



**Gaviota Coast
Planning Advisory Committee
May 25, 2011**



Gaviota Coast Planning Advisory Committee

May 25, 2011

- 1. The Pledge of Allegiance & Roll Call**
- 2. Public Comment Period**
- 3. Administrative Briefings**
- 4. Meeting Minutes Review & Approval**
- 5. Guest Speaker, Mr. Carlyle Johnston**
- 6-8. Recreation & Trails Deliberations**
- 9. Discussion of Long-Term Meeting Schedule**



Gaviota Coast Planning Advisory Committee

May 25, 2011

Agenda Item 1:

A. Pledge of Allegiance

B. Roll Call

Gaviota Coast Planning Advisory Committee

May 25, 2011

Agenda Item 2:

Public Comment Period for Items not on the Agenda

Gaviota Coast Planning Advisory Committee

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Agenda Item 3:

Administrative Briefing

Gaviota Coast Planning Advisory Committee

May 25, 2011

Agenda Item 4:

Meeting Minutes Review and Approval

Gaviota Coast Planning Advisory Committee

May 25, 2011

Agenda Item 5:

Guest Speaker:

Mr. Carlyle Johnston, Public Works Resource Recovery

RECOVERING MORE RESOURCES FROM OUR TRASH

MORE RECYCLABLES, COMPOST
AND ENERGY THROUGH NEW
TECHNOLOGIES



CONTINUING DISCUSSION

**Presented to Gaviota Planning Advisory
Committee on February 9th, 2011**

Tajiguas Landfill and its future

Plans to expand resource recovery

CONTINUING DISCUSSION

ACTION

County Staff to develop policy to:

- 1. Reduce the impact of the Tajiguas Landfill on the Gaviota Coast**
- 2. Not expand the landfill capacity**
- 3. Only accept Santa Barbara County waste**

