

# MADINAT AL IRFAN

AN URBAN CENTRE IN OMAN



A ONCE IN A GENERATION OPPORTUNITY ...  
**... TO GET IT RIGHT**

# A MODEL FOR THE NEW URBAN AGENDA IN THE AGE OF CLIMATE CHANGE:

**'Humanity faces the greatest wave of urbanisation in its history, with 60% of the global population expected to live in urban areas by 2030 and 70% by 2050.'**

**This presents both a challenge and an opportunity – to lock new urban expansion into a new development model towards climate-resilient and low-carbon societies.'**

# A FRAMEWORK FOR SUSTAINABLE URBAN DEVELOPMENT



**RAPID URBANISATION  
POSES A DESIGN  
DILEMMA**



MANY CITIES ARE STILL NOT BEING  
DESIGNED WITH PEOPLE IN MIND.

A black and white photograph of a modern city skyline, likely Dubai, featuring numerous skyscrapers and a prominent arch-shaped monorail station in the foreground.

THEY ARE INCREASINGLY HOMOGENEOUS  
AND PLACELESS.



**RAPID URBANISATION IS OFTEN  
ILL-CONSIDERED, SPRAWLING  
AND ENERGY INTENSIVE**



WHICH IN THE ERA OF CLIMATE CHANGE,  
INCREASINGLY PUTS US AT RISK.

GLOBALISATION THREATENS  
TO ERODE NATIONAL IDENTITY ...

CULTURE MATTERS

RAPID URBANISATION THREATENS  
THE BALANCE WITH NATURE ...

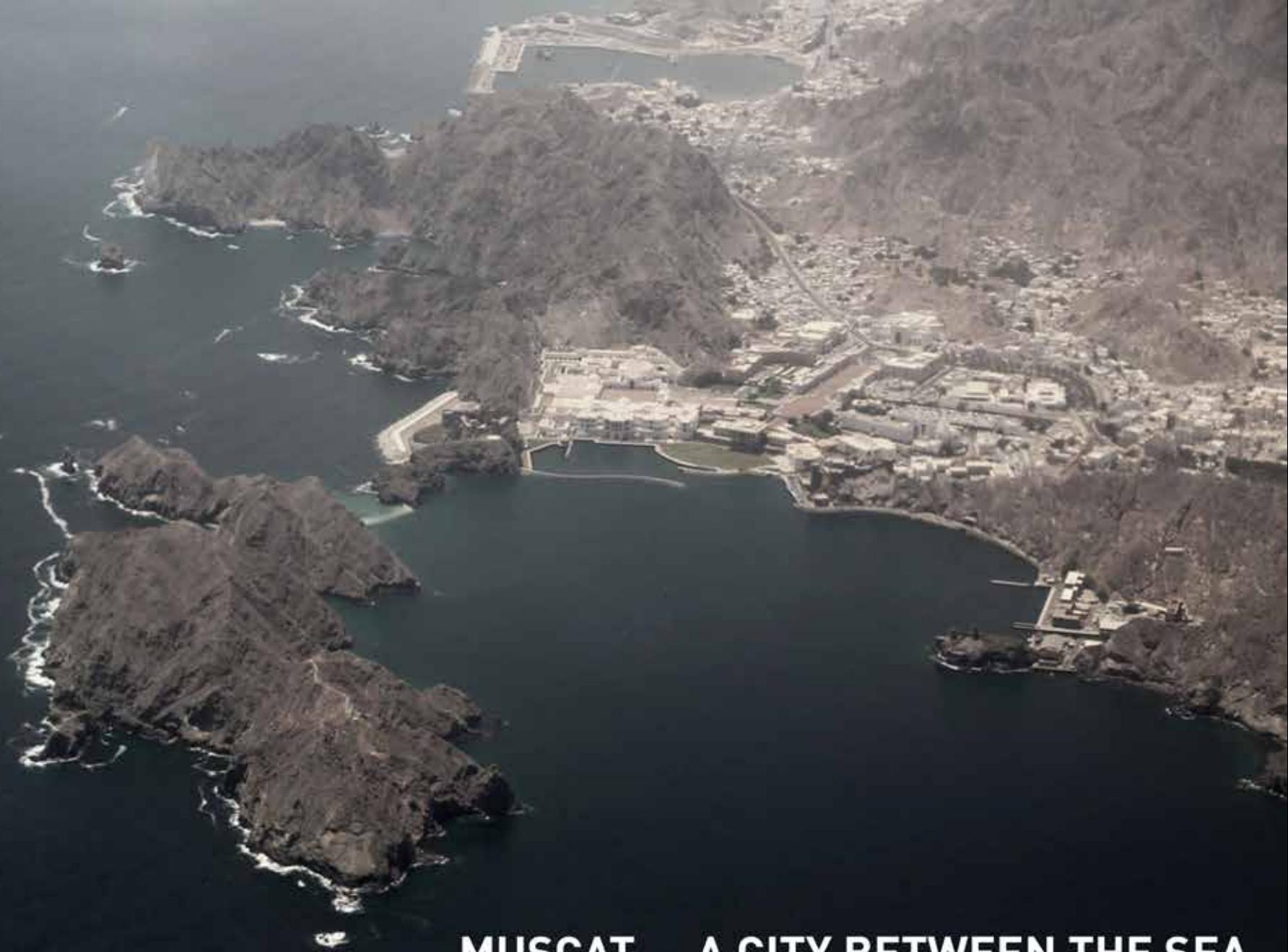
CULTURE MATTERS  
GEOGRAPHY MATTERS

CULTURE MATTERS  
GEOGRAPHY MATTERS  
  
PERHAPS NOW MORE  
THAN EVER

**THE IRFAN MASTERPLAN  
ENGAGES WITH  
ALL OF THESE ISSUES ...**



**FACING THE ARABIAN SEA  
AND A GATEWAY TO THE GULF.**



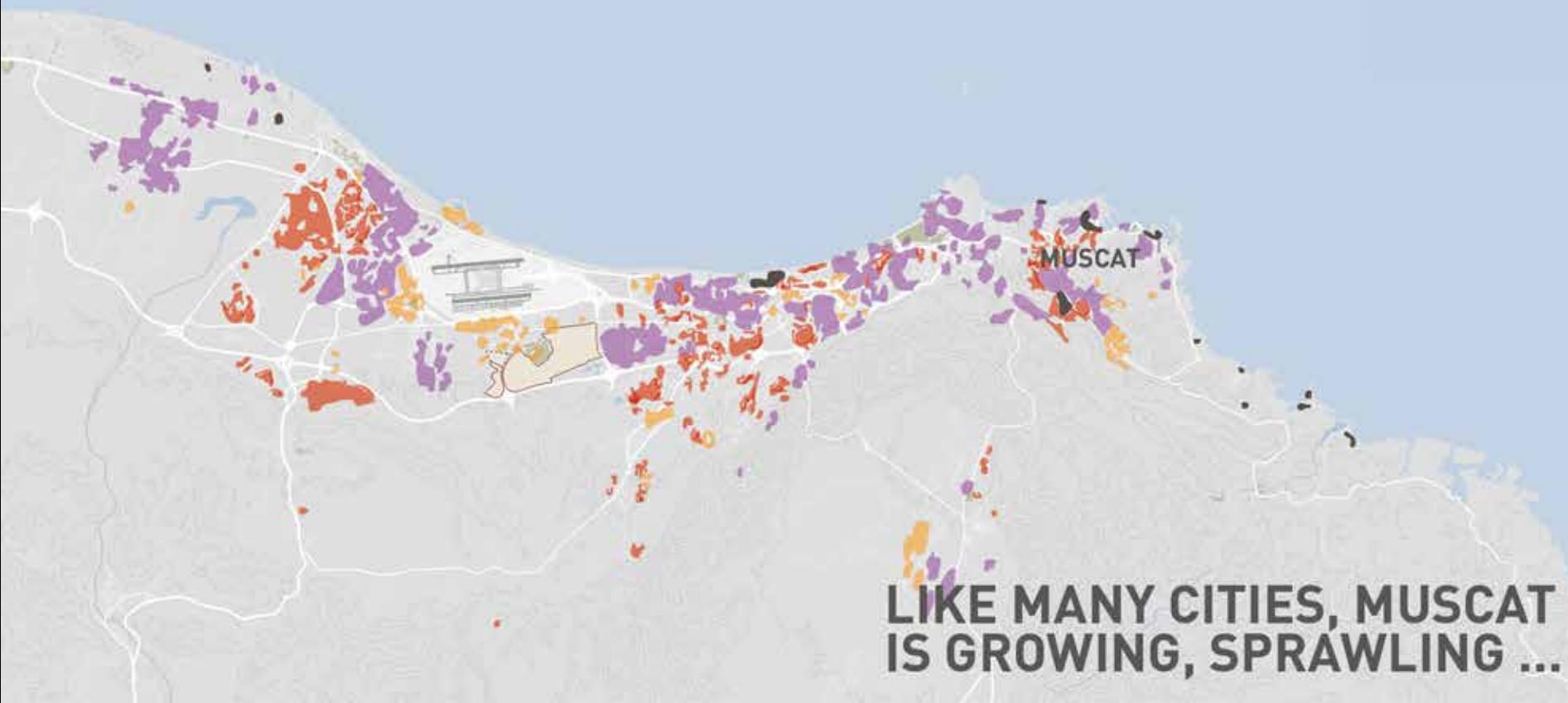
MUSCAT ... A CITY BETWEEN THE SEA  
AND THE MOUNTAINS ...



**WITH BUILDINGS SEAMLESSLY  
EMERGING FROM THE LAND.**



**THIS IS OMAN'S CAPITAL, MUSCAT.**





**... BUT THERE IS A PLACE WHICH COULD  
ACT AS A CATALYST FOR CHANGE ...**



**... STRATEGICALLY LOCATED NEXT TO  
MUSCAT INTERNATIONAL AIRPORT.**



**IN AN IDEAL LOCATION, A MISSING LINK  
BETWEEN TWO SIDES OF A CITY REGION.**



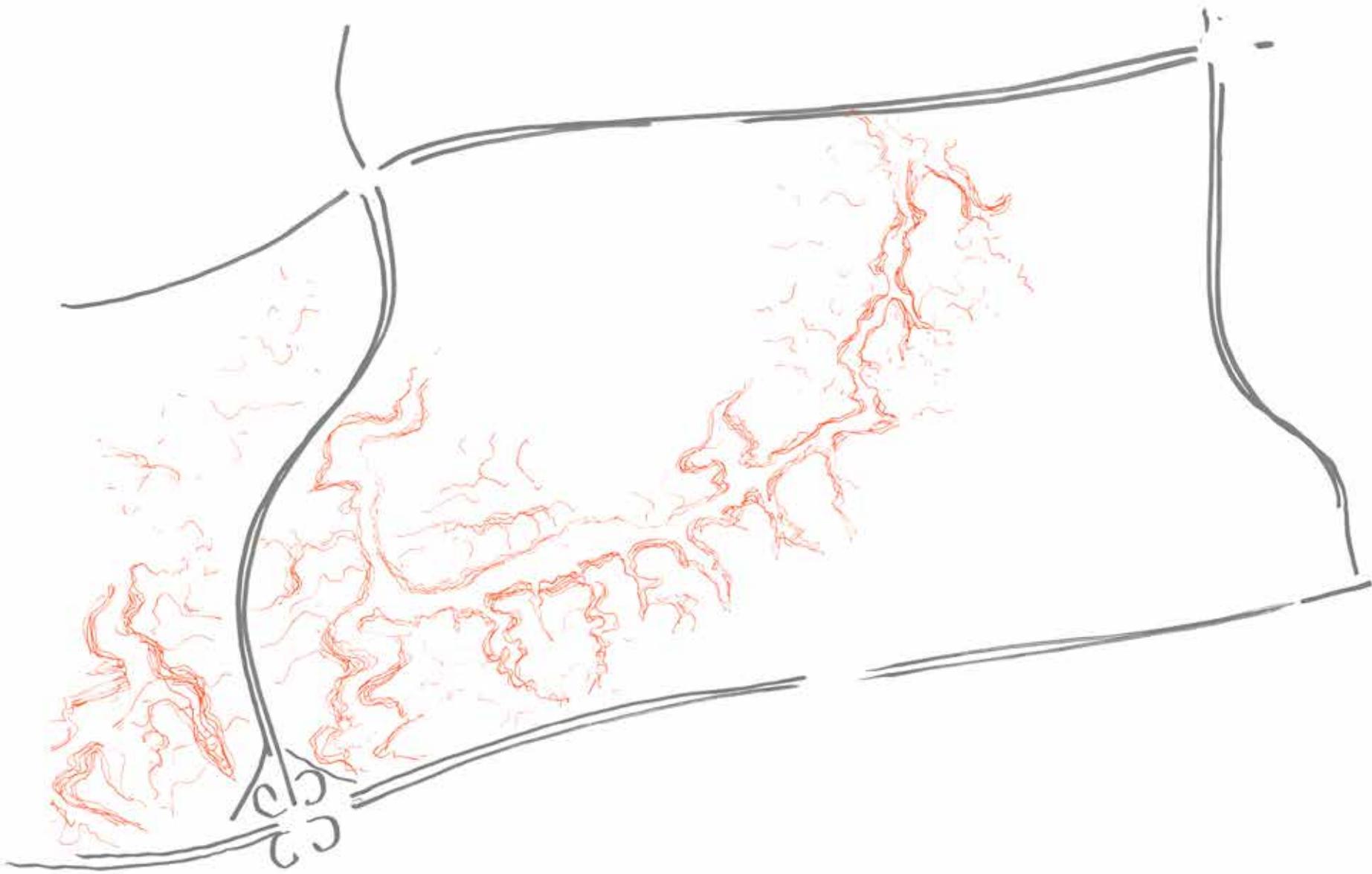
A NEW TOWN WITH A WORKING, LIVING  
AND VISITING POPULATION OF 280,000.



THE SITE:  
AN OPEN LANDSCAPE, A WADI ...



... WITH A DRAMATIC TOPOGRAPHY ...



**... THAT WAS THE STARTING POINT  
TO CREATE A NEW CITY ...**



WITH THE WADI AS A LINEAR PARK ...



CONNECTED BY A SERIES OF BRIDGES ...



**AND TWO DISTINCT TYPES OF  
SETTLEMENT ...**



A DENSE DOWNTOWN TO THE NORTH,  
AND A MIXTURE OF VILLAGES AND HILL  
TOP COMMUNITIES TO THE SOUTH ...

