

S5: Smart Nature based solutions

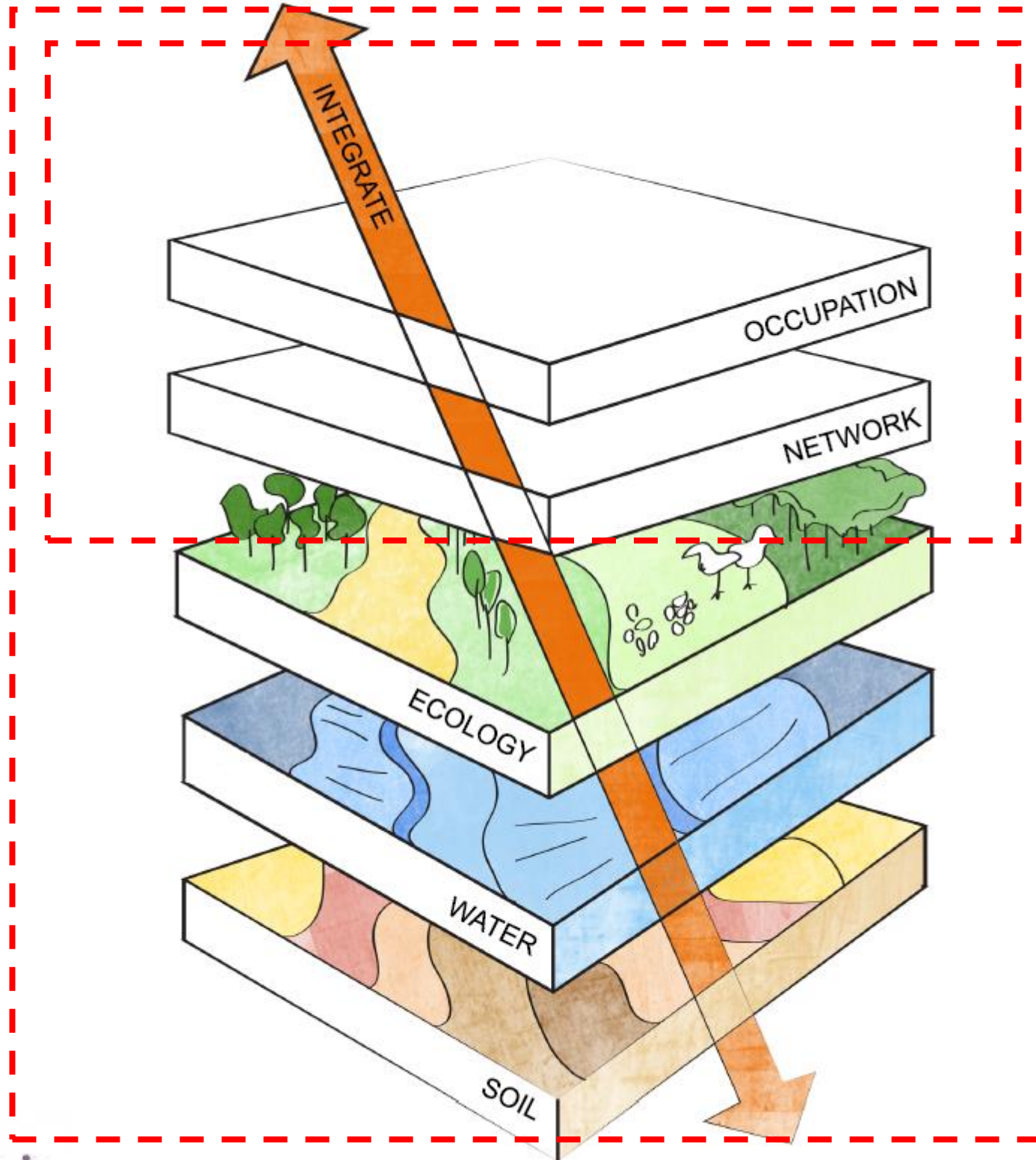
Smart Solutions in Natural Landscapes

Muscat, Oman, October 18th, 2022

Bart Wubben

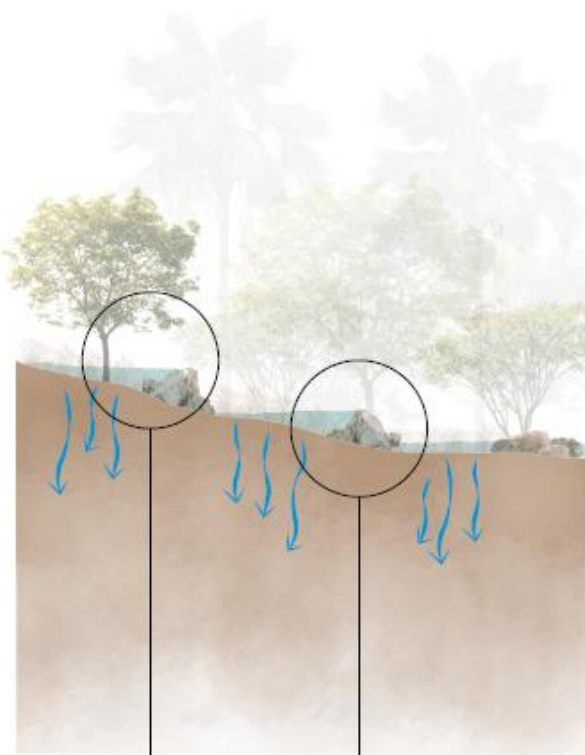
Founder & CEO, Muscat Landscaping

smart solutions in the landscape isolated approach vs holistic approach



