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MIL_CIV Immersive Surface

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5-1-2009

Architecture Thesis, 2009-Elizabeth Quick: MIL_CIV immersive surface

Elizabeth Quick



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"The great empire that created a map that was so detailed it was as large as the empire itself. The actual map itself grew and decayed as the empire itself conquered or lost territory."

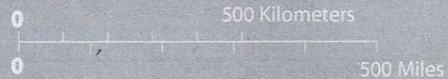
-Jorge Luis Borges



MIL_CIV immersive surface

Elizabeth Quick

Primary Advisor: Mark Linder
Secondary Advisor: Michael Peikin



ABSTRACT

1:1 map: monitor measure track train ←

[EX]trinsic trajectories:

- 6 GPS / radar technologies
- 8 MilSim gaming
- 9 Airsoft as CQB training
- 10 civilian defense meets civilian recreation

→ tracking military and recreational activity on Montauk

[IN]trinsic trajectories:

- 14 transitions from military to recreational activity
- 15 Taxonomy of tracking training artifacts within the site
- 20 Tracking seasonal population influx
- 17 Profiling Montauk: arts/espionage/fishing/luxury getaway
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mil-civ immersion ←

projected trajectories:

- 22 program modulator
- 24 itineraries
- 30 networks/adaptations/insertions/surface
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SOURCES

ABSTRACT

"The great empire that created a map that was so detailed it was as large as the empire itself. The actual map itself grew and decayed as the empire itself conquered or lost territory."

-Jorge Luis Borges

The pervasive proliferation of complex tracking systems such as GPS and simulation gaming environments such as Full Spectrum Warrior are transforming the built environment into an immersive 1:1 map where all flows and transactions are measured, monitored, and tracked. The gap between map and real experience disappears resulting in an immersive map. The spatial implications of this real time 1:1 immersive map creates an **opportunity for architecture itself to monitor, track, and measure flows and transactions.** This tracking and simulation agenda plays out specifically in the **design of a surface that integrates military training, military artifacts, and civilian recreation into the MIL_CIV surface** that modulates due to games, time of day, season, and participants acting on the site.



Extrinsic site:

The broader context of simulation and tracking techniques emerge from the U.S. military-industrial complex as a partnership between military agendas of defense and postwar civilian agendas of recreation

Intrinsic site:

Former Montauk Military Base has transitioned from a program of military defense to a recreational program authorized by the national park service in 2002. Currently, there is an unusual relationship between this historical defense program and recreational activities such as picnicking and hiking.

Itineraries:

5 itineraries ranging from U.S. army soldiers to single family vacationers are designed to integrate and juxtapose different tracking and simulation games at play into a single immersive experience where the line between target practice and lounging on the beach becomes difficult to discern.

Networks / Adaptations / Insertions / Surfacing

visual sitelines that network existing military artifacts within and around the former Montauk military base

immersive wall that networks simultaneous discrete events occurring site

Adapt existing military artifacts to participate in this immersive mil-civ game

Insert new volumes that

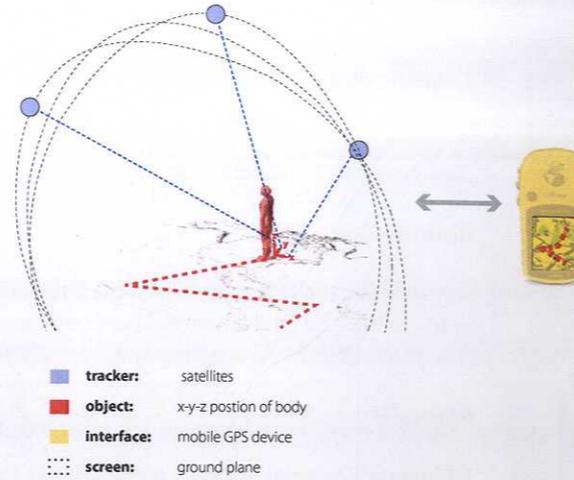
Design surfaces that map different tracking and simulation territories

ABSTRACT

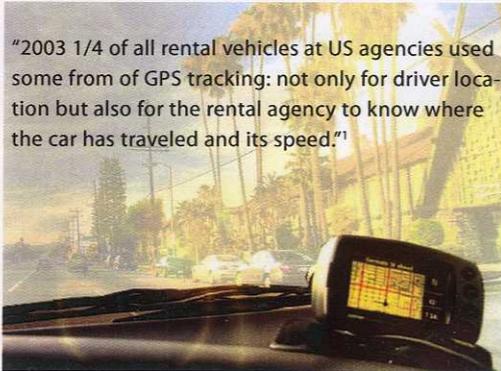


GPS: mobile mapping

GPS can simultaneously map an object in space while the object is in motion. Therefore the technology allows the potential for individuals **occupy a real time map**, where the gap between representation, (the map), and inhabited environment disappears. GPS technology was pioneered by United States Navy in the 1960s to track military weapons and improve missile guidance. In 1983 GPS technology was officially demilitarized and available for civilian use. Popular applications today are recreational such as aiding in hiking and driving



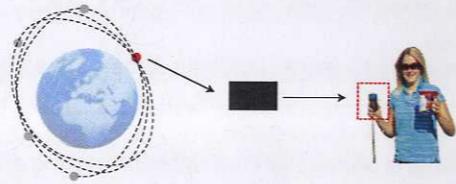
Immersive map



"2003 1/4 of all rental vehicles at US agencies used some form of GPS tracking: not only for driver location but also for the rental agency to know where the car has traveled and its speed."

Dennis, Kingsley. *Global Gridlock: How the US Military Industrial Complex Seeks to Contain and Control the Earth and its Ecosystem*. April 2 2008 Centre for Global Research www.globalresearch.org

how it works: satellites orbit earth and transmit x-y-z position to ground control stations which transmit data to individual receivers



Recreational GPS



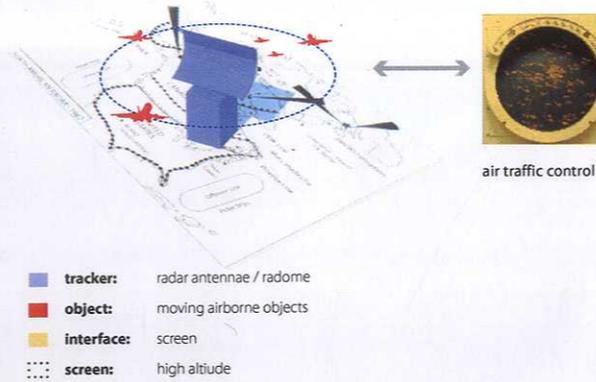
Geo-caching

type of treasure hunt where participants search for hidden caches using hand held GPS devices.

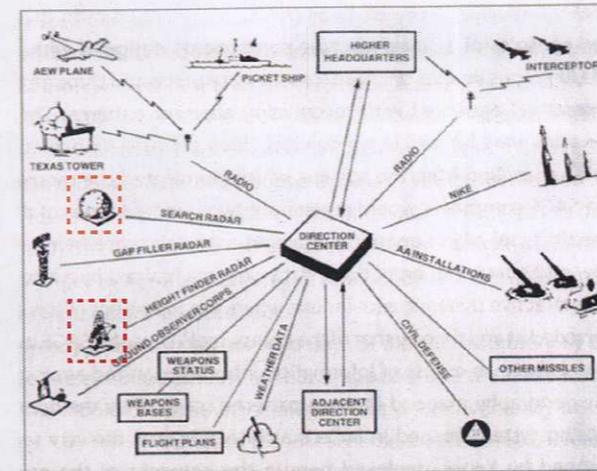


Virtual-caching

Virtual caching provides GPS coordinates to existing points of interest where the participants answer a question or a riddle about the existing landmark or monument, or take a picture to let the cache "owner" know the participant was there.



how it works: radar transmitter emits radio waves that are reflected by target and detected by a receiver allowing transmitter to detect long range objects that can't be seen or heard



Martin, Reinhold. *The Organizational Complex: Architecture, Media, and Corporate Space*. The MIT Press 2005

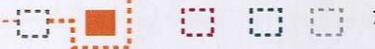
eyes which cannot see: RADAR

Radio detection and ranging transformed the war machine into a space opera; a war that was fought remotely underground in situation rooms. Invisible communication networks replaced physical network of observation towers. The screen detached military personnel from actual events that took place and became the primary means of interface between war opponents. This spatial paradigm of screen as interface between subject and object MIL_CIV immersive surface investigates the opportunities in the interface as a means of networking remote activities

"Thus SAGE exemplified in both its architecture and in the logistics of its design and production the **dispersed, computerized spatiality of the organizational complex** as it passed through the research laboratories of universities and corporations."

