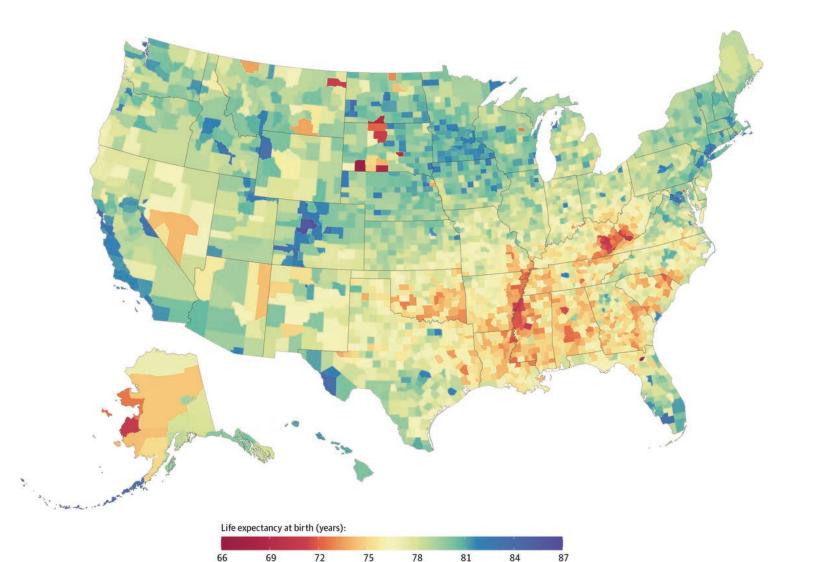


WHERE you live can impact health outcomes as much as HOW you live



Life Expectancy in US by County

Robert Wood Johnson Foundation

US Average: 78.6

Chatham NC: 97.5

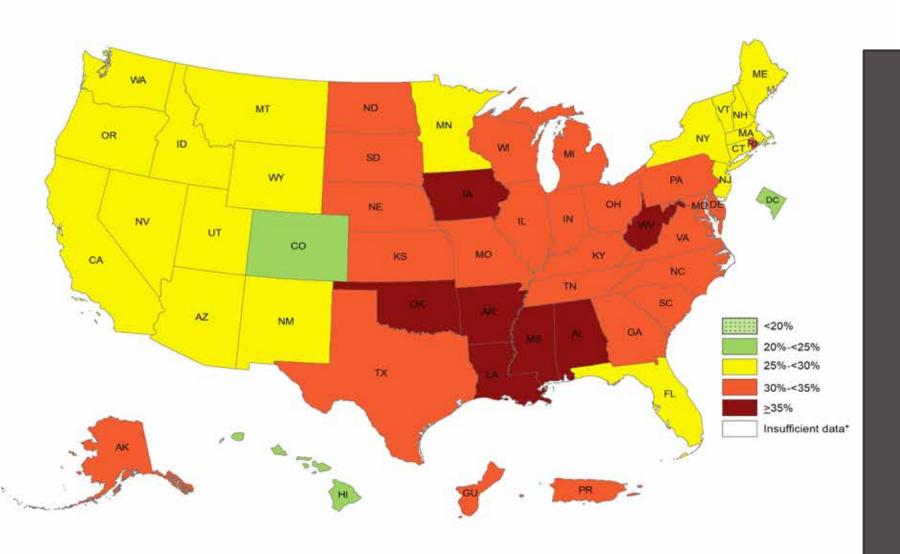
Stilwel OK: 56.3

Delta: 41.2!!!

Places at bottom 25% had in common:

- Lower education
- Bottom 25% income level
- Predominantly black
- Predominantly in the south

WHERE you live can impact health outcomes as much as HOW you live



Prevalence of Self-Reported Obesity Among States

CDC / BRFSS 2017

Mississippi: 37.3%

Colorado: 22.6%

All states had >20% of adults with obesity

20% - 25% 3 states (CO, HI, DC)

