

Tailoring Project Management for Highly Uncertain Environment

- People
- Process
- Business



To Do Things Differently – or – To Do Different Things



Nice to meet you

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- VP Consulting Programs at RBS Projects
- Colonel (res.) at the IDF/Technology & Logistics
- Extensive experience in business units management, management of large and complex arrays, project\program management
- Highly experienced consultant and lecturer in Project Management courses, Risks & Opportunities, and more...
- Lecturer certified by the PMI® , ATP - Instructor





החברה היחידה בישראל המוסמכת כשותף וספק הדרכה
מאושר על ידי ארגון ה-PMI העולמי
ATP® – AUTHORIZED TRAINING PARTNER



ייעוץ - מטמיעים מתודולוגיות Waterfall/Agile/Hybrid ומסייעים לחברות בתכנון, ביצוע, מעקב ובקרה של פורטפוליו, תוכניות ופרויקטים



ניהול פרויקטים במיקור חוץ - צוות מקצועי ומנוסה הכולל מנהלי פרויקטים, מנהלי תוכניות ו-PMOs, תוך מתן ליווי ותמיכה מקצועית שוטפת



הדרכה, קורסים וסדנאות - היצע רחב של הדרכות, בהתאמה מדויקת לצורכי הלקוח, כגון ניהול פרויקטים בסיסי ומתקדם, הכנה להסמכת PMP®, סדנאות Agile, ניהול סיכונים, מיומנויות בינאישיות ועוד





לקוחות שלנו



Session Objectives



The relationships between project management methodology and project success – **why do we need PM Methodology ?**
How the Methodology can help in extreme **complex and uncertain environment ?**



Introduction to the PMI® methodology, tools, principles and knowledge areas, as reflected in the *PMBOK® Guide* (creating a common PM language based on **shared practical knowledge**)

The full workshop enhances project management competency in real projects, **significantly increases project success** in all aspects



Why Do We Need Methodology?

Common language in the organization that allows communication, coordination and synchronization between the departments who work for the project

Implementation of the methodology increases project success



Base for high standard control of the project in different aspects such as schedule, budget, scope, quality, stakeholder satisfaction.

When project management culture was implemented **71%*** of projects achieved their original goals and business target



Projects that are managed with methodology, processes and supportive tools **triple their success and meeting goals chances** against projects without tools and methods



- 8th Global Project Management Survey, PMI® Pulse of the Profession, 2016
- The High Cost of Low Performance..., PMI
- The impact of PMBOK Guide Use and project Success, M. Keil & L. Budescu
- Project Management Methodologies..., M.⁹ Zahid & M. Waseem

VODAFONE

Test Case

Using PMI Standards to Deliver A Complex Technology Project

At the end of 2017, one of Vodafone's strategic customers requested that Vodafone replace its existing, obsolete network with a highly capable, fully managed Global Local Area Network (GLAN) in 42 different sites across the world.

Using a project management approach based on PMI standards:

- **Workshops were conducted with suppliers** to agree on the needed resources listed in the resource management plan.
- Part of the project **budget was dedicated for a walkthrough** of the customer's top priority sites.
- A **communication plan** was set to ensure timely and effective communication was established.
- A **formal change control process** was formulated.
- **Tailored project documentation** was created to report and control the progress of the delivery.
- A **tailored risk management plan** and an issue log were set to track all the risks and issues within the project.
- **Dependencies and impact** were measured.
- A regular **project analysis and a governance model** were set and agreed.
- The project team agreed to capture **lessons learned** regularly instead of documenting these at the end of the project.

.....And more....

(Planned project completion date – Nov. 2019)

PMI Case Study, March 2021

VODAFONE - RESULTS

ON-TIME PROJECT DELIVERY WITH COST SAVINGS

The first batch of customer site migrations to the new GLAN was delivered with a 90% success rate, and 100% of the sites migrated at the second attempt.

The Vodafone GLAN project was **successfully delivered on time** and ahead of the team's target completion dates.

Through the use of proven project management methodology standardized by PMI:

- The customer gave Vodafone a **10/10 Net Promoter Score (NPS)**.
- Vodafone was **able to deliver the project on time**.
- Vodafone had **cost savings in the resources budget**.
- The project team **captured the lessons learned** to be used as a best practice for other future GLAN projects.
- Lessons learned sessions were conducted with the product team to share with them the best practice used for the GLAN product and what is its needs.



VODAFONE - RESULTS (Contd.) ON-TIME PROJECT DELIVERY WITH COST SAVINGS



“The project managers' skillful execution, which was aligned with PMI's standards, enabled the success of this project.”

-Ahmed ElGedwany, Senior Customer Portfolio Lead

“Our project team worked with the customer to understand how the solution would benefit their business. Then using the PMI standards, they implemented the solution on time with high quality.”

-Adam Hyde, Head of Customer Design & Delivery



Methodology and Tools Enhance Project Success

Several Researches provide a strong case for the conclusion that project success is influenced by:

- The level of knowledge, skills, and experience of the **project manager** and project team
- Appropriate and **consistent** use of project management **tools**, processes and **methodologies**
- Alignment of the outcomes of the project to **organization strategy**
- Managing the expectations of project stakeholders
- Appropriate, timely and consistent **involvement** by users and managers
- Timely management of **risk**.



Research of Jiang and Klein (1999); Lemon, Bowitz, Burn and Hackney (2002); Bourne and Walker (2003)

Critical Success Factors in Project Management

(Survey Findings – essential influence)

- Formal establishing of Project Manager (93% influence on project success).
- Project Manager competencies (88%).
- High authority of the Project Manager (85%).
- The project goal set in a clear and measurable way (90%).
- Formally establishing a project team (86%).
- Top management support for the project (84%).
- Examples of other CSF (large influence) – competence of the project team, effective communication procedures, monitoring and change control, risk management...