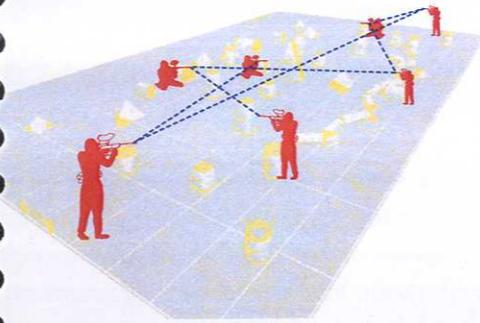
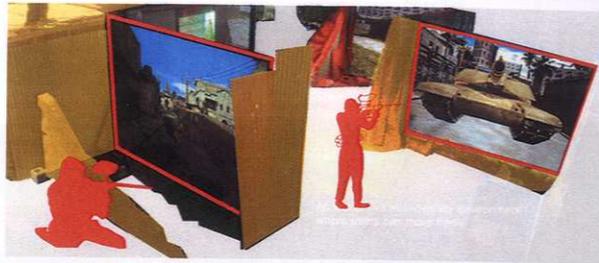
-p190 The Organizational Complex: Topologies of Knowledge by Reinhold Martin

[S] ite: measure monitor track train



MILSIM Training: 'Grand Theft' military simulation

The Military and private gaming companies and institutions team up to develop innovative training technologies that simulate war scenarios. Eventually these technologies trickle down into the consumer market. The Institute for Creative Technologies is a perfect example of an academic military partnership that spawns consumer products tied to military logics.



- **object:** x-y-z position of body
- **interface:** bunkers + gun
- screen:** ground plane



Tactical Airsoft Center address: TBA
phone number: TBA
<http://www.airsoftcenter.net> TUE 1000-1800
SATS 800-1800

games: Sentry Stalking, Man Tracking, Combat Techniques, CQB, Sniping, Domestic Threat Response, and Tactical Recovery of Aircraft and Personnel

size: 5 indoor fields 7 outfields

user: law enforcement military civilian



Airsoft CQB field 10902 Carolina Dr. Manassas, Va. 20110
Field: (703) 335-6800
<http://www.airsoftcqb.com> MKTH 12pm-7pm
SATS 3pm-7pm
10am-6pm

games: Special Events designed for military simulation and entertainment Airsoft enthusiast team and public use

size: 17,000 sqft.

user: law enforcement military civilian



Shadow Tactical Operations Center 324 Yolanda Ave Unit B Santa Rosa, CA 95404
707-578-9600
<http://www.shadowtactical.com>

games: CQB, airsoft, gaming

size: 6,000 sqft.

user: law enforcement military civilian



Tactical Airsoft Center address: TBA
phone number: TBA
<http://www.airsoftcenter.net>



=



"The armies version of Grand Theft Auto appeals to our young soldiers"
-officer who used JFETS

"The Contruction of the module was superb and made me feel like I was back in Bagdad."
-soldier who used JFETS

ict.usc.edu/The University of Southern California Institute for Creative Technologies



=



Japan imposed export controls on Playstation II because the graphics card was capable of such precision that it could guide a cruise missile

-Richard Re Playstation to Detonation

Pandemic Studios LLC.

FSW army training XBOX

FSW for PS2

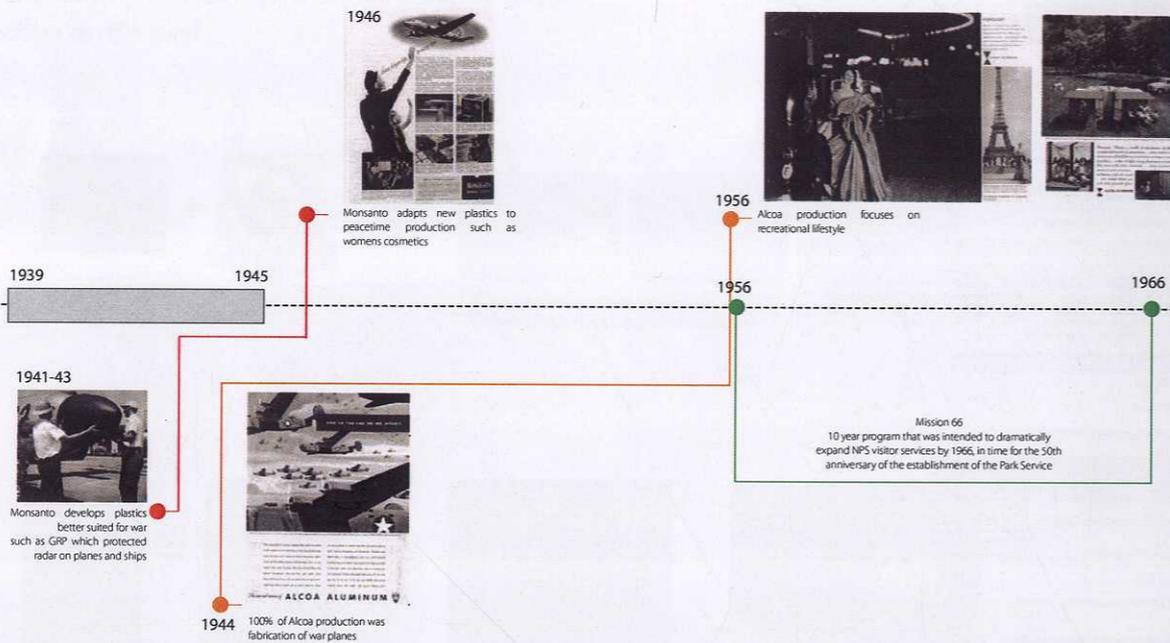
civil simulation: AIRSOFT

Combat sport whose primary objective is to shoot opponent with gas filled plastic bb's. Scenarios range from Close Quarters Battle training, Search and Rescue, Sniping, and capture the flag. This sport is played by military simulation game enthusiasts for recreation, as well as law enforcement and military personnel for training purposes. Currently, there are facilities that accommodate recreation and training. Architecturally, they are banal warehouse spaces and unmaintained outdoor fields. Airsoft as recreation and training simultaneously and adjacent begins to play out potential immersive relationship training can have with recreation

[S] ite: measure monitor track train

war time production meets production of a recreational lifestyle

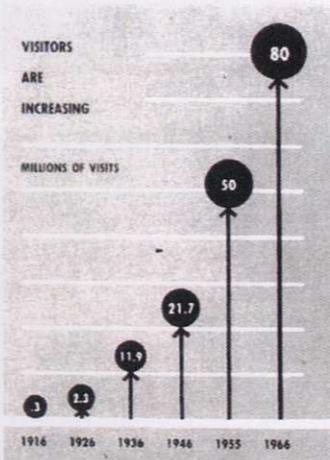
During World War II the United States experienced an unprecedented period of growth for the industrial economy. Companies such as Alcoa, Boeing, and others were primarily manufacturing products to sustain the war machine. Once the war came to an end these companies had to retool themselves to cater to a post-war recreational economy. Below is a timeline indicat-



All photos from *Cold War Hot Houses: From Cockpit to Playboy*. Princeton Architectural Press 2004 (see "sources")

Mission 66: park as a patriotic experience

With the end of World War II recreation to center stage in the typical American family. For this reason America's system of national parks originally conceived in the early 20th century was stretched very thin in terms of infrastructure. Therefore, Eisenhower developed Mission 66 whose primary objective was to assess the needs of America's national parks service in relation to an increasing postwar influx of visitors. This required conducting analysis of existing parks and improving their ability to handle the increasing amount of visitors. Mission 66 ambitiously attempted to frame the natural landscape as a desirable image easily accessible to the modern family. As a result, the park experience was more about an image to be consumed than about engaging a natural landscape.



"Following World War I, recreation moved out the cities as automobile owners embarked on weekend and holiday excursions into the American country side. The modern highway encouraged mobility and came to be associated with the very concepts of democracy and freedom"

-Jeannie Kim from *Coldwar Hothouses*



"Women want good trails, trails they can walk on in high heels. Trails to points of interest should be hard surfaced and smooth enough for high heels"

-suggestions from Mission 66

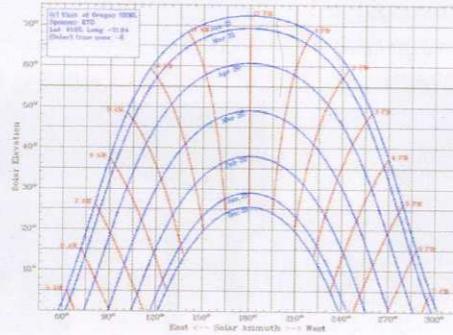
[S] ite: measure monitor track train

Tracking Montauk's sun wind and water

Montauk, NY, gets 44 inches of rain per year. The US average is 37. Snowfall is 16 inches. The average US city gets 25 inches of snow per year. The number of days with any measurable precipitation is 93.

On average, there are 206 sunny days per year in Montauk, NY. The July high is around 80 degrees. The January low is 24. Our comfort index, which is based on humidity during the hot months, is a 49 out of 100, where higher is more comfortable. The US average on the comfort index is 44.