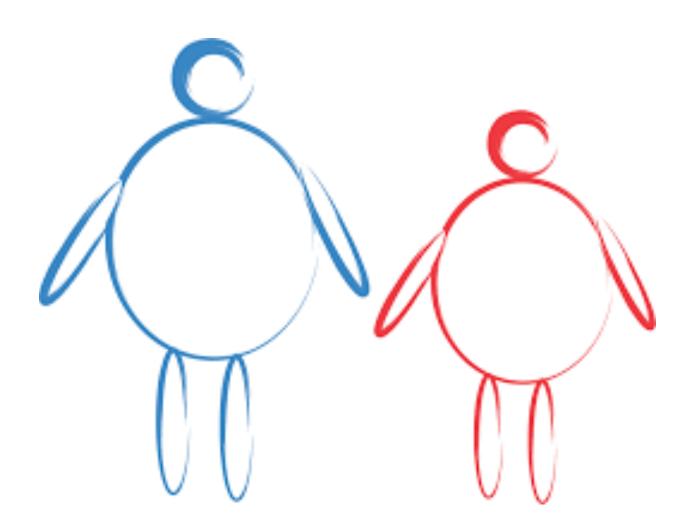
25% - 30% 19 states

30% - 35% 22 states, Guam &

Puerto Rico

> 35% 7 states

Understanding the COST and the PERSONAL IMPACTs



The Cost of Obesity

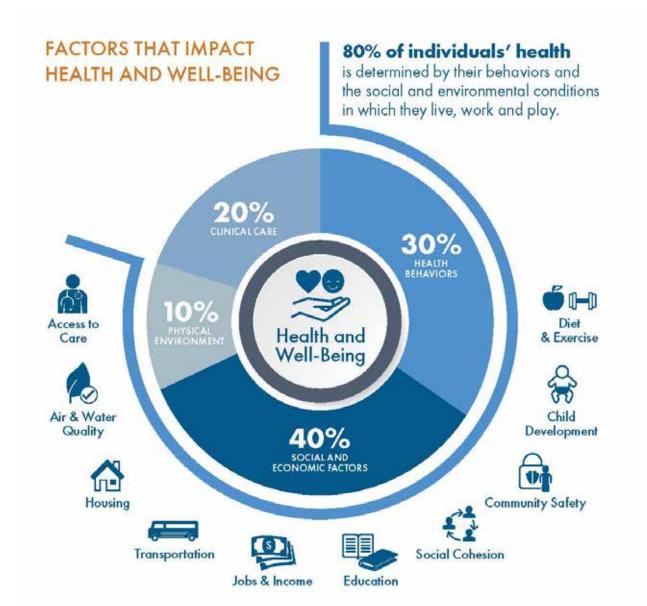
Health Impacts:

- All causes of death
- High blood pressure
- High LDL, low HDL
- Type 2 diabetes
- Coronary heart disease
- Stroke
- Osteoarthritis
- Some cancers
- Low quality of life

Annual productivity costs: \$3.8 B - \$6.38 B

(est \$79 - \$132 per individual)

PREVENTATIVE vs CURATIVE



20% of our health is shaped by clinical care

50% is determined by social and economic factors and the physical Environment

30% of health is influenced by our individual behaviors

Source: On the Path to Health Equity
NeighborWorks America and Enterprise

Population Health Management Definition

Education

Employment Lifestyle

Security/Safety

Housing

Access to food

Transportation

Environment

"Population health is a systematic approach to healthcare that aims to prevent and cure disease by keeping people healthy."

-Kenneth Kizer, Director of the Institute for Population Health Improvement at the University of California at Davis Health System – quoted at the American College of Healthcare Architects (ACHA) Summer Leadership Summit, July 2016

Population Health Management: GOALS

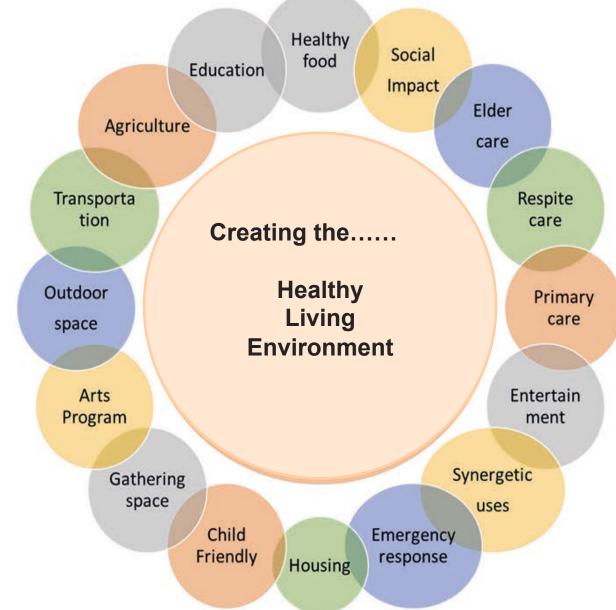
- Provide a **forum** for betterment of individual healthcare.
- Reduce healthcare **costs**.
- Address **impediments** to seeking healthcare.

