

Geos Neighborhood

Arvada, Colorado, U.S.



Size:

23 acres, 282 residential units

Dates:

2009 - ongoing

Project Team:

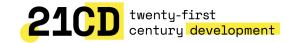
Architect: Michael Tavel Architects; Landscape Architect: David Kahn

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The Geos neighborhood is a mixed-use community revitalization project built on former industrial land. It utilizes sustainable neighborhood practices to create a people-oriented community that enhances the environment and deters sprawl.

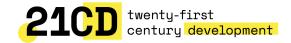
Goals & Strategies

Place	
Food	Goals: Goals not defined. Strategies: Edible landscaping, fruit trees. Community gardens. Central square designed to hold a farmers' market. Garden space available on residential property.
Habitat	Goals: 8.5 acres of parks and open space. Strategies: Tree-lined streets, community greens and parks. Wildlife habitat.
Transportation	Goals: Goals not defined. Strategies: Walkable communities, bike paths, pedestrian-oriented development. 1.5 parking spaces per dwelling unit.
Water	
Water	Goals: Promote stormwater infiltration. Strategies: Stormwater management planned at all scales of the development. Permeable pavers. Stormwater retention through bioswales and parks. Surface water runoff. Water-conserving irrigation.



4 Energy						
Energy	Goals: Net-zero energy. 100% renewable energy produced on site. Strategies: Passive solar design, solar PV. District heating through ground source heat pumps. Energy-efficient design reducing energy demands by 20%. SIP construction to promote air-tight, well-insulated envelope. Insulated slab. Triple-pane windows.					
公 Health + Happin	ness (Details not provided by researchers)					
⊗ Materials						
Embodied Energy & Carbon	Goals: Sustainable materials. Strategies: Low-emitting materials. Renewable sources for floors. Recycled ceramic tile.					
Waste	Goals: Construction waste diversion. Strategies: Trash and recycling services.					
目 Equity						
Neighborhood & Access	Goals: Promote a walkable community. Strategies: Public access to streets, mixed-use neighborhoods. Variety of housing including cohousing, single-family and apartments.					
Access to Nature	Goals: Goals not defined. Strategies: Indoor air quality monitoring and filtered ventilation.					
Access to Community Services	Goals: Goals not defined. Strategies: Access to services, walkable design, walkable to amenities.					
Beauty	(Details not reported by researchers)					

> See next page for Performance Levels achieved



Performance Levels Achieved:

	Standard	Good	Better	Living	Regenerative
Place					
Limits to Growth					
Food					
Habitat					
Transportation		b 1 1 1 1			
Water					
Ename					
Energy					
Health + Happiness					
Civilized Environment					
Neighborhood Design					
Biophilia					
Resilient Connections		h 1 1 1 1	1		
Materials					
Material Plan					
Embodied Energy & Carbon					
Waste					
Equity					
Neighborhood & Access					
Access to Nature					
cess to Community Services					
Investment			 		
Beauty					
Beauty & Spirit	Not specified				\

Sources:

http://discovergeos.com

 $\underline{http://www.discovergeos.com/GEOS\text{-}DesignBook.pdf}$

https://www.asla.org/sustainablelandscapes/geos.html

*Note: This case study was developed using found information.

21st Century Development is a model for the creation of regenerative communities that strives to provide a healthy environment for all people and living systems now and in a dynamic future.

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