Project Manager as Integrator, Facilitator and

(shall be revisited)

!?

Project Management Tools & Techniques

Coordination (people and processes)

Prioritization (resources, activities)

Stakeholder identification and engagement

Decisive

Check & Balance

Monitor & Control (all aspects)



Emphasize **business goals**

Risks & Opportunities management

Focus on delivery of **value** and benefits



Allow professionals to focus on their job

See the whole picture and light the black spots

Team Player with added value and **accountability**

Need to agree on R&R

Cause of Project Failures

Source :2017, PMI, Pulse of the Profession ®

- Inaccurate requirement gathering (39%)
- Inaccurate cost estimates (28%)
- Undefined opportunities and risks (27%)
- Inaccurate task time estimates (26%)
- Inadequate resource forecasting (23%)

How can we do it better ?



**Poor Planning, M&C,
And Integration Management**



Causes of Project Failures – How can we do better ?

- **Requirement gathering** – not only from “contract” or “management document”
- **Inaccurate cost estimates** – what are the tools & techniques to make better and updated estimates, for different situations
- **Undefined opportunities and risks** – how can we manage risks and opportunities effectively and efficiently ?
- **Inaccurate task time estimates** - *
- **Inadequate resource forecasting** -*
- And much more (better **reserves allocation and management...** **managing stakeholder satisfaction... cost of quality...**) *



*** How can we do it right ?**

What is PMI® ?

PMI is the world's largest not-for-profit membership association for the project management profession. Methodology is based on **shared practical experiences**.



Executive
Offices in the
USA



Website
www.pmi.org



A global
organization -
chapters in
210+ countries
300+ chapters



660,000+ members in
different industries
worldwide



Established
1969

Methodology

- We are implanting the updated project management methodologies by the Project Management Institute (PMI®), the leading global organization for PM
- PMBOK® Guide is the formal body of knowledge for project management and the American standard (ANSI)
- Includes systematic tailored processes in 10 knowledge areas, and **simple Tools**
- We are also using the PMI's Disciplined Agile (DA) tool kit, the best practice of Agile mindset and methodologies



PMBOK® Knowledge Areas

Benefits of PMP ® Certification

- Gold standard of project management
- Globally valued and recognized
- Enhanced knowledge and project success
- Significant edge in global job market, prerequisite for project management jobs of leading industries...
- Higher salary...

- Project Management Salary survey (by PMI), 2020
- Global Knowledge IT Skills and Salary Report, 2020
- Robert Half Salary Guide
- Indeed.com Salary Data



Project Management and Tailoring

Tools

- Templates
- Updated work PM Toolbox
- PM Portal
- Dashboards
- Workflows

Methodology

- Best Practice
- Processes
- PMP® & PMBOK®

Implementation

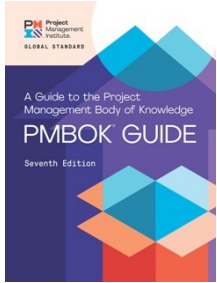
- Training
- Coaching
- Knowledge Leaders
- PMO
- PM-COE

KIS

TAILORING

LEAN

PMBOK 6th & 7th Edition



- People
- Process
- Business

KIS

TAILORING

LEAN

PMBOK® Guide – Sixth Edition

A Guide to the Project Management Body of Knowledge:

- Introduction, Project Environment, and Role of the Project Manager
- Knowledge Areas
 - Integration
 - Scope
 - Schedule
 - Cost
 - Quality
 - Resources
 - Communications
 - Risk
 - Procurement
 - Stakeholders

The Standard for Project Management:

- Initiating
- Planning
- Executing
- Monitoring and Controlling
- Closing

Appendixes, Glossary, and Index

+

PMBOK® Guide – Seventh Edition

The Standard for Project Management:

- Introduction
- System for Value Delivery
- Project Management Principles
 - Stewardship
 - Team
 - Stakeholders
 - Value
 - Systems Thinking
 - Leadership
 - Tailoring
 - Quality
 - Complexity
 - Risk
 - Adaptability and Resiliency
 - Change

A Guide to the Project Management Body of Knowledge:

- Project Performance Domains:
 - Stakeholders
 - Team
 - Development Approach and Life Cycle
 - Planning
 - Project Work
 - Delivery
 - Measurement
 - Uncertainty
- Tailoring
- Models, Methods, and Artifacts

Appendixes, Glossary, and Index

PMIstandards+™ Digital Content Platform

- The platform links to the PMBOK® Guide via the Models, Methods, and Artifacts section while further expanding on that content.
- Platform incorporates content from all PMI standards as well as content developed specifically for the platform.
- Content reflects “how to...” in actual practice, including emerging practices.



PROJECT
MANAGEMENT:
INTRODUCTION



Project

Temporary endeavor undertaken to create a unique product, service, or result

Product

An artifact that is produced, is quantifiable, and can be either an end item, or a component item

Value



The worth, importance, or usefulness of something
Business Value: The net quantifiable benefit derived
from a business endeavor

(Tangible/Intangible)

Project Business Case



A documented economic feasibility study used to establish the validity of the benefits of a selected component lacking sufficient definition and that is used as a basis for the authorization of further project management activities.