 Transportation, Follow up on doctor's instructions, Medication dosage completion
- Keep healthcare **staff happy** with their work environment.

Sixteen
Strategies for achieving
Population
Health
Management

Population Health Management: PLANNING + DESIGN

CHALLENGE OPPORTUNITY **STRATEGY**



Affordable Housing/Multi Family Housing

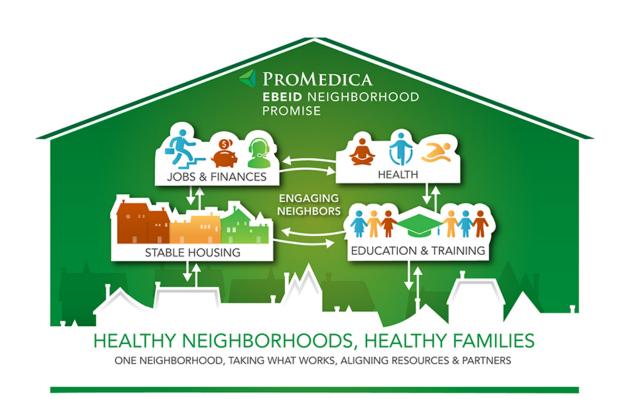
Strategy 1: Creating Affordable Housing



Should doctors write the homeless prescriptions for housing in Seattle?

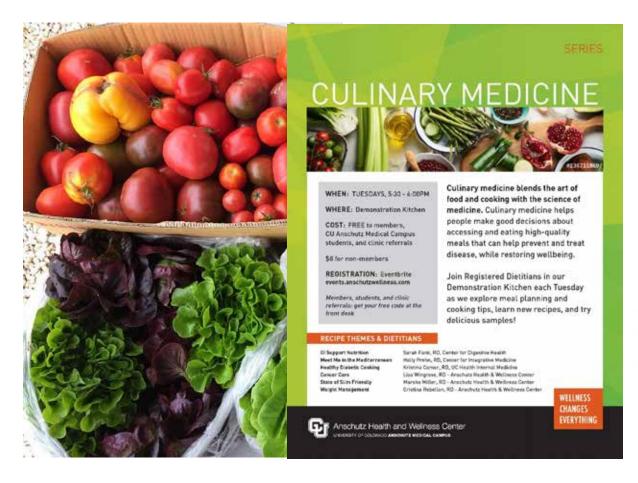
by: Andrew Lanier, KIRO Radio Updated: Mar 7, 2017 - 3 22 PM





Community
Planning, Multi
Family Housing

Strategy 2 – Healthy Food Options/ Urban Farming





Food is Medicine: Boston Medical Center produces 7000 lbs of organic veggies per year on their rooftops. – Reuters -Sept 19, 2019.



Homestead Hospital says its garden has potential to grow 30,000 pounds of produce annually.

Community Planning

Strategy 3: Promote Community Agricultural Initiatives

Grenada Replacement Hospital, St. George's, Grenada





Education, Community Planning

Strategy 4: Leverage Conference Area for Community Education and Training



Transportation

Strategy 5: Healthcare Transportation, Leveraging Transit Based Developments

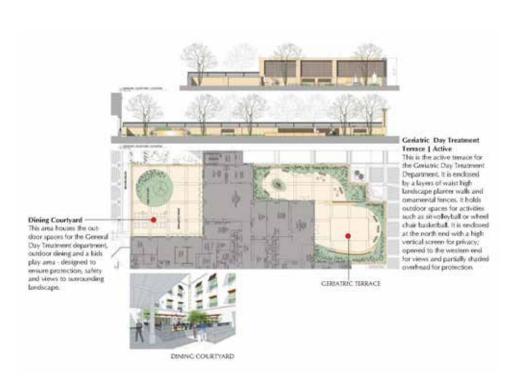
Lyft and Uber offering rides to the hospital.



Community
Planning, Urban
Spaces

Strategy 6: Therapeutic Outdoor Spaces

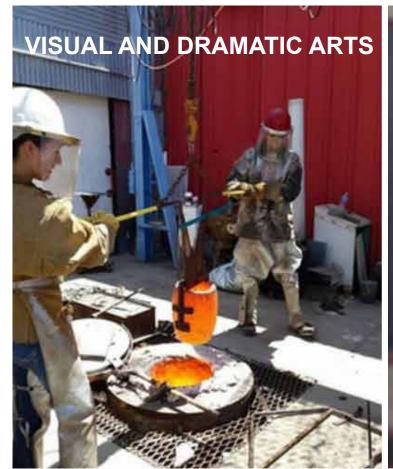
Bay Pines VAMC, Mental Health Center - Bay Pines, Florida