# THIS IS IRFAN ...



WADI PARK



A NATURAL PARK, WITH AGRICULTURE,  
PRODUCTIVE AND ATTRACTIVE ...



A COMPACT URBAN CENTRE ...



A CITY OF BRIDGES...

IRFAN HEIGHTS



**NEW NEIGHBOURHOODS,  
DENSE AND URBANE ...**



AN ALTERNATIVE APPROACH TO  
SUBURBAN LIVING ROOTED IN WHAT  
WORKED IN THE PAST ...



A PLACE FOR OMAN  
TO WELCOME THE WORLD.

A NEW CITY

BASED ON SOME CLEAR  
PRINCIPLES AND ROBUST  
DESIGN CONCEPT

# 11 DESIGN CONCEPTS

- 1 Learn from the past to inform the future.
- 2 Celebrate the natural landscape.
- 3 Create places with distinct character.
- 4 Create an integrated, sustainable community.
- 5 Embrace quality and diversity in its buildings.
- 6 Create active mixed-use places.
- 7 Provide an integrated transport system.
- 8 Create a comfortable environment for pedestrians.
- 9 A smart city.
- 10 Complete at every stage.
- 11 Provide a catalyst for change.

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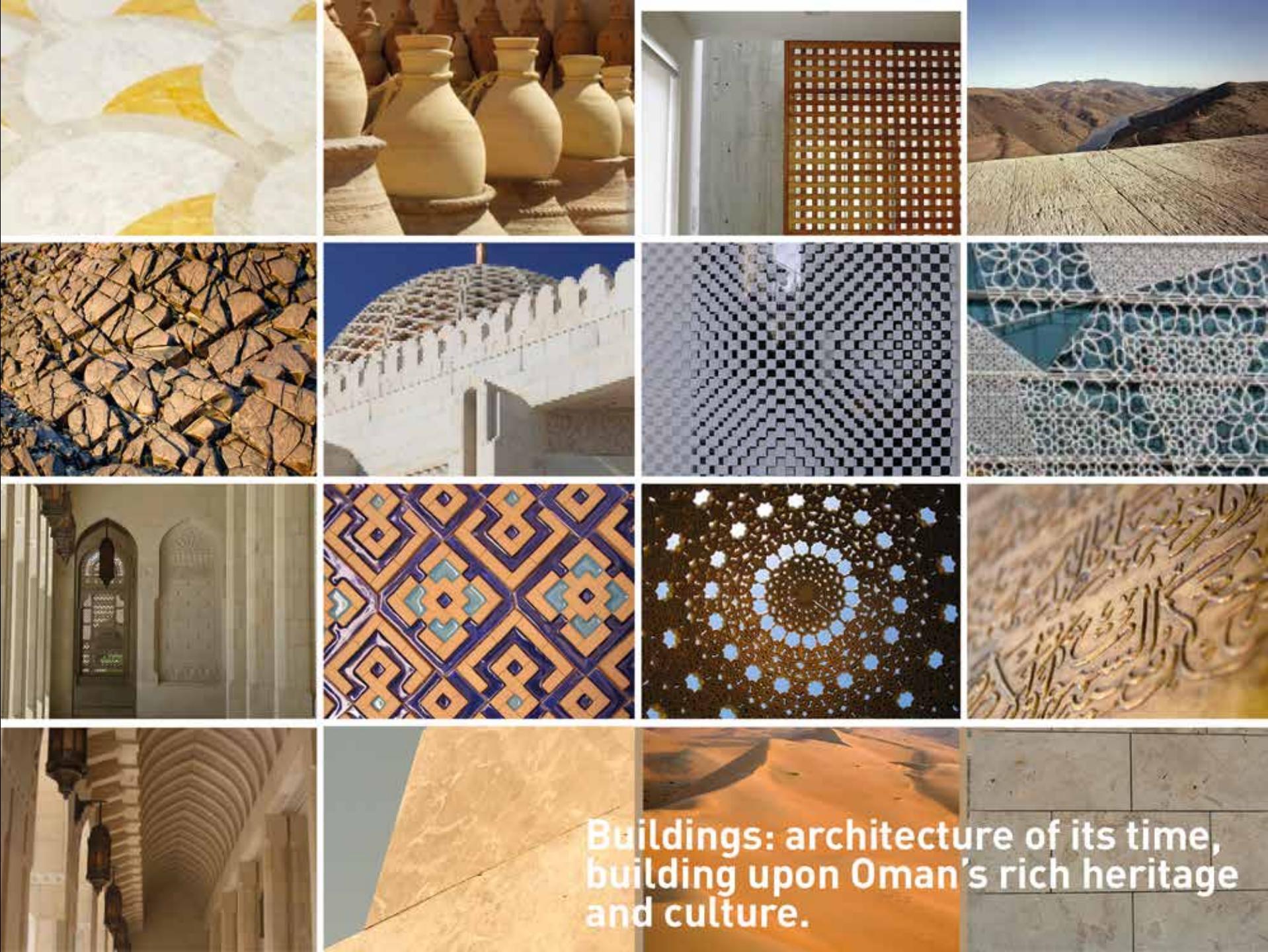
1

PRINCIPLE

**LEARN FROM THE PAST TO INFORM THE FUTURE:**  
achieve a continuity between the past, present  
and future



**Places: rooted in their context, reflecting the character and informality of old cities.**



**Buildings: architecture of its time,  
building upon Oman's rich heritage  
and culture.**



**Dense, compact, walkable,  
blurring boundaries between  
uses, outside and inside.**



**2**

PRINCIPLE

**CELEBRATE THE NATURAL LANDSCAPE**  
work with nature, not against it

- 1 IRFAN EAST WADI
- 2 IRFAN HEIGHTS WADI
- 3 IRFAN WEST WADI
- 4 IRFAN VILLAGE WADIS
- 5 KEY WADI LOCATIONS
- 6 IRFAN PARK GARDENS



**Use the Wadi Park to enrich the city  
and the lives of its residents and visitors ...**



**... by preserving, respecting  
and repairing the Wadis ...**

**Northern Wadi slopes:  
Urban agriculture and falaj systems.**



**... by having both recreational  
and agricultural uses ...**

Central Wadi Basin:  
A series of streets, promenades and gardens

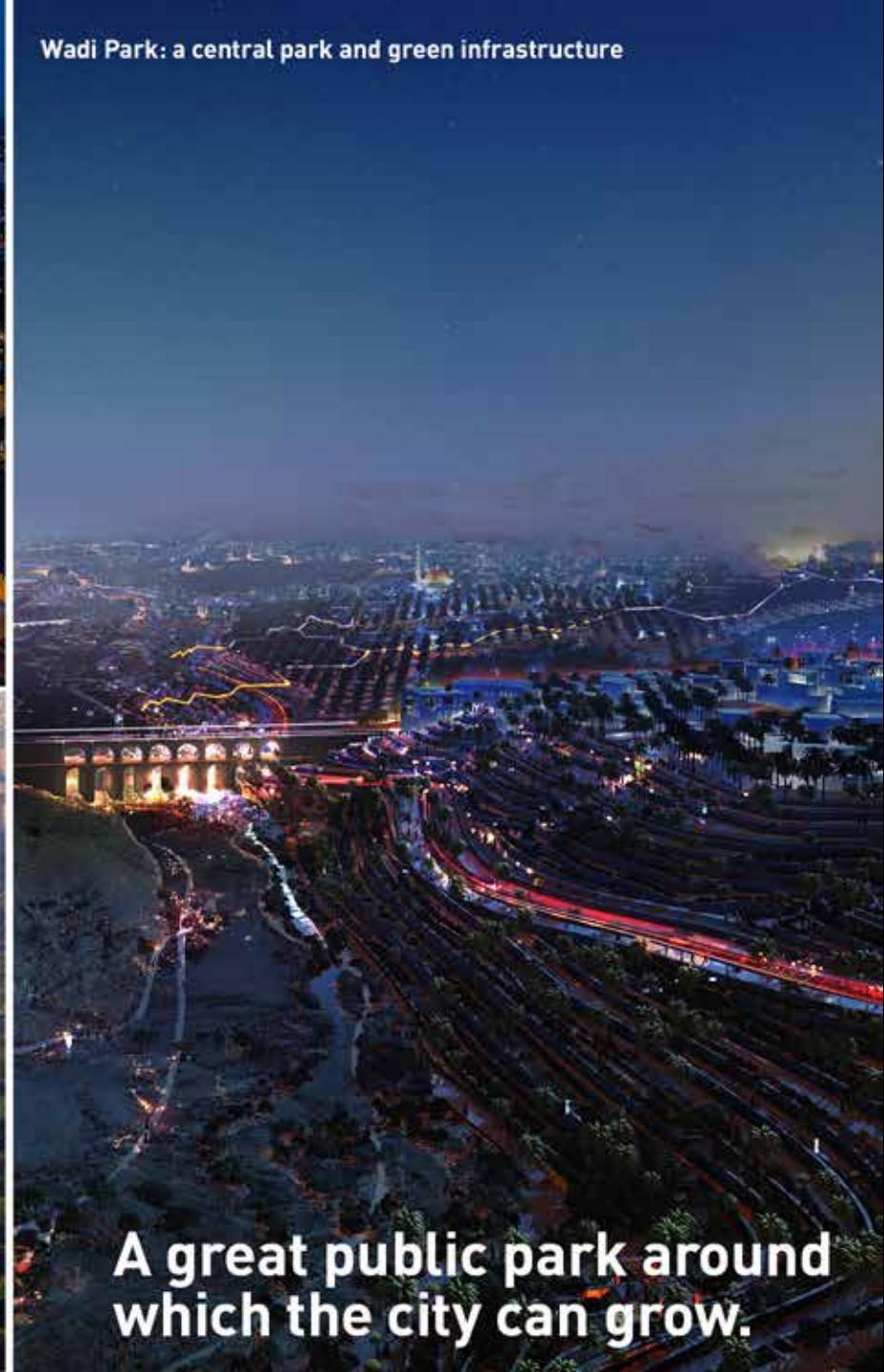


**... in a place for families to enjoy  
the simple pleasures of a walk outdoors.**

Queen Elizabeth Olympic Park,  
London



Wadi Park: a central park and green infrastructure



Central Park, New York



A great public park around  
which the city can grow.