Market Analysis

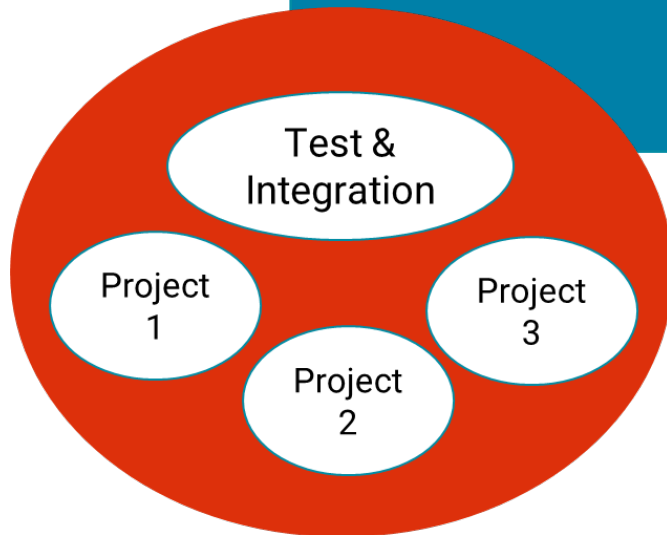
Business needs

Alternatives Evaluation

Recommendations

Program

Related projects, subsidiary programs, and program activities that are managed in a coordinated manner to obtain benefits not available from managing them individually



Portfolio

Projects, programs, subsidiary portfolios and operations managed as a group to achieve a strategic objectives

Technology

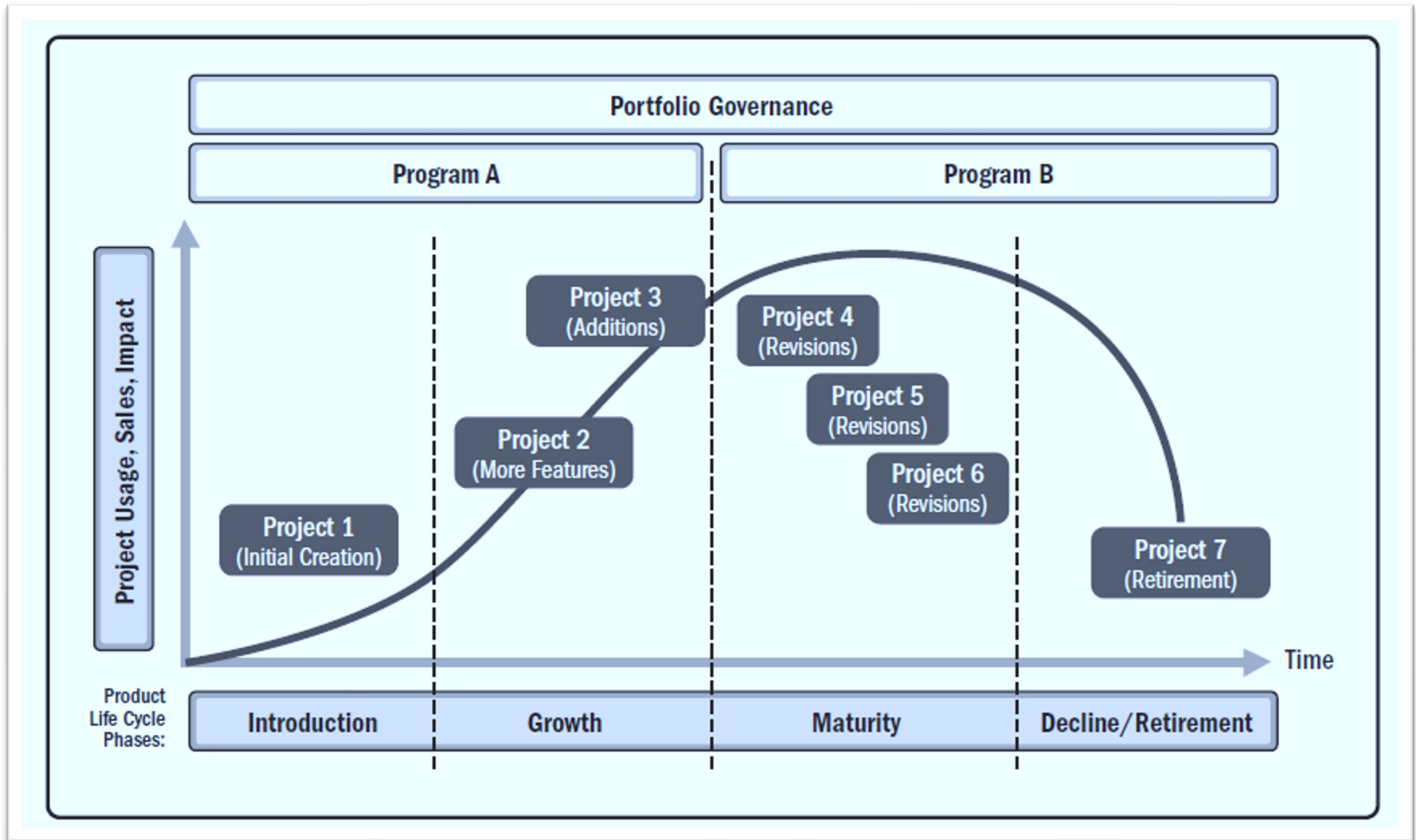
Product

Customer

Vendor

Geography

Product Life Cycle Management



Project Constraints



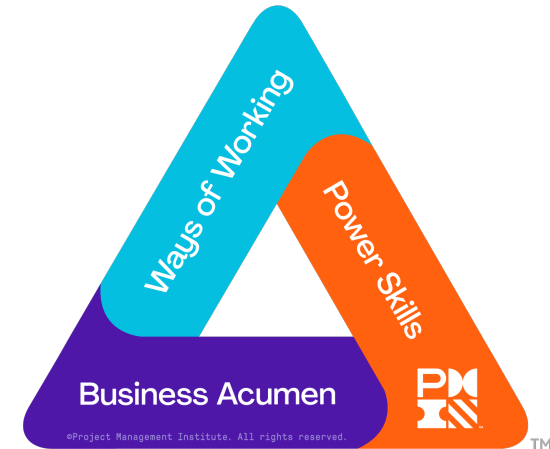
And more....

