

## QUELS PAYSAGES INDUSTRIELS POUR DEMAIN?

## Mettre la nature au coeur des sites industriels

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COLLOQUE à distance CNFPT – HORTIS – VILLE de GRAVELINES
LA NATURE, LEVIER DE RÉSILIENCE DES SITES ET PAYSAGES INDUSTRIELS
15 ET 16 OCTOBRE 2020









# COLLOQUE. LA NATURE, LEVIER DE RESILIENCE DES SITES ET PAYSAGES INDUSTRIELS

Quels paysages industriels pour demain?



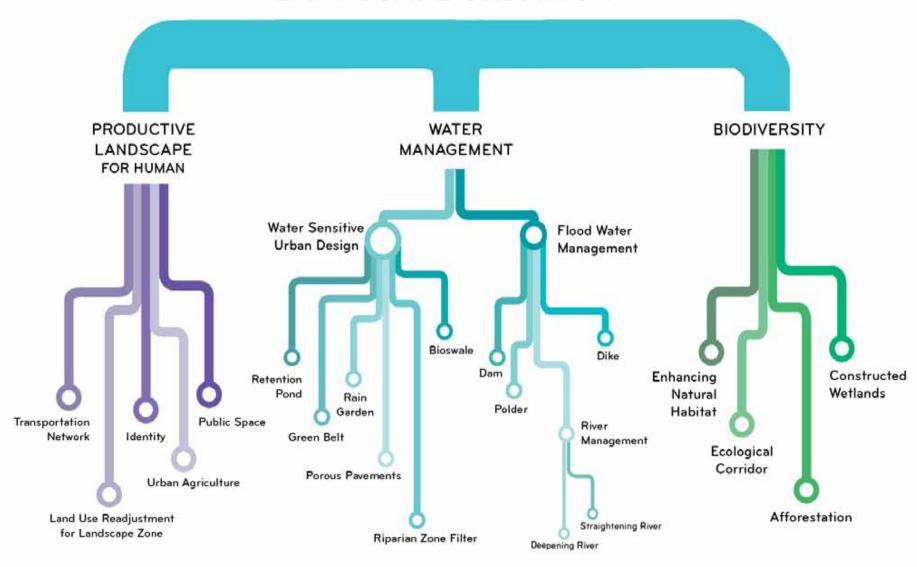
Dr. Anna Grichting Solder, Architect-Urbanist-Musician, BORDERMEETINGS





COLLOQUE à distance CNFPT – HORTIS – VILLE de GRAVELINES LA NATURE, LEVIER DE RÉSILIENCE DES SITES ET PAYSAGES INDUSTRIELS 15 ET 16 OCTOBRE 2020 LANDSCAPE URBANISM MULTIFUNCTIONAL LANDSCAPES REGENERATIVE SYSTEMS SYSTEMS THINKING **BIO(CULTURAL) DIVERSITY SOIL BIOMES** RESCALING INFRASTRUCTURE URBAN/RURAL COCREATING RESILIENT LANDSCAPE

### LANDSCAPE URBANISM



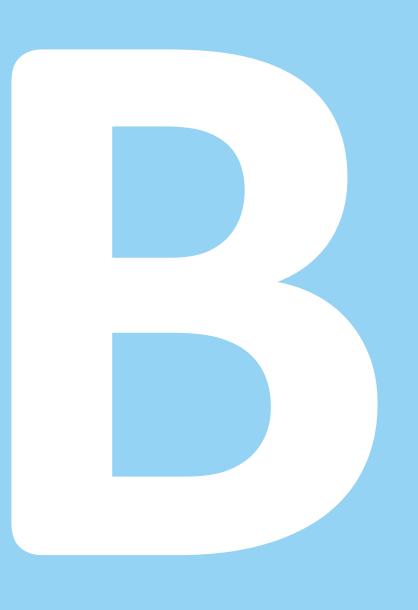
Our future as humans, and the future of our planet and our landscapes, will not be determined by our economic growth and territorial expansion, but by how well and how fast we can regenerate our ecosystems



