



# “Best Hometown in the Army”

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## Fort Carson, The Mountain Post Sustainability and Environmental Management System (SEMS)

Garrison Commander: COL Eugene B. Smith

Sustainability Planner: Christopher Juniper

17 June 2008

***Our Mission: A professional team of teams dedicated to sustainable hometown management, community well-being, and mission readiness***

***Leading Change for Installation Excellence***



## Overview

**Established 1942**

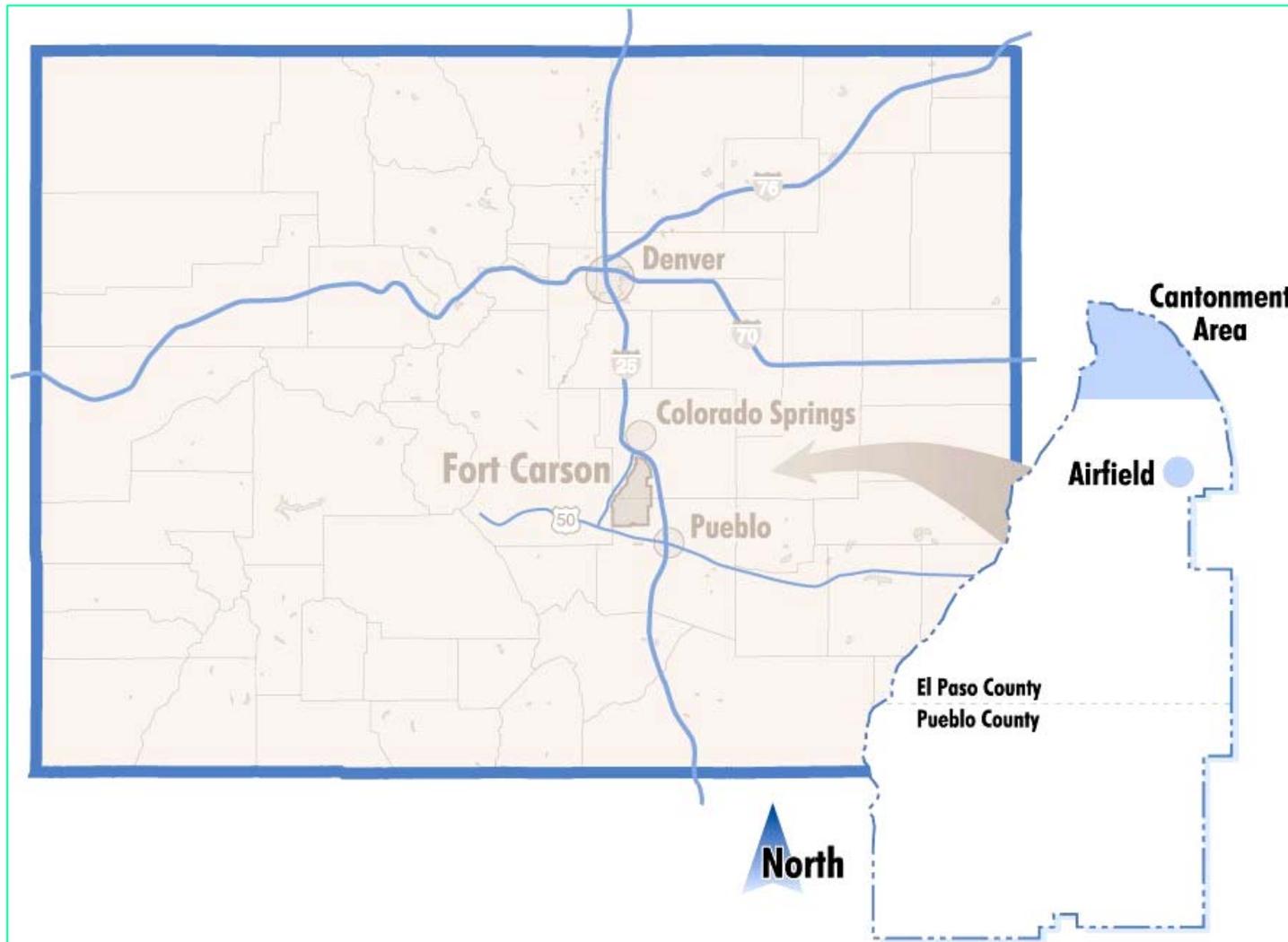
**Currently hosts 19,000 active duty military personnel  
in 10 units**