Project Manager

The person assigned by the performing organization to lead the team that is responsible for achieving the project objectives

Accountability

PMI ® Talent Triangle - Project Manager



PM Knowledge Areas

PMI PMBOK 6th Ed.

- Integration
- Scope
- Schedule
- Cost
- Quality
- Resource
- Communication
- Risk
- Procurement
- Stakeholders



People, Process, Business

PM Knowledge Areas

PMI PMBOK 6th Ed.

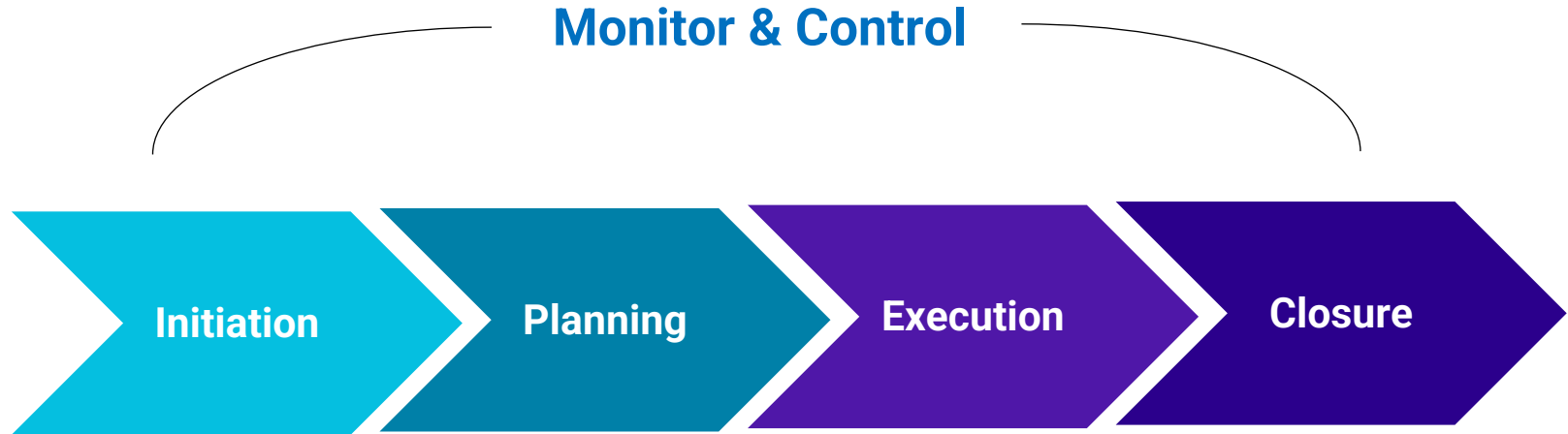
- ✦ Integration
 - Scope
 - Schedule
 - Cost
 - Quality
 - Resource
 - Communication
- ✦ Risk
 - Procurement
- ✦ Stakeholders



