

A Journey Through Project Management for Town Administrators: From Concept to Completion

A Workshop to better understand project management for municipal capital projects



Land Acknowledgement

Colliers Project Leaders has offices across Canada. We acknowledge that our work takes place within ancestral, traditional, treaty and unceded territories which continue to be home to many First Nations, Inuit and Métis people.

In Saskatchewan, we recognize the sacredness of the treaties, and deeply value our relationships with its sovereign First Nations. We are committed to knowing the truth of colonialism in Canada and doing our part towards reconciling past and ongoing wrongs.

Session Goal

Our goal is to help you gain a clear understanding of the project management process and how administration plays a crucial role in successfully leading municipal capital projects.



Scan the QR Code to share what you would like to get out of this session!



Agenda

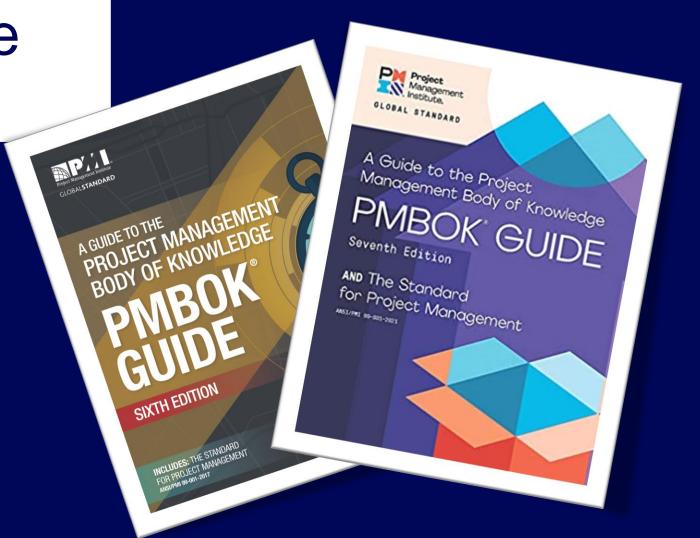
1	Why Project Management Matters to Town Administrators	6	Risk Management & Contingency Planning
2	Project Management Frameworks	7	Monitoring and Controlling
3	Project Lifecycle Overview	8	When To Engage a PM Professional
4	Initiation Phase	9	Table-Top Group Activity
5	Planning Phase	10	Closing

Why Project
Management
Matters for
Administrators



Project Management Body of Knowledge (PMBOK)

- Process-Based Approach
- 10 Key Knowledge Areas
- Focus on Best Practices



PRINCE2



- Tailored to the Project
- Defined Roles and Responsibilities
- Focus on Business Justification
- Product-Based Planning

PMBOK vs. PRINCE2

PMBOK

- Knowledge Based
- Process Groups
- Flexible Roles
- General Guidelines
- Output Oriented
- Customizable

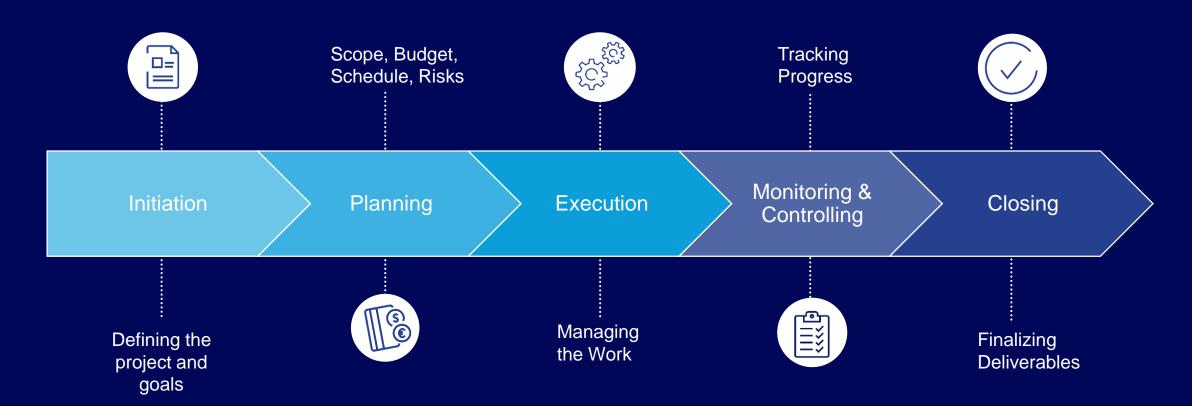
PRINCE2

- Process Driven
- Defined Stages
- Defined Roles
- Governance Emphasis
- Business Case