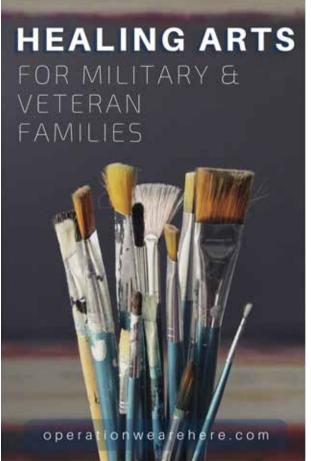




Strategy 7: Embracing the Healing Arts

Cultural, Urban Spaces, Higher Education, K-12 Education







Helping veterans pursue their Hollywood dream.

Education- K-12

Strategy 8: Embracing a Child-Friendly Healthcare Facility....everywhere.

Child-Friendly Patient Room



K-12 and Higher Education and Cultural,

Strategy 9: Providing Entertainment and Patient Education

Movies, Resource Centers and Libraries in Hospitals for Patient Engagement



Urban Places, Education, Higher Education **Strategy 10**: Gathering Spaces- responding to how people behave.

Northwestern Medicine Shop and Dine *Kiku Obata & Co and Stantec Architecture





Healthcare, UrbanPlaces

Strategy 11: Access to Affordable Healthcare, Mental Health and Dental

Heartland Health Centers, on Devon Street - Chicago, Illinois A Federally Qualified Healthcare Center (FQHC)

*Devon Clinic - MDT Architects



Urban Places, Community Planning

Strategy 12: Addressing "Burnout" Respite Care for Families and Staff

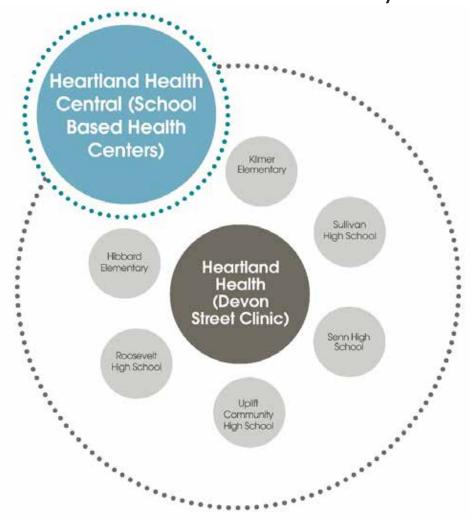
OSF Lynn & Jerry Flaherty Respite Care Garden *Stantec and Hitchcock Design Group





Education K-12, Affordable Housing, Multi Family, Community Planning **Strategy 13**: Developing Symbiotic Partnerships in the Community....

Healthcare beyond the hospital walls



Resiliency Planning, Community Planning

Strategy 14: Community Based - Emergency Response/Resiliency

Biloxi Mississippi VA Facility



Puerto Rico



Multi Family
Housing, Elder
Care Design,
Community
Planning,
Recreational

Strategy 15: Embracing Elder Care and Aging in Place –"Addressing Loneliness"

"Aging in Place" Convergence with "Home Healthcare" and Telemedicine

Promoted by the proliferation of 5G technology and Internet of Things.

Loneliness is the next Epidemic.

