Analyzing Business Needs

Program Outline for Technology Seminar- How Valles Caldera could benefit from GIS

Attending the Technology Seminar are heads of departments within the Valles Caldera. Also in attendance are advanced individuals within those departments and the GIS planning team.

The current GIS at the Valles are not sufficient. A more thorough GIS is needed to help the Valles Caldera reach monetary, publicity and reservation goals. This Technology seminar is to create a better understanding and a consensual idea about the current GIS of the Valles Caldera and how an improved GIS could help the Valles Caldera meet their goals. We must acknowledge that the current management of the Valles Caldera is inferior and has created problems with the current GIS, thus making it harder to really create an adequate and appropriate vision for the Valles Caldera.

The current and withstanding advanced individuals within each department need to reassure that they have a deep understanding of their study area, so they can assist with the GIS process of having data and eventually creating informational outputs.

Welcome statements: Senior Administrative officer

We are here to essentially create a long lasting bond to work towards the progress and improvement of the Valles Caldera using GIS. This progress of the Valles Caldera is dependent on the current staff of the Valles Caldera and the GIS team that will join to aid in these departments to create sufficient outputs with the data that will be taken from the Valles Caldera and manipulated. We are committed to establishing a GIS that will incessantly provide benefits for the Valles Caldera using highly knowledgeable individuals (staff).

Explain the current GIS at the Caldera

The current GIS are insufficient. Few applications are available to view and manipulate. In order to create outputs, the process of collecting more or newer information needs to be done. We need to establish how much data is currently available and decide what needs to be added, and how it should be collected. There may need to be an introduction of more or newer technology (more workstations, more ideas on how to collect and gather data)

For those that are not familiar with GIS. The following information needs to be presented and understood by all.

What is GIS

A geographic information system (GIS) is a system designed to capture, store, manipulate, analyze, manage, and present all types of geographical data. The acronym GIS is sometimes used for geographical information science or geospatial information studies to refer to the academic discipline or career of working with geographic information systems.

Then would be explaining the parts of the GIS and outlining what will essentially be done with current and newer data

Parts of GIS

Data (Input)- Data that is collected by a number of different sources.

Storage- storing data within attribute tables or databases. Creation of different layers using data.

Management of data- Use of databases to manage information is important.

Manipulation: use of aforementioned data and manipulate it (using different functions within GIS software.

Output (information)- Make SIPs. The creation of aesthetic and easy to understand maps that could be used to

educate and promote the Valles Caldera.
Introduce what all the aforementioned processes create. (SIPs)

What is and SIP?
A SIP is a spatial information product. Spatial information product is the finished, previously manipulated data that can now be presented as information.

The need to clear up the difference between data and information
Data (input) is collected and manipulated and will eventually create information (output) in several forms that can include reference maps, topography maps, etc.

Explain how current and future problems can be addressed
There may be problems with obtaining data.

How long will the GIS process last.

How much will it cost?

What technology (computers will be used and how much would need to be added)

Current management team employed at the Valles Caldera

Name	Job Title	GIS Outputs	Scale
Dennis Trujillo	Executive Director	Entire extent of Valles Caldera, infrastructure, landforms on land, current state of land and animals present, location of recreational activites, what kinds of activities, locations of campsites and cabins	1:100,000
Terry McDermott	Public Affairs Specialist	All possible outputs to maintain leadership role to communicate to the communities and governmental agencies	1:2,000-1: 100,000
Tom Blackley	Information Technology Manager	N/A	
Carmen Blumberg	Lead Interpreter	N/A	
Emily Blumenthal	Special uses, events coordinator	Extent of entire Valles Caldera, land use maps,	1:2,000-1: 100,000

		current specifics about land (animals,vegetation, elevation,) past events that have occurred on the land	
Jamie Civitello	Archaeologist	Archaeological sites, past preserve sites, possible future sites What was found at these sites (artifact(s), date, etc.) Current conditions of dig sites	1:2,000-1: 100,000
Scott Compton	Watershed Program Manager	Locations of water (streams, rivers, lakes) information about animal life in water, surrounding vegetation, water quality, past diseases occurring in water, plant life within the water	1:2,000-1:100,000
Dave Davis	Recreation Planner	Locations of various recreational activities (hunting locations, hiking trails, biking trails ,etc. landforms on land, Elevation, fire hazards, Proximities to water and trails	1:2,000-1:100,000
Linda Davis	Guest services coordinator	Locations of cabins and campsites, sites for future cabins and campsites Sightings of animals, approximate locations of nearby water sources, animals, numbers of people that use these services	1:2,000-1:100,000
Kimberly DeVall	Interpretation and Education specialist	Map of locations for possible educational structures, maps of locations of field work and laboratory work	1:2,000-1:100,000
Rob Dixon	Director Enterprise Division	N/A	