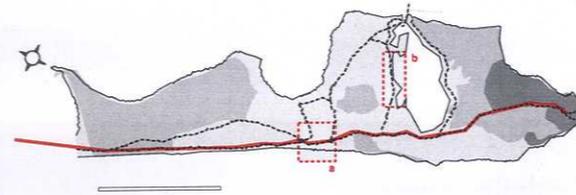
Climate	Montauk, NY	United States
Rainfall (in.)	43.8	36.6
Snowfall (in.)	15.5	25.2
Precipitation Days	93	101
Sunny Days	206	205
Avg. July High	79.7	86.5
Avg. Jan. Low	23.7	20.8
Comfort Index (higher=better)	49	44
UV Index	3.7	4.3
Elevation ft.	10	1,062



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
Suffolk Co	DIR	NW	NW	NNW	SW	SW	SW	SW	SW	SW	W	W	SW
AFB	SPD	10	10	10	9	9	8	8	9	9	9	9	9
	PGU	58	61	60	58	43	40	44	40	76	48	62	61
													76

NATIONAL CLIMATIC DATA CENTER
 151 PATTON AVENUE ROOM 120
 ASHEVILLE, NC 28801-5001
 (NCDC)
 PHONE: (828) 271-4800 INTERNET: orders@ncdc.noaa.gov
 FACSIMILE: (828) 271-4876 WEB site: http://www.ncdc.noaa.gov
 November 1998

Indexing existing surface conditions and ecologies



COMMUNITIES and ECOSYSTEMS

- Marine Rocky Intertidal
- Maritime Interdunal Swales
- Maritime Heathland
- Maritime Grassland
- Maritime Shrubland
- Maritime Oak-Holly Forest
- Successional Maritime Forest
- ANIMAL CONCENTRATION AREAS
- Waterbird Nesting Colony
- Waterfowl Concentration Area



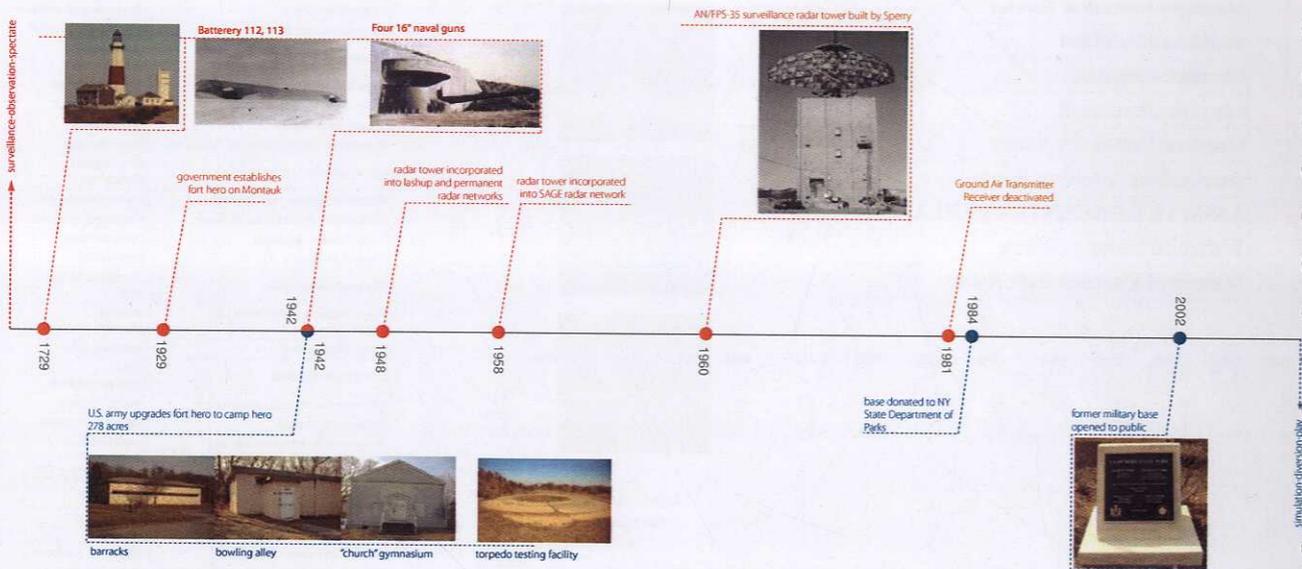
VASCULAR PLANTS	
<i>Schizaea pusilla</i>	curly-grass fern
<i>Carex hormathodes</i>	necklace sedge
<i>Carex mesochorea</i>	midland sedge
<i>Carex mitchelliana</i>	Mitchell's sedge
<i>Cyperus polystachyos</i> var. <i>texasensis</i>	coast flatsedge
<i>Eleocharis halophila</i>	salt-marsh spikerush
<i>Eleocharis tuberosa</i>	long-tubercled spikerush
<i>Fimbristylis castanea</i>	marsh fimbry
<i>Lipocarpa micrantha</i>	dwarf bullrush
<i>Arethusa bulbosa</i>	swamp pink
<i>Platanthera ciliaris</i>	orange fringed orchid
<i>Platanthera cristata</i>	crested yellow orchid
<i>Spiranthes vernalis</i>	grassleaf ladies'-tresses
<i>Sesuvium maritimum</i>	seabeach purslane
<i>Hydrocotyle verticillata</i>	water-pennywort
<i>Ligusticum scoticum</i>	scotch lovage
<i>Eupatorium hyssopifolium</i> var. <i>laciniatum</i>	fringed boneset
<i>Liatrix scariosa</i> var. <i>novae-angliae</i>	New England blazing-star
<i>Viburnum dentatum</i> var. <i>venosum</i>	southern arrowwood
<i>Mimurta</i> (= <i>Arenaria</i>) <i>caroliniana</i>	pine-barren sandwort
<i>Helianthemum dumosum</i>	bushy rockrose
<i>Cuscuta pentagona</i>	field-dodder
<i>Pycnanthemum torrei</i>	Torrey's mountain mint
<i>Pycnanthemum verticillatum</i> var. <i>verticillatum</i>	whorled mountain-mint
<i>Linum intercursum</i>	sandplain flax
<i>Oenothera oakesiana</i>	Oakes' evening-primrose
<i>Plantago maritima</i> ssp. <i>juncoides</i>	seaside plantain
<i>Polygonum glaucum</i>	seabeach knotweed
<i>Polygonum hydroperoides</i> var. <i>opelousanum</i> (= <i>P. opelousanum</i>)	northeastern smartweed
<i>Rumex hastatulus</i>	heart-winged sorrell
<i>Hottonia inflata</i>	featherfoil
<i>Lysimachia hybrida</i>	lance-leaved loosestrife
<i>Amelanchier nantucketensis</i>	Nantucket juneberry
<i>Oldenlandia uniflora</i> (= <i>Hedyotis uniflora</i>)	clustered bluets
<i>Agalinis acuta</i>	sandplain gerardia
<i>Agalinis virgata</i>	pine-barren gerardia

[s]ite: intrinsic trajectories on Montauk



chronological taxonomy of tracking and testing artifacts on Montauk's former military base

Montauk's lighthouse built in 1796 under George Washington is the first instance of tracking on the site. Training and tracking plays out up until the end of the Cold War when the radar antennae was disabled. The site experienced a long dure between 1980-2002 when the base was officially declared a national park.



Measuring components of Montauk military base

battery 112
77,500 sqft.



battery 113
77,500 sqft.



east hampton affordable housing
29 acres



cold war SAGE radar antennae



WWII camouflage tow
2.8 acres



[s]ite: intrinsic trajectories on Montauk



Tracking historical recreation and military activity on Montauk

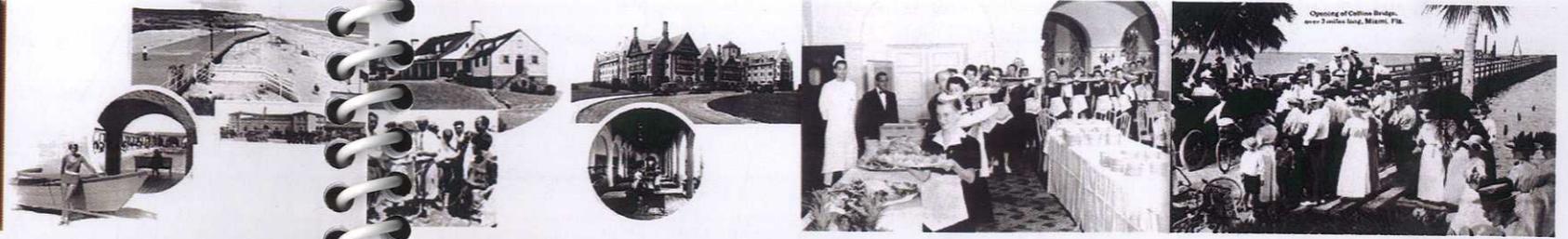
montauk as resort: "Miami in the summer Montauk in the Winter"

"Now Montauk Beach, through the vision and resources of a group of distinguished builders, is being transformed into **America's finest out-of-door center, where the real aristocrats of modern America may find new health, new relaxation, new ways to play** amid luxurious surroundings."

