

Webinar 2 Budgeting and Capital Project for Jim Voigt JFV Solutions, Inc. Mt Zion, IL

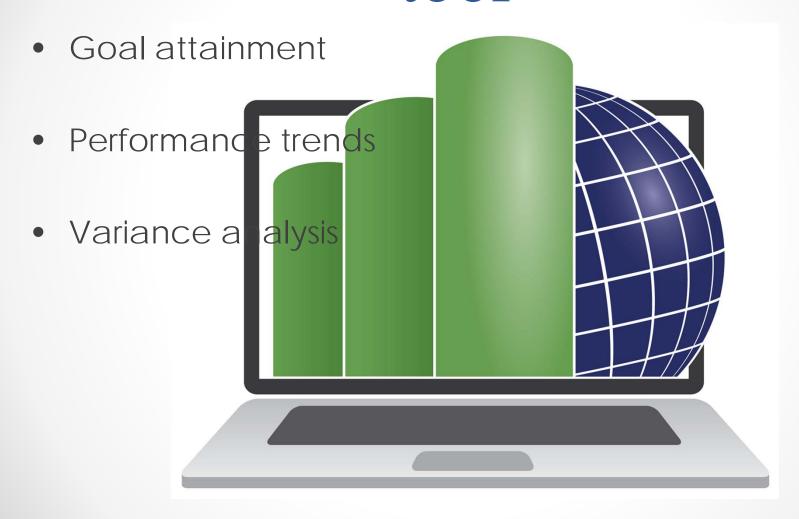
Objectives

- Define budgeting and the rationale for doing it
 - o What is included in a budget
 - o How to create a budget
 - o How to use a budget
- Introduction to Capital Project Managemen
 - o Picking the right project
 - o Project ma hagement techniques
- Relationship between budgeting management

Budgeting



Budgeting – An Analytical tool



Planning for Success

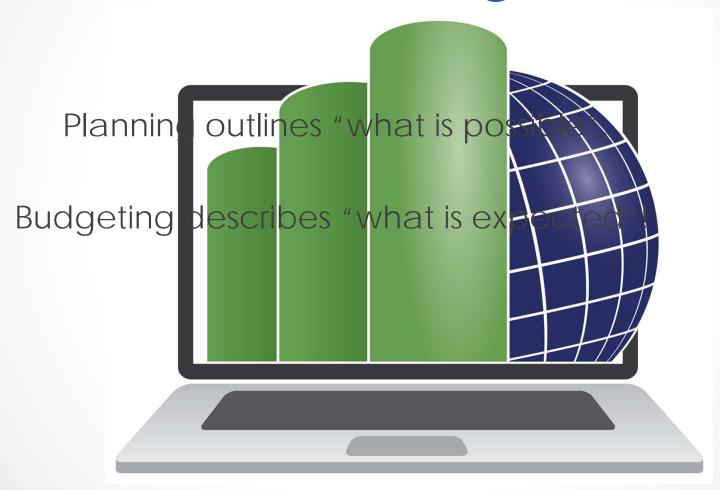
A Budget is:

- The part of the planning process that estimates an organizatio 's outgoing expense in coming revenues.
- A budget is for a specified time purely
- A plan to manage assets and call
- A method of establishing targets
- A means of measuring goal attain
- An ongoing process not a static exercise.
- A tool for sustainability, improvement, and growth.