Heather Evans	Archaeological Technician	Current dig sites, past dig sites, field and laboratory work, current conditions of sites, what was found at these sites	1:2,000-1:100,000
Ernie Garcia	Administrative Officer	N/A	
Catherine Gonzales	Human Resources specialist	Locations of visitors, and land use	1:2,000-1: 100,000
Lenda Folks	Administrative Clerk	N/A	
Tim Haarmann	Director Operations Division	N/A	
Steve Herrera	Security Specialist	Entire extent of Valles Caldera, location of gates that block off certain areas	1:2,000-1:100,000
Rourke McDermott	Landscape architect	Entire extent of Valles Caldera, names and locations of vegetation (trees, shrubs, plants, flowers), current state of vegetation, locations and lists of soils	1:2,000-1:100,000
Brenda Montoya	Customer Service specialist	N/A	
Rebecca Oertel	Forest and range plant ecologist	Locations and names of all trees, plants and other vegetation cover, locations of different biomes and associated vegetation, locations and lists of soils	1:2,000-1: 100,000
Kendra Owenby	Archaeological technician	Existing and future archaeological sites (what was found at these sites, date, etc.)	1:2,000-1: 100,000
Berta Pantoja	Administrative Assistant	N/A	
Bob Parmenter	Director science services division	Approximate locations and kinds of wildlife including wildlife to be hunted List of diseases that may have affected those animals, vegetation	1:2,000-1: 100,000

Mark Peyton	Biological science technician-wildlife	Approximate locations, kinds and numbers of wildlife including wildlife to be hunted List of diseases that may have affected those animals, vegetation	1:2,000-1: 100,000
Amy Roberts	Customer Service Representative	Entire extent of Valles Caldera to address any questions by community and visitors	
Marla Rodgers	Fire management officer	Locations of past fires, fire danger zones, wildlife and plant life within these zones	
Marie Rodriguez	Director planning a natural resources division	Location of resources and possible future plans to use that land	1:2,000-1: 100,000
Jackie Stark	Archaeologist	Existing and future archaeological sites (what was found at these sites, date, etc.)	1:2,000-1: 100,000
Ana Steffan	Cultural resources coordinator	Map of resources available	1:2,000-1: 100,000
Lonnie Strain	Maintenance	Locations of cabins and trails that need to be fixed or cleared	1:2,000-1: 100,000
John Swigart	GIS Specialist	All layers exhibited in this table	1:2,000-1: 100,000
Darren Toya	Information technology technician	All layers exhibited in this table	1:2,000-1: 100,000
Mick Trujillo	Hunting and fish manager	Hunting and fish locations, types of animals and fish located in this areas,	1:2,000-1: 100,000
Brittney Van Der Werff	Lead interpreter	N/A	
Jocelyn Warner	Cutomer service representative	N/A	
Johnny Yepa	Maintenance	Locations of cabins,trails, structures that need to be fixed or cleared	1:2,000-1: 100,000

Sharon Youland	Accountant	N/A	

Approximations of the roles of team members

Dennis Trujillo Executive Director Oversee entire number of employees, help maintain budget Budget spending, maintain number of employees Fiscal budget, number of employees Budget, employee work flow
Terry McDermott Public Affairs Specialist Takes care of media concerning the Valles Caldera What publicity to include concerning the Valles caldera, take care of any problems that may arise from the media concerning the Valles Caldera What is going on on the Valles Caldera at all times, up to date information about the Valles Caldera What is said about the Valles Caldera Future plans for the Valles Caldera (budget, etc.)
Tom Blackley Information Technology Manager Maintenance of computers and programs associated with the Valles Caldera How many computers to use, choose appropriate software Which software and hardware is available The amount of knowledge of computers and software by the employees, current situation of GIS
Emily Blumenthal Special uses, events coordinator Locate areas and promote Valles caldera to use for special events Choose which events to incorporate into the Valles Caldera Detailed information about entire park, what establishment want to have an event in the valles caldera, or events that the Valles caldera wants to put on