smart solutions in the landscape isolated approach vs holistic approach

WATER HARVESTING STRATEGY



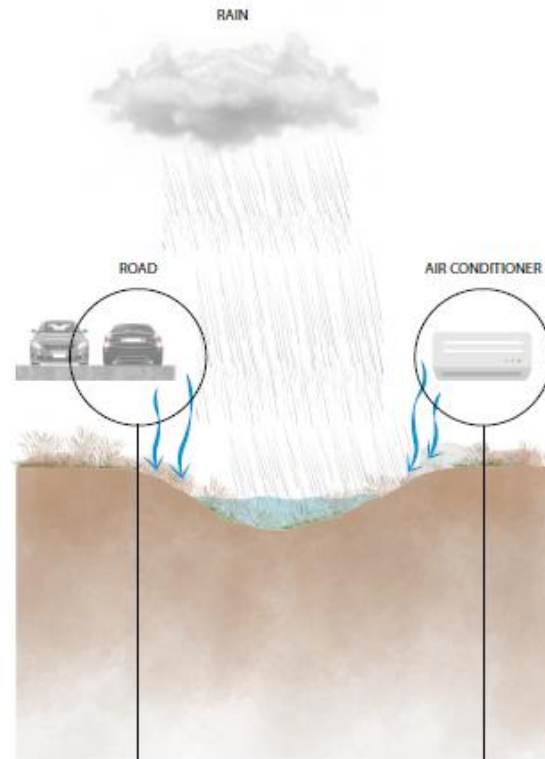
CHECK DAM



ROCK DAM

Water control and check dams to be added in a 'Natural' way in order to harvest the water and add to the aquifer.