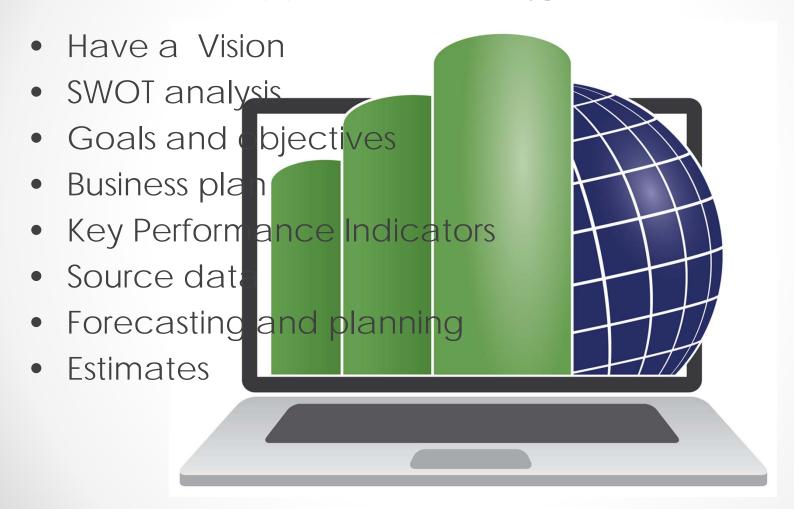
Benefits of Budgeting

- 1. Track and control spending.
- 2. Ensure funding of operations (cash flow)
- 3. Support full ding request.
- 4. Provide a tool for comparative a lays
- 5. Identify key performance indica-
- 6. Provides a means of measuring the hoe.
- 8. Allows for risk assessment

Budgeting's Relationship to Planning



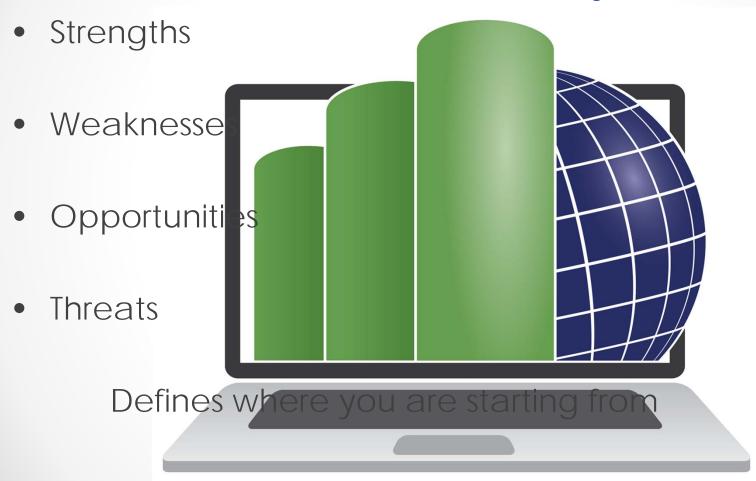
Where to Start



Vision

 Defines the optimal desired future state of the business or what the organization wants to achieve over time. 10, 15 or more years Looks out 5

S.W.O.T. Analysis



Goal

The result or achievement toward which effort is directed

- Provides de ail to a vision
- Target, a means to an end
- Short and long term time frames
- SMART specific, measurable, attainable, realistic, and timely

Business Plan

- A business plan is a written description of a business's strategy going forward
- A map to take you from where you want to be.
- Communicates the plan to empl
- Provides direction to decision manifestation taking
- Requires periodic updating