SENIOR

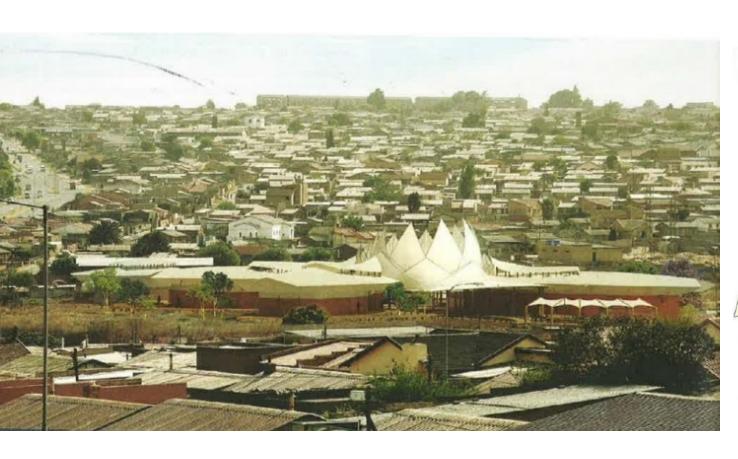


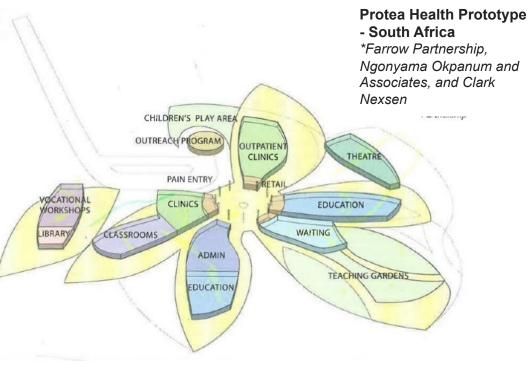
^{*} Center on Halsted - Gensler

Strategy 16: Achieving Socially Sustainable

....from Sustainable Healthcare Architecture by Robin Guenther and Gail Vittori

All of Us.

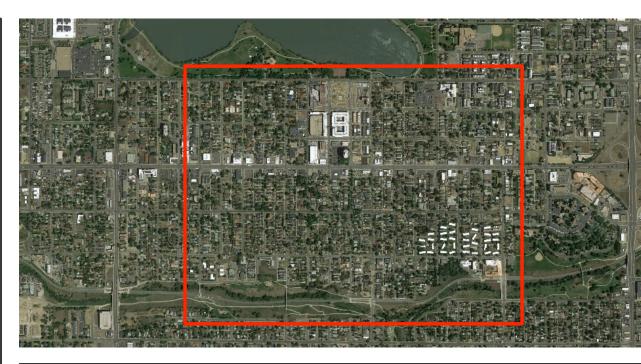




Urban Scales

City Scale

Project Scale





City Scale

Integrate health, wellness and happiness Key Performance Indicators and strategies into broadscale planning and design to guide future growth policy and design. Tools include Happy Cities Index, LEED ND, Well Communities.



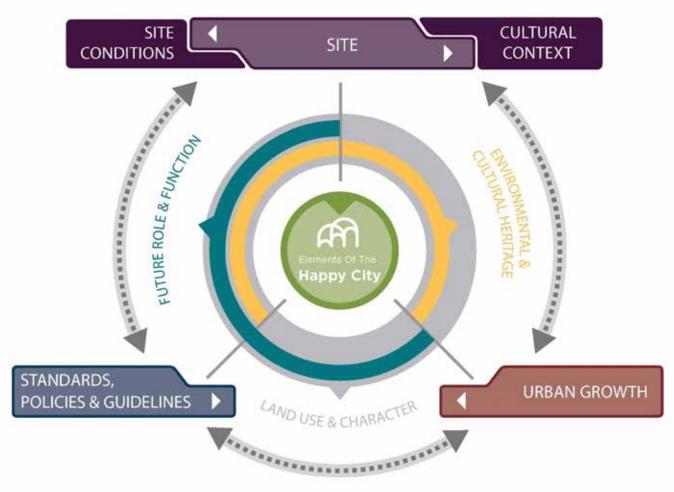


A Planning and design process aimed at promoting community happiness

Al Dhafra 2030 Planning Framework Principles (2015):



The planning process was guided by the original intent established in Plan Al Dhafra 2030 Planning Principles.