Justified

- Tailored to the Environment

Project Lifecycle for Municipal Projects



Step One

Initiation

Initiation Defining the Project and Goals

- Project Purpose (why)
- Needs Assessment (what)
- Project Team and Stakeholders (who)
- Project Governance (how)
- Business Case (how/where/when)
- Project Charter (document)

Projects don't fail in the end...

They fail at the beginning.

Initiation

Why Are we Doing This?

- Project Purpose
- Needs Assessment

Administrator's Role

- •Facilitate assessments of current infrastructure or services.
- •Compare current assessment to expected performance.
- •Identify and engage key stakeholders to gather opinions.
- •Gather data, conduct surveys, and analyze community needs.



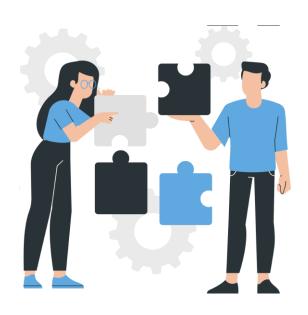
Defining Project Scope

Set clear and well-defined boundaries to avoid scope creep

Communicate the scope clearly to avoid misunderstandings

Ensure clarity
on deliverables
and traceability
to the project's
purpose

When and How to Involve Stakeholders



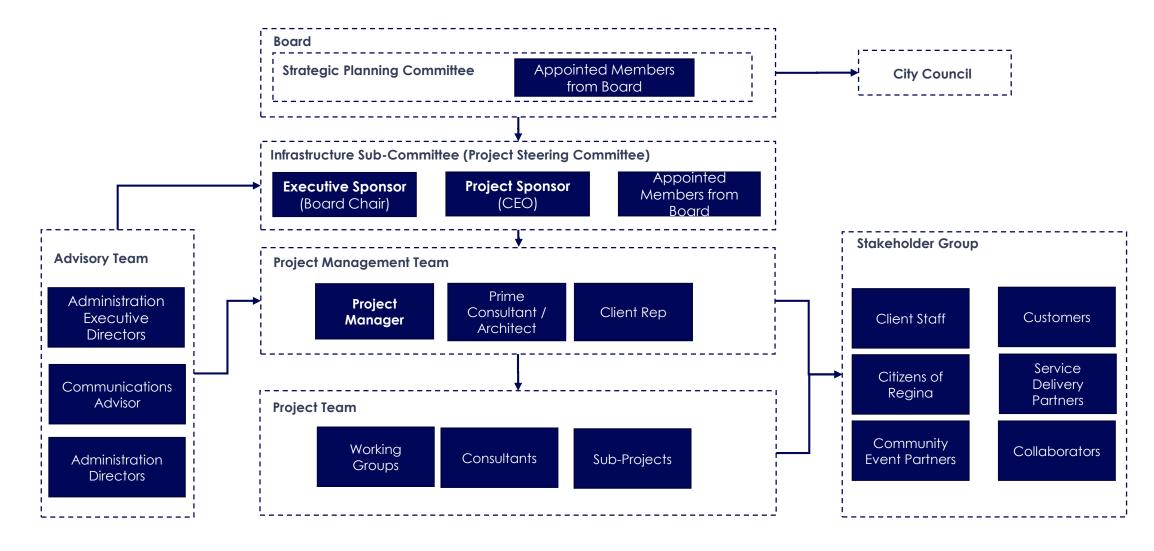
Intention

Timing

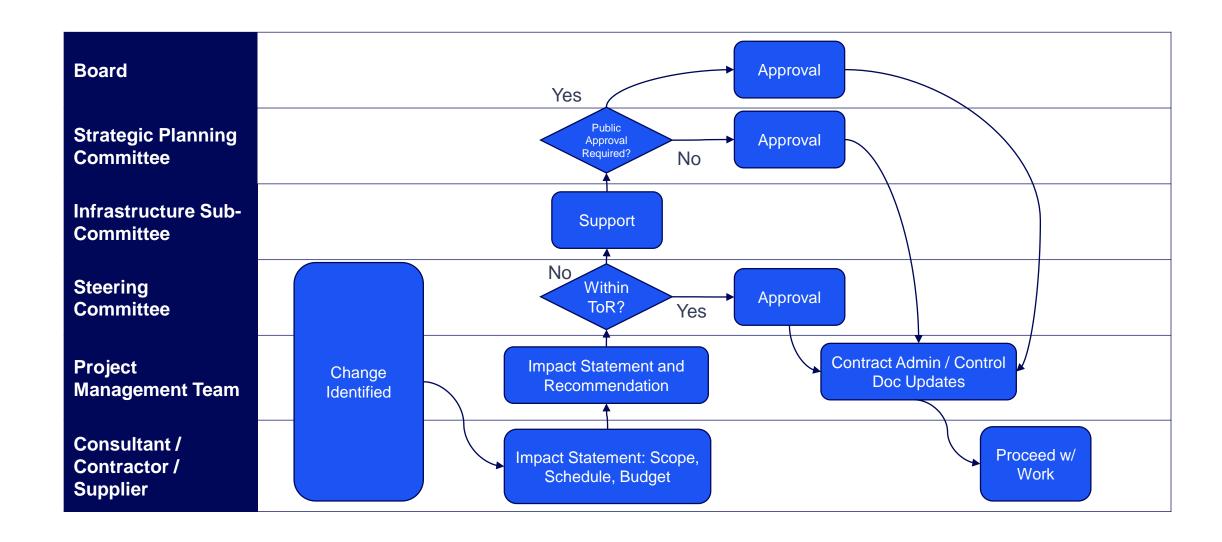
Methods

Regular Updates

Project Governance

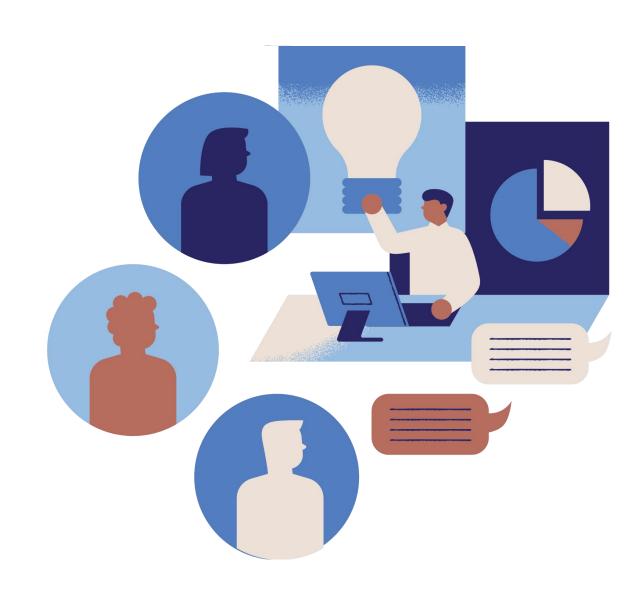


Project Governance - Project Change Management



Business Case

- Defines Project Purpose & Rationale
- Outlines Expected Benefits & Outcomes
- Justifies Resources & Investment
- Assesses Risks, Opportunities, & Constraints
- Secures Approval to Proceed