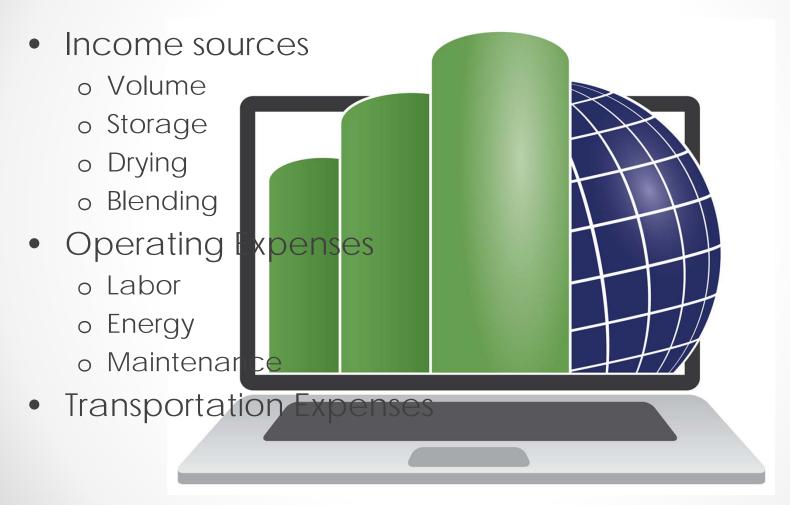
Key Performance Indicators

A KPI is a performance indicator used to measure

goal attainment.

- KPI's should reflect the performant of critical actions or activities.
- Quantitative or qualitative
- Measure inputs, outputs, or proce
- Leading ind cators predict outd
- Lagging ind cators report outcome

Source Information



Source Information

- Quality reports
- Inventory reports
- Operating reports
 - Loading uploading
 - o Drying
 - o Aeration
- Customer Service
 - o Reliability
 - o Speed
 - o Complaint
- Depreciation schedules
- Regulatory standards

Forecasting vs. Planning

Forecasting using historical data and trends to predict future events

• Planning is a process that sets specific attions to support the business plan and action desired goals or objectives.

Estimates vs. Assumptions

- Estimate an approximate judgment or calculation on the value of something. Usually based on some input data
 Input data
- Assumption a thing that is accessed as rue or certain to happen, without proof

Project Budgeting

- Provides same functionality as an annual budget
- Scorecard for measuring performance against real time and dellars
- Provides for nat and data for bet management structure
- Keeps project on track in time ar
- Supports project management to
- Used to evaluate if project met experimens

Capital Project Management

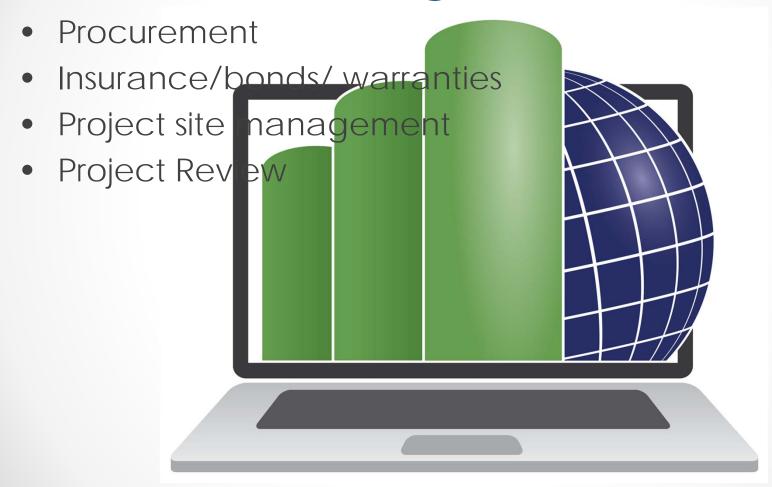


Factors in Capital Project Management

- Project Selection
- Project Justification
- Meeting the "Triple Constraint"
- Approval Process
- Selecting Personnel
- Work Break Jown
- Selecting Measurable Evaluation
- Communic tions
- Developing a Bid Package
- Contracts



Factors in Capital Project Management





Criteria in Selecting a Project

- Is the project critical to the vision or goal attainment?
- Does the project align and suppositions
 plan?
- Is the project required to be regular and impliant?
- Is the project required to keep the viable?
- Does the project meet the minimination on investment
- What is the risk associated with the project?