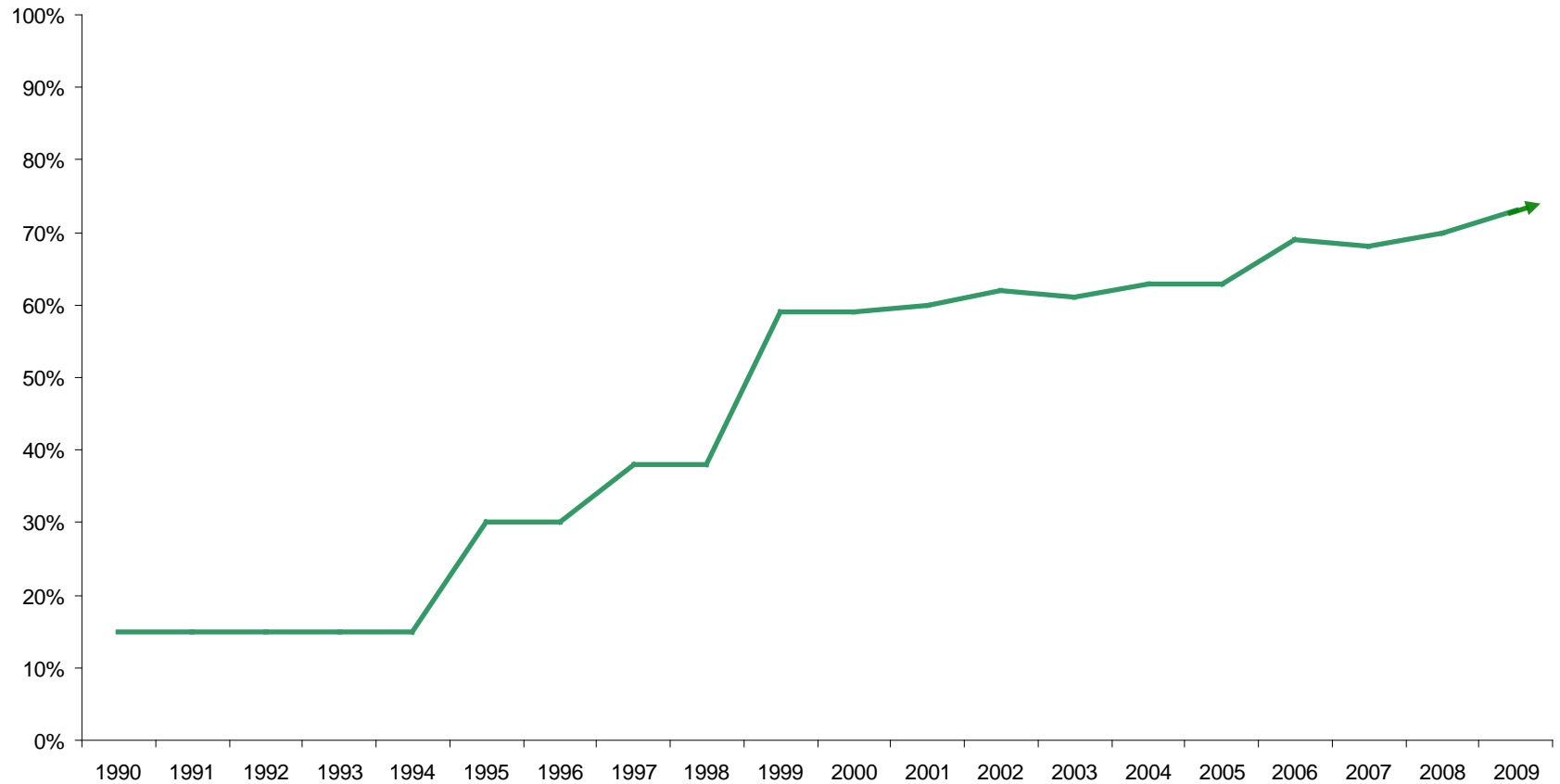
SUCCESSFUL DIVERSION PROGRAMS

Dozens of successful programs have been implemented since the passage of AB939

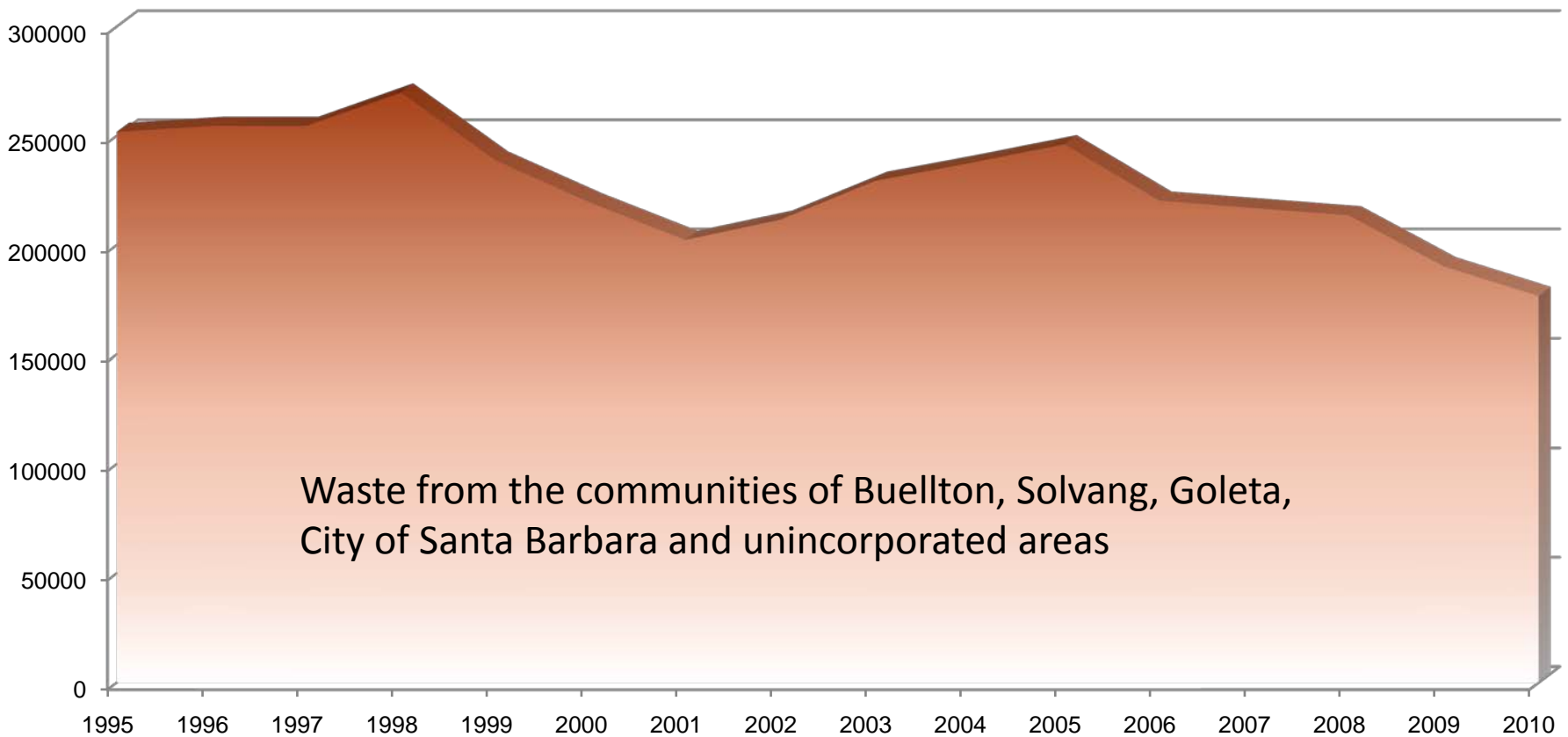


SUCCESSFUL DIVERSION PROGRAMS

Jurisdictions served by Tajiguas divert more than 70% of their waste from the landfill



TAJIGUAS LANDFILL DISPOSAL



WHAT MATERIAL IS BURIED?

Composition of trash has changed

Left with more materials that can not be recycled

	1997	2008	% Difference
Recyclables	32%	25%	-7%
Organics	41%	29%	-12%
Trash	27%	46%	+19%
Total	100%	100%	100%

WASTE THAT IS NOT RECYCLABLE

Composites

- Example: Juice box

Contaminated recyclables

- Example: Paper mixed with food



WHAT WE NEED

... a way of managing what is still being buried.

But not a replacement for existing or planned recycling programs.



GOALS OF PROJECT

Original goals contained in RFP:

- **Pre-processing or converting post-recycled MSW into beneficial products**
- **Reduce environmental impacts of landfilling MSW**
- **Cost-competitive tipping fee**
- **Production of clean green energy**
- **Provide a humane work environment**
- **Result in a long-term waste management plan**

- **Emphasis on not affecting existing or planned recycling programs but management of MSW being landfilled**

THE PROPOSALS

1. Thermal Gasification

Plasco Energy Group

2. Materials Recovery Facility (MRF) & Anaerobic Digestion (AD)

Mustang Renewable Power Ventures

3. MRF, AD & Thermal Gasification

Mustang Renewable Power Ventures

PLASCO

Thermal Gasification

Converts post-recycled trash into a fuel gas using plasma gasification. Fuel is used to generate electricity.

Other components include:

- 1. Simple MRF for extracting inerts, glass and metal only**
- 2. Waste water treatment and recovery facility**