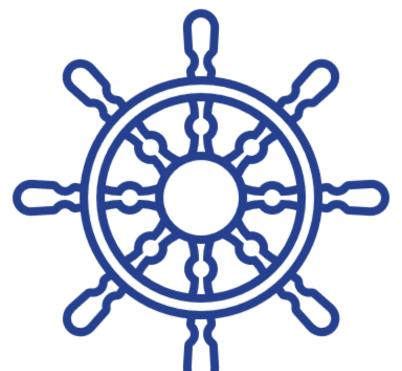


Project Plan / Charter

Defines Project Scope

Initiation

Authorizes the Project



Establishes Objectives

Outlines Success Criteria

Identifies Stakeholders

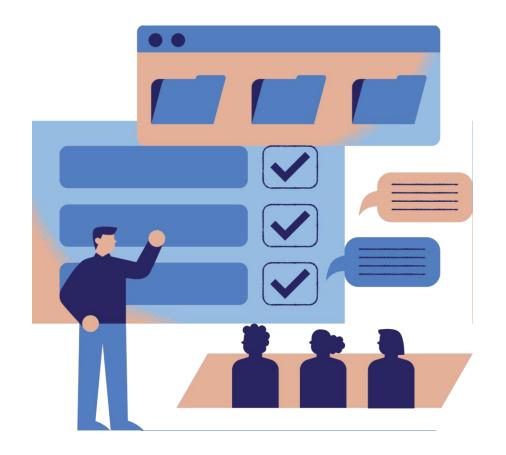
Step Two

Planning

Building a Realistic Project Plan

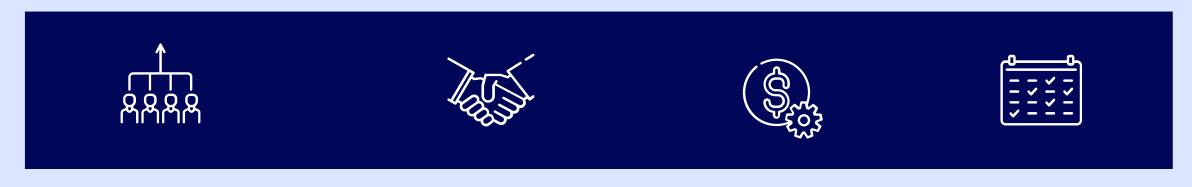
Laying the Foundation For Success

Administrator's role is to determine the processes, systems and tools used for establishing and maintaining the project's scope, schedule, budget, and quality



Planning - Setting the Foundation for Success

What do I need, when, how much will it cost, and who will manage risk?



Resources

What people (roles) and materials are needed?

Procurement

How do I hire or acquire them?

Cost

How to a create a budget and control?

Schedule

When do I need them and what sequence?

Identifying Resources

Make-or-Buy Analysis

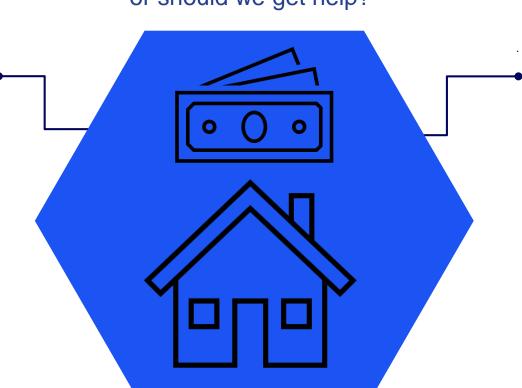
Should we do it... or should we get help?

Make (in house)

Consideration may inlcude:

 Do you have capacity and capability?

- Production costs
- Monitoring costs
- Storage?
- Waste Production?



Buy (outsourcing)

Consideration may inlcude:

- Purchase prices
- Cost of procurement (T&M)
- Political factors

Procurement

Acquiring Resources for Your Project

Plan Procurement

Identify associated laws and protocols,; document method; identify vendors

Conduct Procurements

Solicitation; evaluation; notification; and contract award

Control Procurements

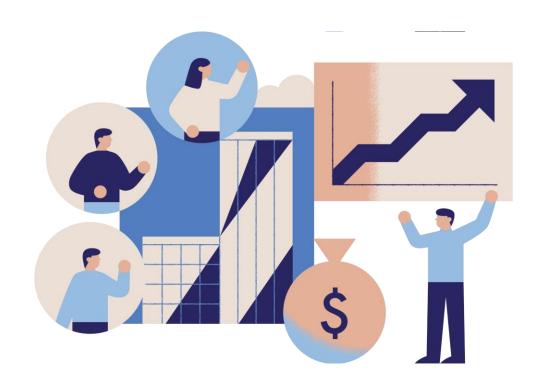
Manage relationships; monitor performance; ensure compliance to the procurement docs

Budgeting for Success

Managing Costs and Keeping Control

Why do I need a budget?

- Set expectations
- Baseline for measuring
- Validation
- Secure funding
- Most importantly, ensuring good stewardship of Public Funds



Setting Schedules for Success

Keep Projects on Track with Smart Scheduling





- Establishing an Approved Baseline
- Tracking & Monitoring Progress
- Adjusting for Delays
- Setting Realistic Deadlines

Step Three

Risk Management and Contingency Planning

Risk Management & Contingency Planning

Anticipating and Preparing for Potential Risks <u>BEFORE</u> they happen









WHY? SUCCESS WHAT?