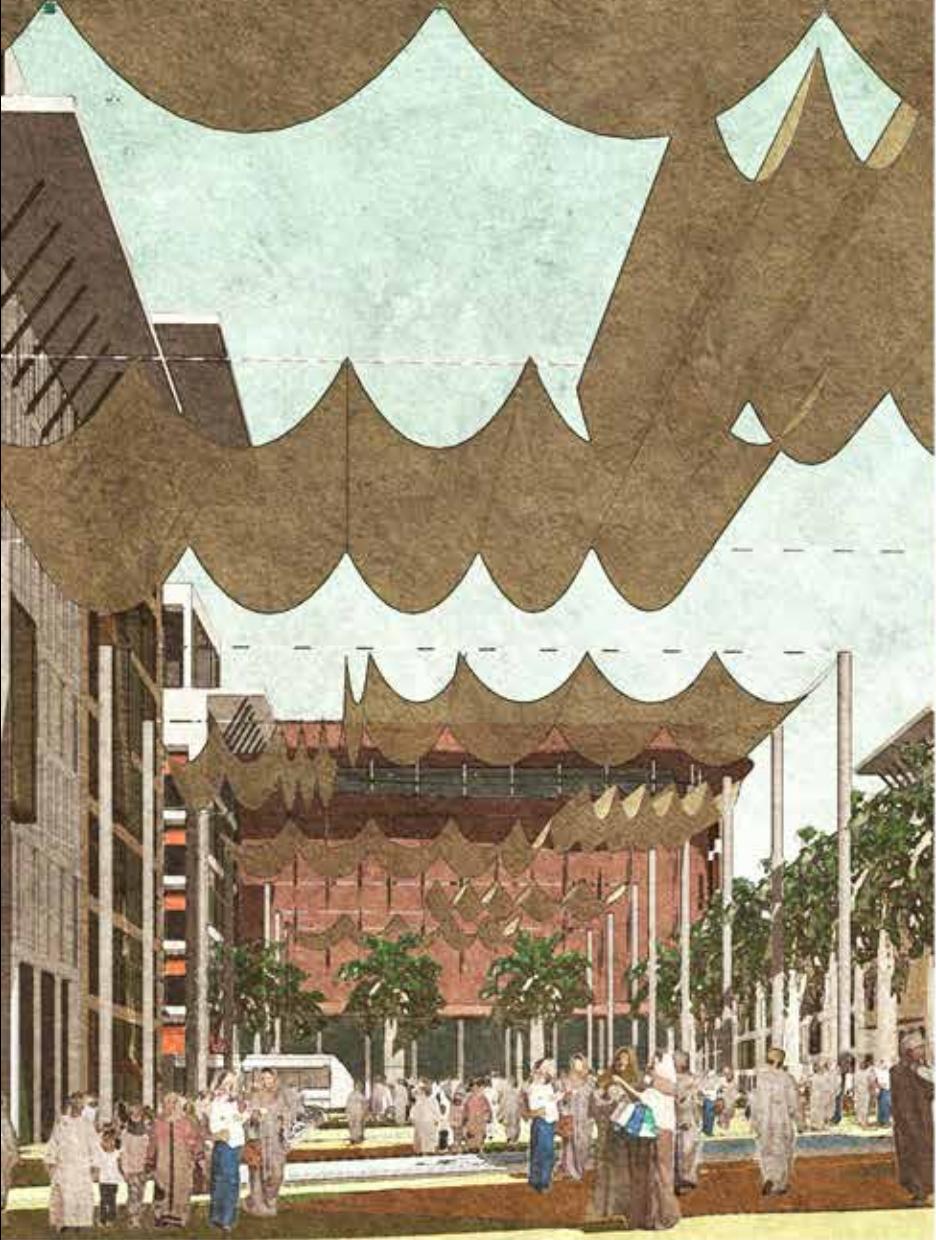


**3**

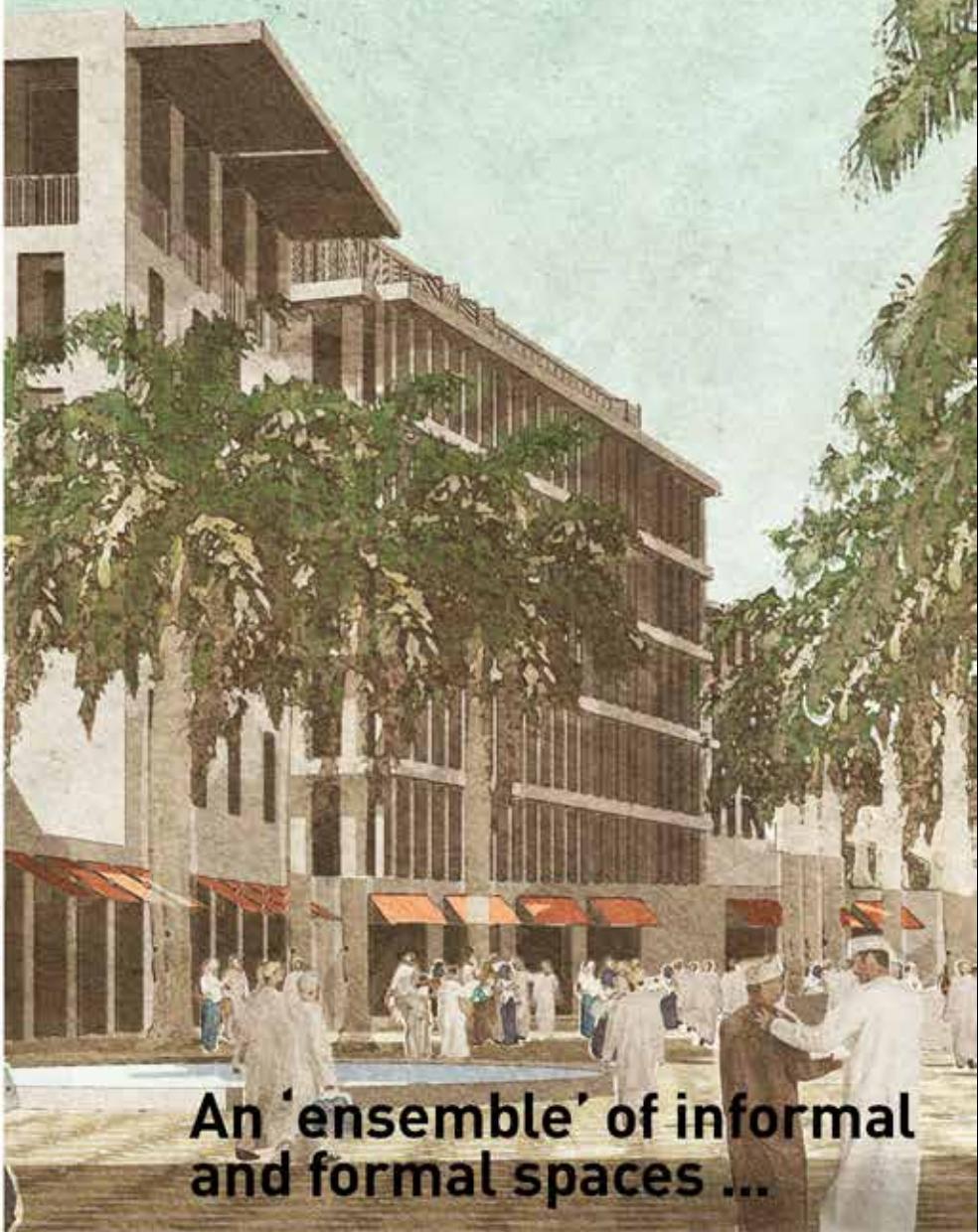
PRINCIPLE

**CREATE PLACES WITH DISTINCT CHARACTER**  
somewhere different from anywhere else.

**Informal arrangement of buildings:  
Irfan Main Square**



**Clarity of public routes:  
Irfan Central**



**An 'ensemble' of informal  
and formal spaces ...**

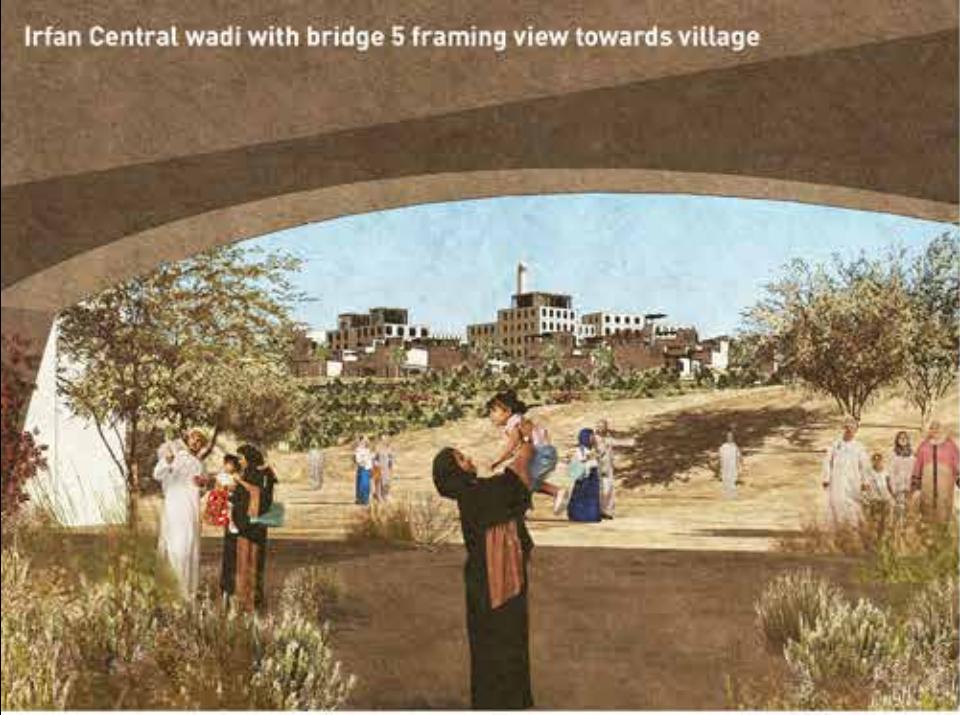


**... shapes a distinct identity  
setting Irfan apart from other modern cities.**



**One of a kind, a unique place  
that can only be found here ...**

Irfan Central wadi with bridge 5 framing view towards village



Irfan village wadis



Mosque and square at the heart of a village



Hotel in Irfan Heights



**... a great place to visit, to live,  
to work and to invest.**



**4**

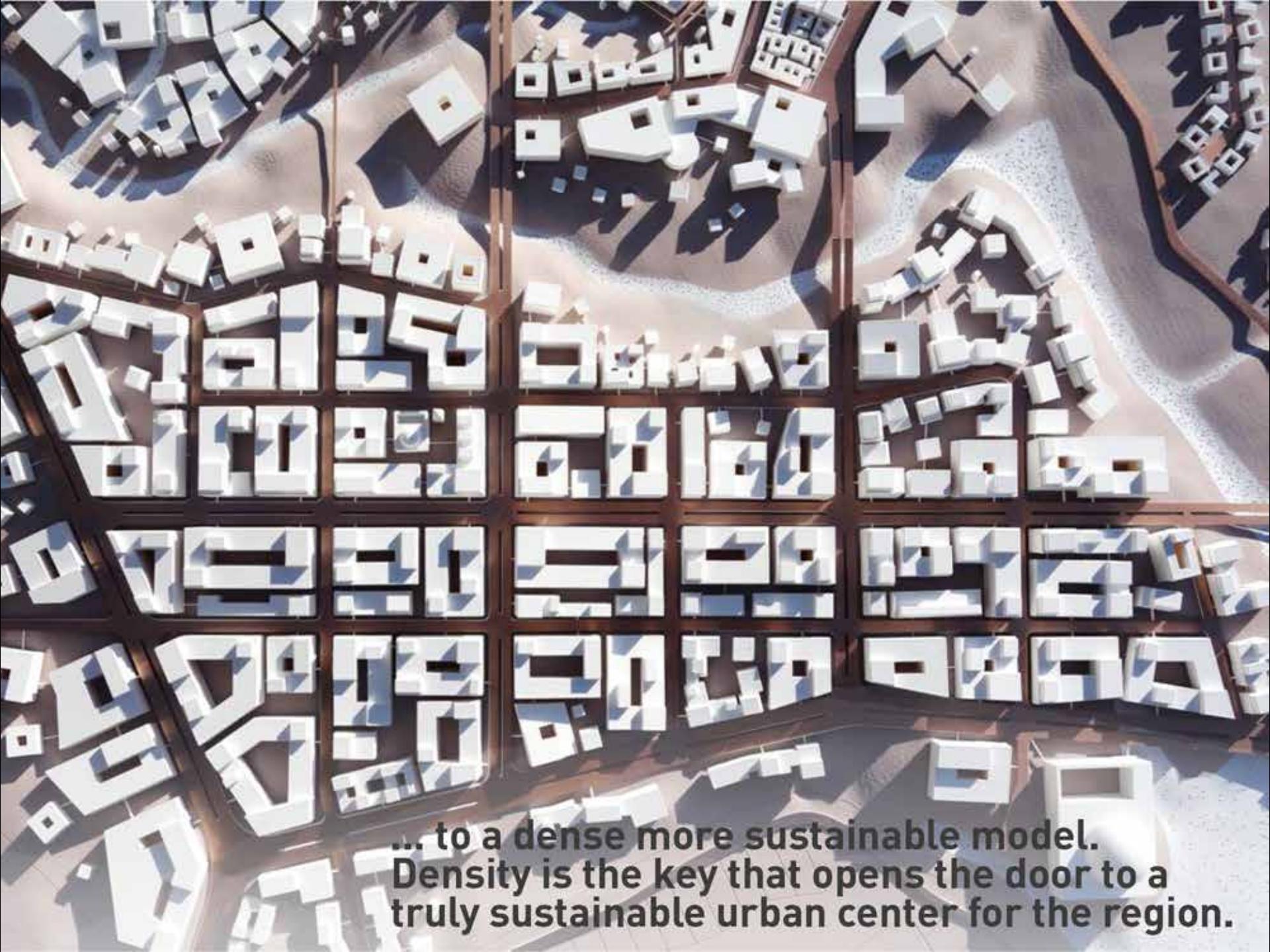
PRINCIPLE

## CREATE AN INTEGRATED, SUSTAINABLE COMMUNITY

a low-carbon city made possible through density



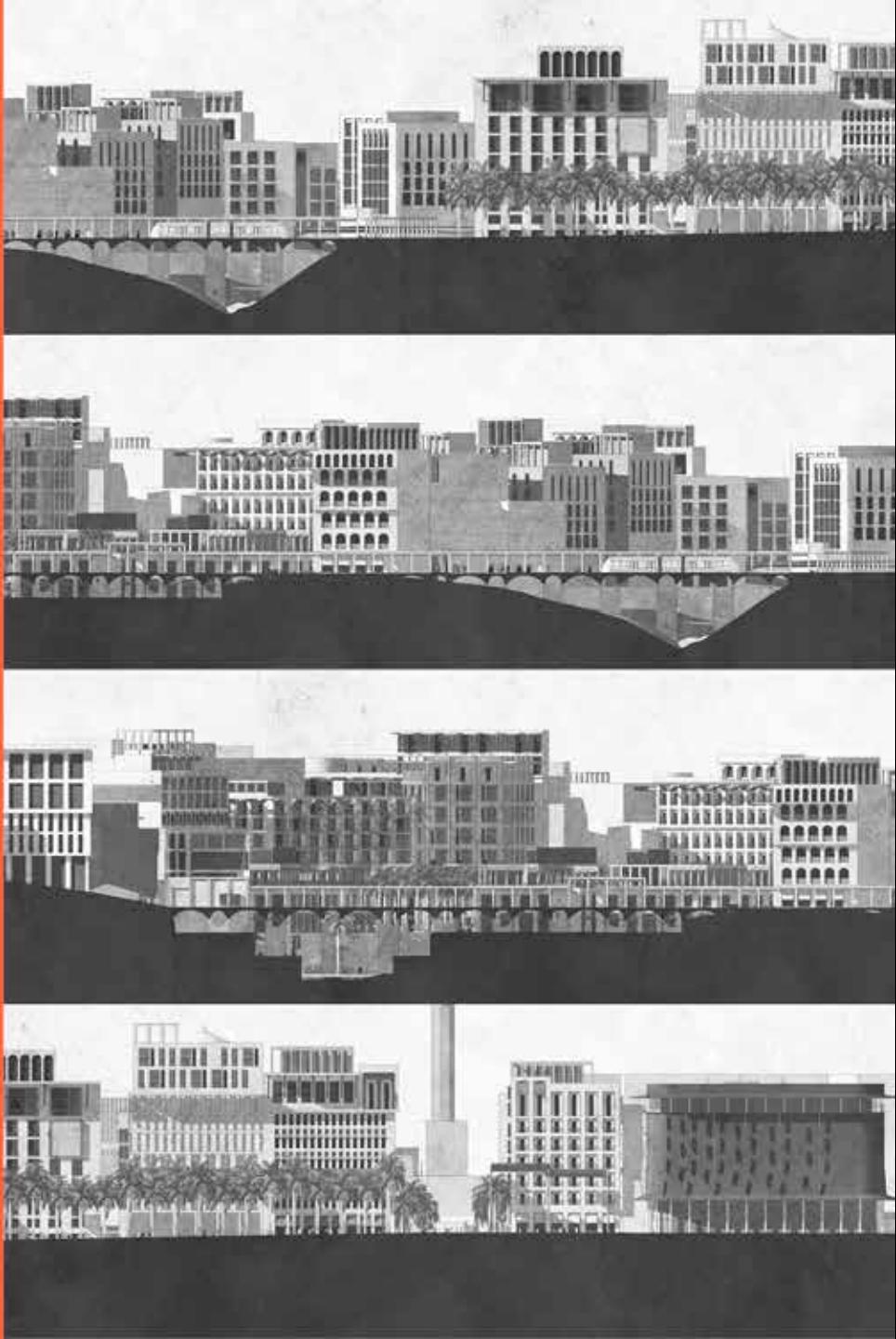
**From a sprawling, fragmented model ...**



... to a dense more sustainable model.  
Density is the key that opens the door to a  
truly sustainable urban center for the region.

# 2x GFA

Through dense urban form, Irfan  
doubles the area of the brief.





1/2  
CARS

Cutting car reliance through  
the integration of a new public  
transport system.