-Carl Fisher from 1932 promotional brochure



All photos from Montauk Historical Society



Montauk Manor

Opening of Collins Bridge, over Jones Inlet, Miami, Fla.

montauk as site of national defense: from 1796-1980

George Washington authorized the construction of lighthouse for **nautical observation** and national defense. 1942 Montauk beach was host to **german espionage campaign** which led to the construction of observation bunkers now visible in Shadmoor State Park, and Camp Hero was outfitted with 2 anti-missile batteries with 4 gun emplacements never used but still remain in Camp Hero State Park, and 1960 Sperry built radar antennae for **air defense against soviet nuclear bombers** during the Cold War

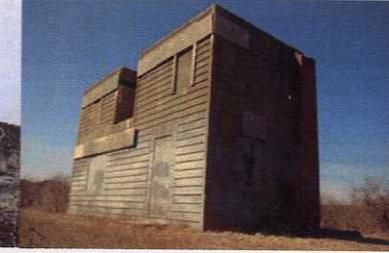
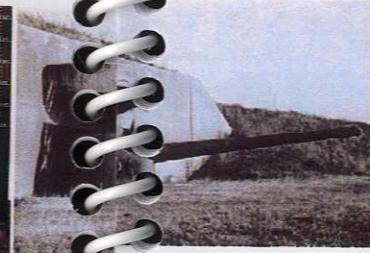


Montauk Historical Society

Espionage



Montauk Historical Society



personal photo

Military training facility camouflaged as East Hampton fishing village



google earth



Montauk Historical Society

montauk as artistic retreat: from Warhol to Memory Motel

Jackie Onassis at the Lighthouse



Montauk Historical Society



Photo of Andy Warhol by Peter Beard

Cocaine Cowboys directed by Andy Warhol filmed on his estate in Montauk



NY Times



www.imdb.com



Black and Blue recored by Rolling Stones in Montauk



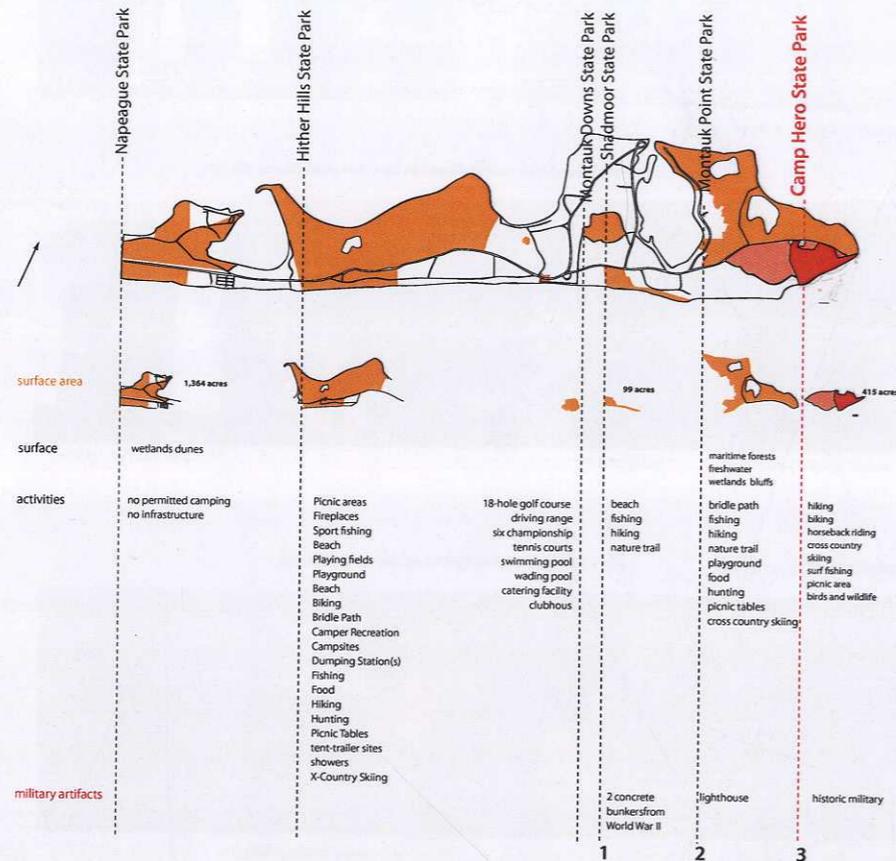
www.montauk-life.com

Site: intrinsic trajectories on Montauk



Tracking recreation in Montauk: 6 state parks: 2,300 hotel rooms

60% of Montauk's surface area is open park space. With more than 2,300 year-round or seasonal hotel/motel rooms, Montauk has by far the largest number and concentration of hotel/motel rooms of any single community on Long Island.