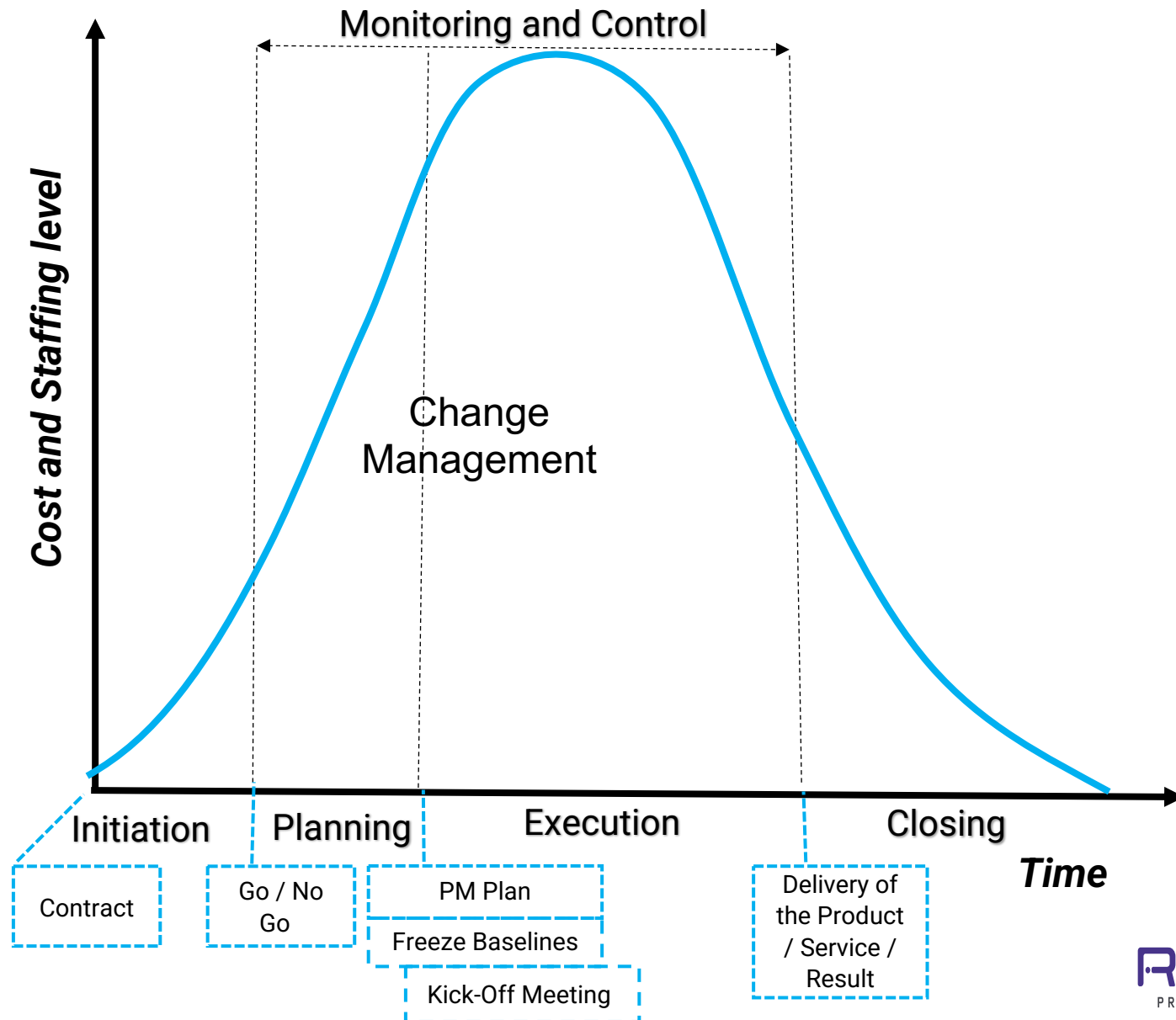
People, Process, Business

Generic Project Process Groups

PMI PMBOK 6th Ed.