Aligning Capital Program to Company Vision

- Importance of having a clear vision and plan
- Long term and short term goals a ctives
- Develop indicators to measure sure sure project
- Capital projects should support the specific objectives or goals



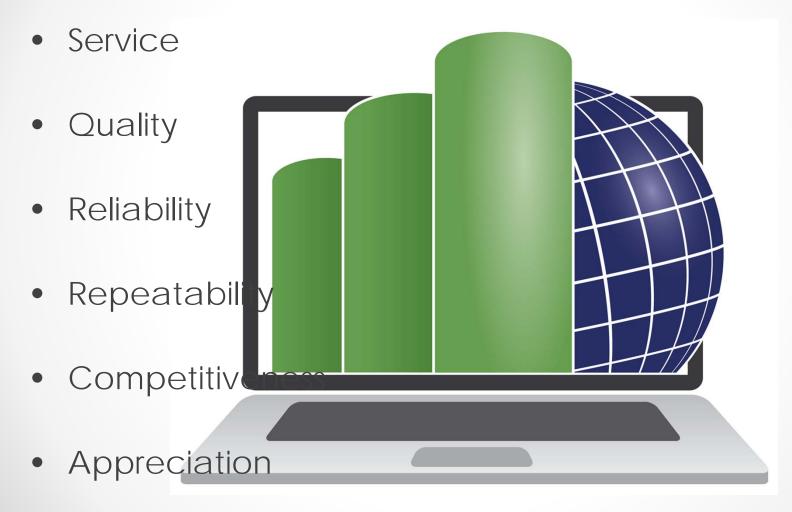
Selecting a Project

Projects fall into one of two areas:

- Voice of the Customer
 Satisfying the "Needs" of the customer
- Voice of the Business
 Satisfying the "Needs " of the busin



Justifying a Project Voice of the Customer





Enhanced Triple Constraint





Justifying a Project Voice of the Business

 Two categories o Sustainability o Continuou Improvement Types of projects o Volume or capacity o Cost reduction o Income er hancing o Replacement o Regulatory o Growth or new business o Goodwill



Financial Justification

Time to pay back usually stated in years



Cash flow



Sustainability



Financial Justification – Simple Years to Pay back

Cost of Project	\$	500,000		
Additional Expenses annually	\$	25,000		
Reduction of Expense Annually	\$	-		
Additional income annually	\$	90,000		
Annual income less annual expense	es r	nets	\$65,000	
Total project cost divided by annua	ıl n	et =	7.69 year to	pay back

This simple calculation does not take into account the additional interest cost on the borrowed money or possible increase in required working capital for larger inventories.



Financial Justification – Simple ROI

Simple ROI Calculation

Divide the annual net income by the cost of the project \$65,000 / 500,000 = 13% return on invested capital

Again this does not consider interest cost



Approval Process





Request for Expenditure

Request for Expendi	iture Date	Submitted
Name of Project	Subi	mitted by
Reason for Project	Income Enhancement Safety Other Regulatory Customer Service Other	Environmental Sustainability
General Description of	project	
Describe Benefits of pro	oject	
Cost of Project	Net impact	on annual income
Years to pay back	ROI	
Estimated Completion I	Date	
Potential Risk		
Approval #1	Da	ite
Approval #2		
Approval #3		

Selecting Personnel





Work Breakdown

- What is to be done
 - o Defined in detail
 - o Stay within project scope
- When is it to be done by
 - o Again be specific
 - Are other steps contingent on its cor
- How is it to be done
 - o Be specific
 - o Who contrals
- Who is it to be done by
 - o Be specific, skills required



Measurable Evaluation Criteria

 Develop indictors that will allow you to review and manage the progress being made in the work breakdown section



Reliable

Agreed upon up front



Communications

- Intercompany
 - o Management, project team, support team, end users
- External
 - o Governmental agencies
 - o Suppliers and vendors
 - o Engineerin
 - o Contracto
 - o Utilities
 - o State, coulty, and local officials
 - o First responders and police
 - o Neighbors', civic leaders
 - o Press



Developing a Bid Package



- Financial line its clearly defined
- Time frame clearly defined
- Quality issues clearly defined

