Segment-3 (Feasibility lotudy & cost benefit analysis)

- @ Strategic Planning
- Project

Project management

- Feasibility analysis, Typers of feasibility
- 1 Cost benefit analysis ROI, BEP, PV, NPV

 Tairaible banapus
- @ Tangible benefits
- @ Intangible benefits
- 10 one time cost
- @ operational east asimus & atoubourg wan not fraggie &
- 🖲 Business case

factions that diffect ! Strategic planning: Strategic planning is the process of identifying long-term organizational goals, strategies and resources. देल और मर्ड Strategic planning rotards with a management rieview called a SMOT analysis. A smot analysis is a solid foundation for the solvategie planning process, tions becomes of land

> Strength · Encellent Web. design

· Recently upgraded network

opputitunities

- · Hell positioned ton expansion
- ·Can be 1st with new boffuere

- · Still using roevenal legacy
- · Documentation needs apporting

2 Improved Locuvice

of Bellen periformance

Strongett Scotladio

withouthout and &

afros basubof 6

Threads

- · Aggressive near mes competitio
- . Impaid of new FCC TWED

-> competitions

Charles (Losself) though & cost penety margely Project: A project is a temporary endeavon designed Franco (120) 403 (513) to produce unique. Hain neasons for system projects: > The starting point for most projects to called 9

System morning System nequest, which is a formal way of backing efficientle language -for IT support. > Support for new products & services > Betten penformance -> Mone information > Stronger controls -> Reduced cost & Factors that affect systems projects: 1 Internal factorion significant along braits giappers aurat-production > Strategic plan - sols the overall direction for the firm is has on important impact on II projects > Top managens - Dinectives from top managens are a Prime source of large-sociale systems project. > usen nequest > Information technology department -> Enisting systems & data > @ External Factoria: Technology The economy => Guppliens => Grovennment -> Customend >> competitions nrul Spange

And the state of t

Project management: Project monagement is the discipline of initiating, planning, executing, contriolling and closing the work of a team to achieve specific goals and meet specific s pendoning project process Success criteria. 1 Initialing The priged adverse of priparts pripared 1 Planning the project hoddienni too jong out principlation 3 Executing - The project 199/19 of pribodinumnos) 4 To closing down the project was more some some topical topical OInHisting the project: >> Establishing the project initiation team > Establishing The project initiation plan. > Establishing the project management an online on hand copy nepository. Developing the project charter - Project title & dotta of authorization exem tradusqui out of Prioject description too para inframom ad lour but key approach this balances @ Project planning: The next rotop is project planning. There are 10 project planning. > Describing project & cope, feasibility in whole wildens => Dividing the project into managable tasks Developing a prieliminary schedule me dedus budes > Identifying accepsing nisk 011 00+ > Setting a baseline project plan

=> Creating a proliminary budget

- Broject execution: Project execution puts the baseline project plan into action:

 > Executing the baseline project plan

 > Honitoring project process
- > Hanaging changing to the baseline project plan district
- -> Maintaining The project workbook 1, 3 [and 3/ palace)
- -> Communicating the project status
- Project closure: The focus to of project conditions of bring the project to an endicition
- alosing down the project
- > Conducting postproject rieviews
 - > closing the customer contract

Feasibility analysis: Feasibility analysis quides the organization in determining who her to proceed with the project that must be managed if the project is approved.

Types of feasibility: 1) Technical feasibility B Economic feasibility and eyes to many 3 Openational feasibility Should support 4) sehedule feasibility 5 Legal feasibility @ Political feasibility

Technical feasibility: -> It is evaluation of houdauore and softmore > It investigates the technical feasibility of each implementation attermative. not oot doctor H 97 list-11 in toping (1 4= -> It ensuries the candidate system. . batalques

+ It is focused on goining an undenstanding of the price ent technical nesouncers.

Feasibility accomic feasibility: The pumpose of the economic feasibility assessment is to determine the positive economic benefits to the organization > It is called cost benefit analysis. motore man a prilamo +

Pridetical on on acceptable solution exists. operational feasibility: It mofens to the measure of solving problems, with the help of a new Proposed systemplilides - Dimonos &

I It is used to sketch cut the problem and determine in

=> It ensures that the management should support the prioposed system. subsect (3 Legal - Tensibilis

schedule feasibility: system analyst have to estimate oilpling how long the system will take to develop the title > A project will fail if it takes too long to be -> If enounces the condidate saystem. completed.

@ Political - Pensibility

completed within given time schedule

Legal feasibility: Determines whether the proposed system conflict with Legal requirements.

Political feasibility and ITH disting understanding of how key stakeholdens airthin the organization with view the proposed system.