WATER CONSERVATION STRATEGY



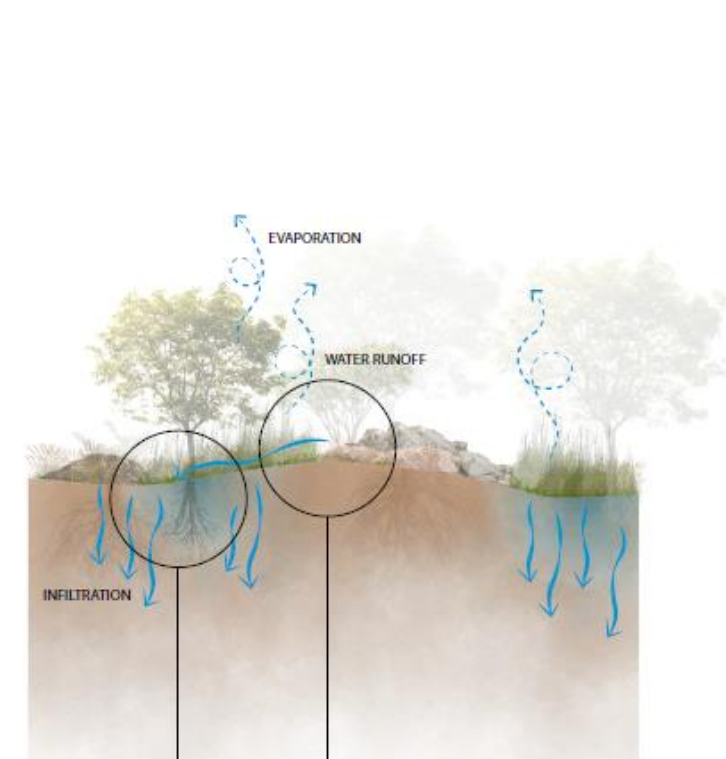
WATER RUN OFF



WATER RUN OFF

A holistic water collection and conservation strategy to be used to ensure that infiltration is maximized and extremes are mitigated.