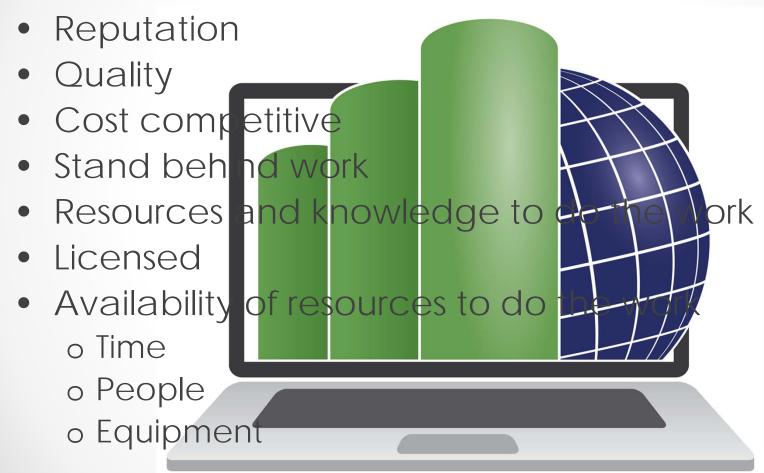


Developing a Bid Package

- Site location property map or Google Earth map
- Location and description of existing structures
- Geotechnical, topographical, or confo
- Storage Capacity total volume
- Method of receiving truck, rail, large etc.
- Method of shipping
- Processing eeds cleaning, dry fumigation sizing, etc.
- Future Expansion heeded
- Equipment preferences
- Safety Policies



Selecting a Contractor





Selecting a Contractor

- Your past experience
- Friends, Associates or colleaguerecommer dations
- Trade Publications
- Equipment Suppliers
- Competitors yes competitors
- Engineering firms
- Financial and civil court records
- Insurable



Contracts





Contracts

Must have a clearly defined scope



- o How it is be done design,
- o Who is going to do it subcon
- o When is i going to be done
- o How much is it going to cost



s, method

anguage

Contracts

- Contract to be detailed enough to convey the scope (no room for "interpretation"
- May include other provisions strait afety rules, equipment usage, utilitie
- Warranties, guarantees, escapação la presenta de la companion de
- Penalties
- Insurance provisions



Procurement

Design / Build Customer furnish some materia equipmen New vs. used equipment Allow for p ofit margin for cont o Spread a cross equipment and ust labor



Insurance/Bonds/Warranties

- Insurance (liability)

 Protects you
 Protects contractor
 Protects hird parties

 Bonds (per ormance)

 Provides inancial protection
- Warranties and guarantees (quality)
 - o Provides quality protection



Project Site Management

- Project manager on site for customer
- Project manager on site for contestor
- Safety rules
- Time site is a vailable for work
- Hours contractor will be working
- List of subcontractors and hired s
- Lay-down yard, staging areas



ranes)

Project Site Management

- Tools and equipment usage
- Utility access
- Meals and ther personnel issues
- Emergency contacts
- Hour slips
- Scope charges \$COPE CREEP!!!
- Quality inspections
- Problem solving process



Project Review

- Compare the finished product to the planned product
- Was work done to contractual so springer
- Did the phy ical project turn out perfected?
- Did the justi cations prove to be
 - o Cost reductions or savings
 - o Income generation
 - o Customer ervice
 - o Regulatory issues addressed
- Were all financial goals obtained.
- Was the project done accident free?
- Does the project need to be modified?



Summary

- Budgets describe "what is expected" and provides measurement to evaluate "what has been done"
- Budgets are only as good as the that go into them.
- Avoid assuraptions in budgeting
- Importance of project selection
- Clear vision of what the project is that results it will provide (part of business plan
- A detailed vritten contract clear aspects of the project scope.
- Good communications must exist between all parties

Summary

- Methodology for mediating problems should be established <u>up front</u>
- Take the tine to do your homew.
- Protect you self
- Budgets provide a format and data to the project malagement
- Review the project





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