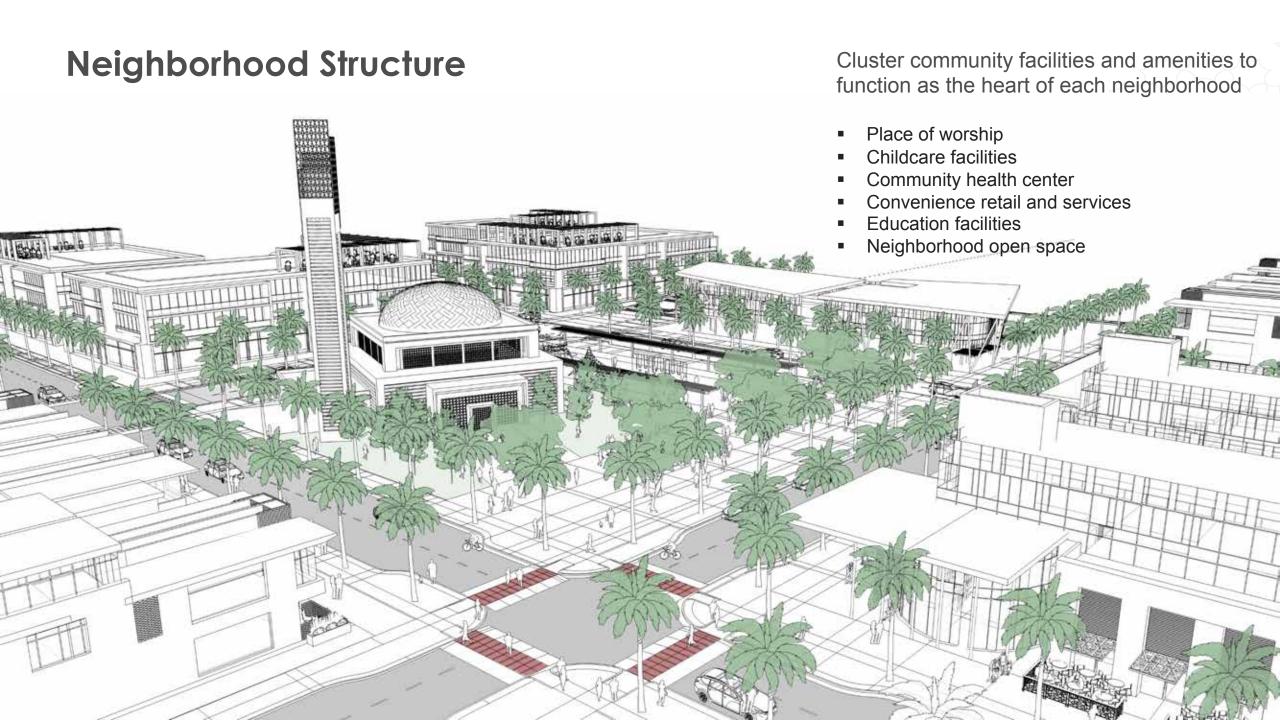


The Planning/Design Realm derived from Al Dhafra 2030 Planning Framework

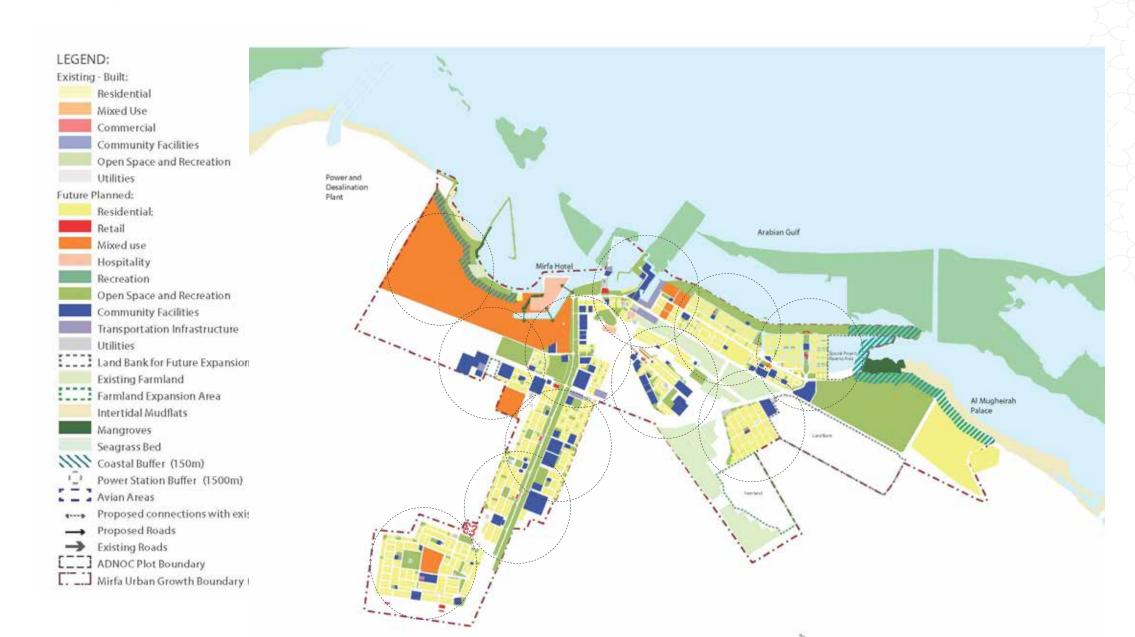








Neighborhood Framework



Hospitality & Culture





ENVIRONMENT & CULTURAL HERITAGE



Hospitality & Culture



Welcoming & Personalized Way Finding Strategies



Active Waterfront Promenades with Multiple Hotels



Well Distributed Religious Facilities with Ease of Access



Nature Preservation



Preservation Of Existing Farmlands and Landscape Assets



Maintaining the Existing Fishing Activities

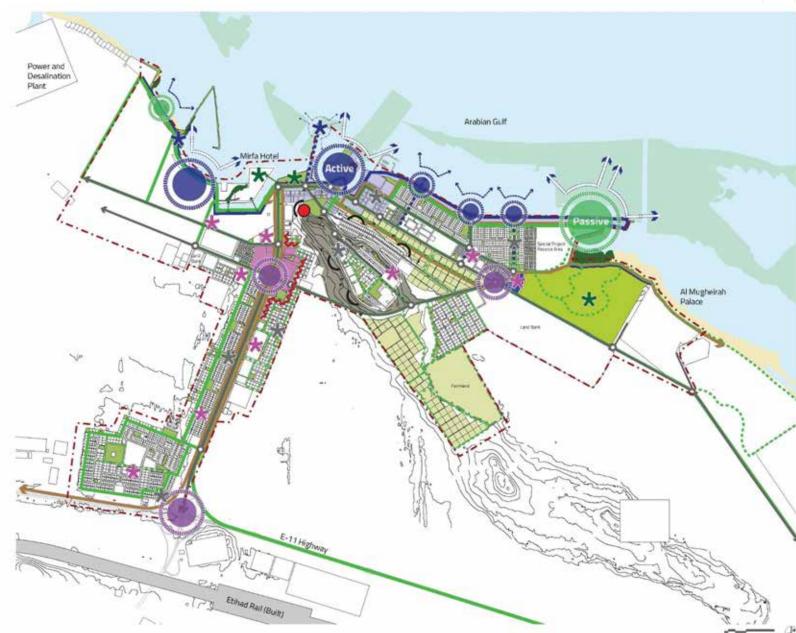


Xeriscaping and Desert Landscape Strategies

Hospitality and Culture

Framework of Activity Nodes.

LEGEND: Waterfront Activity Node (Active) Waterfront Feature/ Activity Node Major Waterfront Pedestrian/ Bike Route Secondary Waterfront Pedestrian Route Major District Recreation Activity Node (Passive) Recreation Activity Node National Trail Major Recreation Pedestrian/Bike Route Secondary Pedestrian/ Bike Route Settlement/Town Gateway Settlement Landmark Major Retail F&B Activity Node Neighbourhood Religious Activity Node Major Educational/ Recreation Node Jebel Protection Area Continuous Waterfront Farms Farm Expansion Area Roundabouts Entrance Avenue Settlement Avenue Viewing Overlooks (Jebel Edge Parks) Primary Sea views Mangroves Intertidal Mudflats Sea grass Mirfa Urban Growth Boundary (UGB)



Hospitality and Culture

Marina Redevelopment Vision

Demonstrating the associated master planning guidelines that the Marina Redevelopment Vision responds to.



a) Establish diverse hospitality offering.



 b) Develop and implement a branded signage and wayfinding strategy to draw visitors to key public spaces



Set up incentives to encourage and local public art



 d) Establish the identity of Mirfa Port to allow the local culture and current activities associated to fishing /sailing to be part of public life and enhance visitor experience



e) Provide accessibility to waterfronts maintaining this valuable public amenity free for all to enjoy



 Provide diverse opportunities for active and passive recreation



Marina Redevelopment Area Streetscape Improvements

(5) Provision of community facilities / mosques to provide an focal point to the community in the area

(4) Pedestrian Realm enhancement (sidewalks, vegetation etc) to encourage walkability in and around the district.

(3) 3m Dual Cycle Track that connect the jebel with Marina Redevelopment Area

(1)/(2) Create refuge island and establish pedestrian walkway to enhance connectivity across the marina redevelopment area and adjacent approved development (Mirfa Corniche Improvement Project)