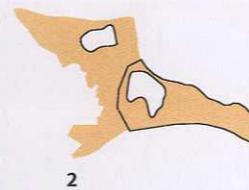


2000 U.S. Census; Suffolk County Planning Department 2/20/03
www.nps.gov National Park Service

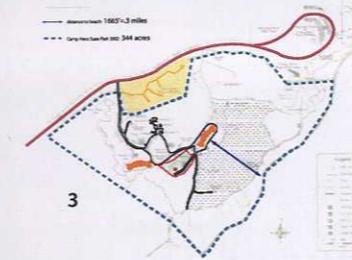
Shadmoor State Park



Montauk Point State Park



Camp Hero State Park



Four 16" naval guns



Montauk Historical Society

surveillance radar tower built by Sperry

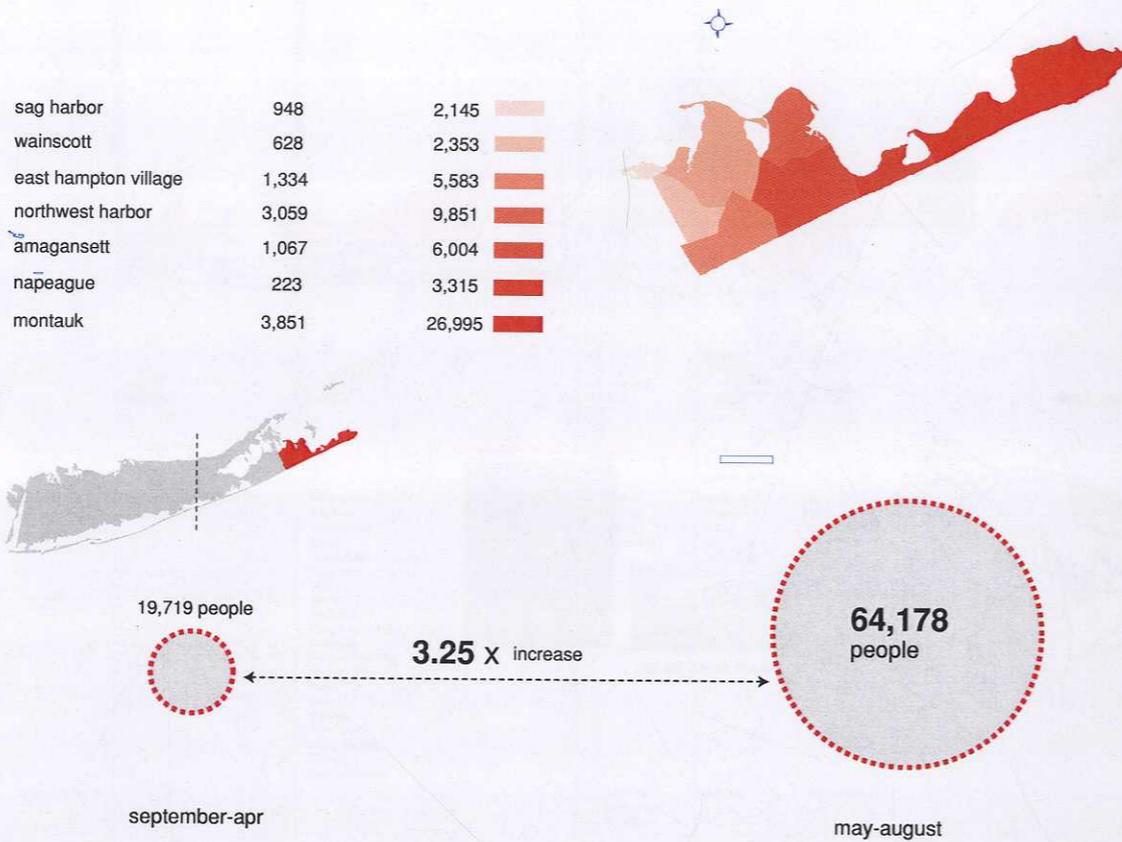


Site: intrinsic trajectories on Montauk



East Hampton EXpands: seasonal population influx from May-August

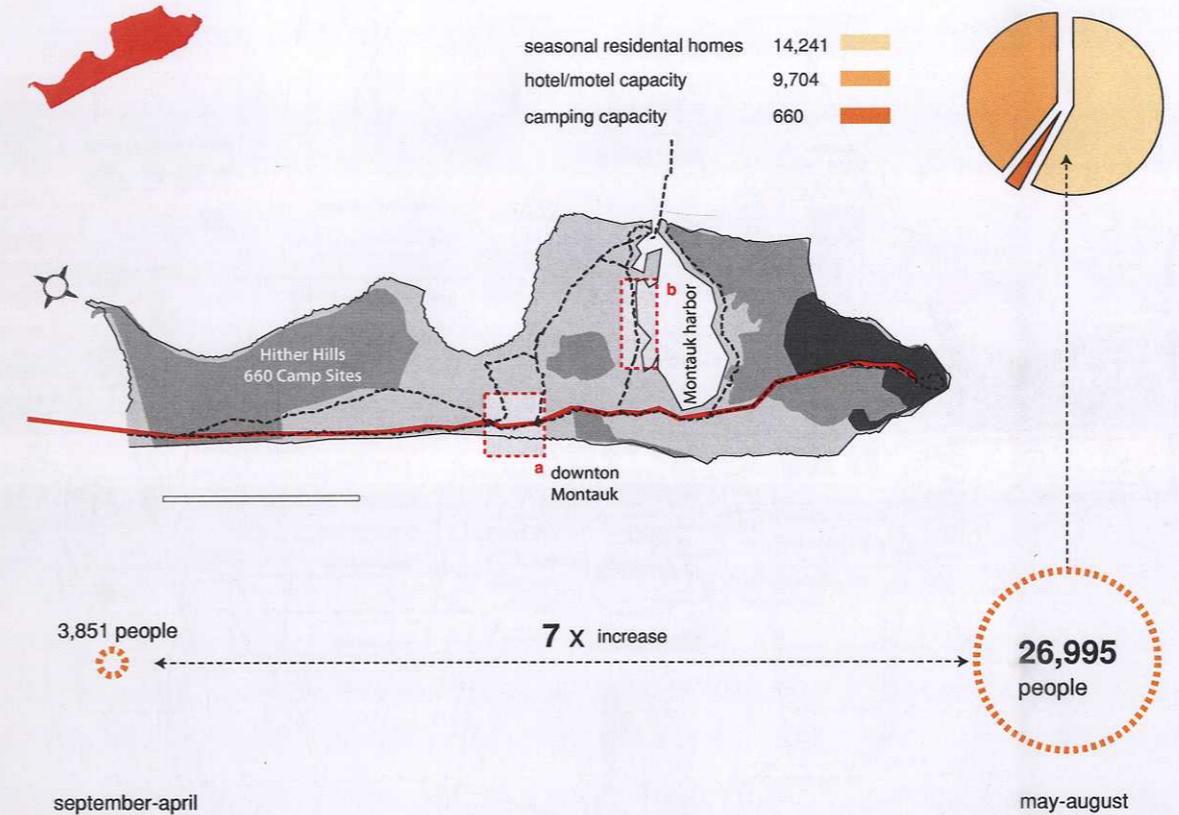
Montauk is one of 7 villages a part of East Hampton and the exorbitant influx of tourists from May to August puts a significant stress on the infrastructure, [utilities, transportation, services], on the island. Therefore, the MIL-CIV immersive surface will be flexible enough to adapt to these drastic changes in density from summer to winter.



source: 2000 U.S. Census; Suffolk County Planning Department 2/20/03

Montauk EXpands: distribution of seasonal population influx from May-August

Majority of Montauk vacationers rent private homes, but there is still a huge demand for young adults and families to camp at Hither Hills or book hotel rooms. Camping on the beach is very popular and campers must make reservations up to one year in advance. This 7-fold increase in population over the summer transforms Montauk into a very dense summer destination.



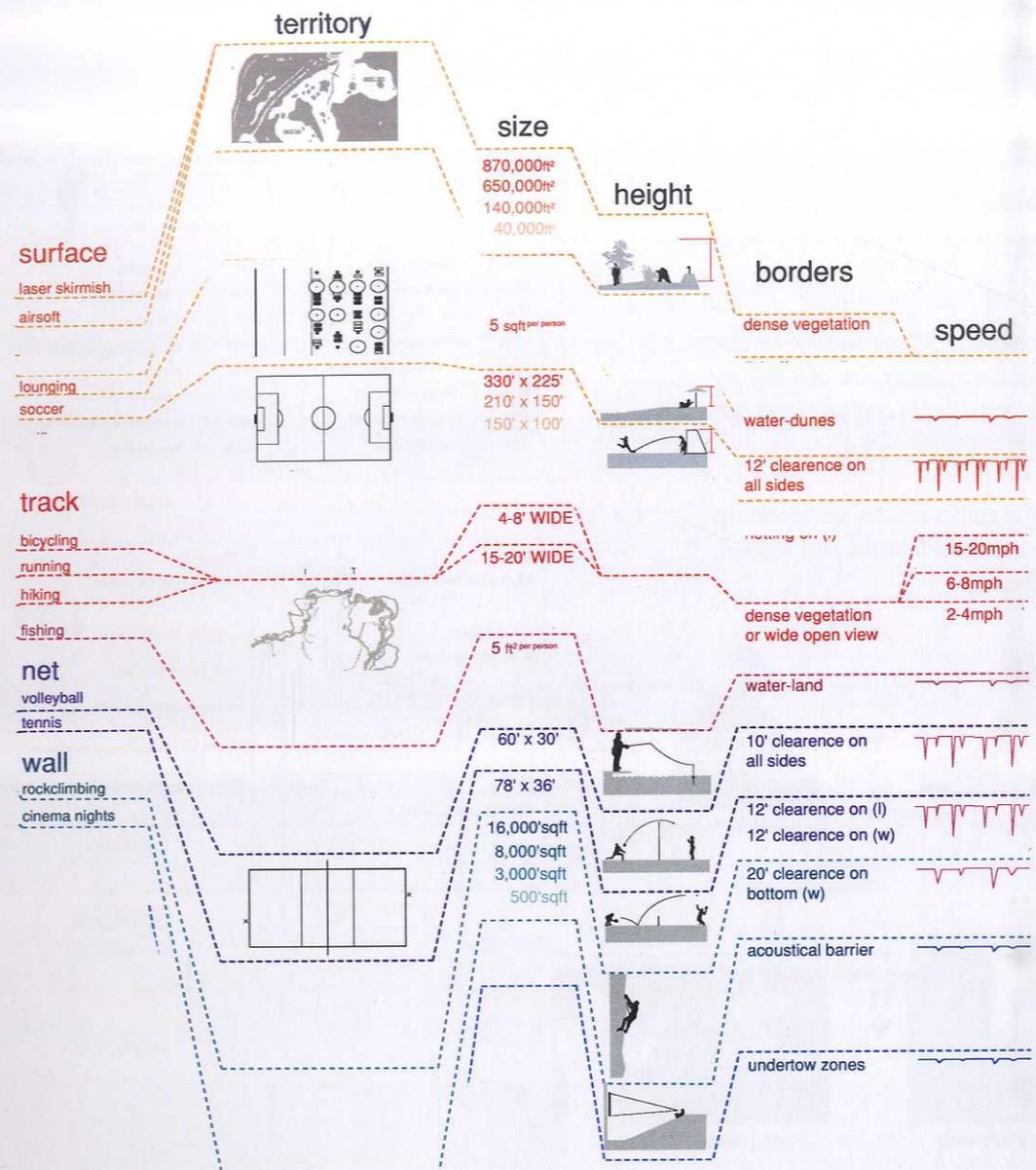
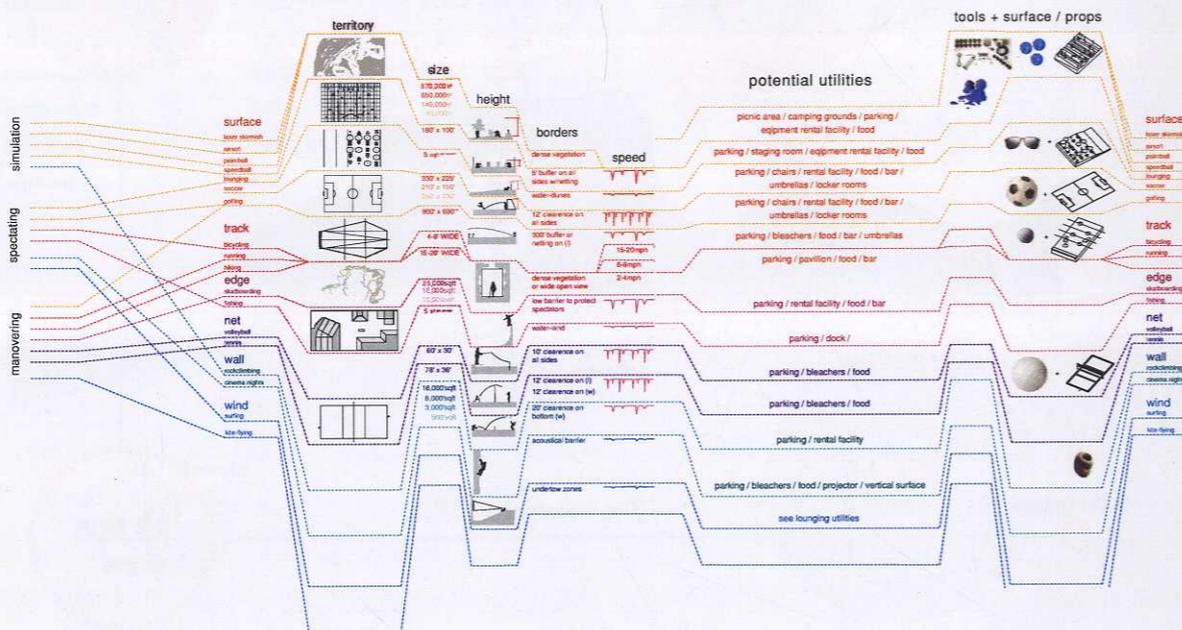
source: 2000 U.S. Census; Suffolk County Planning Department 2/20/03

[s]ite: intrinsic trajectories on Montauk



Program modulator: simulation, tracking, and the strategic manouver

The program modulator analyzes **surface, track, edge, net, wall,** and **wind** games in terms of their **territory, size, height, borders, speeds, tools** and support facilities. After developing the itineraries [p. 26-27], certain games were ruled out, because they did not connect in any direct way with the immersive scenarios that were explored. The right page zooms in on the activities that still correspond with the MIL_CIV immersive surface.