QUALITY

ASSURANCE

CONTROL

HOW?

RISK

















Coct

Time

Scope

Human Resources

Procurement

Stakeholders

Integration

Communications

Spotting Risks Before They Become a Problem

- Identifying Risks in Municipal Projects
- Assessing Risk Severity
- •Risk Mitigation Strategies



Risk Identification

Identification					
Risk	Identified Risk Description	Impact Description			
Project Risks					
Hardwood Floor Price Increases	Price of hardwood flooring increases due to supplier and installer shortages.	Local suppliers are worried this could result in a 25% increase to costs. If we assumed \$15/ft2 this will be an additional \$3.75/ft2. Therefore: Budget : \$3.75 x 2,500ft2 = \$9,375			
Power Line Cut	Underground power lines may be hit when excavating	Our lot is in a 'brownfield' area and undergrounds are not clearly defined. We've heard power is in the area but not sure where.			

Risk Management

Identification			Response Planning			
Risk	isk Identified Risk Description Impact Description		Risk Management Strategy	Response		
Project Risks						
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Power Line Cut	Underground power lines may be hit when excavating	Our lot is in a 'brownfield' area and undergrounds are not clearly defined. We've heard power is in the area but not sure where.	AVOID	We will invest in a proper investigation to review areas and consider 'daylighting' areas of concern		

Monetizing the Risk

Identification				Response Planning			Residual Risk Analysis		
Risk	Identified Risk Description	Impact Description	Risk Management Strategy	Response	Probability	Task Cost (\$)	Estimated Impact on Cost (\$)		
Project Risks									
Hardwood Floor Price Increases	Price of hardwood flooring increases due to supplier and installer shortages.	Local suppliers are worried this could result in a 25% increase to costs. If we assumed \$15/ft2 this will be an additional \$3.75/ft2. Therefore: Budget : \$3.75 x 2,500ft2 = \$9,375	Accont	We will accept the risk and carry contingency costs associated with the increase - we really want this hardwood!	Moderate	9,375	4,688		
Power Line Cut	excavating	Our lot is in a 'brownfield' area and undergrounds are not clearly defined. We've heard power is in the area but not sure where.		We will invest in a proper investigation to review areas and consider 'daylighting' areas of concern	Low	30,000	6,000		
\$ 1							\$ 10,688		

Preparing for the Unexpected

The Importance of Backup Plans

Contingency Plans:

Developing 'Plan B' scenarios for key project phases.

Creating a Contingency Fund:

Allocating extra budget to handle unexpected costs.

When to Use the Contingency Plan and Funds:

Knowing when to pivot and activate the backup plan without derailing the project.



Preparing for the Unexpected

Types of Contingencies

Design Contingency



• Covers the costs of design components that <u>have not</u> been defined and should be set at the level of confidence for the estimate. Earlier in the design process, this is typically higher (e.g., 25-15%), but as unknowns become knowns and greater design certainty is determined, this percentage should decrease (e.g., 10-5%).





• Typically, 5-10% of the total consulting fees to cover the consulting costs for changes throughout the project lifecycle (i.e. additional specific skills, geotechnical).

Preparing for the Unexpected

Types of Contingencies

Escalation Contingency



• <u>Typically</u>, about 2-4% of the project cost annually to cover the cost of inflation between the date of the estimate and the date the work is executed or material/product acquired. You may carry escalation separately for different components for different periods, such as construction and furniture. You must confirm the appropriate rate for current market expectations and carry the escalation for the appropriate period before procurement.