MICROTOPOGRAPHY



BIRDS IN WETLANDS

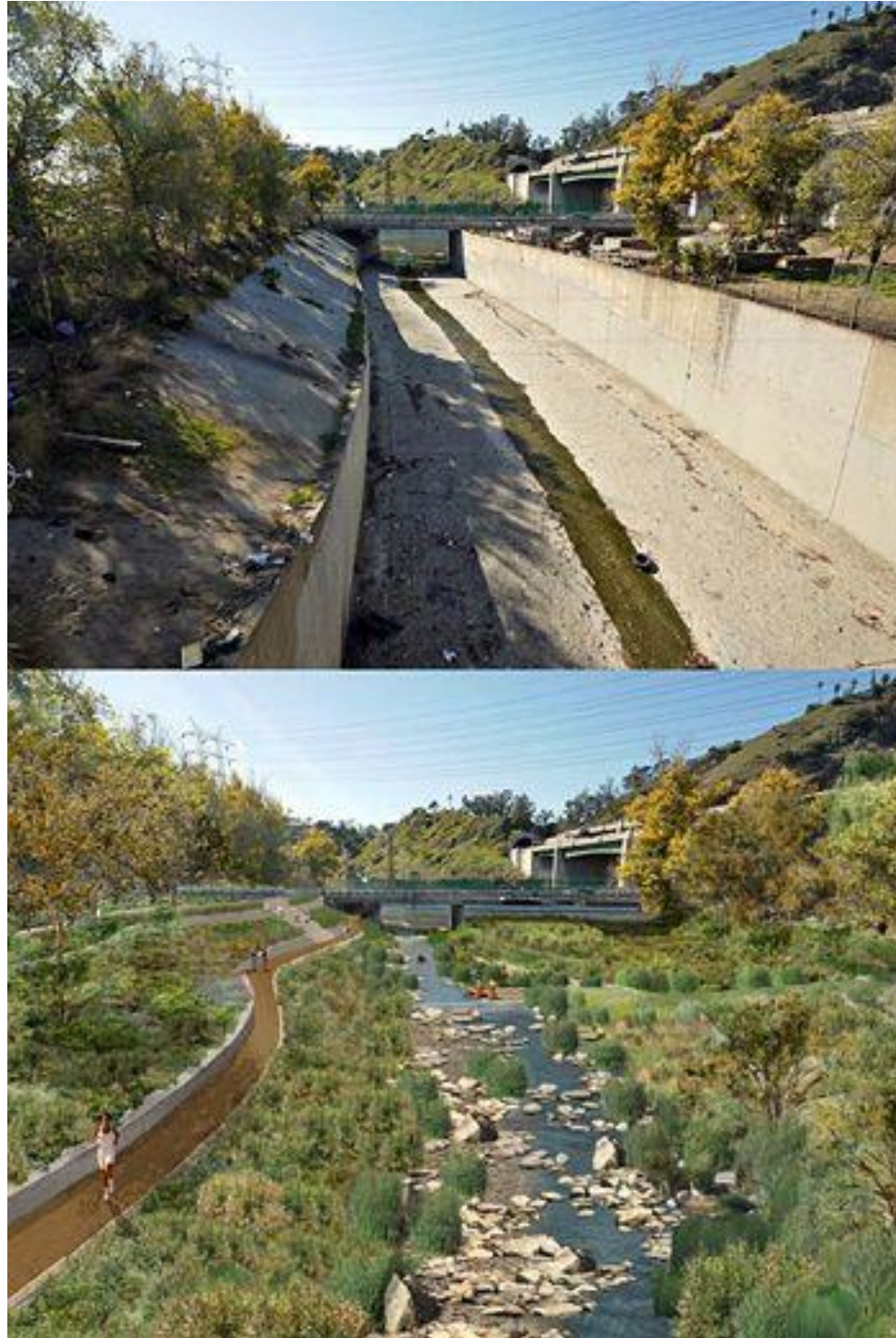


ANSAB WETLANDS

Microtopography to be used as a means of creating undulations and ensure infiltration of water in the soil.