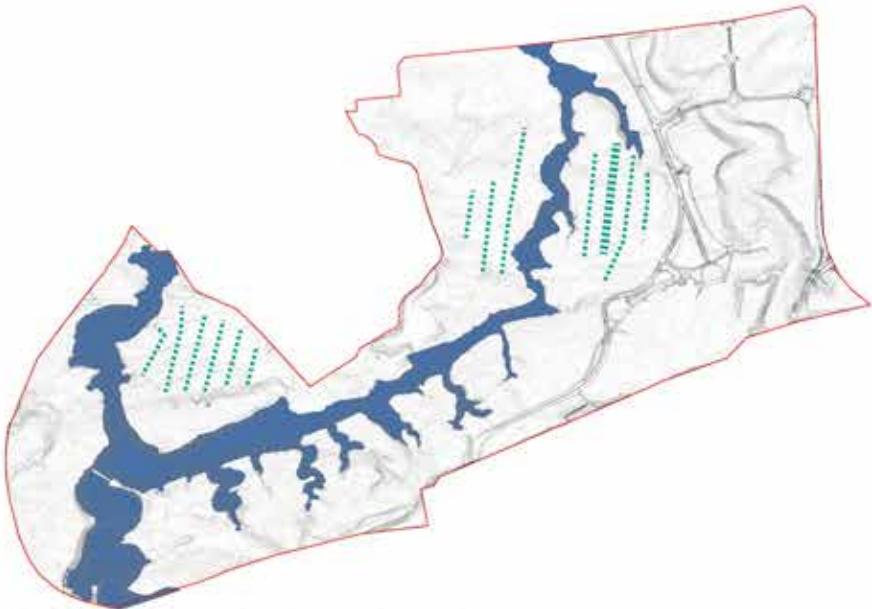
# 1/2 WATER

By combining compact urban form, smart metering and efficient fixtures and fittings, Irfan will cut potable water demand by nearly 50% for a city of similar size.

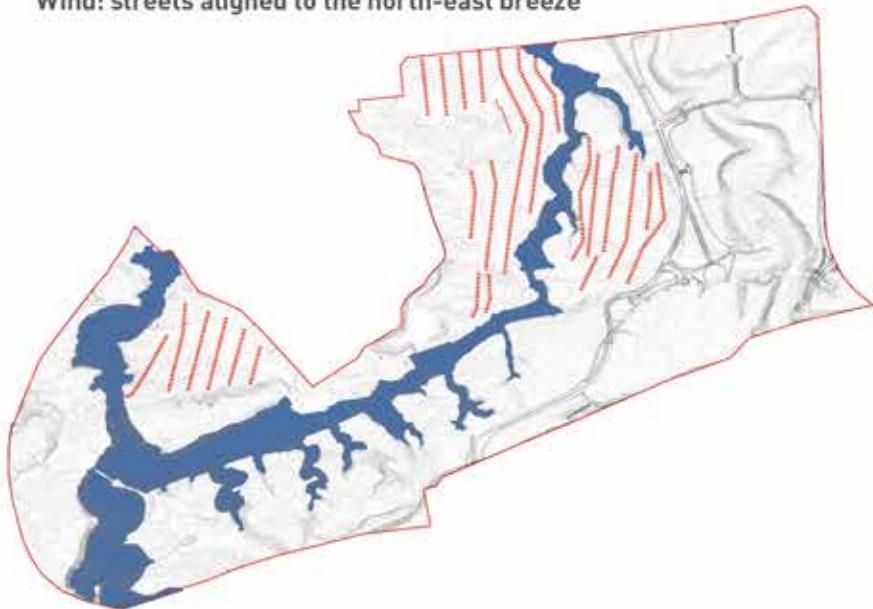


# 1/2 ENERGY

A holistic approach to buildings, renewables, natural cooling and climate-appropriate architecture halves energy use against business as usual.



Wind: streets aligned to the north-east breeze



Sun: streets following the north-south orientation



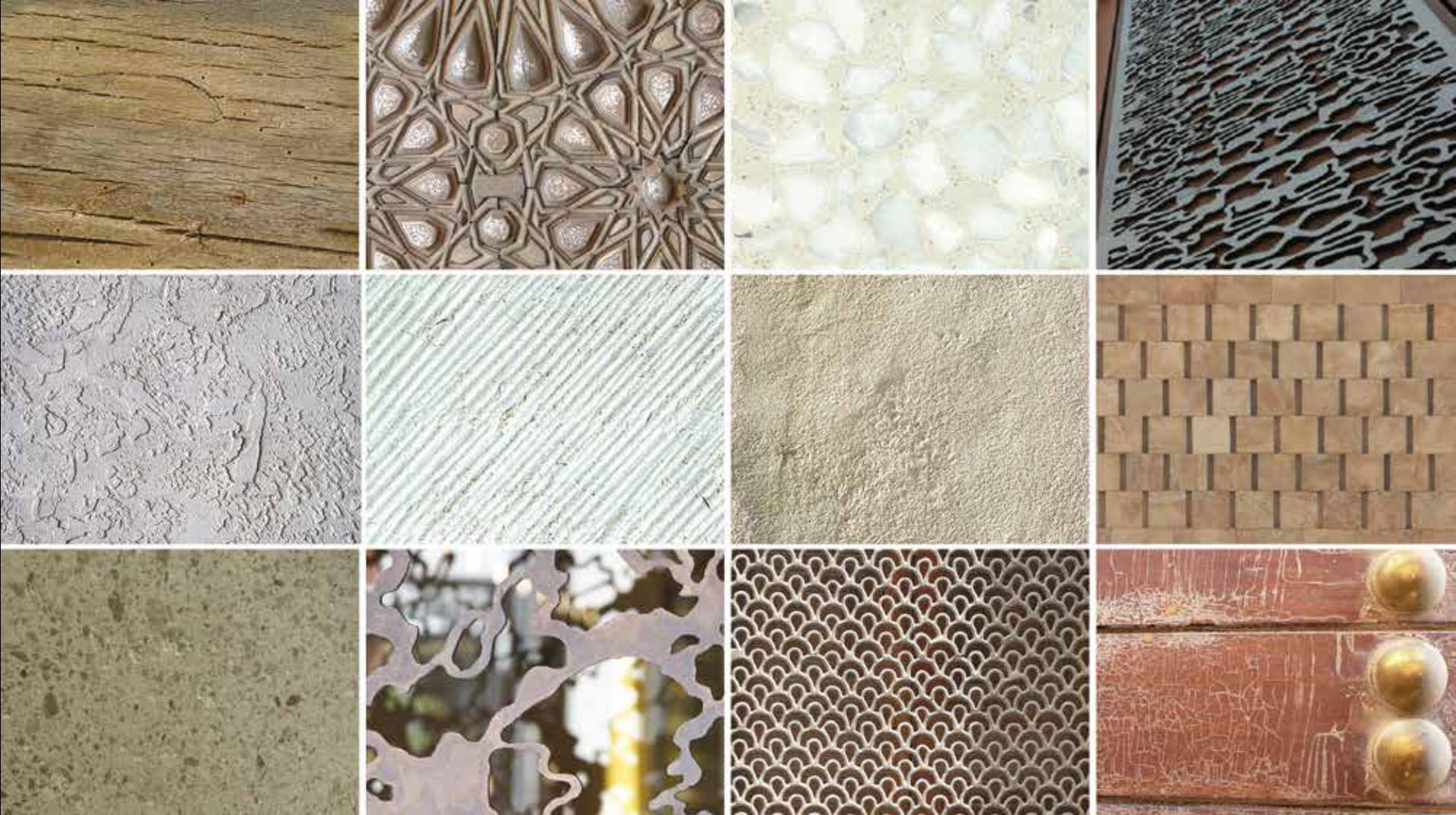
**Urban form shaped by climate.**



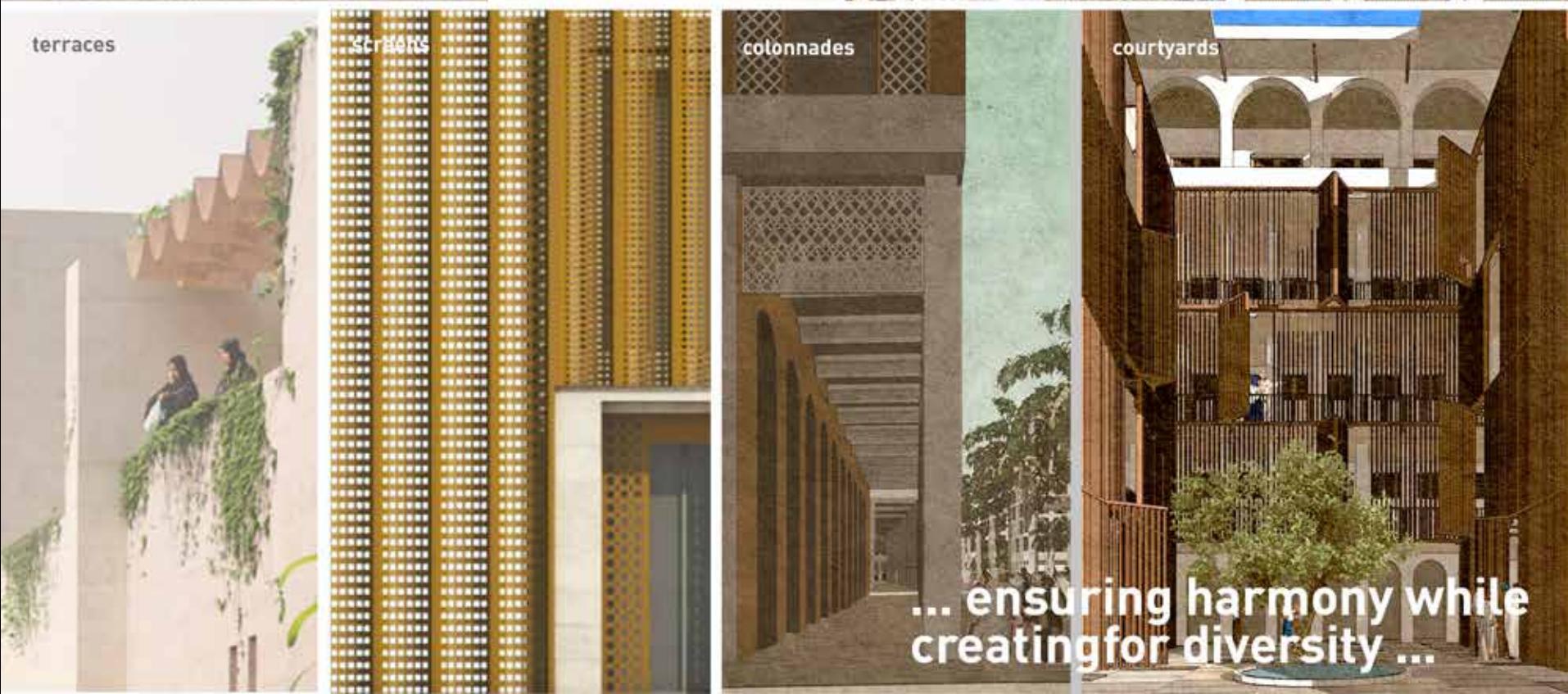
5

PRINCIPLE

**EMBRACE QUALITY AND DIVERSITY  
IN ITS BUILDING**  
appropriate architecture



**Materials and textures that are appropriate to their context, evoking the past while looking to the future...**



... ensuring harmony while  
creating for diversity ...

Theatre,  
Irfan Central Wadi  
Promenade



Irfan Central Souk



**... with landmark buildings  
at key locations.**



6

PRINCIPLE

## CREATE ACTIVE MIXED-USE PLACES

a diverse, dense city; not mono-functional,  
not zoning-led

46.9% 28% 4.5% 4.4% 3.8% 1.7% 3.09% 0.4%

Residential Commercial

4.5%

Educational Facilities

4.4%

Retail

3.8% Healthcare Facilities

Cultural

Hotels

Mosques



EDUCATIONAL FACILITIES

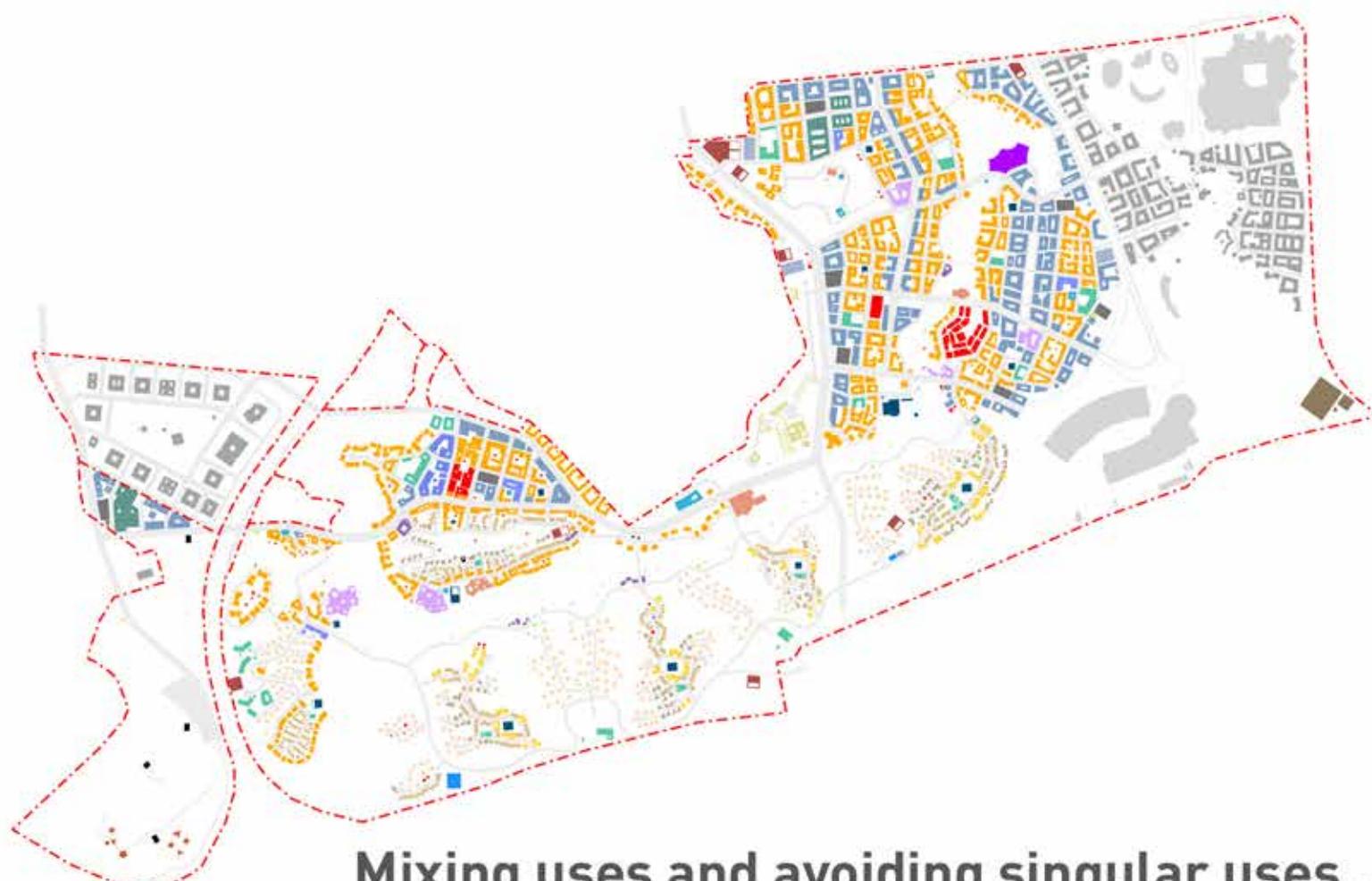
Retail

Healthcare Facilities

Cultural

Hotels

Mosques



Mixing uses and avoiding singular uses ...