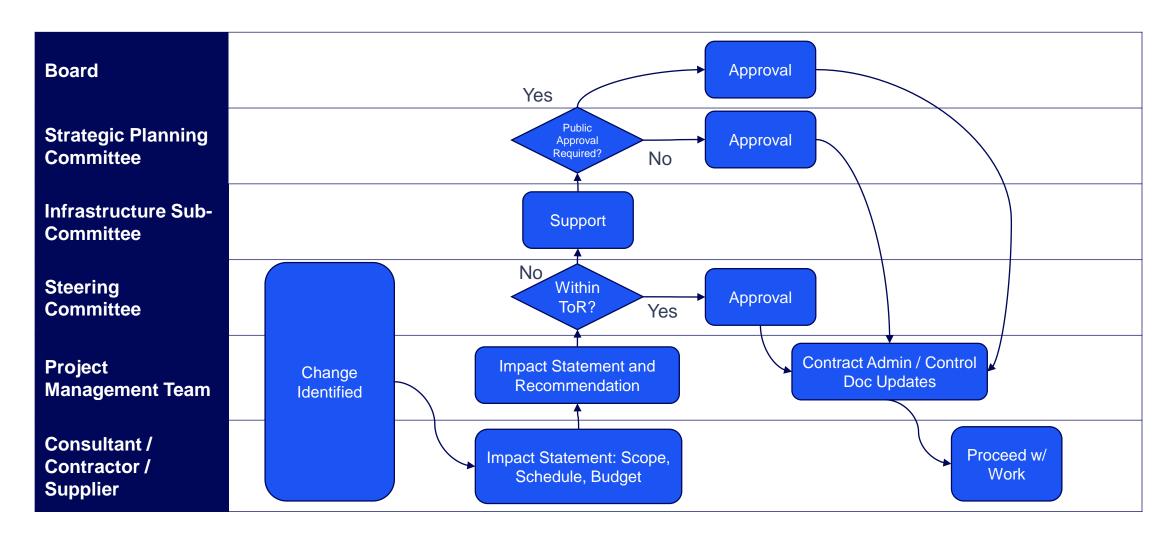


Construction Contingency

 Typically, about 10% of the construction cost on new construction to cover unknown site conditions, drawing errors and omissions and unforeseen changes identified during construction. For complex renovation projects, the contingency amount should be higher, such as 15-20% of the construction cost, depending on the nature of the project.

When Changes Need to be Made

Change Management Process



Monitoring & Controlling Managing Changes During Execution

Approaching Change Requests

Documenting Change Requests: Keeping a formal process for submitting and approving change requests.

Impact Analysis: Assessing how changes affect the overall project—timeline, budget, and scope.

Informed Decision-Making: Involving key stakeholders in approving changes to maintain alignment

Change Orders: Understanding when and how to handle changes to the project's scope, budget, or timeline.

Communicating Changes: Ensuring all stakeholders are informed and agree on the changes.

Staying in Control: Approving changes in a structured, documented manner to prevent scope creep or budget overruns

Step Four

Monitoring and Controlling

Keeping Your Project on Track

- Expectations of Project Team
- Risk Management
- Managing Change Requests
- Performance Management



Monitoring & Controlling

Problem Solving Before It's Too Late

Risk Management



Early Awareness Through Issue Triggers: Identifying issues through trigger warnings established in the Risk Management process.



Escalating Problems When Needed: Knowing when and how to involve higher-level decision-makers.

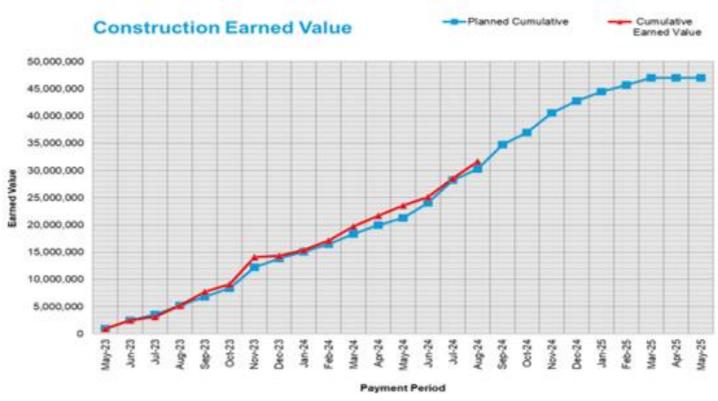


Problem-Solving Tips: Tips for resolving common issues like contractor delays or communication breakdowns.



