We'll begin soon.







Michael O'Connor

Senior Research Program Director, Program Management, Enabling Technologies

Top 5 strengths

- 1. Achiever
- 2. Discipline
- 3. Context
- 4. Individualization
- 5. Learner

PROJECT MANAGEMENT



🚨 About

0

36 Years

Research, Development, Science, Technology, Innovation, Quality, Regulatory, Clinical etc.

0

32 Years

In Medical Devices

Experience

- Senior Program Director, Program Management, Enabling Technologies
- Director Strategy and Project Management, Corporate Science and Technology
- Senior Program Manager, Corporate Quality and Regulatory
- Senior Manager, Compliance and Audit, Neuromodulation

Section Fundance Propriet

- I have a twin sister
- Music lover play percussion and learning piano
- First job: Soccer referee
- Down time: Family, reading, gardening landscaping, fitness, soccer

Vision



- Deliver global program management...
 - Successful program teams
 - Successful outcomes
 - Improved patient lives

"Project Managers are the most creative pros in the world; we have to figure out everything that could go wrong, before it does"

Fredrick Haren

"Life is like riding a bicycle. To keep your balance, you must keep moving"

Albert Einstein

☺ Education

- Ph.D.: Civil Engineering, University of Maryland, College Park, A. James Clark School of Engineering
- MSc: Technology Management, University of St. Thomas
- MSc: Project Management, University of Wisconsin-Platteville
- MBA: Business Management, University of Phoenix

Lived here

- Twin Cities of Minnesota
 - Global Travel
 - Canada
 - Mexico
 - Europe
 - China
 - India
 - South America
 - Middle East

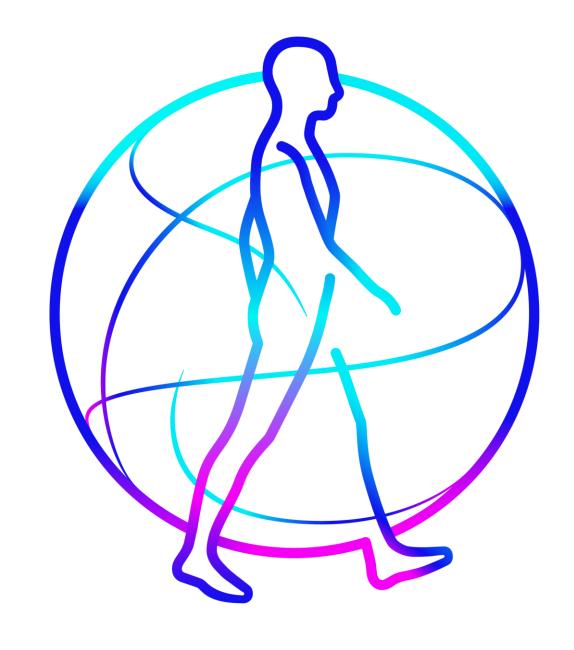
Medtronic

Medtronic

Engineering the extraordinary

Project Management in The Medical Device Field





Medtronic

Engineering the extraordinary

Agenda:

- Medical Device Project Context
- Planning Scope
- Resources
- Cost
- Schedule
- Stakeholders
- Risk
- Execution
- Project Completion
- Lessons Learned
- Summary



Medical Device Project Context

- What is a Medical Device?
- They can be as simple as a band-aide or as complex as a pacemaker
- Determine if your product meets the FDA definition
- Determine if your product is a 510(K) or PMA submission
- Are there Similar Products on The Market?
- Does it have Mobile Application or Software?
- Will this be Sold Globally?









Medical Devices Project Context



Planning - Scope

- Planning, Roadmap for Success
 - Most Important Step
 - Cross Functional Team
- Requirements and Voice of the Customer (VOC)
- Phase Approach
- Major Tasks in Each Phase
- Sub Tasks in Each Phase
- Cross Functional Team