**... within compact neighbourhoods that have the conveniences for residents use day-to-day.**



**Comfortable public spaces  
that encourage human interaction.**

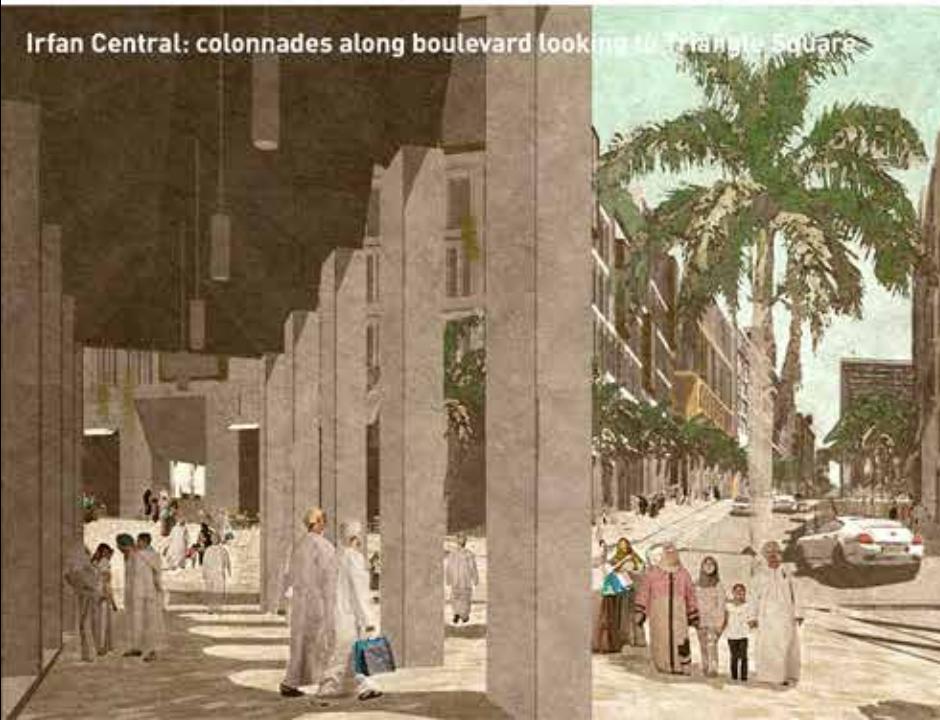
Irfan Heights: gateway space to high town and Irfan Heights park



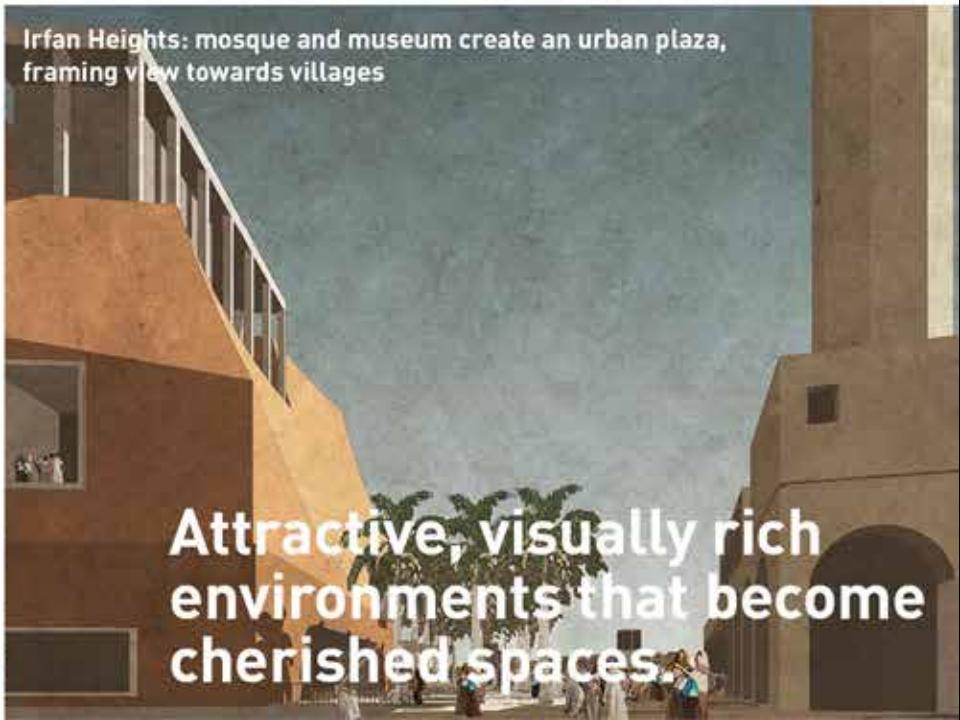
Irfan Central: souk main squares



Irfan Central: colonnades along boulevard looking to triangle square



Irfan Heights: mosque and museum create an urban plaza, framing view towards villages



Attractive, visually rich environments that become cherished spaces.



7

PRINCIPLE

**PROVIDE AN INTEGRATED TRANSPORT SYSTEM**  
changing a car-centric mindset, and connecting  
the city and the region

— Site boundary  
■ Square  
■ Shared surface



A walkable scale...



...with 31,000 trees providing comfort and shade.



Bridges provide key connections across the Wadi Park, connecting both sides of a city...

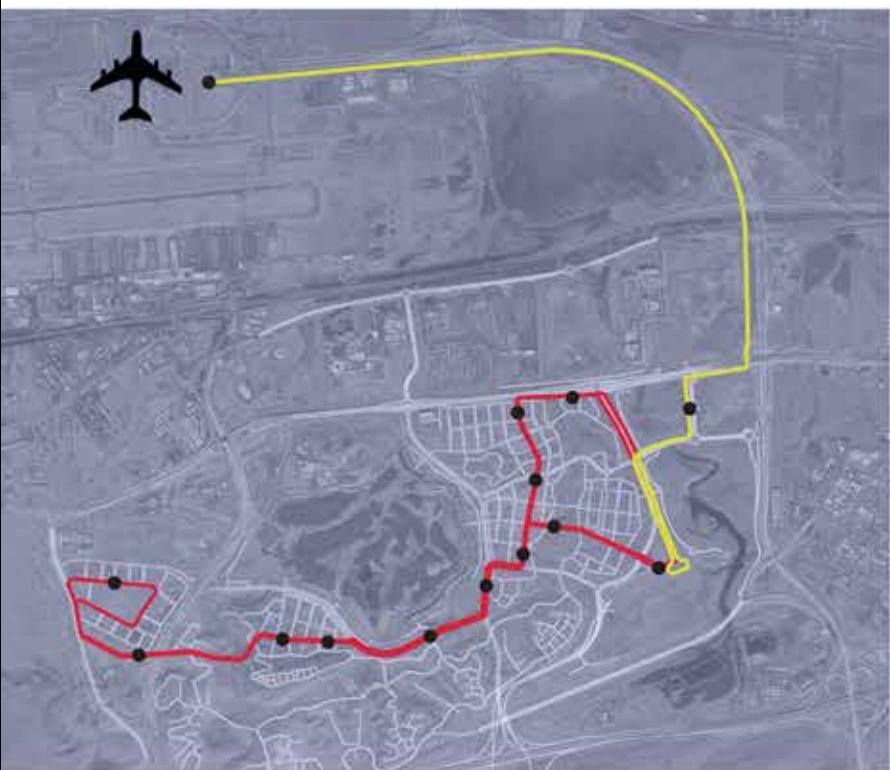


....linked together through public transport.

**Shift behaviours towards walking and public transport ...**



**... by providing a real choice  
of transport options ...**



Thinking globally:  
Irfan light rail system and connection to  
MCT international airport



Thinking regionally:  
A Muscat-wide light rail system

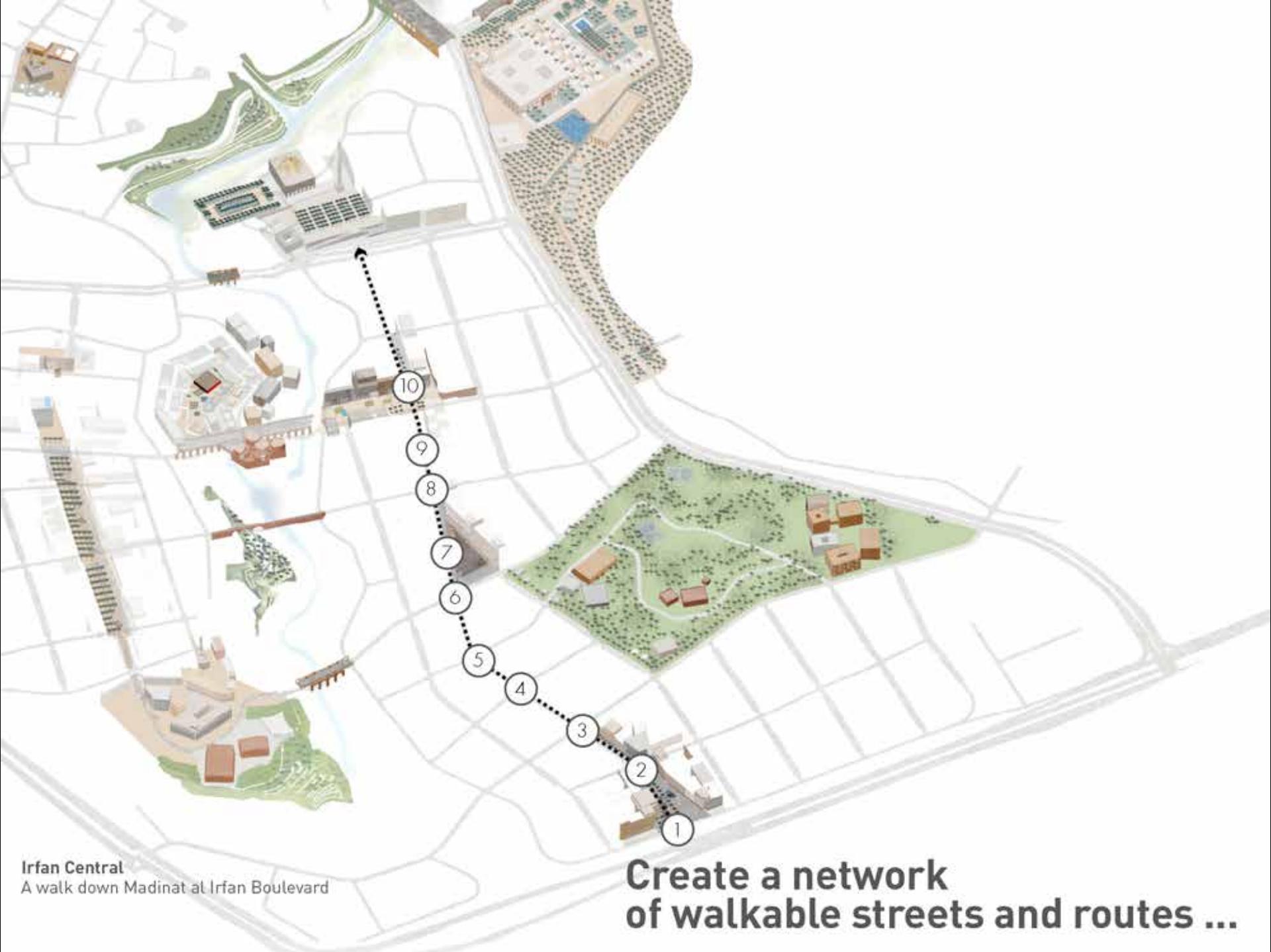
**... while developing future transport links  
which will connect the city.**



PRINCIPLE

8

**CREATE A COMFORTABLE ENVIRONMENT  
FOR PEDESTRIANS**  
design for the climate and for people



Create a network  
of walkable streets and routes ...