Monitoring & Controlling

Earned Value Management



Planned and Earned Value vs Time (EVM)

Content Recap

PMBOK vs. PRINCE2

PMBOK

- Knowledge Based
- Process Groups
- Flexible Roles
- General Guidelines
- Output Oriented
- Customizable

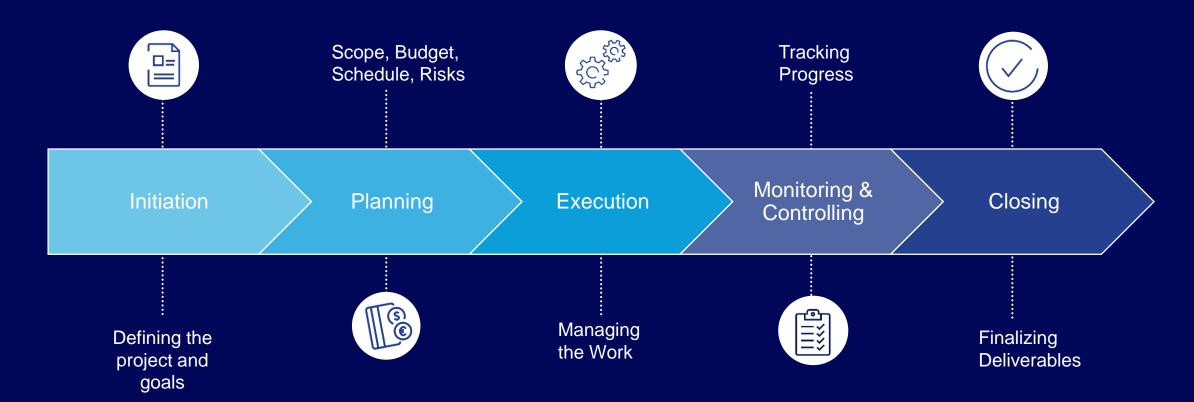
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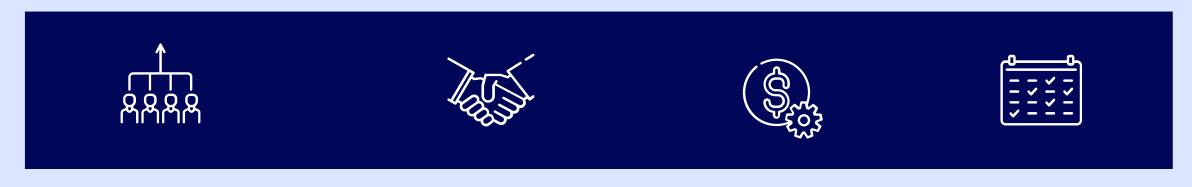
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Keeping Your Project on Track

- Expectations of Consultants
- Proactive Issue Management
- Managing Change Requests



Group Activity: Developing a Municipal Project Charter

Instructions:

1.Choose a Project:

Select a project that your group would like to plan.

2.Create a Basic Project Charter:

- •Scope: Define the project's goals, deliverables, and boundaries.
- •Budget: Estimate the overall cost and consider funding sources.
- •Key Risks: Identify potential risks
- •Timeline: Break down the project into phases with specific deadlines and milestones.

3.Identify Third-Party PM Support Needs:

- •Consider which parts of your project might require external project management support.
- Discuss why you might need a third-party PM



Group Activity: Developing a Municipal Project Plan

Project Ideas

- Recreation Center Upgrades
- Recreation Center (Arena, Ice Rink, Curling Rink, etc,.)
- Water Treatment Plant
- Fire Hall
- Road Infrastructure Upgrades
- Landfill Decommissioning or Upgrade



Questions?

Recognizing When to Engage a PM Professional

Signs You Need a PM Professional

- Scope Complexity/Size: when this is beyond the understanding or expertise of the organization (e.g., large infrastructure projects, multi-stakeholder involvement).
- Complexity in Contract Management: When legal, technical, or regulatory complexities arise (e.g., complicated procurement or compliance issues).
- Complex Stakeholder and Resource Management: When the project involves multiple contractors, government agencies, or significant financial oversight.
- Organizational Capacity is Restricted: When appropriate organizational resources are not available to dedicate sufficient time and effort to managing the project (e.g., avoid "project management off the side of the desk").

How Colliers Project Leaders Fan Helph of our

The foundation of our service is the strength and depth of our specialists.

- Schools
- Healthcare
- Multi-use Recreation Facilities
- Roads
- Rail
- Water Infrastructure
- Multi-Family Residential
- Office



Contact us

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Thank you