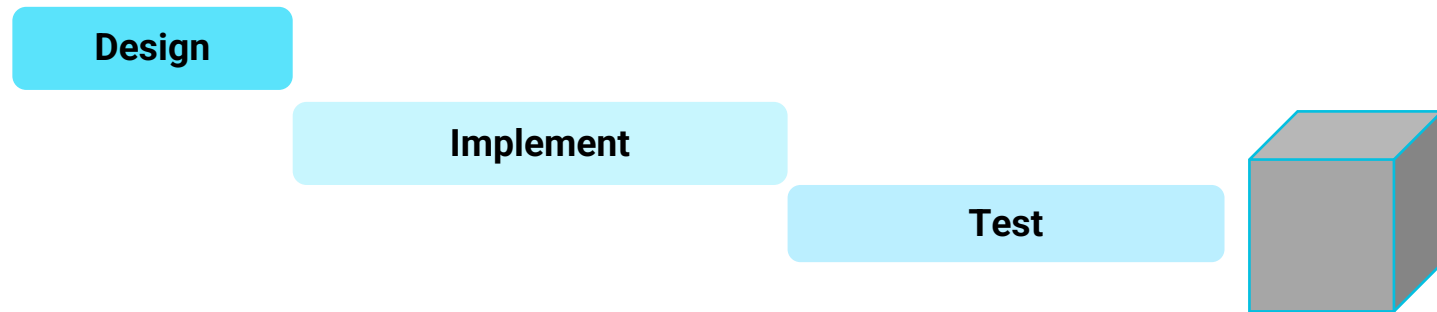


Schematic Predictive Project Life Cycle

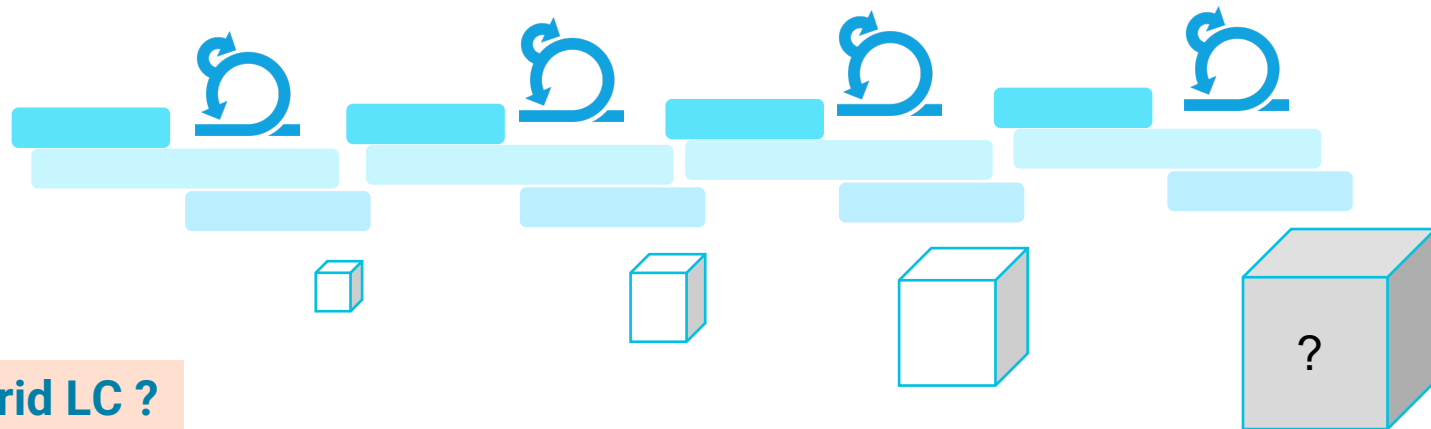


Predictive vs Agile Life Cycle

Predictive/Waterfall

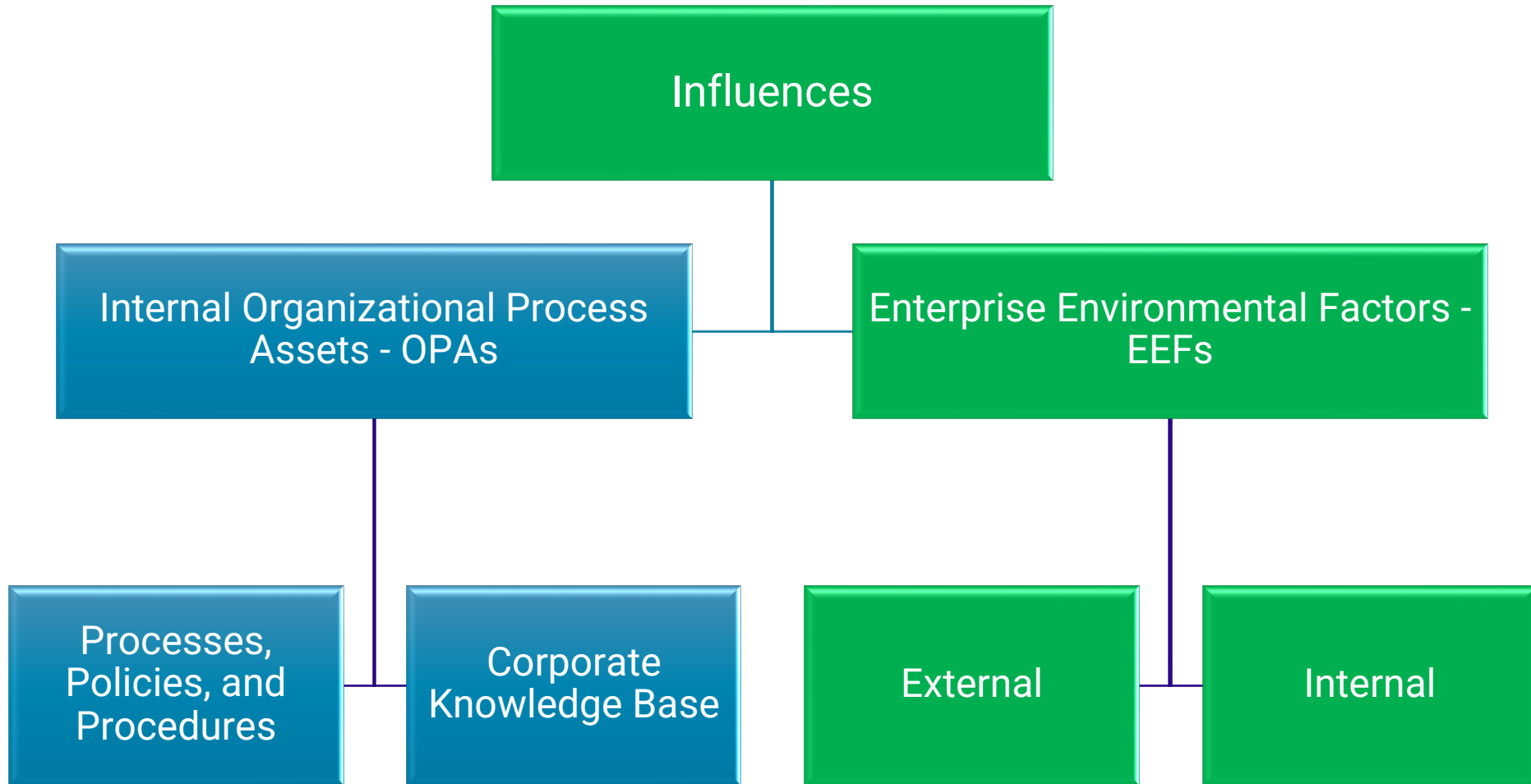


Adaptive/Agile



What about Hybrid LC ?

Project Influences



“Change is The Only Constant...”

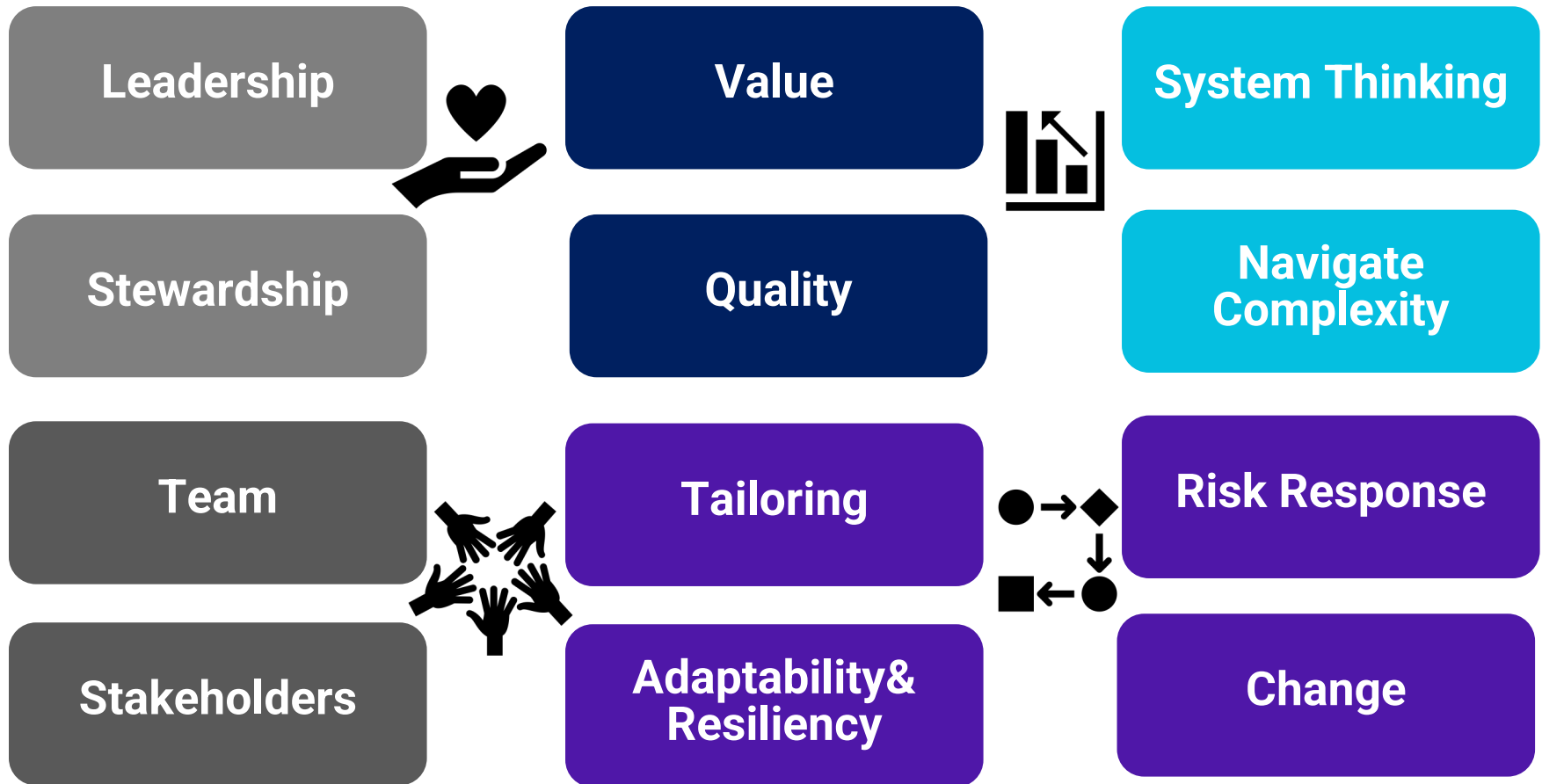
Enterprise Environmental Factors (EEFs)