Irfan Central  
A walk down Madinat al Irfan Boulevard



Gateway entrance from Al Jami Al Akbar Street



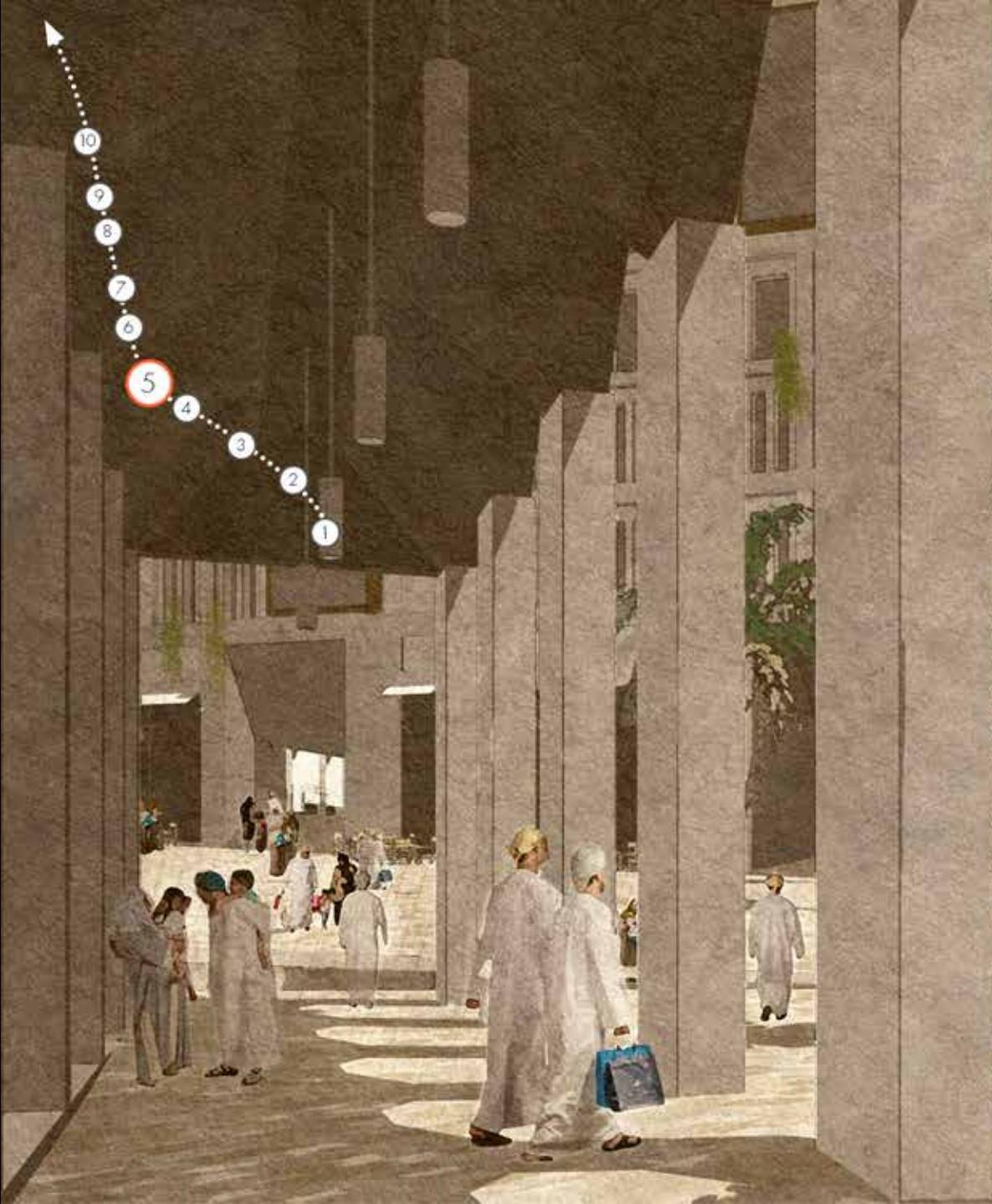


Shaded street continuing up the boulevard



- 10
- 9
- 8
- 7
- 6
- 5
- 4
- 3
- 2
- 1

Approaching a landmark building



Under a colonnade looking towards Triangle Square

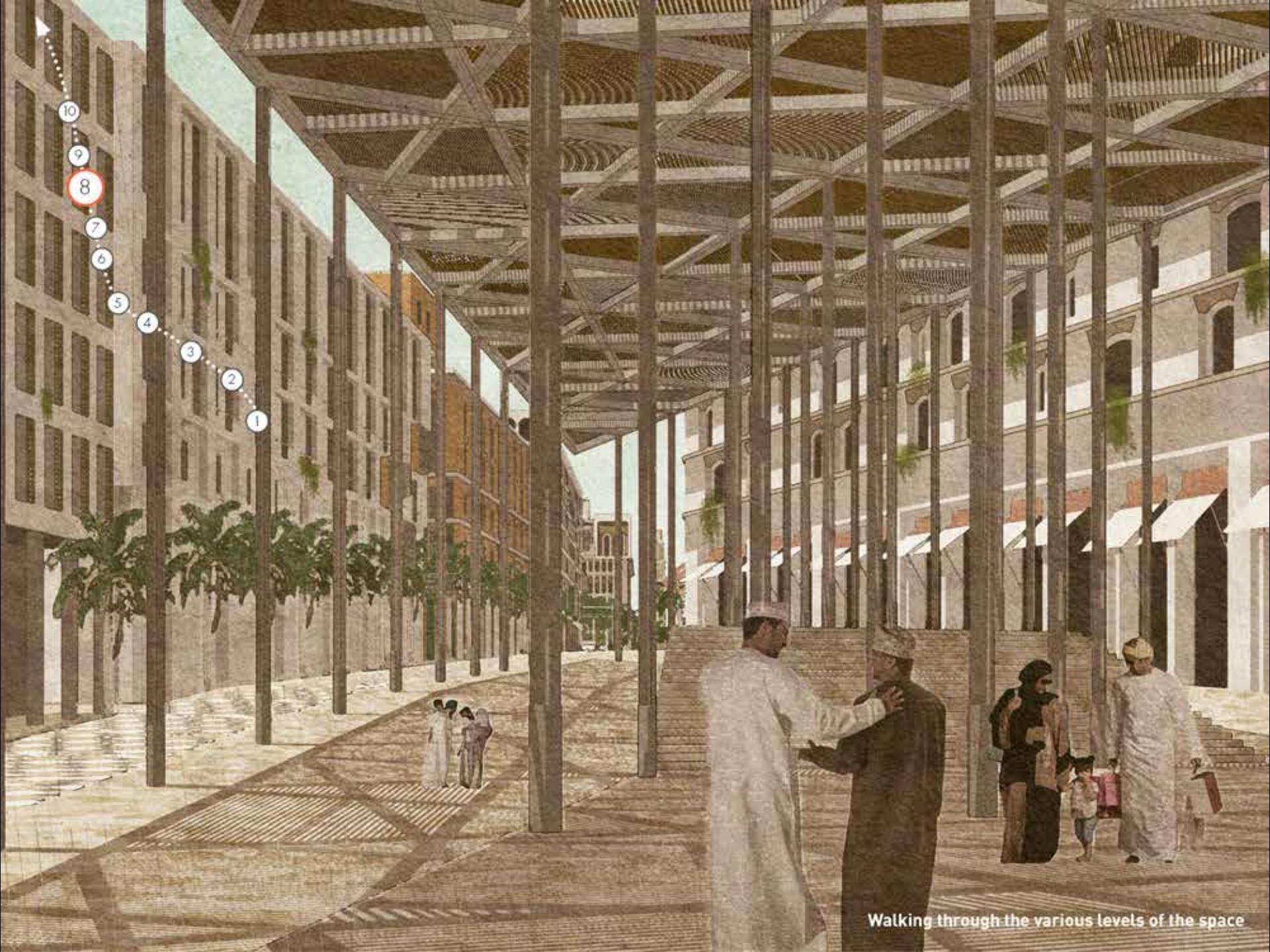


- 10
- 9
- 8
- 7
- 6
- 5
- 4
- 3
- 2
- 1

Approaching Triangle Square, which is shaded by a canopy



Under the shaded canopy at Triangle Square



Walking through the various levels of the space



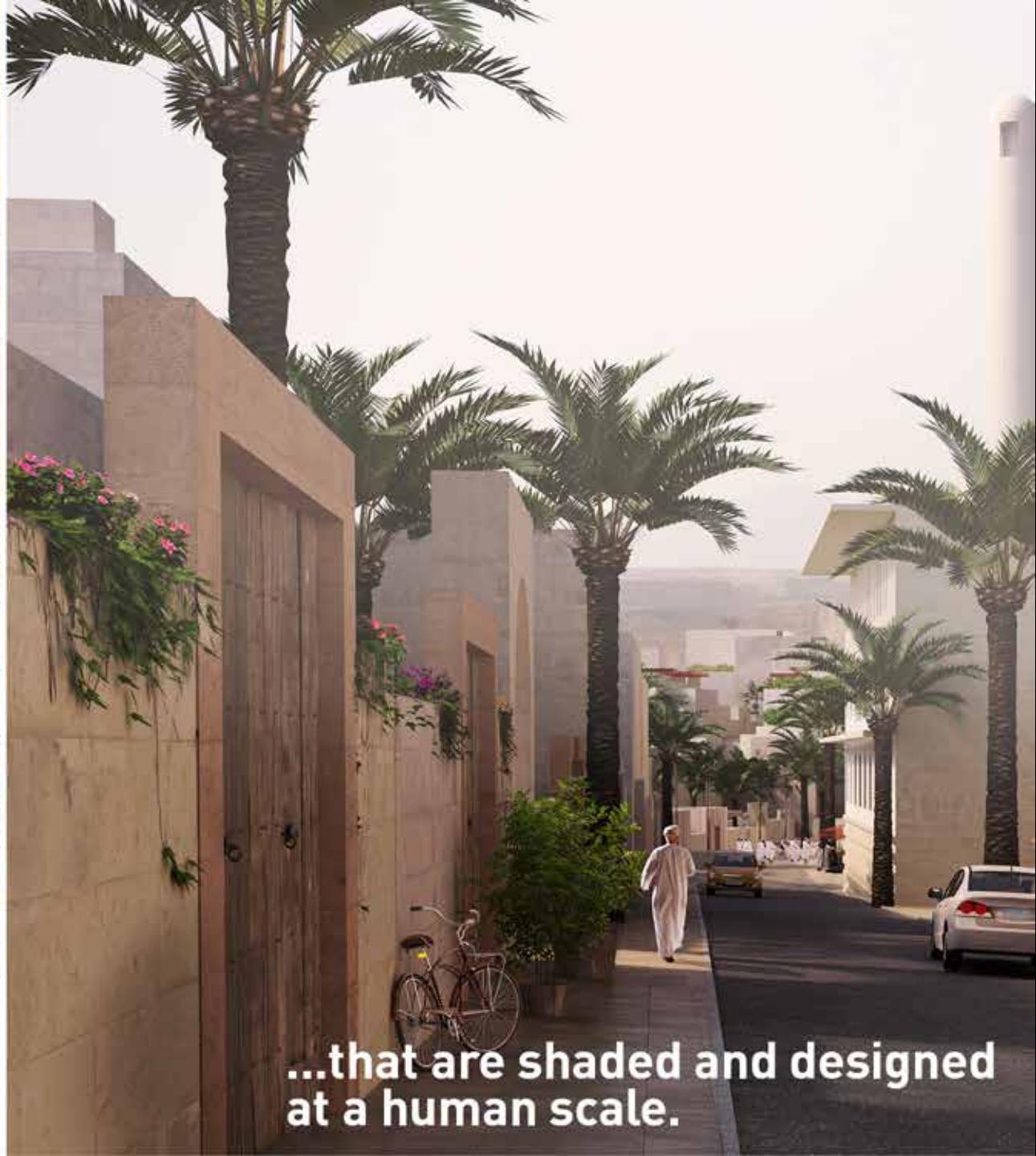
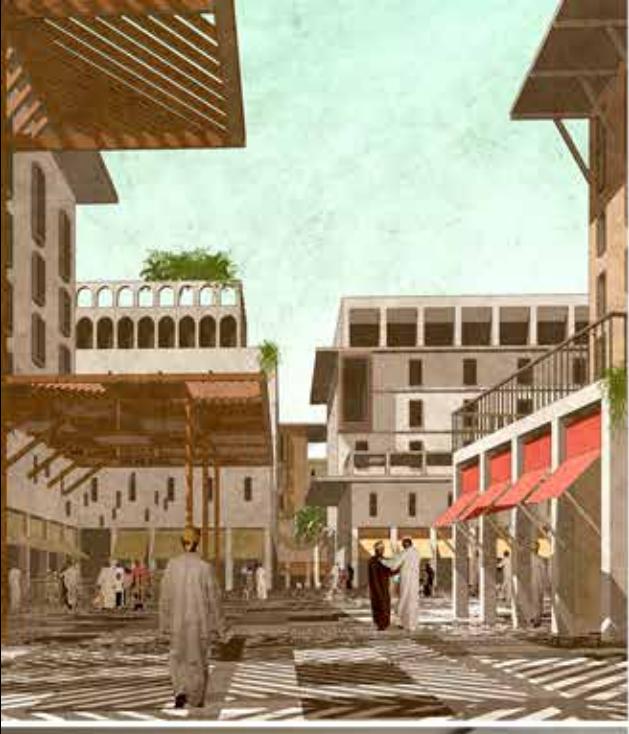
Crossing the road towards a new intersection square



Continuing through a shaded colonnade



**In a desert climate, create walkable routes  
that work for most of the day...**



**...that are shaded and designed  
at a human scale.**



**Encourage walking within neighbourhoods  
and between them.**

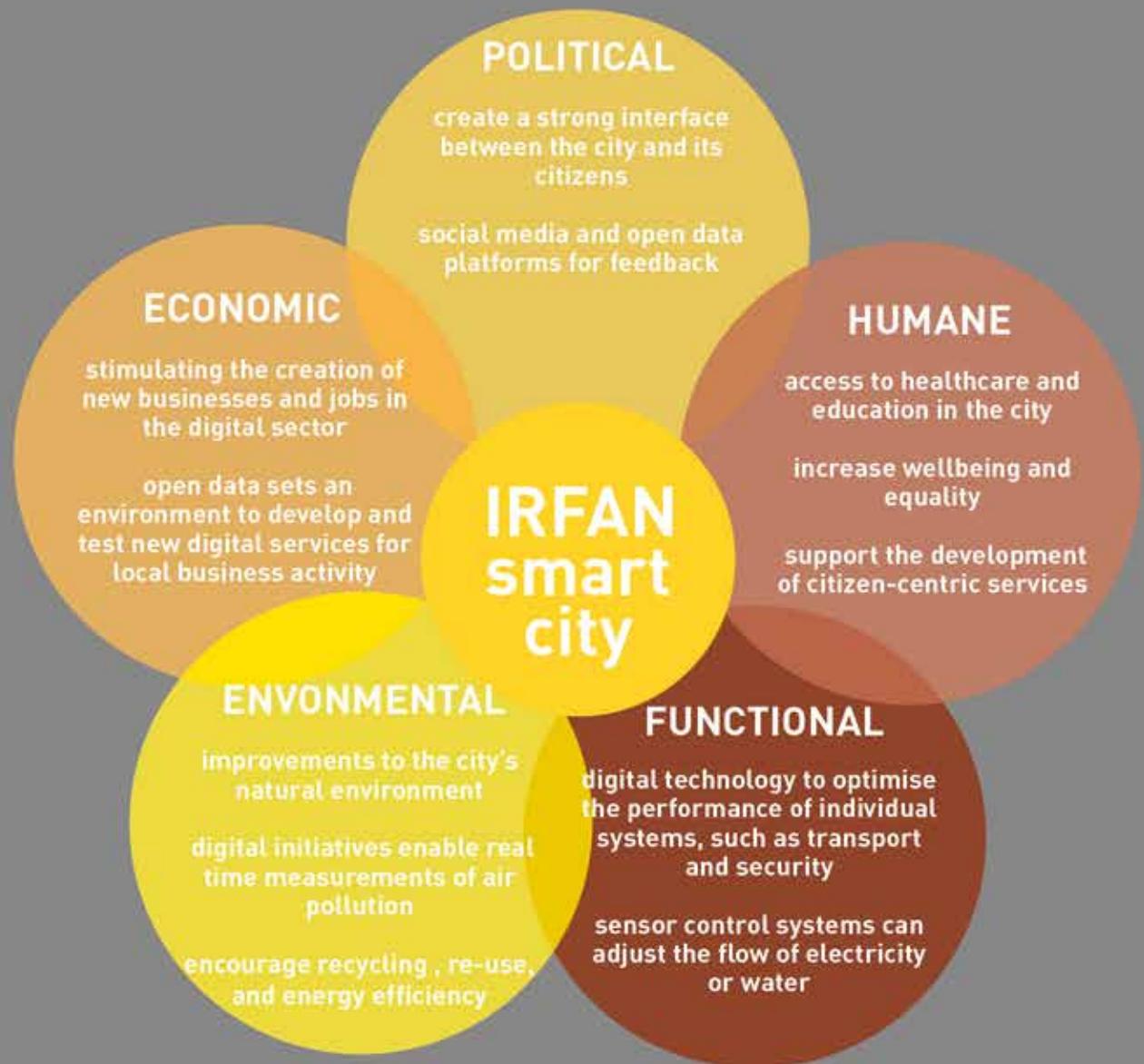


9

PRINCIPLE

## A SMART CITY

using technology to enable sustainable choices



What is a 'smart city' ?