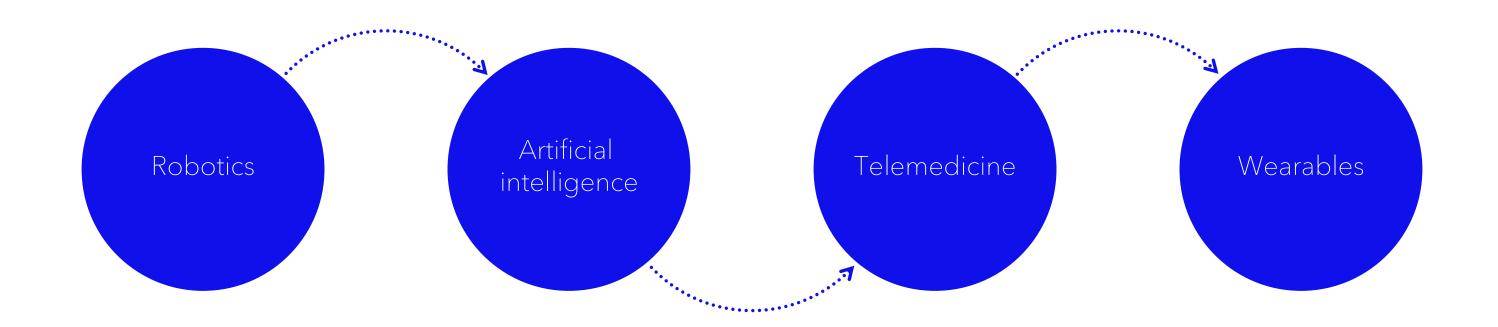


- Defining What You are Going To Do
- Defining What You Will Not Do
 - Features
 - Manufacturing
 - Sales
 - Market
 - Regulatory
 - Technology
 - Suppliers
 - Etc.





Medical Device Marketing Trends



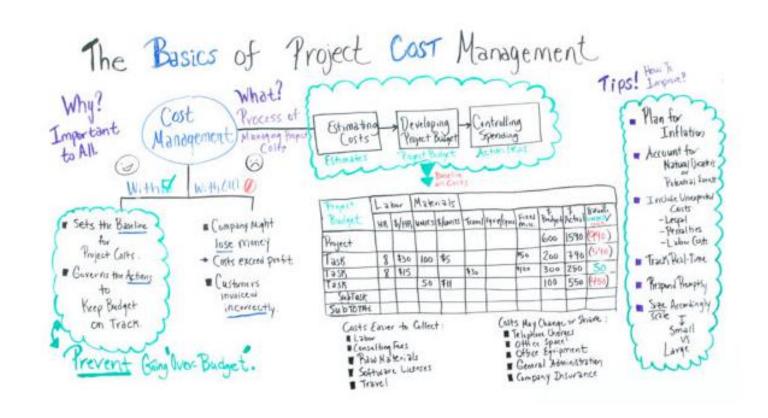
Resources

- Resources
 - How Do You Get the Right People on Your Project
 - Expertise
 - Background
 - Experiences
 - Knowledge
 - Face to Face and Virtual
 - Office Setting or Co-Located Space
 - Training
 - Networking
 - Finance or Software System
 - Contractors vs. FTE



Cost

- Cost
 - Can be Very Difficult to Estimate a New Device or Technology
 - Typically, this is a Weekly or Bi-Weekly Call with Finance Partner
- Build in Some Back Up Cost for Risks and Unknowns
- Typically, a Rolling Forecast
- Regulatory Cost, Example EUMDR
- Global Markets and Cost of Business
- Sustainability, Packaging, Sterilization
- Testing, Possible New Tests
- Professional Consultants
- Failure
- Clinical Trials
- Legal
- Innovation, Skunk Works



Medical Devices by The Numbers







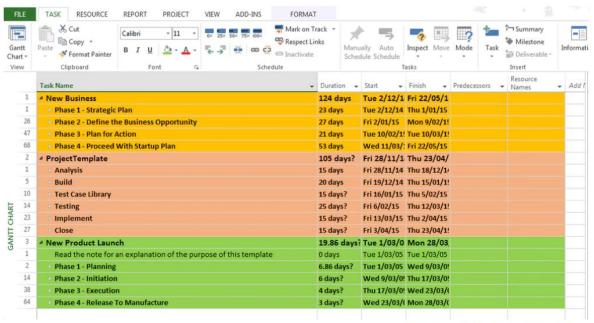
Different Types of Medical Devices
Globally

Schedule

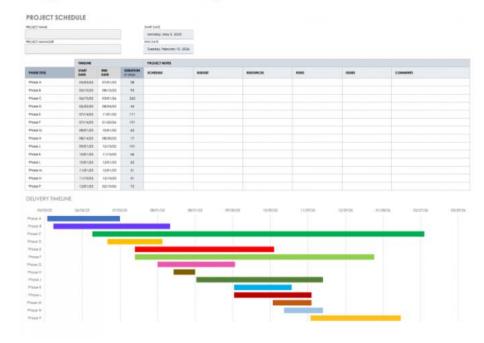
- Schedule
 - Part of the Output of Planning
 - Technology, Software
 - MS Project
 - Anaplan
 - Planisware
 - Planview
 - Smartsheet
 - The Team Needs to be Comfortable With The Technology
 - All Team Members Have Access
 - Need to Have the Ability to Take a Snapshot and Easily Place into A PPT
 - Reviewed at Each Team Meeting