Integrating recreation and training

Itineraries integrate the relationship between training and recreation to create an immersive experience that isn't just about going to the beach, but about participating in a recreational military experience.

Participants in the MIL_CIV immersive surface range from regional law enforcement and military personnel as well as single family and weekend get-away vacationers.

The sequencing of activities creates juxtapositions and intersections between families and soldiers, CQB training and fishing.

10 hours
mil_civ immersive training

mil-sim game enthusiast

- 10:00 staging for Airsoft
- 10:30 Airsoft game
- 12:30 Eat
- 13:30 Target practice
- 14:30 Immersive Simulation Gaming
- 16:00 Watch mil-sim training
- 18:00 Happy Hour with soldier
- 20:00 Radar film festival

13 hours
mil_civ immersive training

U.S. army soldier itinerary

- 7:00 fitness training
- 9:00 staging for CQB training
- 9:30 CQB training
- 12:00 Eat
- 13:00 immersive simulation training
- 17:00 tactical seminar
- 18:00 drink and monitoring vacationers
- 20:00 Radar film series

6 hours
mil_civ immersive recreation

young lovers

- 11:00 hike to picnic spot
- 12:00 eat and monitor waves
- 12:30 climb radar tower and watch target practice
- 16:00 hike to lighthouse and track the sunset
- 17:00 dance in mil sim room

5 hours
mil_civ immersive recreation

single family vacationers

- 10:00 begin at lighthouse
- 10:30 hear and watch military CQB training
- 11:30 eat on battery 113 above mil-sim gaming
- 12:30 begin hiking tour of military industrial complex
- 15:00 play family version immersive simulation game



Sunday family picnic

+



Virtual Reality Therapy*



RADAR rooftop film series

+

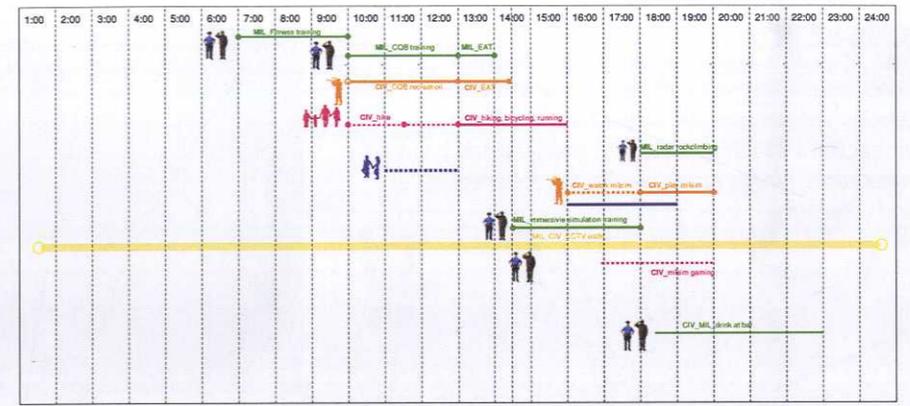


MIL_Simulation Training

* Photo from: ict.usc.edu/ The University of Southern California Institute for Creative Technologies

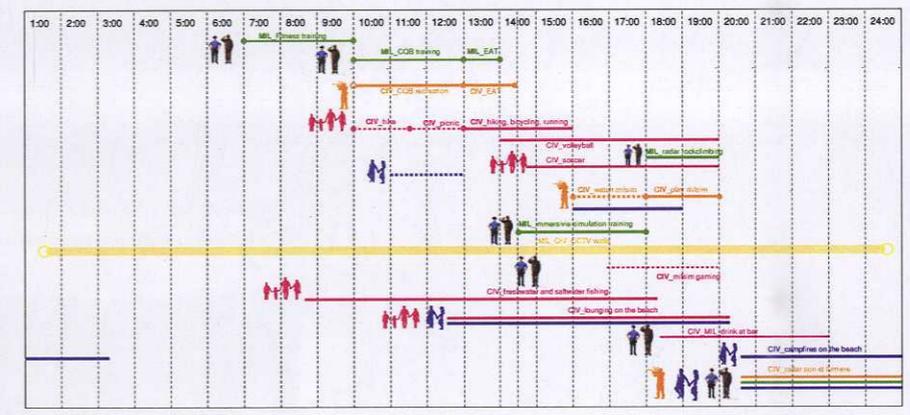
3,851 people

september-april



26,995 people

may-august



Mapping intersections, overlaps, and adjacencies

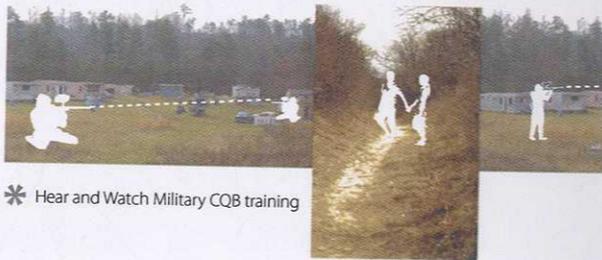
The 4 itineraries signify the different participants in the MIL_CIV surface. Potential sequences are mapped onto the site. Intersections suggest gathering zones between different participants. Adjacencies suggest passive integration between different activities such as watching and listening. The ideograms diagrammatically image intersection and adjacency.



* RADAR rockclimbing / RADAR cinema



* Picnic on top of MIL_simulation training



* Hear and Watch Military CQB training

10 hours

mil_civ immersive training

mil-sim game enthusiast

- 10:00 staging for Airosoft
- 10:30 Airosoft game *
- 12:30 Eat
- 13:30 Target practice
- 14:30 Immersive Simulation Gaming *
- 16:00 Watch mil-sim training
- 18:00 Happy Hour with soldier
- 20:00 Radar film festival *

13 hours

mil_civ immersive training

U.S. army soldier itinerary

- 7:00 fitness training
- 9:00 staging for CQB training
- 9:30 CQB training *
- 12:00 Eat
- 13:00 immersive simulation training *
- 17:00 tactical seminar
- 18:00 drink and monitoring vacationers
- 20:00 Radar film series *