smart solutions in the landscape
isolated approach vs holistic approach

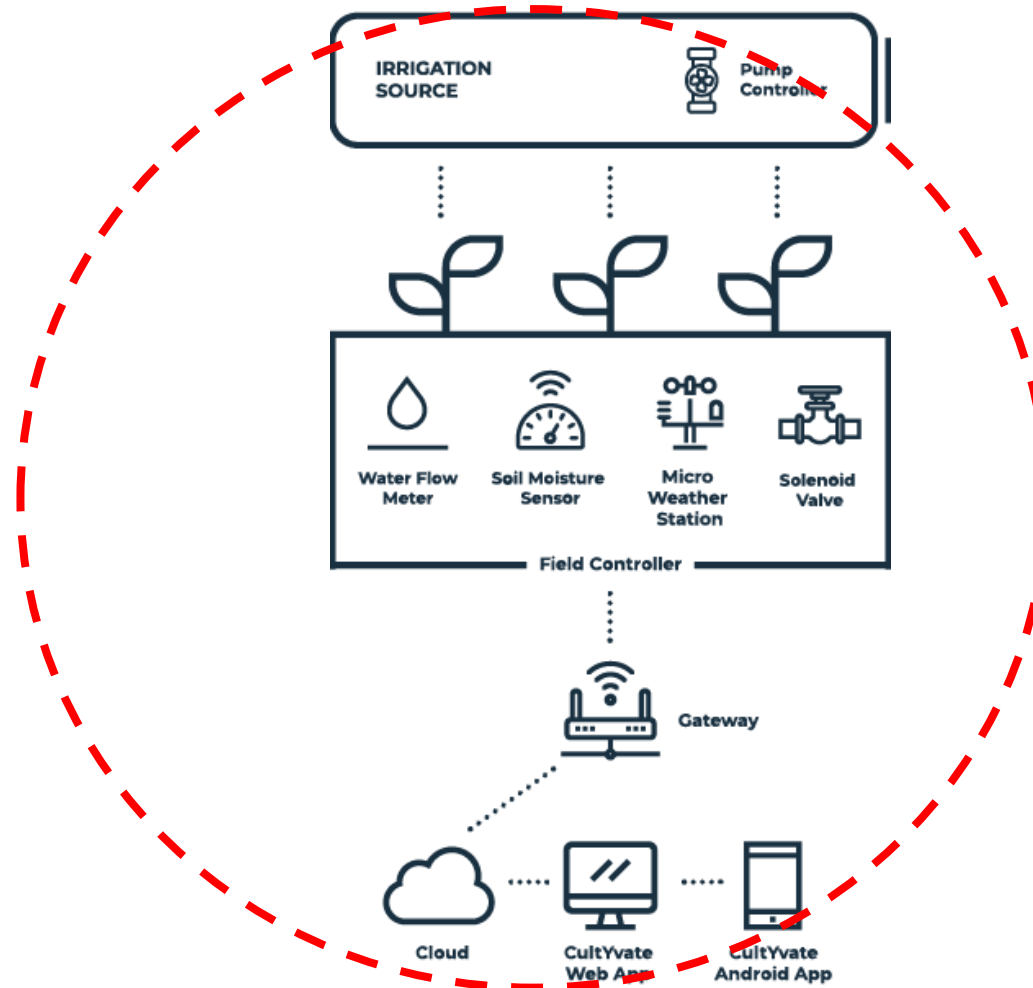
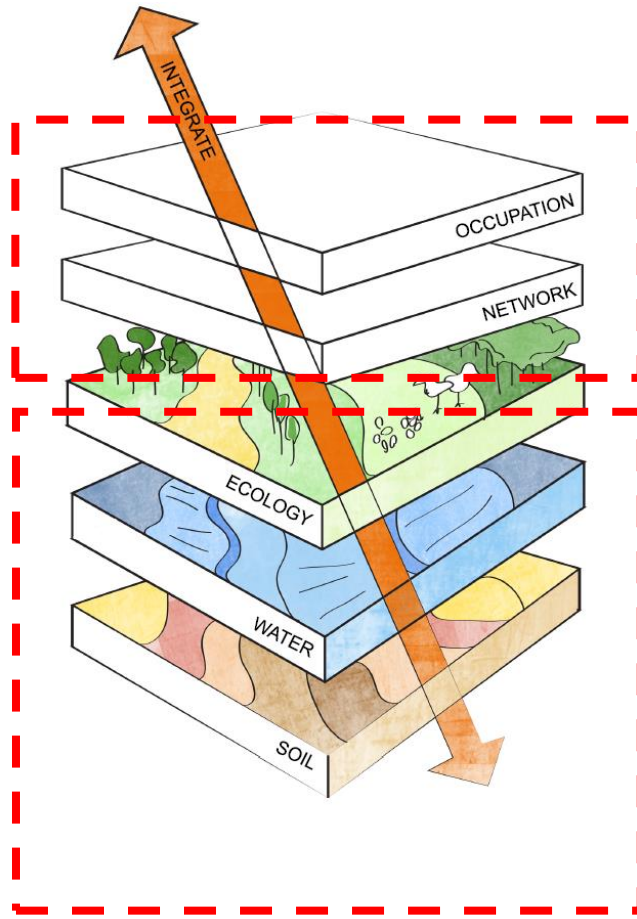


