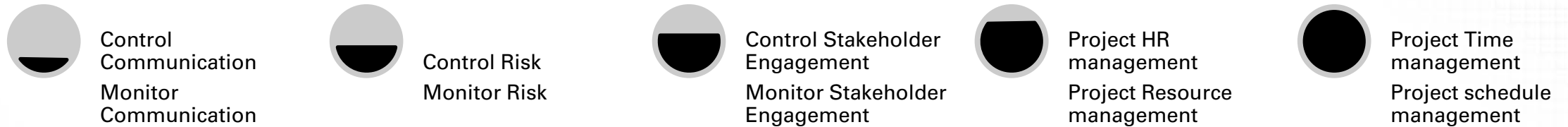


Figure 1-5. Interrelationship of *PMBOK*® Guide Key Components in Projects

Everything is changing

PMBOK 5th edition VS 6th edition



- Focusing more on adapting, facilitating and monitoring rather than controlling.
- The new lessons learned register is now part of the ITTOs
- Significant emphasize is given to Agile practices
- Tailoring guidelines and customizing framework
- New chapter for Project manager roles & responsibilities which are effectively aligned with the PMI talent triangle and current best practices.

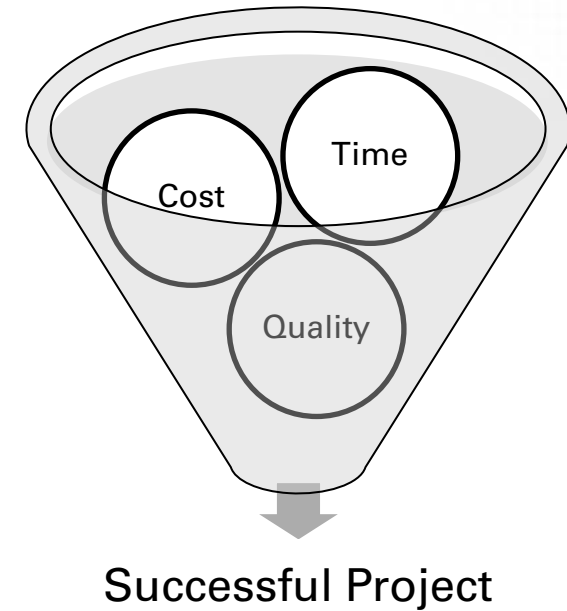
Everything is changing



Challenges

Time Cost Quality Triangle

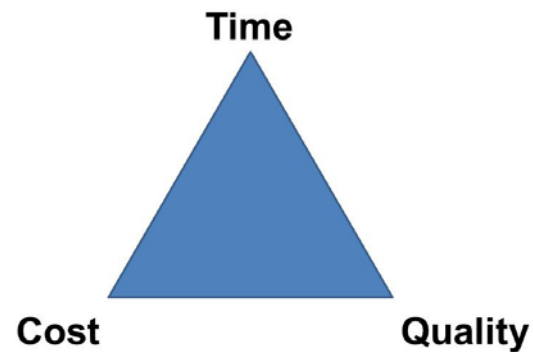
- Balance between these three major constraints; time, cost and quality.
- Investing money always risks either the quality or the project timeframe.
- Scope of work is not well defined or is changing frequently.



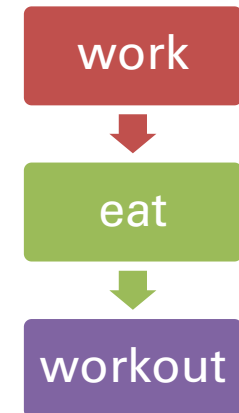
Challenges

Time Cost Quality Triangle

- Delivery date is set without previous planning or research. Accordingly, schedule management processes are reversed which leads to project crashing.



Daily life example





Mega Projects in Egypt

**Case
Studies**



Case Study #1: Tactic Village



Client: Ministry of Interior
Area: 8.4 km²
Start Date: 2010

Location: 6 of October City

Completion Date: December 2017

Project Brief:

On End of November 2014, it was announced that all the village will be submitted in 6 months.

Challenges:

Scope was changing every time the contact person change at the ministry of interior.

You had to adapt on the submission date that was announced on TV in an interview with the minister

Asphalt item was totally forgotten that was about 6 Million EGP to be added in the BOQ

No enough human resources to deliver this amount of work on time.

Case Study #2: New Admin. Capital



Client: the government
Area: 714 km²
Start Date: 2015

Location: New Cairo
Budget: above 20 billion dollars
Completion Date: still in progress

Project Brief:

On the first day of the “Egypt Economic Development Conference”, a proposal for a new Egyptian capital city was announced for investment and economic development.

Challenges:

Project submission date was announced without any previous studies

Investors need to see their return on investment as quickly as possible (time is money)

Referring to the cost – quality and time triangle, cost and quality couldn't be sacrificed and that's the reason that makes the project till now is still in progress.

No enough human resources to deliver this amount of work on time.

Project Master Plan



Phase One Master Plan



Case Study #3: New Suez Canal



Client: the Egyptian government
Area: 72 km length
Start Date: August 2014

Location: Sinai
Budget: 30 billion Egyptian pounds
Completion Date: July 2015

Project Brief:

Creating a new canal, parallel to the existing one, to maximize benefit from the present Canal and its by-passes, and double the longest possible parts of the waterway to facilitate traffic in the two directions and minimize the waiting time for transiting ships.

Challenges:

It was announced that the New Suez Canal project will operate after a year (instead of three years).

Technical difficulties initially arose, such as the flooding of the new canal through seepage from the existing canal.



Takeaways:

- Each project has to be treated independently
- We don't have to follow the science of project management blindly
- Flexibility is a significant factor when it comes to developing countries
- Scope of work has to be well defined and documented to avoid scope creep
- Innovation is a key point in project management



Conclusion

Millennials value culture as much as money.

Millennials place great emphasis on being involved in co-creating a workplace culture fit for the future.



Conclusion

Three key learning points are very significant.

1. Change Management
2. Innovation
3. Organizational alignment

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Q&A Thank You



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