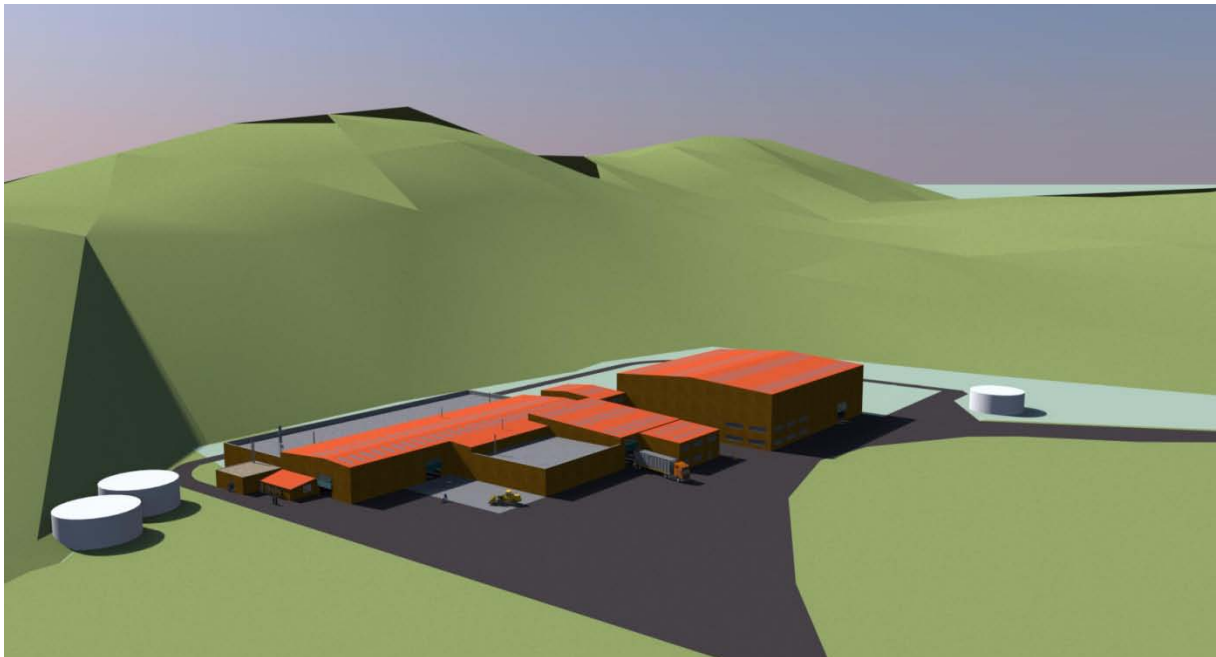
PLASCO –

THERMAL GASIFICATION/PLASMA GASIFICATION

- 15.3 Megawatts net energy output
- 86% to 98% diversion
- ~\$5.00 per month additional cost to ratepayer
- Permitted as a gasification facility

MUSTANG – MRF & AD

Sort msw in an advanced MRF, pull out recyclables for sale & organics for composting. Use enclosed AD modules to compost and generate energy. The remaining waste is landfilled.



MUSTANG – MRF & AD

- ~1 Megawatt net energy output
- ~60% diversion
- \$1.00 to \$2.25 per month additional cost to ratepayer
- Permitted as a composting facility

MUSTANG – MRF & AD

Greater flexibility to process material collected by current and proposed diversion programs

- **Commingled recyclables**
- **Organics**



MUSTANG – MRF, AD & THERMAL GASIFICATION

**Same as MRF & AD
proposal adding a Thermal
Gasification facility to
convert the remaining
waste (that could not be
recycled or composted into
energy).**



MUSTANG – MRF, AD & THERMAL GASIFICATION

- 10.5 Megawatts net energy output (combined net)
- 85% to 90% diversion
- \$4.00 to \$5.00 per month additional cost to ratepayer
- Would add permitting requirement as a gasification facility

MUSTANG – MRF, AD & THERMAL GASIFICATION

Also includes greater flexibility to process material collected by current and proposed diversion programs

- **Commingled recyclables**
- **Organics**



CONTINUED ANALYSIS

**Air emissions during conversion of fuel/gas to energy
(info from vendors and evaluated by APCD)**

Cost impacts under differing scenarios

- Revisit reset schedule
- Smaller scale project
- Confirm tonnage commitments



STATEWIDE ISSUES – THERMAL GASIFICATION

CalRecycle to determine if proposed thermal facility meets statutory requirements for gasification (PRC 40117 has seven criteria including)

- Remove recyclables and greenwaste to the maximum extent feasible
- No emissions during conversion process

Once determined that requirements met, California Energy Commission determines facility is eligible under Renewable Portfolio Standards and able to receive Renewable Energy Credits

STATEWIDE ISSUES - THERMAL GASIFICATION

Plasco facility proposed for Salinas Valley Waste Management Authority was determined to meet gasification requirements by CalRecycle

California Energy Commission determined Plasco project eligible for Renewable Energy Credits

Organizations have weighed in on both sides of CalRecycle's determination.