Frank Gehry Los Angeles River Masterplan



Jane Irwin Landscape Architects

smart solutions in the landscape isolated approach vs holistic approach



What is the ONSSS?

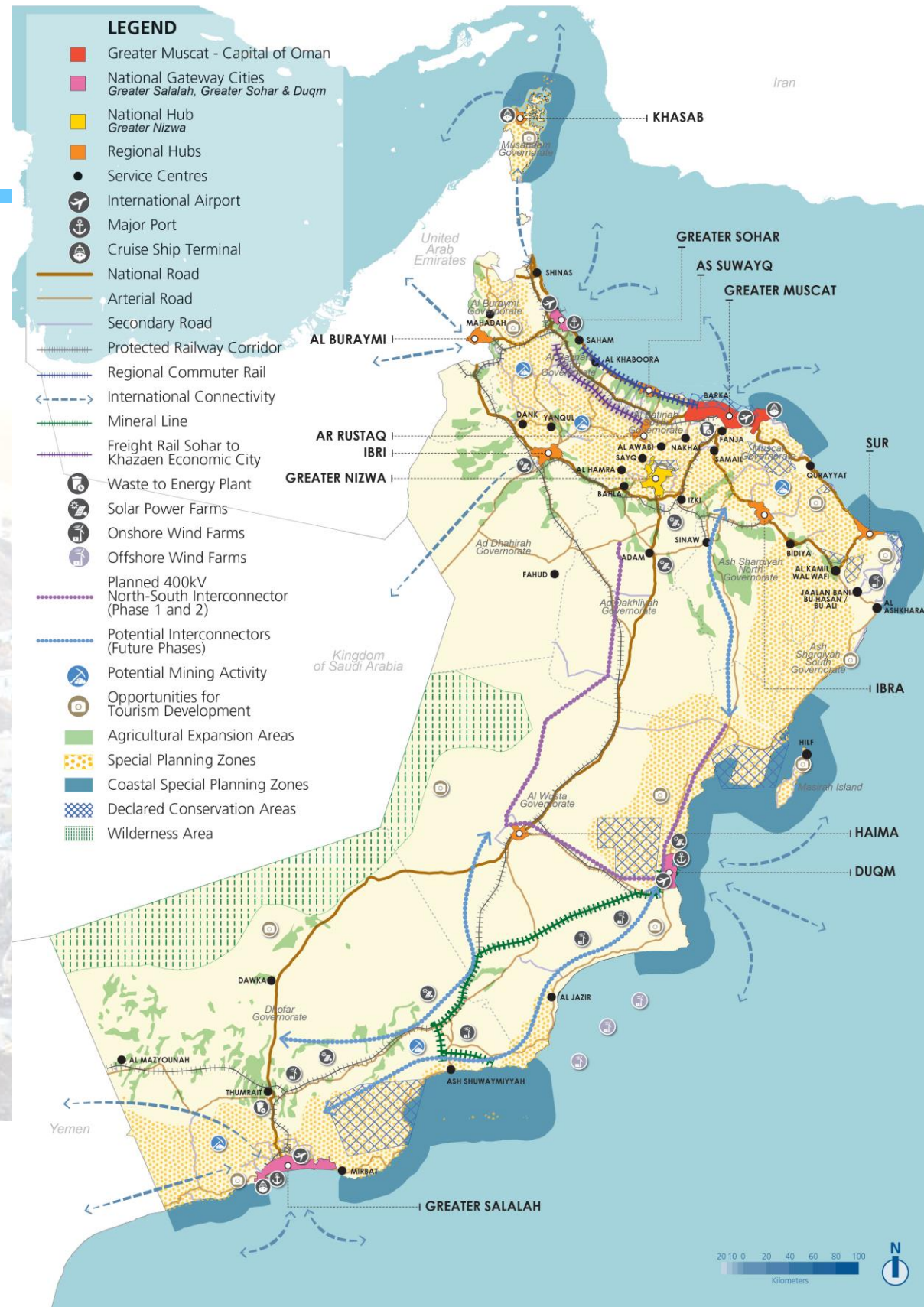
الاستراتيجية العمرانية SPATIAL STRATEGY



Urban Transformation & The National Spatial Strategy

Why?

- ◆ Vision 2040
- ◆ Spatial Strategic Development
- ◆ Harmony & Integration
- ◆ Infrastructure
- ◆ Climate Change & Environment
- ◆ Transportation
- ◆ Sustainability
- ◆ Natural Resources
- ◆ Growth & Prosperity



How?

Planning

- ◆ Defined Core Themes & Goals
- ◆ Policy Framework
- ◆ Strategic Targets
- ◆ Guiding Principles
- ◆ Monitor & Execute

Implementing

- ◆ Adaptive Planning
- ◆ Investment Plans
- ◆ Phasing Key Projects
- ◆ Future Data Support: OPIS & ONTM
- ◆ Planning Standard
- ◆ Monitoring & Evaluation

Challenges

- ◆ Mitigate and respond to climate change; preparedness to counter natural disasters.
- ◆ Urgent need to enhance and protect areas of high environmental quality, including world class landscapes and coastline.
- ◆ Poor Urban Development
- ◆ Lack of a Planning Act and specialist planning agency to guide
- ◆ Over-reliance on hydrocarbons; the continued need to promote economic diversification; the need for more involvement from the private sector;
- ◆ Reliance on private transport

Awareness

◆ Global Partnerships, Exchanging Knowledge, Private & Government



◆ Site visits, Benchmarks, Latest Trends



◆ Capacity Building, Urban Planning, Leadership, GIS



◆ Raising Local Awareness, public participation

