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Geog. 581

Exercise 6

One Year Budget Business Plan

Software New version

Internet Products

Replace 1 Laptop

Replace 7 desktops

Replace 1 work station

Replace 1 server

Two Year Budget Business Plan

Software New version

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What is the earliest you will now have to purchase hardware or software without letting your system become obsolete?

Servers: 36 months

Work Stations: 36 months

Desktop: 30 months

Laptop: 18 months

Operating System software: 54 months

Software: 30 months

Internet Products: 18 months

System Interface/Communication Requirement Questions

1. What external databases, if any, are planned for use within the system and what format are they in? What records need to be accessed, how frequently, how quickly?

Data Bases for the U.S.G.S., State and National Forest Service, U.S. and State Fish and Wild Life, Satellite data from NASA and private companies, RGIS, U.S. Census information, National Weather Service, NOAA, tables, GIS data, Vector and Raster,

Most records will not need to be accessed a lot the will be monthly or yearly. Some data will need to be accessed daily or hourly such as the State and National Forest Data during a fire.

1. What are the wait tolerances for the information products?

Most products will have a high wait tolerance. A few will have very low wait tolerances especially during an emergency situation.

1. Where are the data located?

Most of the data will be located on site. Some data will be coming from the outside during emergency events.

1. Where are the data handling locations and what is the data handling load at these locations?

The servers should be on site to store the data.

1. What is the current network configuration? LAN
2. What data volume has to be transmitted, and why?

There will be large amounts of data that will have to be transmitted especially for modeling fires and disasters so a LAN is the best option for in house. The main area that will be transmitting the data would be the main location of the Valles Caldera.

The selection I would make would be a Central Server with workstation clients. The reason for this is that this set up is the most practical for the Valles Caldera due to the data not needing to be transfer all over the Valles Caldera. On site work stations allow for a slower internet connection. The Valles Caldera is in an isolated area and the internet connection would not be very good. The Valles Caldera has out building but the main area that would use the GIS would be the administration building.

Give your estimates below:

# of servers \_\_\_\_\_\_2\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# of workstations \_\_\_\_\_3\_\_\_\_\_\_\_\_\_

# of desktops \_\_\_\_\_\_\_\_20\_\_\_\_\_\_\_\_\_\_\_

# of laptops \_\_\_\_\_\_\_\_\_\_6\_\_\_\_\_\_\_\_\_\_\_

Operating system and GIS software \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_50 licenses \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

First year budget

2 laptops

5 desktops

Second Year Budget

1 server

1 workstation

2 laptops

5 desktops