STATEWIDE ISSUES – ANAEROBIC DIGESTION

CalRecycle's Anaerobic Digestion Initiative

- Goal: Divert 50% of organics by 2020
- Lack of infrastructure to process organics
- Prepared Statewide Program EIR for AD facilities

**City of San Jose approval for
MRF and AD facility for msw**

**Energy Commission grant for
AD facility in Riverside Co.**



RECENT EVENTS

May 23rd elected officials from the County and Cities of Santa Barbara and Goleta met to discuss the proposed projects

- Received project specifics
- Considered statewide developments
- Identified a preference for one of the proposals based on its meeting project goals and providing additional benefits
 - Ability to manage waste locally and avoid the development of a new landfill
 - Ability to support diversion programs by processing materials currently being collected (commingled recyclables and organics)

GOALS OF GAVIOTA PAC

- 1. Reduce the impact of the Tajiguas Landfill on the Gaviota Coast**
- 2. Not expand the landfill capacity**
- 3. Only accept Santa Barbara County waste**

NEXT STEPS

Continue to solicit community and jurisdictional feedback on potential projects



NEXT STEPS

Summer 2011

- **Refine contractual relationship between jurisdictions**
- **Evaluate additional air and cost information from vendors**

Fall 2011

- **Jurisdictional approval of recommended vendor**

CEQA analysis

2012-2014

- **Contractual negotiations with selected vendor**
- **Permits and financial support**

QUESTIONS & COMMENTS



WWW.CONVERSIONTECHNOLOGYSTUDY.COM

Gaviota Coast Planning Advisory Committee

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Agenda Items 6-8:

Recreation & Trails Planning Deliberations:

Discussion of Existing Recreation & Trails Policy

Consideration of Recreation & Trails Preferences

Consideration of Recreation & Trails Planning Tools

Existing Policy

1. Coastal Act (§30210)

“Recreational opportunities shall be provided for all the people consistent with public safety needs, and the need to protect public rights, rights of private property owners, and natural resource areas from overuse”

Existing Policy (cont.)

2. Coastal Land Use Plan

Provide:

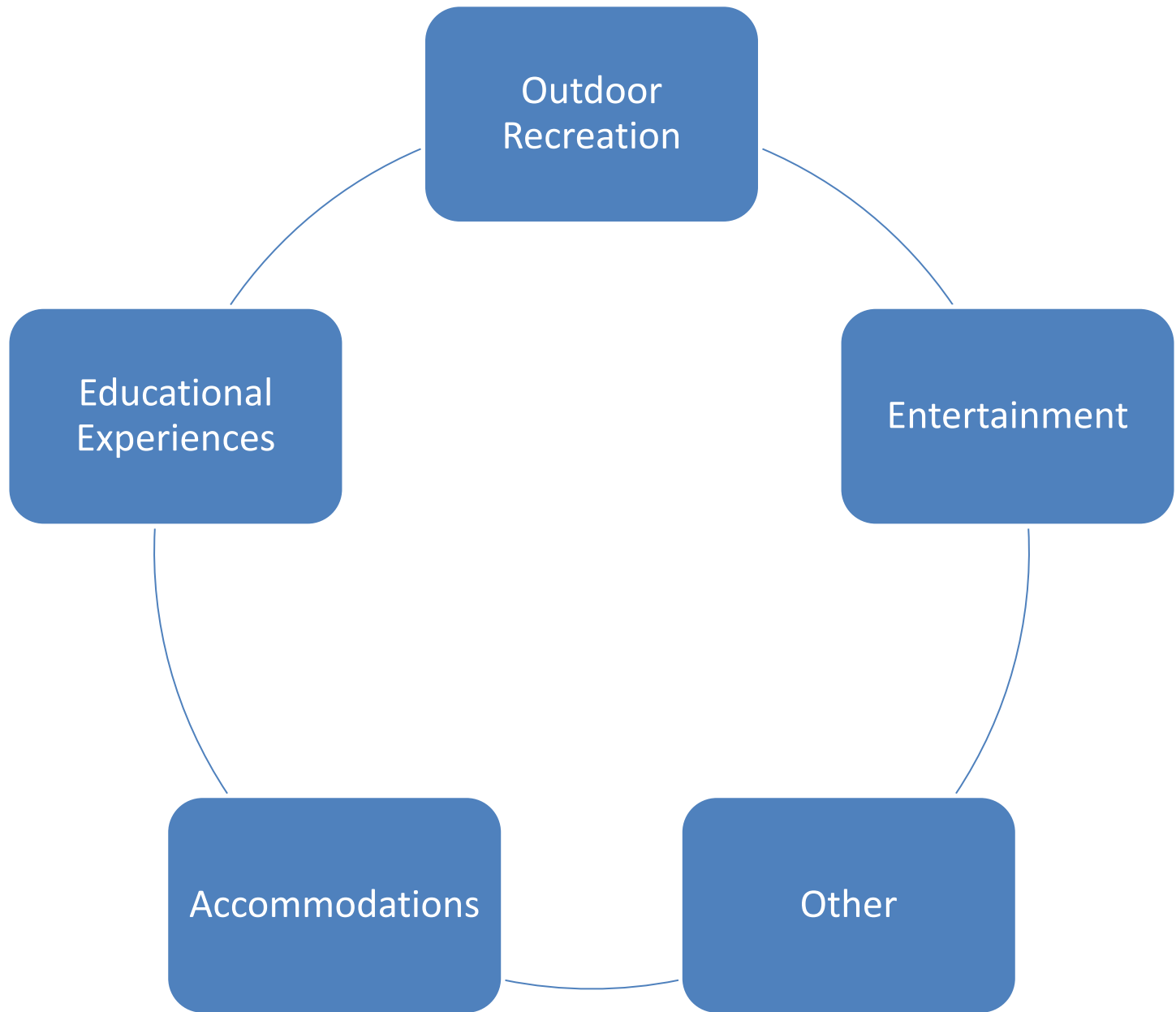
- a. **Expanded opportunities for access and recreation**
- b. **recreational improvements that are compatible with the rural character of the area**
- c. **Priority for campgrounds accessible by bicycle and by pedestrians only and hostels**
- d. **Reserved near shore areas for day use**

Public Recreational Facilities

- 1. With the exception of Jalama Beach Park, the parks on the Gaviota Coast are managed by the State under adopted management plans.**
- 2. In general terms, issues related to recreation opportunities arise from the level of demand, often increasing, on existing facilities/uses and the resultant impacts.**
- 3. Therefore, consideration may be given to providing guidance on appropriate uses and agency to agency relationships and coordination.**

Private Recreational Facilities

- 4. Compatible recreational uses on active agricultural lands (scalability)**
- 5. Ongoing agriculture subcommittee discussions on appropriate uses at appropriate scale providing incidental income**
- 6. Existing recreational uses such as campgrounds (El Cap. Canyon). Other existing recreational/visitor serving uses (Circle Bar B, La Sherpa, Young republicans, etc.)**



Outdoor Recreation

Campgrounds

Fee Hunting/Fishing

Horseback Riding

Guiding & Outfitting

Pack Trips

Educational Experiences

Educational Tours/Activities

Farmwork/Ranch Experience

Workshops

Wilderness Experiences

Animal Feeding

Accommodations

Hostel

Guest Ranches

Retreats

Bed & Breakfasts

Vacation Rentals

Entertainment

Festivals

Hayride/Farm Maze

Dog Trials/Animal Competitions

Other

Golf Courses

Polo Fields

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Agenda Item 9:

Discussion of Long-Term Meeting Schedule

Gaviota Coast Planning Advisory Committee

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	Wednesday	Location	Topic
May	25	Vista	Recreation & Trails I
June	7 15 29	Vista Vista Vista	Recreation & Trails II Recreation & Trails III Recreation & Trails IV
July	6	Vista	Final Topics/Ag. Subcommittee Report

Staff Writes Draft Policy Language

Gaviota Coast Planning Advisory Committee

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Next GavPAC Meeting: Tuesday June 7, 2011 @ Vista de Las Cruces school – 6:30 p.m.



Long Range Planning Division
PLANNING AND DEVELOPMENT

Thank You