**Planned growth: 30,000 personnel by 2011**

**Approx. 140,000 acres just south of Colorado Springs  
237,000 acres at Pinon Canyon Maneuver Site**



# Fort Carson Location





## 2027 Sustainability Goals Established at 2002 Community Sustainability Conference

**GC COL Trombitas Committed to 2027 Goals and  
Annual Public Reporting**

**Leading to Annual Sustainability Conferences  
and Annual Progress Report**

**Implemented Through SEMS  
(Sustainability and Environmental Mgmt System)**

**5-Yr Objectives**

**2-Yr Workplans**



## Adopted 2027 Sustainability Goals

### Performance Goals:

**Zero Waste (solid waste, hazardous waste, wastewater)**

**100% Renewable Energy**

**75% Reduction Water Purchases**

**Sustainable Transportation**

**Sustainable Procurement**

**Sustain Mission Capability (land mgmt)**



## Adopted 2027 Sustainability Goals Process Goals

**Awareness and Competence Training**

**“Community of One” and Partnerships**

**Develop SEMS = Sustainability & Environmental  
Management System**



## 2007: Integration with Fort Carson Strategic Plan

**Mainstreams Sustainability Goals**

**Distributes Sustainability Leadership**

**5 Strategic Goals:**  
**Workforce Development**  
**Mission Readiness**  
**Community Well-being**  
**Hometown Management**  
**Sustainability**



## Sustainability EMS: Context

**What does it mean to integrate sustainability?**

**Include Social / Community Aspects / Impacts**

**Manage for sustainability performance, not just compliance or continual improvement**

**Extend EMS boundaries to cradle - cradle**



## Sustainability EMS: Context

### Sustainability-integrated Systems

Rejuvenation Inc., Portland OR - 1999

BMW Design Works - ~2001

Ft. Bragg - 2003

Homestead ARB and March ARB, USAF

See: The Sigma Guidelines, 2006

The Sigma Project, UK



## Sustainability EMS: Context

### Army Environment Strategy, 2004

**“Sustainability is the foundation for this strategy.”**

“We must strive to become systems thinkers if we are to benefit from the interrelationships of the triple bottom line of sustainability: mission, environment and community.”

“We must implement effective policies and practices that safeguard the environment and our quality of life...”

“A sustainable Army...safeguards human health, improves quality of life and enhances the natural environment.”



## 2003 and 2008 Sustainability EMS Policy

“Fort Carson embraces sustainability as a partnership between our present and our future.

We are committed to accomplishing all of today’s missions in a way that will allow our successors to accomplish all of tomorrow’s missions.

In doing so, we pledge to constantly improve the ways we care for, save, replenish, and find new and better uses for all the resources entrusted to us.”

**Adopted by Commanding General and Garrison  
Commander**



# Fort Carson Sustainability & EMS

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## Sustainability Impact Ratings, 2005

**Examine Activities, ID & Rate Sustainability  
Performance & Impacts**

**Ratings - Using the NEWS Sustainability Compass  
(Alan AtKisson)**

**Nature**

**Economy**

**Well-Being**

**Society**



## 2006 Sustainability-based Aspects/Impacts Ratings

### Significant Aspects:

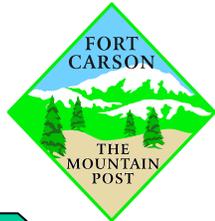
**Water Supply - Quality and Quantity**  
**Transportation**  
**Land / Soil**  
**Cost / Budget**  
**Energy**  
**Solid Waste**  
**Air Emissions**  
**Hazardous Waste**