| Internal | External |
|--|--|
| <ul style="list-style-type: none">✓ Organizational culture, structure, and governance✓ Geographic distribution of facilities and resources✓ Infrastructure✓ Resource availability✓ Employee capability✓ And more... | <ul style="list-style-type: none">✓ Marketplace conditions✓ Social and cultural influences and issues✓ Legal restrictions✓ Commercial databases✓ Academic research✓ Government or industry standards✓ Financial considerations✓ Physical environmental elements |

Check the PESTLE

Political, Economical, Social, Technological, Environmental, Legal and more...

Project Management Principles

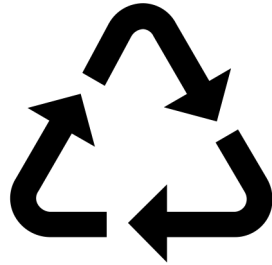


Project Management Principles - Implementation

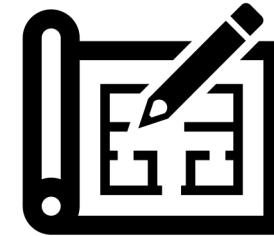
1. Be a diligent, respectful and caring **steward**
2. Recognize, evaluate and respond to **system** interactions
3. Navigate **complexity**
4. Create a **collaborative** project team environment
5. Demonstrate **leadership** behaviors
6. Optimize **risk responses**
7. Effectively engage with **stakeholders**
8. **Tailor** based on context
9. Embrace **adaptability** and resiliency
10. Focus on **value**
11. Build **quality** into processes and **deliverables**
12. Enable **change** to achieve the envisioned **future state**

Project Performance Domains

Development
approach &
Lifecycle



Planning



Project Work



Uncertainty



Measurement

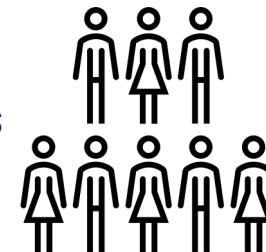


Delivery

Team



Stakeholders



12 Agile Principles

- **Customer satisfaction** by early and continuous delivery of valuable software
- **Welcome changing requirements**, even in late development
- Working software is **delivered frequently** (weeks rather than months)
- Close, daily **cooperation** between business people and developers
- Projects are built around **motivated individuals**, who should be trusted
- **Face-to-face conversation** is the best form of communication (co-location)
- **Working software** is the primary measure of progress
- Sustainable development, able to maintain a **constant pace**
- Continuous attention to technical **excellence** and good design
- **Simplicity**—the art of maximizing the amount of work not done—is essential
- Best architectures, requirements, and designs emerge from **self-organizing teams**
- Regularly, the team reflects on how to become more **effective**, and adjusts accordingly

Agile - "Big Picture"

AGILE IS A
MINDSET

DESCRIBED BY
4 VALUES

DEFINED BY
12 PRINCIPLES

MANIFESTED THROUGH
UNLIMITED NUMBER OF PRACTICES

Agile = Mindset

Being
Agile



Doing
Agile

Mindset

Values

Principles

Practices

Tailoring Project Management for Extreme Uncertain Environment

- **Focus** on early **delivery** – the “**MUST**” features, MBI.
- **Communicate** with stakeholders, **support** team members.
- **Consult** with SMEs.
- Planning - detailed plan for short terms/sprints, subject to adjustable high level plan and roadmap
- Risk Management – more **monitoring** and reviews, optimize reserves, risk response - contingency plans & mitigation, **avoid** “low value” requirements.
- Opportunity Management – be proactive, share.
- Embrace innovation