## ... life in Irfan in 2025



Maitha  
resident in Irfan



in the morning  
real time  
transport info App



travel to work  
using public  
transport



in the bus/LRT train  
payment via  
wearable device



throughout the city  
free wifi



work/leisure  
online open data service  
feedback or request form



Marco  
visitor in Irfan



before his trip  
Irfan official  
tourism website



10 best things to do  
book via mobile  
device



sightseeing  
using public  
transport



sightseeing  
or via bike rental  
traffic signal  
priority through  
sensors



throughout the city  
free wifi

**Using mobile technology  
to make getting around easier ...**



**... all to encourage healthier urban behaviour and reduce reliance on cars.**



**10**

PRINCIPLE

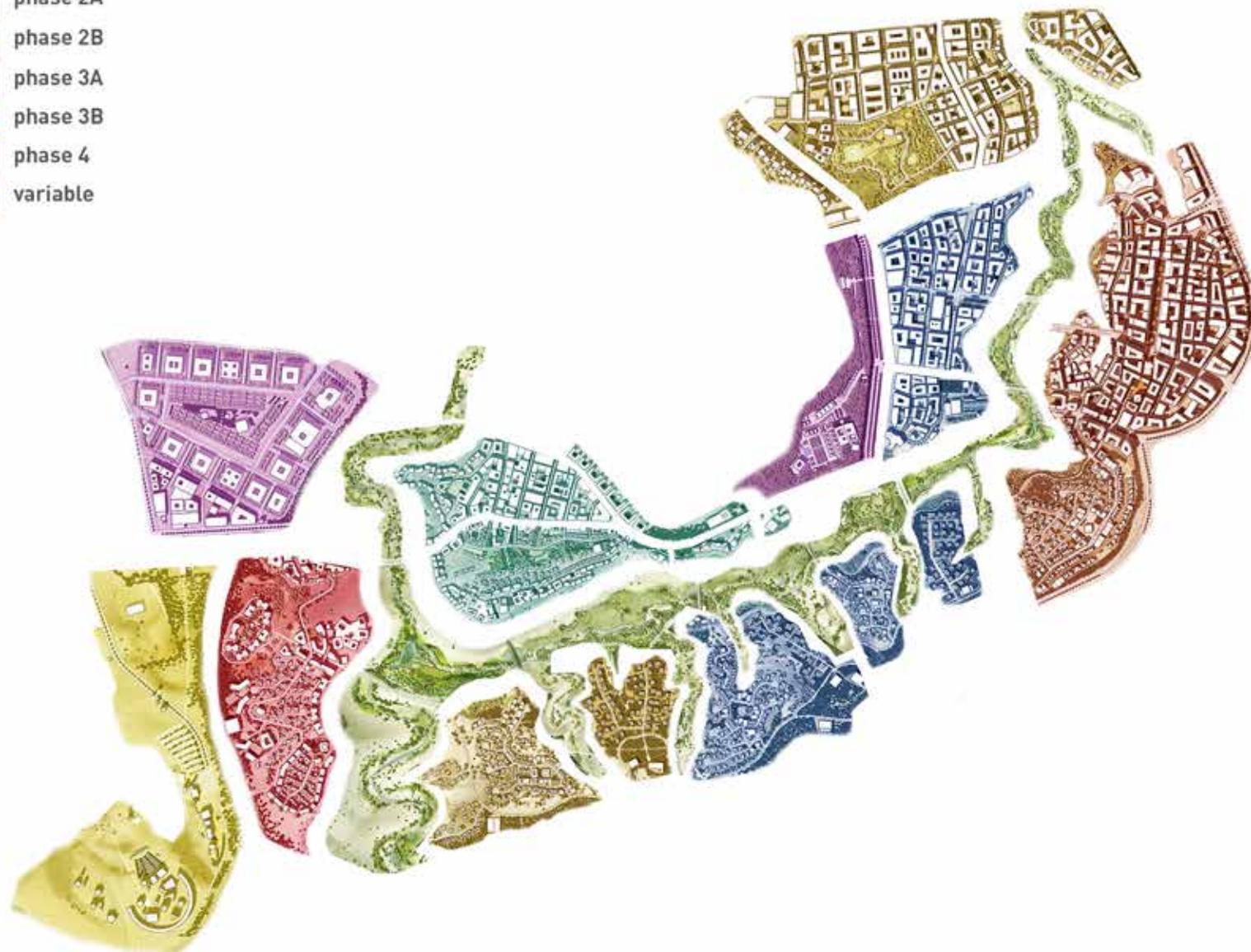
## COMPLETE AT EVERY STAGE

create phases of development that are coherent and distinctive



The city's ...

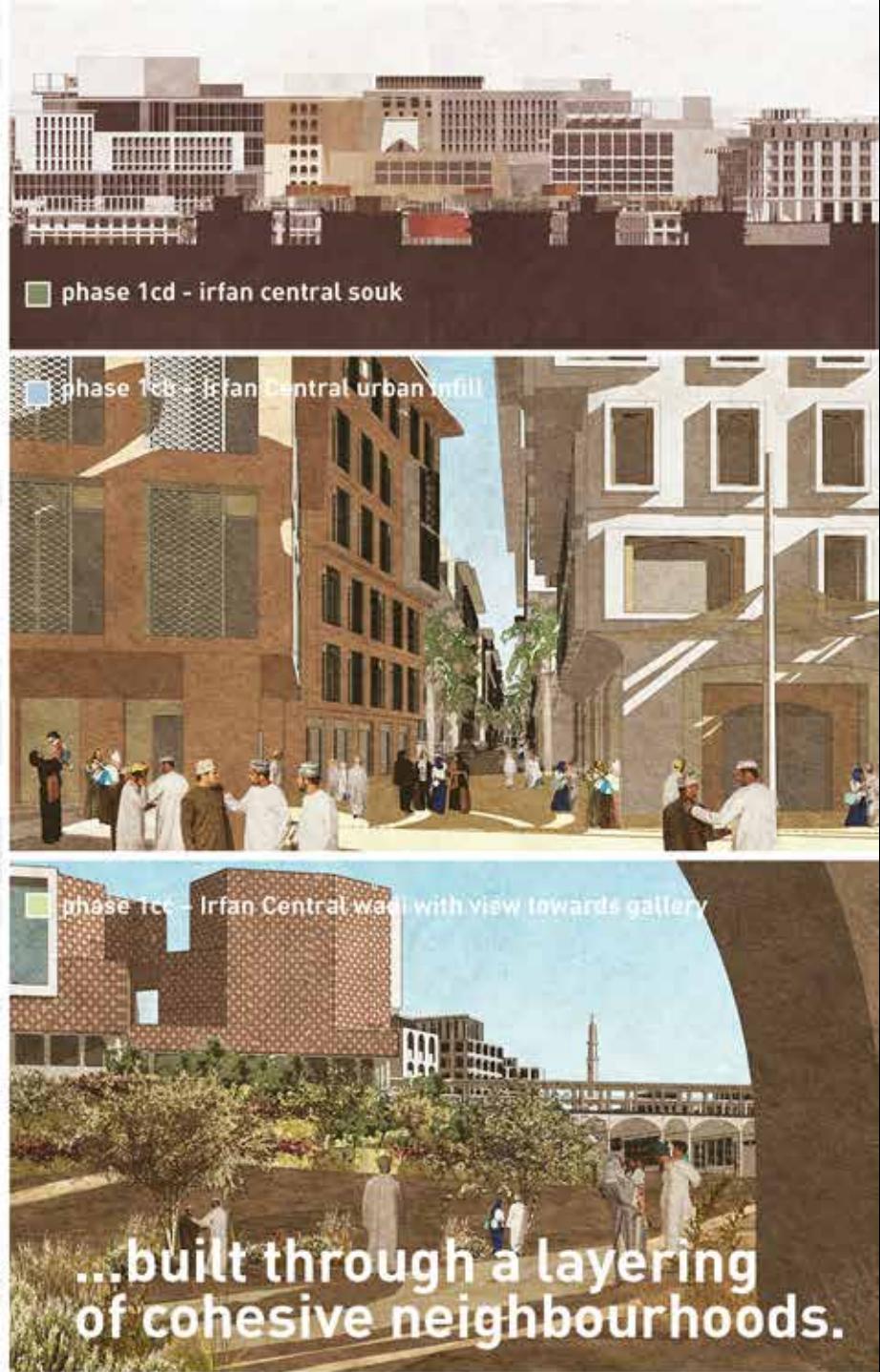
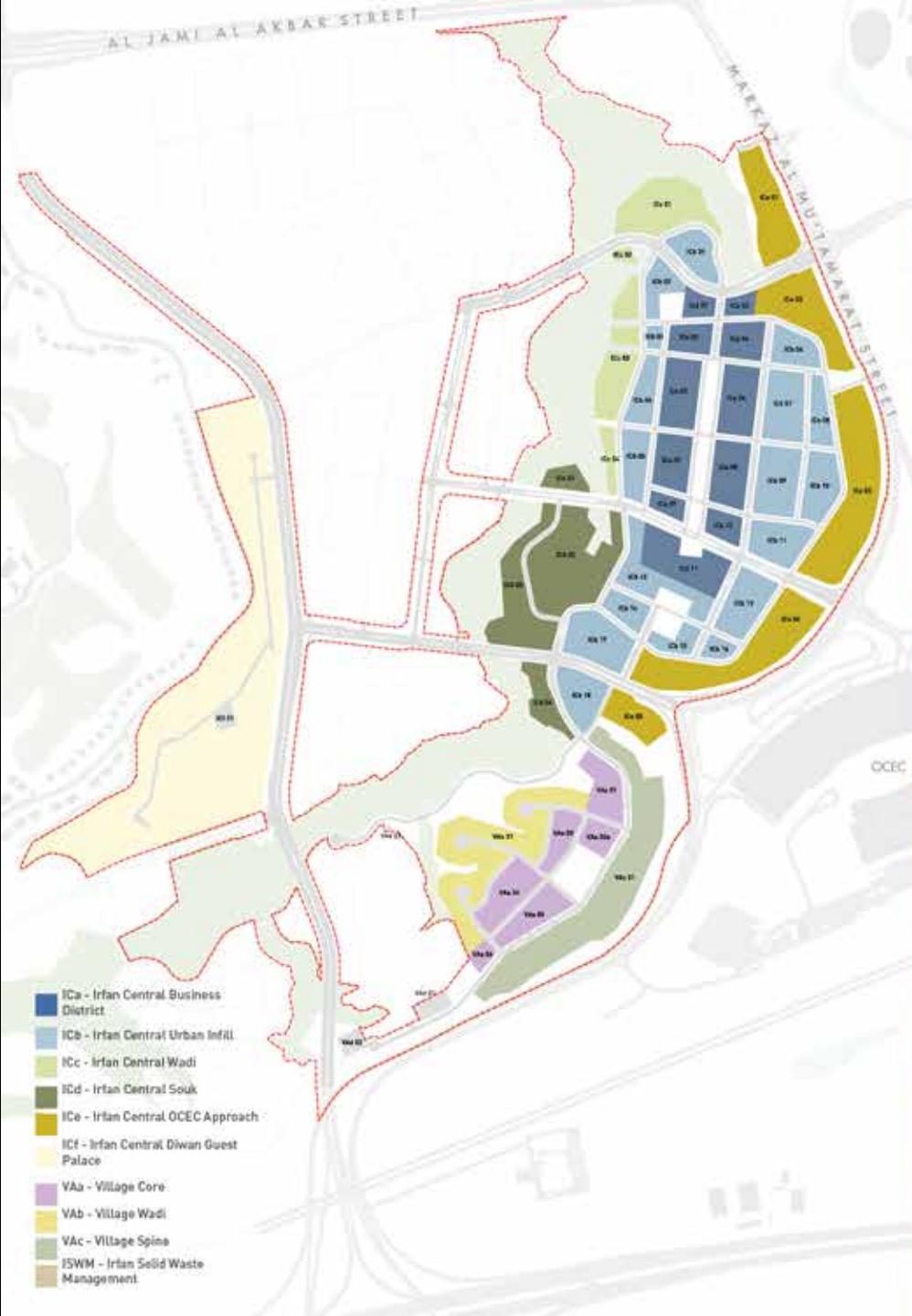
- phase 1
- phase 2A
- phase 2B
- phase 3A
- phase 3B
- phase 4
- variable



... different phases ...