6 hours

mil_civ immersive recreation

young lovers

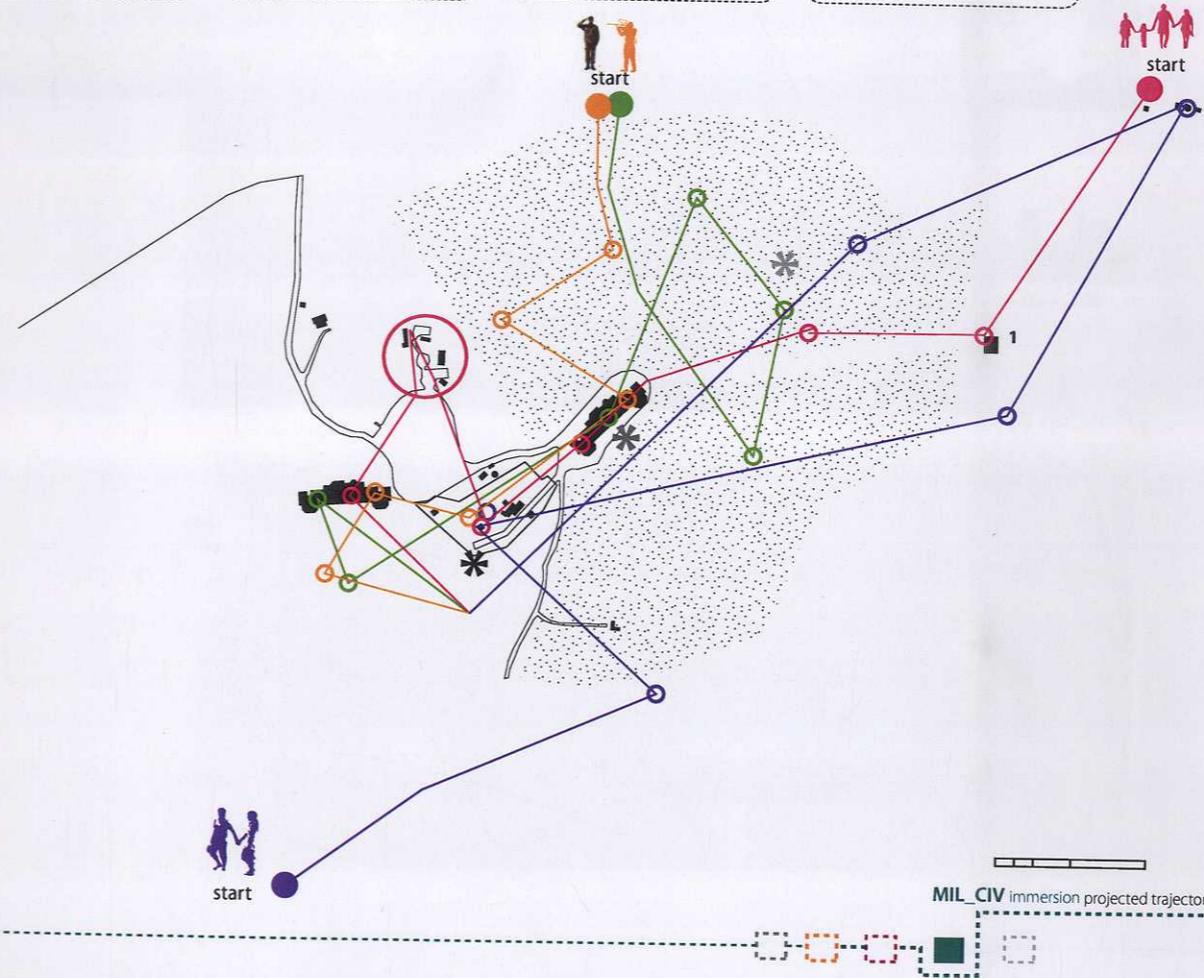
- 11:00 hike to picnic spot
- 12:00 eat and monitor waves
- 12:30 climb radar tower and watch target practice
- 16:00 hike to lighthouse and track the sunset
- 17:00 dance in mil sim room *

5 hours

mil_civ immersive recreation

single family vacationers

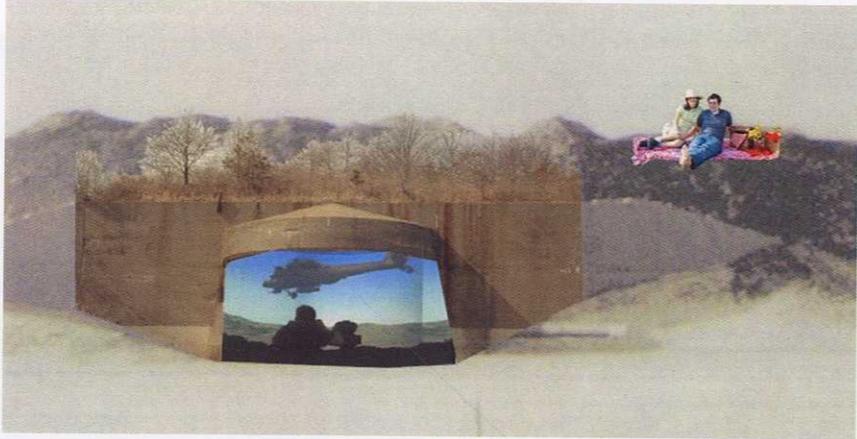
- 10:00 begin at lighthouse
- 10:30 hear and watch military CQB training *
- 11:30 eat on battery 113 above mil-sim gaming *
- 12:30 begin hiking tour of military industrial complex
- 15:00 play family version immersive simulation game



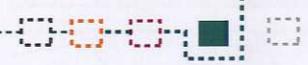
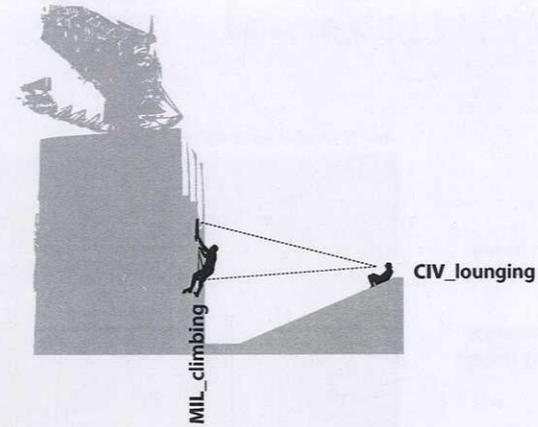
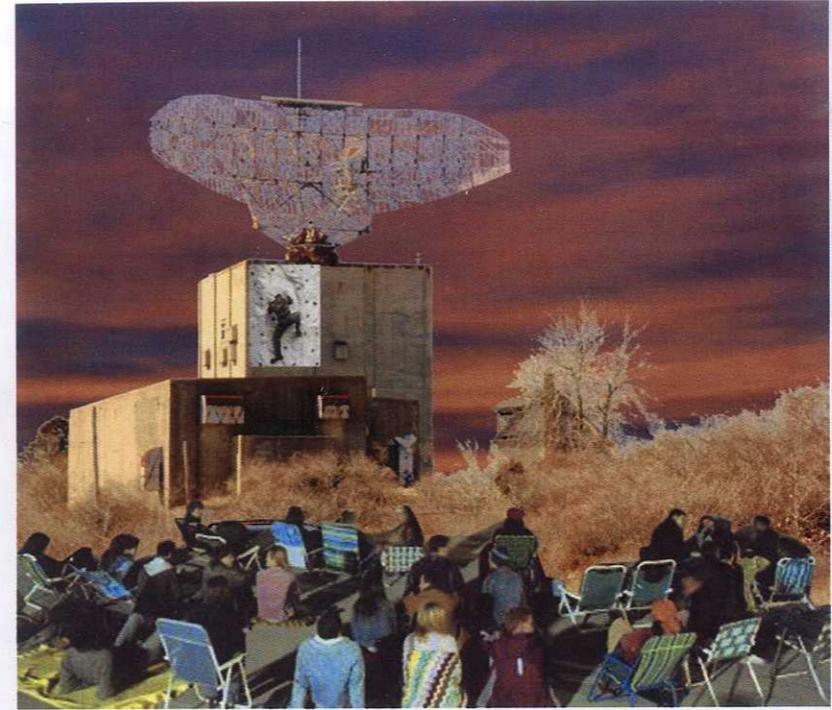
Hear and Watch Military CQB training



Picnic on top of MIL_simulation training



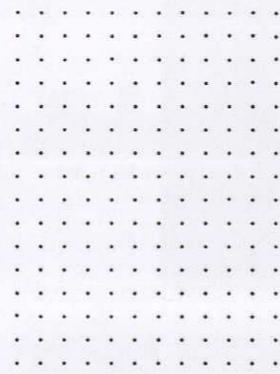
RADAR rockclimbing / RADAR cinema



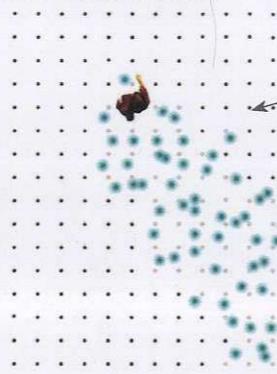
surface as field network

sensory embedded surface that reacts to way people inhabit or occupy the space, and potentially can begin to visually connect discrete events occurring on the site. These light and sound techniques could start to integrate milsim gaming with the activity fields. As these techniques disperse across the project the empheral aural and visual effects can begin to network activites such as dancing and milsim gaming.