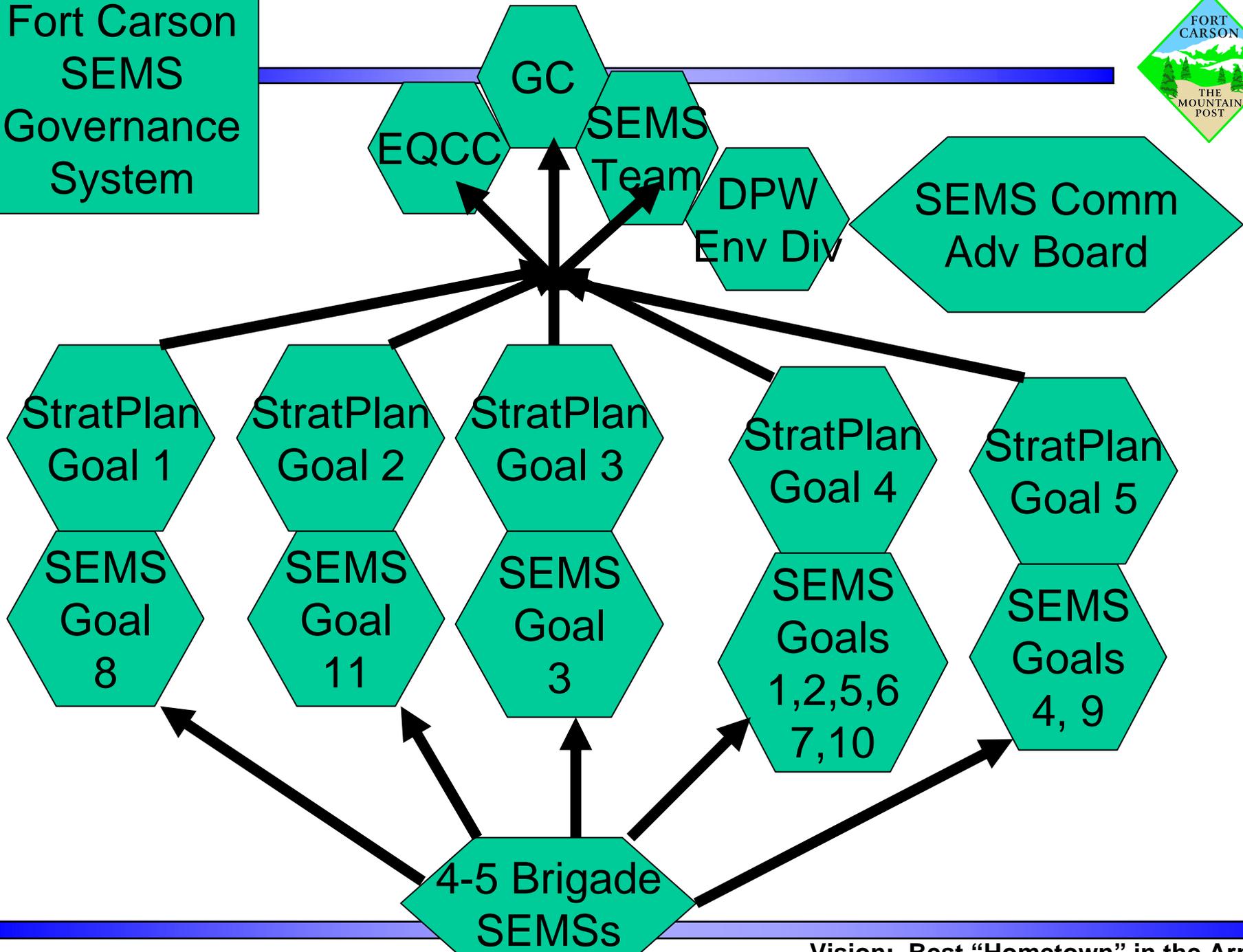
## Management & Implementation Structure

**Garrison Commander supported by Environmental Quality Control Committee of tenant and garrison leaders and SEMS Action Officer (Mary J. Barber) / Sustainability Planners.**

**12 Sustainability Goals: a Garrison leader as Goal Proponent for each, and a Garrison leader as proponent for short-term Goal objectives incorporated into Garrison Strategic Plan.**



Fort Carson  
SEMS  
Governance  
System



Vision: Best "Hometown" in the Army



## Management & Implementation Structure Roles and Responsibilities:

### Director of Public Works:

**Hometown Management Strategic Action Plan  
Energy / Water, Master Planning, Buildings,  
Zero Waste, & Air Emissions Sustainability Goals**

### Director of Morale, Recreation, Welfare:

**Workforce Development Strategic Action Plan  
(includes Sustainability Training)  
Sustainable Procurement Sustainability Goal**



## Key Fort Carson-generated Guides

**Gap Analysis - 2003**

**SEMS Manual - 2004**

**Implementation Plan - 2005 (updated 2008)**

**Sustainability Performance Guide - 2008**

**ALSO SEE: US Army Commander's Guide for  
Mission-focused Environmental Management  
Systems - 2007**



## SEMS Training Structure

**All personnel: annual SEMS Awareness Briefing**

**Managers / leaders: annual SEMS Competence Training**

**Competence Training includes development of unit plans for SEMS performance – both SEMS procedural requirements and Sustainability Goal performance**

**Special focus on sustainable procurement and particular significant aspects of that unit**

**Embedded staff in Soldier units support actions and ongoing training by Environmental Protection Officers**



## SEMS Implementation Plan 2008

**Leaders: Sustainability Goal Proponent & Sustainability Goal Champion (Strategic Action Goal Lead)**

**Supported by: Multi-directorate and (ideally) stakeholder Sustainability Goal Team, headed by a Lead and supported by Sustainability Planners**



## SEMS Implementation Plan 2008

### Garrison Commander Role:

**Monthly reporting by Strategic Action Goal Leads**

**Monthly Sustainability Goal “Themes” including Post newspaper article and GC Breakfast**

**Monthly Sustainability Team meeting**

**Annual SEMS Review**

**Convenes EQCC Quarterly**



## Southern Colorado Sustainable Communities partnership

(Under development)

**Sustainable development education for citizens,  
businesses, institutions**

**Educational partners: NGOs promoting sustainable  
development, academic institutions**

**Convening partners: governments and civic  
organizations that invite educational events**



## Garrison Commander COL Eugene B. Smith

Sustainability Program Leaders:  
Tom Warren and Mary Barber

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