**with phase 1 as Irfan's catalyst...**



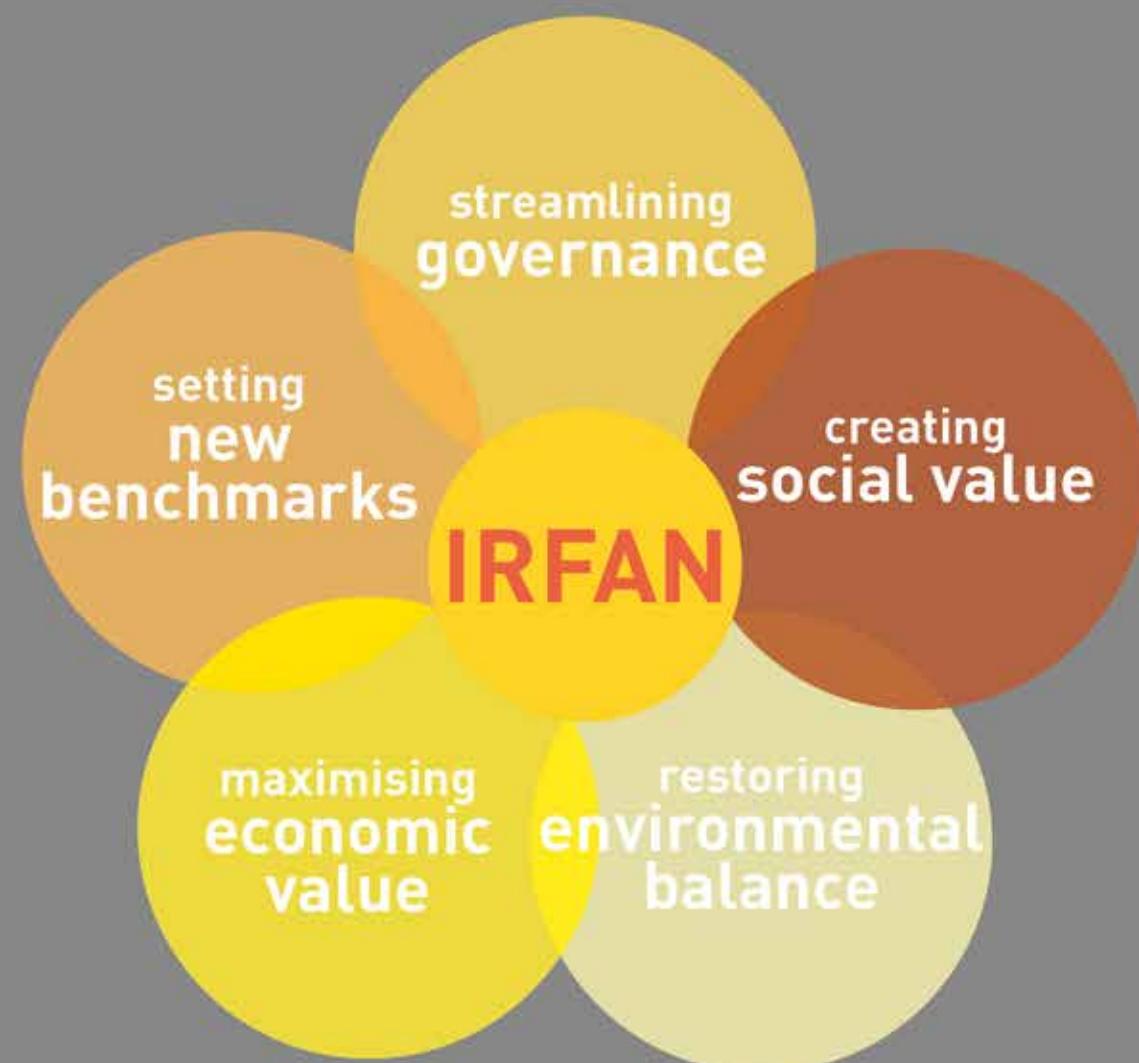
11

## PROVIDE A CATALYST FOR CHANGE

create a framework to deliver the project while setting new standards for others to follow



# A STEP-CHANGE IN DEVELOPMENT...

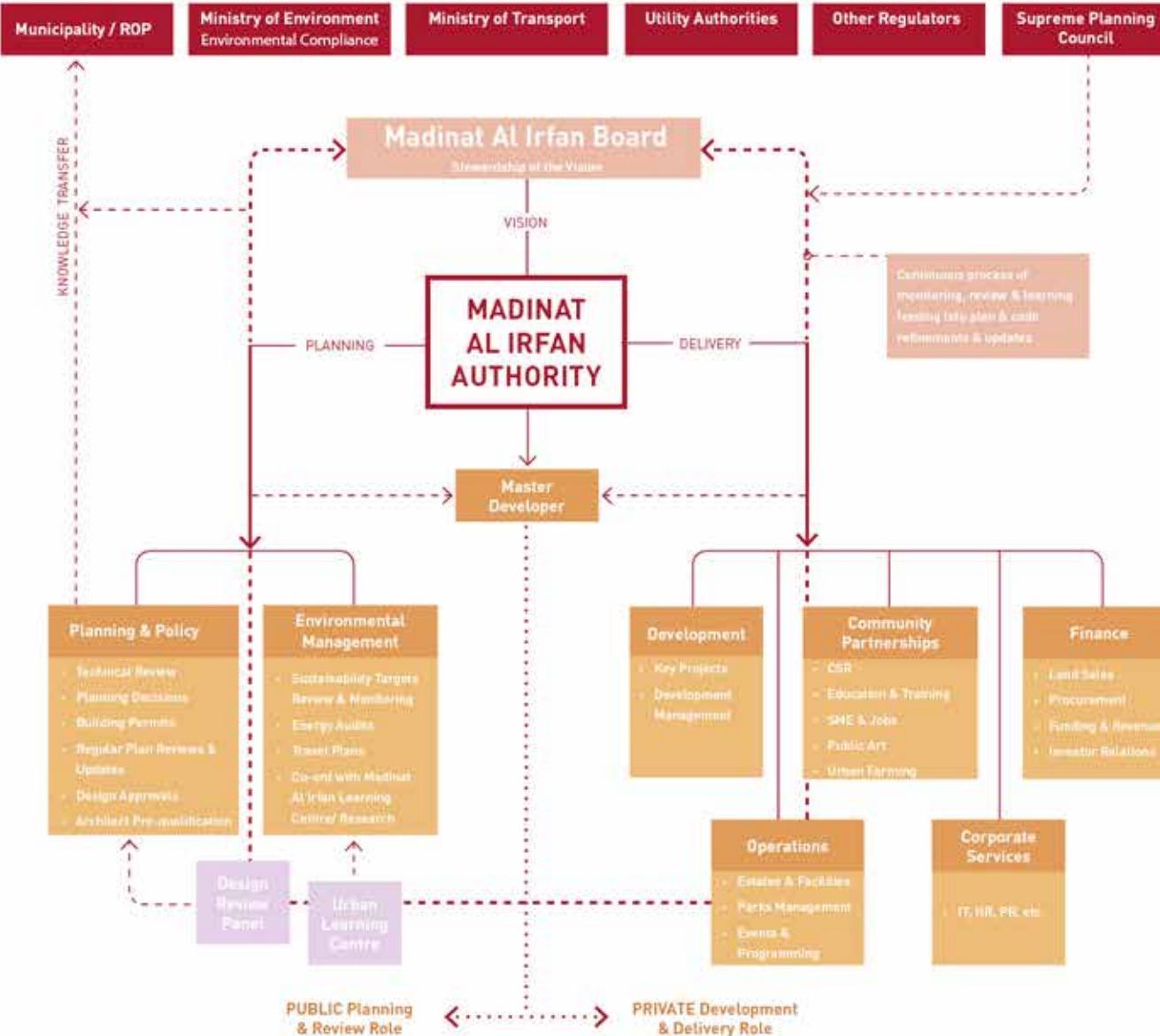


# HOW TO GET THERE?

**CERTAINTY**  
**THROUGH DESIGN CODES**



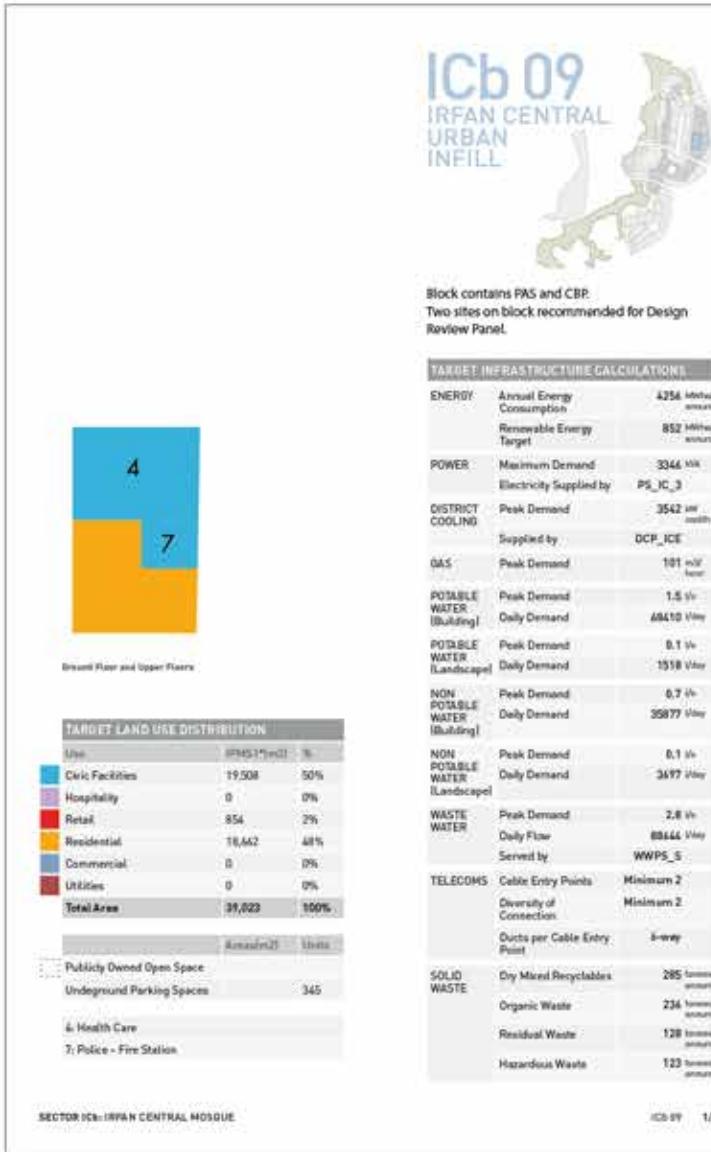
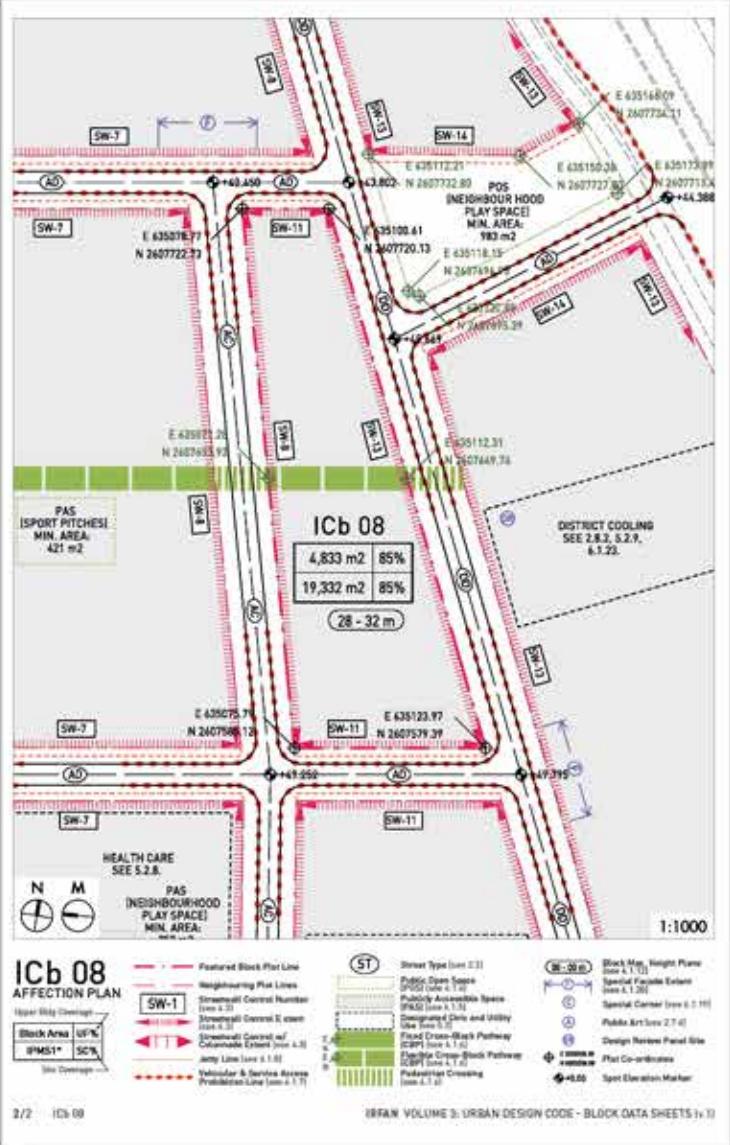
**CLARITY**  
THROUGH GOVERNANCE



**...administered through strong city management and leadership for the long-term.**

**INVESTOR-FRIENDLY  
THROUGH TRANSPARENT  
MARKETING OF EACH PLOT**

**Complex and detailed thinking ... distilled into a single A4 sheet for each development plot.**



**Translate the masterplan's vision  
into something simple to understand.**

# THIS IS IRFAN ...



# IRFAN IS A MODEL FOR A NEW URBAN AGENDA.



FROM AN APPRECIATION  
OF WHAT WORKED WELL  
IN THE PAST...



... EMERGES TOMORROW'S  
RESILIENT CITY ...



greetings from  
**THE CITY  
OF BRIDGES**

Irfan



**MADINAT  
AL IRFAN**



**MADINAT  
AL IRFAN**



**MADINAT  
AL IRFAN**

A MEMORABLE PLACE

# A CITY OF BRIDGES...



# AS IF IT HAS ALWAYS BEEN THERE