How many events per month, year, what kinds of events (purpose) of event(charity, publicity)
Scott Compton Watershed Program Manager Manages all water sources (knows what kinds of plant and animal life are present Promote research opportunities Create research opportunities Locations of water, animal and plant life in the water, information about surrounding land. Water quality, water depth, water use
Dave Davis Recreation Planner Planner of seasonal recreational activites (hiking, hunting, fishing) What recreational activities to have, change activities based on seasons and time of year, how much to charge for rentals What kinds of activities are available, When activities can or cannot be done due to inclement weather, or other instances (fire, road blocks)
Linda Davis Guest services coordinator Provides information about the cabins and camp, and different recreational opportunities
Kimberly DeVall Interpretation and Education specialist Helps to promote the valles caldera to schools (universities- use Valles caldera for research, field trip opportunities
Heather Evans Archaeological Technician Actually goes out and performs digs or observatory actions pertaining to the digs.
Steve Herrera Security Specialist Maintains and manages ranger posts, restricted areas

Security for the park
Rourke McDermott Landscape architect Design areas to be used for picnic areas, visitor areas
Rebecca Oertel Forest and range plant ecologist Manages the boundaries of forest and the animals and plant life present
Kendra Owenby Archaeological technician Participates in digs, knowledgeable of archaeological sites
Berta Pantoja Administrative Assistant Assists the Executive director
Bob Parmenter Director science services division
Mark Peyton Biological science technician-wildlife Maintains information on the number location of wildlife and vegetation
Amy Roberts Customer Service Representative Helps to maintain relationship with outside people (community, visitors)
Marla Rodgers Fire management officer Knowledgebale of past fires, possible fire hazard areas
John Swigart GIS Specialist Uses GIS software

Helps collect and provide data to produce informational outputs What GIS software to use, how to collect the data, what kinds of outputs are going to be created All applications (layers) all collected data (elevations, locations, climate) Who and how the data is being collected Deadlines for provided data to eventually become outputs
Darren Toya Information technology technician Maintenance of all computers (programs, security, etc.) How many computers should be used, what programs should be used How many people require computers, everybodies individual understanding of computers (usage of programs) How the computers are operating, employee knowledge of software and hardware
Jocelyn Warner Cutomer service representative Helps with questions or concerns presented by visitors, or the community. How to handle questions that are asked, what is the best decision to benefit all parties Visitor numbers, community concerns Visitor satisfaction
Johnny Yepa Maintenance Maintaining structures (cabins, fences, roads) Whether structure needs repair Locations of these structures The current conditions of these structures
Sharon Youland Accountant Handle payroll, maybe handle money (visitor fees, rentals) Suggest the amount to charge for rental and visitors fees How many visitors a month, yearly, how many employees

Number of employees , visitors per year, month

Products needed to meet responsibilities of the team members

Products needed (data needed to provide adequate output)	
Plant life	trees, plants, shrubs what kind, estimated age, varying types of vegetation, soils
Wildlife	what kinds, approximate numbers, location, animals permitting hunting, hunting areas
Roads	locations of drivable, paved not paved, private roads, public roads
Water sources	lakes, ponds, streams
Recreation	hiking areas/trails, fishing areas, hunting areas, camping areas, locations of cabins, etc.
Forest boundaries	Start and end locations of forested areas
Ranching areas	location of Baca Ranch, fence lines
Fire danger zones	locations, area of occurrence of past fires,possible fire danger zones
Archaeology	archaeologically important areas, name of possible indigenous inhabitants, what was found there
Infrastructure	sewage, power lines, restrooms, visitor stations, ranger posts
Security	Locations of ranger posts, locations of passable roads,
Restricted Areas	Areas that are currently being renovated or used that does not permit visitors
Events	Locations that have had prior events, land suitable for events
Adjacent communities	Approximate distance and location of surrounding communities