MS Project Master Schedule

Santoshi Para . Mar 02, 2019



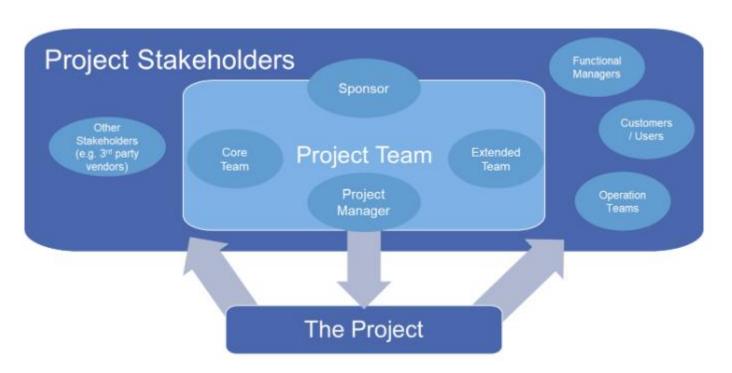
Project Schedule Template





Stakeholders

- Stakeholders
- PMI Defines Project Stake Holders As "Individuals and organizations who are actively involved in the project, or whose interests may be positively or negatively affected as a result of project execution or successful completion"
- Need to Identify Stakeholders
- Develop a Communication Plan with Each Stakeholder
- This Can Be One of The Most Difficult Parts of A Project
- When There are Risks or Issues, Working With a Known Stakeholder is a Much Smoother Process
- Networking
- Stakeholder Plan
- Status Reports



Risk

- Risk
- Identify Risks Early and Visit Them Often
- Analyze Potential Impact
- Assign Priority
- Mitigate Risks
- Monitor Risks
- Important Area of Medical Devices
 - Reliability
 - No Harm to The Patient, Operators or Environment
- Risk Burn Down
- Failure Mode and Effects Analysis
- Software





"BEING A PROJECT MANAGER IS LIKE BEING AN ARTIST, YOU HAVE THE DIFFERENT COLORED PROCESS STREAMS COMBINING INTO A WORK OF ART."

GREG CIMMARRUSTI

Execution

- Execution
 - Project Execution is The Stage of The Project Where Everything Your Team has Planned is Put Into Action
- Carry Out The Details of Your Project Plan
 - Schedule
 - Cost
 - Resources
 - Communication
 - Risk
 - Change Mangem4ent
 - Quality
 - Etc.
- Update as Needed
- Deliver Products or Services to Your Customers





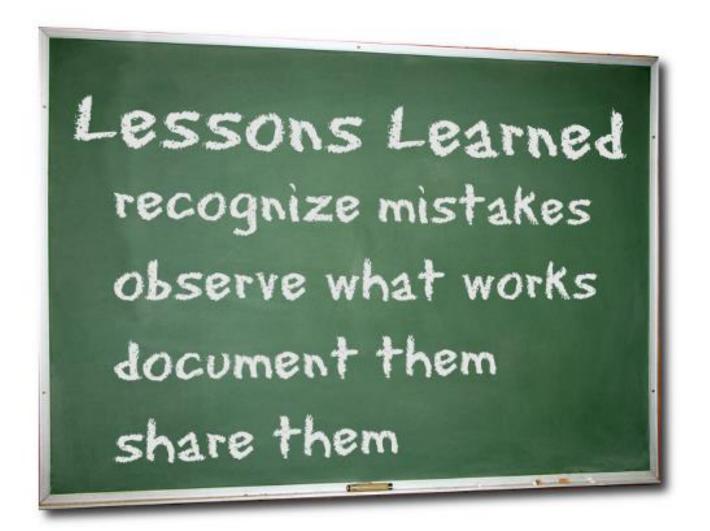
Project Completion

- Project Completion
 - Successful Achievement of the Project Goal
 - Documentation Archived
 - Outcomes and Results
 - Resources, Next Positions
 - Reflection
 - Add or Document to Yor Resume/CV
 - Survey?
 - Celebrate



Lessons Learned

- Lessons Learned
 - Document Both Positive and Negative Experiences
 - Lesson Learned Template
 - Analyze
 - Archive
 - Easy Retrieval
 - Present to Stakeholders, Brief Overview
 - Set Up for Easy Reading and for Future Products





Summary

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Thank You

Contact

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Q&A