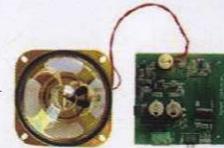
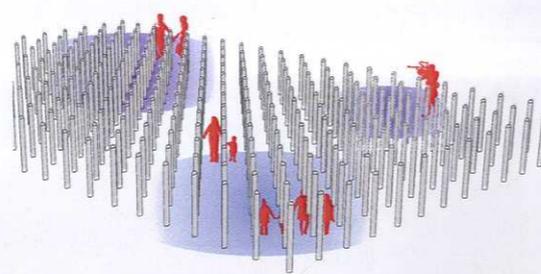
field



field reacting to movement



ephemeral visual networks



speaker embedded below grade in each fiber optic stalk

fiber optic stalks have embedded sensors which illuminate LED lights and speakers emit 'white noise' as people pass through

Howeler + Yoon Architecture

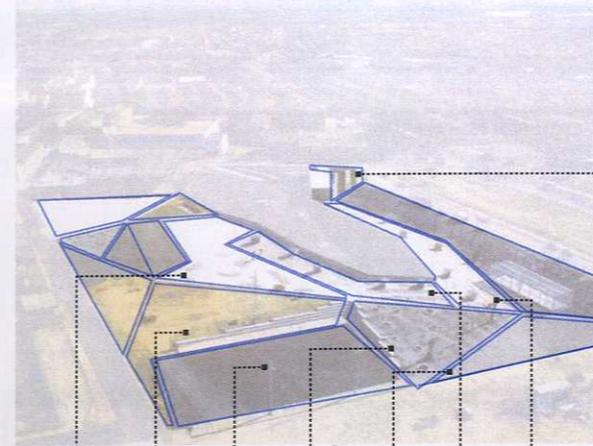
White Noise White Light Athens Greece 2004
50'x50' grid

interactive sound and light field that responds to movement of people as they walk through

field composed of fiber optic stalks that track presence and movement of people and transmit light and noise from speakers embedded in the surface

* plan and photos from www.hyarchitecture.com

view of White Noise White Light at Dusk



Martin Lejarraga

Biblioteca municipal Torre Pacheo (Murcia)

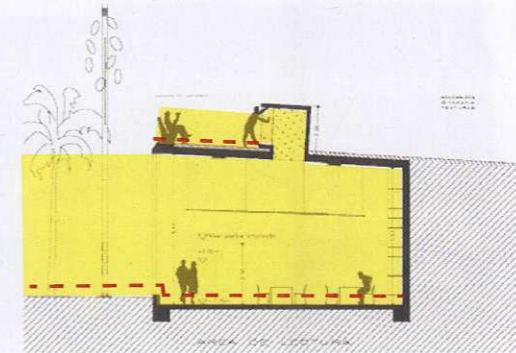
Triangulations and material variation in artificial surface topography map different means of occupy space ranging from basketball to reading.

Artificial ground plane has a double use as a roof for library as recreational surface

surface maps programmatic variation

Patchwork of different activities play out adjacent to one another due to variation in materials. Triangulations created potential convergences between different activities. Multiple games can play out simultaneously hence forth creating an immersive environment.

section cut through roof surface and ground plane



View on roof deck into skylights



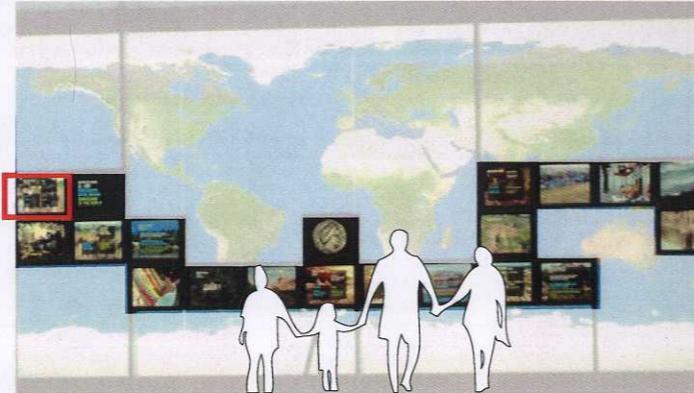
*from AV Monographs 2007

MIL_CIV immersion projected trajectories



immersive networks

The multi-screen display monitors a network of public spaces across Barcelona allowing the viewer to visually network the discrete public spaces across the city. In this context the city is understood as a wide spectrum of various densities, flows, and textures. At the MIL-CIV immersive surface, multiscreen walls could begin to network different activities at different times



Barcelona Sensacions 2007
Barcelona, Spain

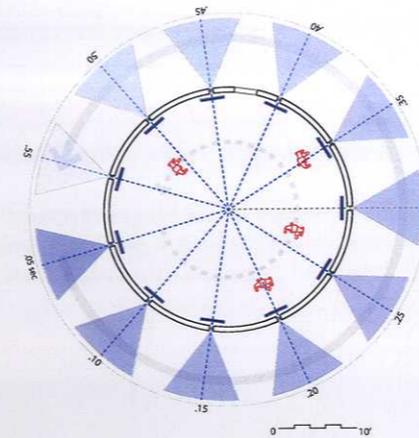
Exhibition synchronizes surveillance cameras in series of public spaces

* Personal photos taken summer 2007

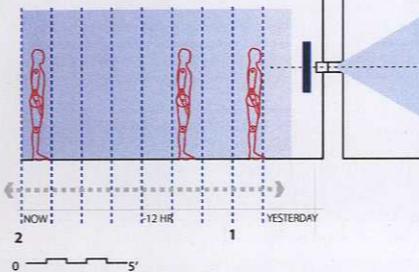
immersive networks

The Memory Project is an immersive space that networks simultaneous views of London in relation to the body in space due to thermal cameras that monitor movement within the 'cyclorama'. The images on the screen recede in time depending on the viewer's proximity to the screen. Different radii of circulation allow viewer to experience different panoramas in real time.

plan diagram of 11 cameras and screens



section diagram of 'time slip'



Gabby Shawcross and Jason Bruges
Memory Project 2008
London, UK [traveling UK]

The Memory Project, which is reminiscent of a Victorian cyclorama, is recording a 360-degree panorama each minute over three days.

Heat sensors detect visitors' locations and activate monitors with the images allowing people to control the circular, time-slip viewing gallery. As people move towards the edge of the cylinder, photos from 17 April are displayed.

*photos from video on <http://news.bbc.co.uk/2/hi/technology/7355777.stm>

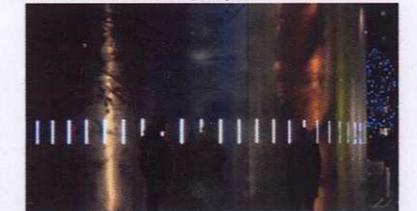
11:00 12 April 2008



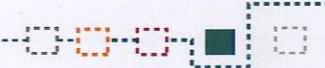
22:00 13 April 2008



exterior view of Memory Project



MIL_CIV immersion projected trajectories



adaptive ecologies

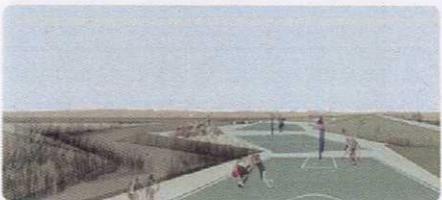
STOSS

Riverside Park, New Bedford, Massachusetts
27 acre waterfront site

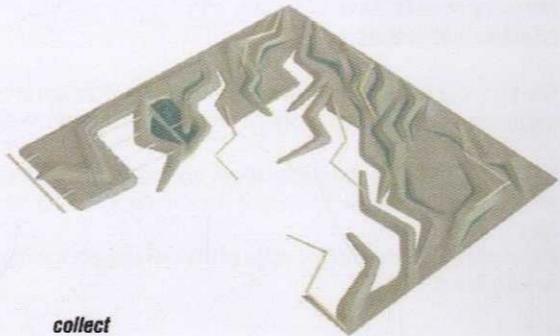
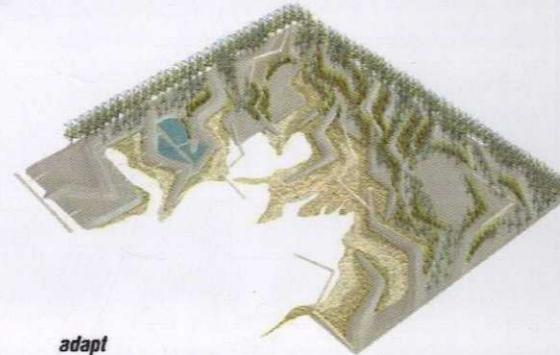
-design of ground plane was conceived for hydrologic, ecological, and programmatic adaptation

openings in the landform matrix allow for larger surfaces and the inclusion of more active programs such as sports courts playgrounds and industrial ruin gardens

dynamic performance ground for ecological growth and succession



* photos and diagrams from www.stoss.net



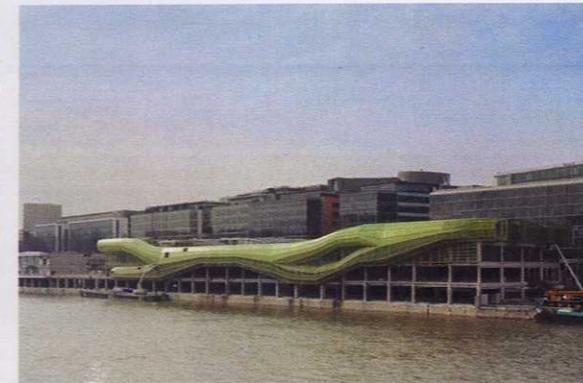
adaptive reuse

Jakob McFarlane

Dock de pe Paris, Paris, France 2007
French Fashion Institute

-transforming a turn-of-the-century dockside depot on the edge of the River Seine

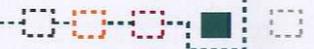
The concrete grid forms a matrix for the new parts that snake around and through the orthogonal geometry, subverting and enriching. A new structural system, derived from systematic deformation of the grid, supports a skin of glass and steel as well as an enlarged, habitable roofscape



* photos from www.jakobmacfarlane.com/



* rendering from www.jakobmacfarlane.com/



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