MoSCoW

Kanu

VUCA

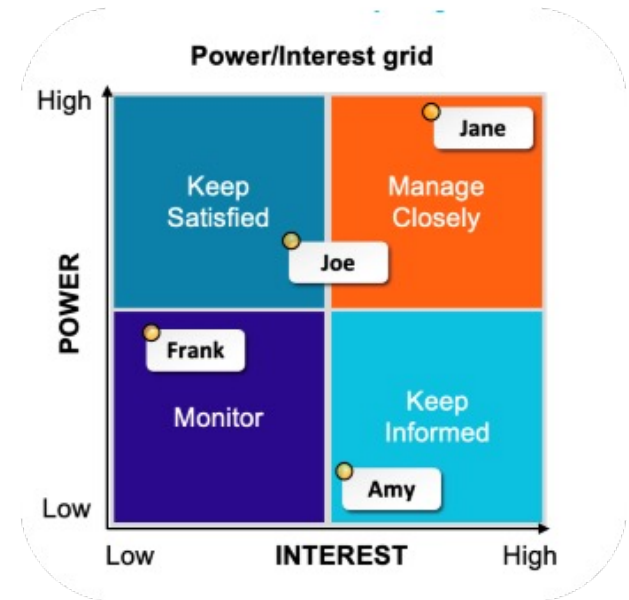
PESTLE

Tools (Examples) – Managing Team and Stakeholders (need to update in times of increased uncertainty)

RACI Chart - update

| | Project Manager | Engineering Manager | Quality Assurance Manager | Purchasing Manager | Manufacturing Manager |
|--------------------|-----------------|---------------------|---------------------------|--------------------|-----------------------|
| Create blueprints | A | R | C | | C |
| Man. circuit board | I | A | C | | R |
| Test circuit board | I | R | A | | C |
| Order components | C | C | I | R | A |
| Assemble | I | C | C | | A, R |

Stakeholder Analysis



STAKEHOLDER REGISTER

| Name | Organization | Project Role | Major Requirements | Expectations | Influence | Areas of Interest | Internal/External | Supporter? |
|----------------|------------------|------------------|---------------------------|---------------------------|-----------|--------------------------|-------------------|------------|
| Linda Michaels | CEO | Sponsor | Budget, schedule, quality | Community involvement | Major | Community | Internal | Yes |
| Ron Gordon | | Mortgage lenders | | Growth | Major | Development | External | Yes |
| | Community | | Neighborhood improvements | | Minor | House | External | Yes |
| Andrews family | | Homeowners | | Engage family and friends | | | | Yes |
| | Lumber warehouse | Vendor | | | Major | Locally sourced supplies | | |
| | | Project Manager | | Project goes as planned | Major | All | Internal | Yes |

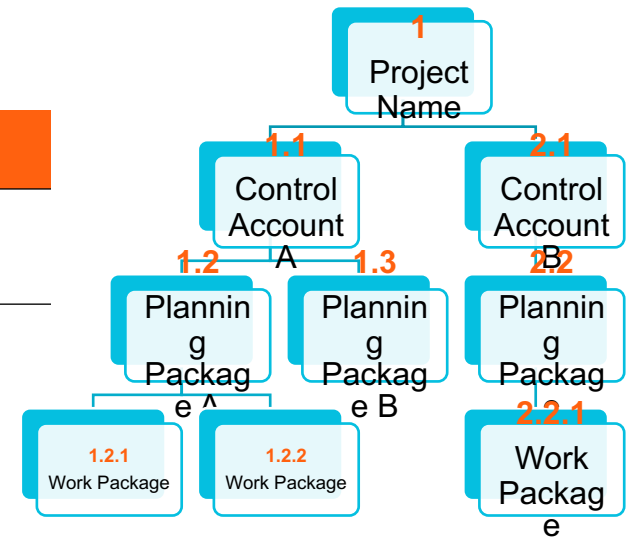


Tools (Examples) – Managing Scope, Communication....

Work Breakdown Structure (WBS)

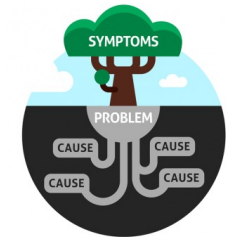
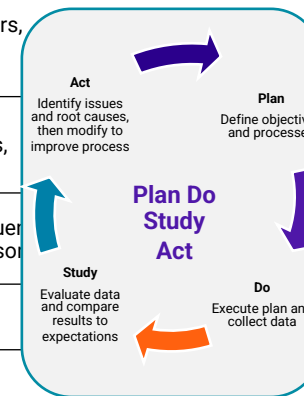
Issue Log

| ID | Description | Opened | Due Date | Priority | Owner | Response | Status | Comments |
|----|--------------|------------|------------|----------|----------|----------|--------|--------------------------------|
| 25 | Truck strike | 10/15/20xx | 11/01/20xx | High | R. Smith | TBD | Open | Tasks are on the critical path |



Communication Management Plan

| Communication | Frequency | Responsibility | Stakeholder | Notes |
|--|---|---------------------------------|--|--|
| Project Kickoff Meeting | Start of project | PMO | Key Stakeholders | Both team and client kickoff meetings recommended |
| Executive Steering Committee | Monthly – first Wednesday of each month | Account Manager | Client Executive | Review status, milestones met, earned value indicators, key issues |
| Status Meetings Status Report (Email) | Weekly – Friday 2 p.m. | Project Manager | Client Sponsor | Review project status, schedule, change requests, issues |
| Status Meetings | Weekly – Friday 11 a.m. | Project Manager | Development Team | Provides input for subsequent meetings with client sponsor |
| Newsletter (Email) | Weekly – Friday | PMO | Client Managers | |
| Client Satisfaction Survey | Monthly/end of each phase | Account Manager/Project Manager | Client Sponsor/Key Client Stakeholders | Informal (Monthly) Formal (End of each phase) |



Let's Get to Work!





Thank You!



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