How down the proposed system.

Cost benefit analysis:

Return on investment (ROI): The neturn on investment is a simple calculation that divides the project not benefits (total-benefit - total costs) by the total costs.

ROI formula is;

carb them

Bricak even point: The brieak even point talso ealled the Paybacks method) is defined as the number of yearls it takes a firm to necover its original investment in the project from net cash floursy tilders to be in main affire noite Ericopyro and Malie Graphologiste 133 mod year's Net - mod year's cumulative cash flow cash-flow Number of BEP = years of negative + ____ cash flow Thet year's Net each flow cash flow Fined costs on : (109) trante vai no nonte Chilonga For topping price - Variable costs antichestos ofgrate (total-benefit - total cress) by the total cosis. RET - Perunula 19 5 Total stevenue Total Break pant **~** sales Fixed cost a proporty A which is valued as I Huse and some super interesting unit sold

000 018 Fg: BEP1.

1 2 oil seon

Priesent value (PV):

aton (141) on a different

· openalisad costs

C= cash flow amount

n= nate of neturn

n= year in which the

of a cash-flow occumb.

PV is the current value of a cosh-flows of money on stream of cosh flows given a specified nate of neturn.

Example: Using previous illustration, \$100 received in 3 years with a required rate of return of 10% has a proof \$75.13, $\rho_V = \frac{100}{(1+.10)^3} = \frac{100}{1.331} = 75.13$

Net prosent value (NPV): NPV is the difference between the prosent value of cash inflows and the prosent value of cash outflows over a period of time.

NPV = IPV OF total benefits - IPV of total costs

If NPV >0 - the project is considered economically acceptable.

priming are that sometime adjust south one good

during the creeding of the system

Steps in feasibility analysis:

n= year in which the

cash - Plow occomb.

1. Identify cost of benefits - Development costs

· openational costs

n no Tangible in benefits it ai vi

of each - flows gives a specified note of netunn.

1941 Julie House

are measurable. It include nevenue that the system enables the organization to collect such as increased sales.

Interriporate into the conomic feasibility analysis because they over based on intuition and bolief trather on how hard numbers.

operational cost: operational costs over those tangible costs that over nequired to operate the system, such as the software licensing feet. It is organized cost.

Development cost: It is one time cost. Development costs are those tangible exprenses that our incurred during the creation of the system

2. Assign values to costs & Benefits of : 3200 200 days
3. Determine each I Plouse a mile militaritioni in deachant
4. Assess project economic value > Determine ROI
> Determine BEP
4. Assess project economic value) -> Determine Rol () -> Determine Rol () -> Determine Rol () -> Determine de NPV -
+ why are use doing this project?
one time costis: Associated, with project stout-up, initiation
development. tess fi llim down molt (
-> system development " no amilar ant ai toxia -
New hardware & software pivichases 3100
-> Hear will use measure succeptioning most
-> Site proporation (telle) configuration books
> Data on system convension
Recurring (populational) case: Accordad

Recurring (operational) case: Associated with on-jung use of the system

- > New human nesources +00 costs
- =) Application software maintenance
- > Inchemental data storage expense
- > New software and hoordwoore or of eases
- ? Consumable suppliers

Business case: The term business case neferts to the neasons. on justification, for a prioposal. dono gainmotod s A businessincase should be comparehonsive, yet easy to understand mores (They business case should answer these questions; nitzi whodon's the improjectu about pioneof intens and development. -> How much will it cost -> what is the meturn on investment? -> wheel one the risks of not doing the project? -> How will we measure succession in most -> what alternatives exist? noifprogern ofic 4-+ Data on system convensing

Recurring (sponsolioned) auso: Associated with on Juny use & they bearing declar storage maintaining on Juny use & they bearing declar storage maintaining or Juny use & they bear on the solutions of the continuous and continuous and cases & consumable supplies

DIFFERENCE BETWEEN DELIVERABLES AND OUTCOMES

A project deliverable is something that the project produces, and usually happens at certain intervals in your project (called milestones). For example, a deliverable in a software development project can be "creation of the database".

A project outcome is an abstract concept. I think an example would explain it, so here's one: "The project will give us an edge in the software project management industry". So, in this case, we are developing a project management software, and if we get this project done, then we will have an edge in this industry (because of all the features that this software has). You see, this "having an edge" concept is a project outcome.

Another example: Let's assume that you are involved in one of those mega projects building a tower. Once the tower achieves a certain height, it will become the tallest tower in the world. That's a project outcome, it's not a deliverable.

Unlike a deliverable, a project outcome does not consist of work, but of achievement related to the work. Also, a project deliverable is measurable, a project outcome is not.