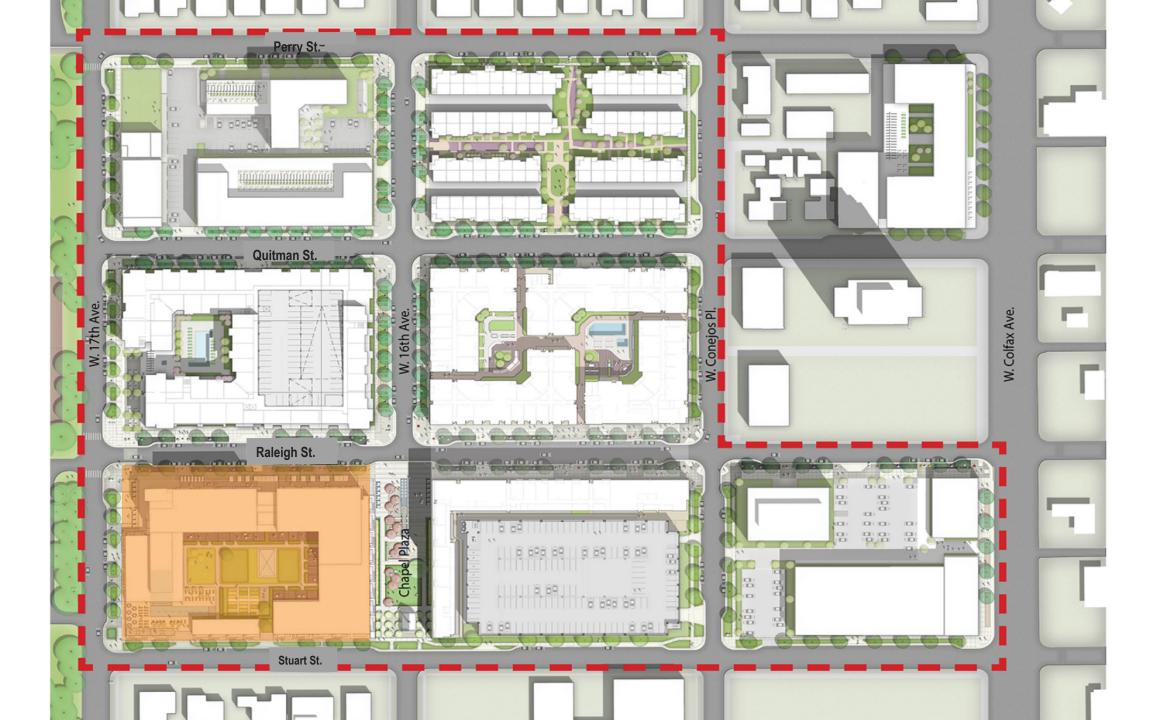
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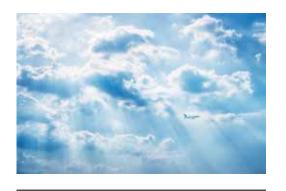
Project Scale

Solutions at the individual building level aimed at healthy choices and encouraging socialization at a finer grain. Tools include Happy Homes, LEED, Well Building, Sustainable Sites.















AIR

WATER



LIGHT

- Healthy entrance
- Enhanced indoor air quality
- MERV-13 building air filtration
- Air quality monitoring
- Moisture and mold mitigation
- Balconies or patios for every home
- Operable windows in bedrooms
- Non-smoking environment

- WELL Building Standard water quality through City of Denver
- Hydration and beverage stations
- Low chlorine pool and hot tub
- Filtered water appliances (penthouses)
- Waterfront location and views of Sloan's Lake

- Urban Farm with fresh organic vegetables and herbs
- Professional farming support by Agriburbia
- Harvest Room to wash and store farm produce and local foods
- Indoor and outdoor kitchens with community table
- Pro-style grills
- Automated package delivery system with cold storage
- Fresh juicing station

- Floor-to-ceiling windows to maximize natural daylight
- Low-e glass exterior for comfort
- Light glare control
- LED lighting
- Open designs throughout
- Solar and blackout shades







FITNESS

COMFORT



- Active staircase in lobby
- 70' lap pool with year-round hot tub
- Wellness center with fitness lab, dry sauna and yoga & meditation studio
- Water sports, outdoor activities and 2.6 mile trail at Sloan's Lake Park
- Aquatics room with equipment for resident's use
- Sports workshop with tools for repairs
- Secure bike storage
- Sun deck for yoga

- Outdoor fire pit
- Natural and durable materials
- Enhanced thermal, visual and acoustical performance
- High-performance glazing
- Window soffit ventilation
- Pursuing Energy-Star certification

- Meditation gardens
- Connections to outdoor living environment
- Resident lounge with collaborative kitchen and media den
- Creative workshop with tools for multimedia arts
- Extensive landscaping to support biophilia—the human connection to nature
- Access to wellness experts, education and progress monitoring through Realwell
- Pet-friendly environment



















A CONSCIOUS LIFE

Built from the Inside Out



¹ Experience a Healthier Way to Live.

Among the first in Colorado to be crafted with a true awareness of its surrounding environment, Lakehouse layers conscious design, plentiful amenities and an intense connection with nature to create a home for the body and the soul. New condominium and rowhome residences in Sloan's Lake are available for purchase now, with completion scheduled for late fall.

Explore the Vision



https://lakehouse17.com/wellness/