# THERE IS NO PLANET B.



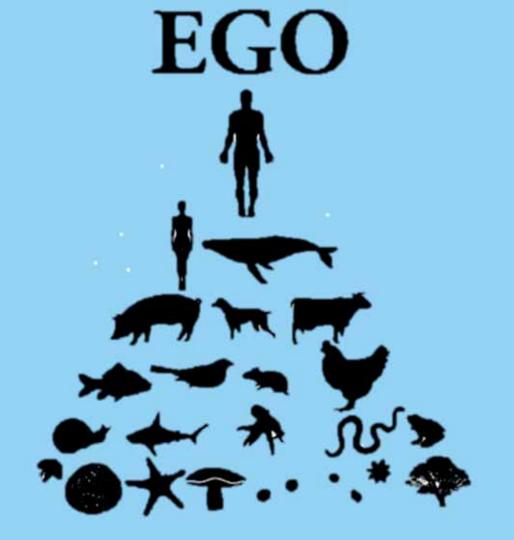
**BEYOND BALANCED SYMBIOSIS BIOFILIA BIODIVERSITY BIOME BEUYS BORDERS** THE 5 B's **BERLIN BUFFER BIOREMEDIATION BLOCKADE** BLUE



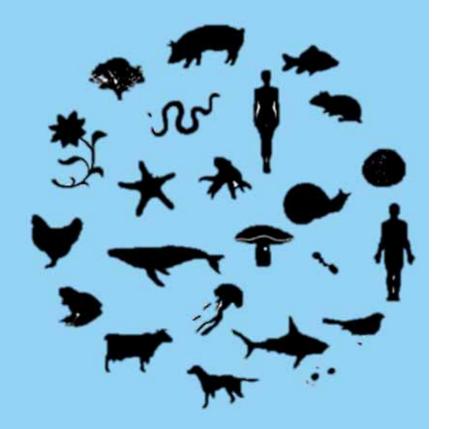
## BEYOND

The Anthropocene signals humans' fleeting legacy in the annals of geologic history. This too shall pass, but what will come next?

Beyond. To do more than (something): to do more than is expected or required We need to go beyond merely talking about the problem.

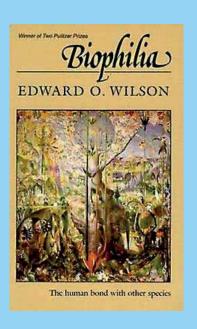


# **ECO**



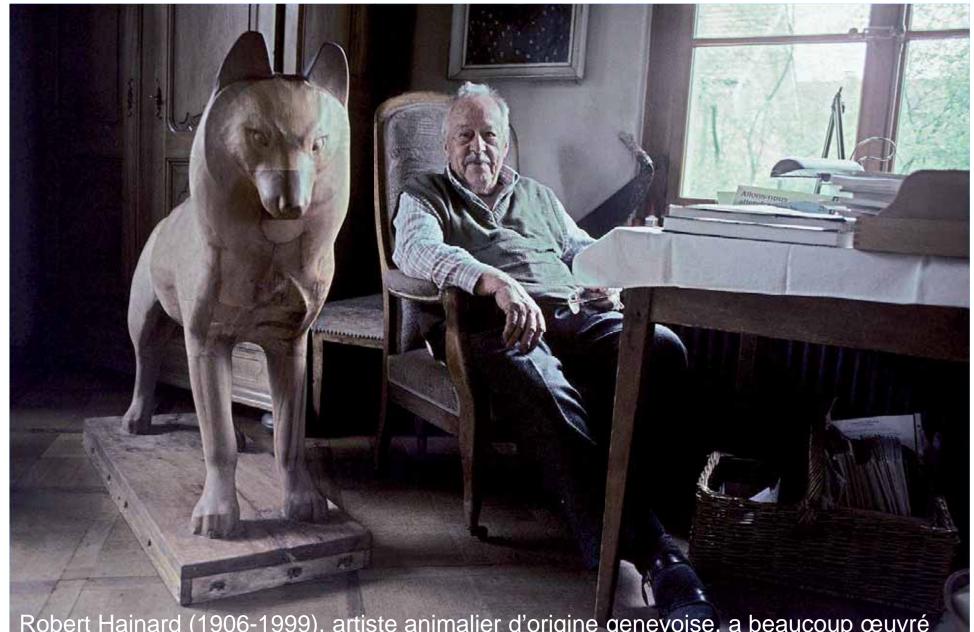
## BALANCED SYMBIOSIS

From Anthropocen to Symbiocene. Projects should integrate plant, animal and human communities in a respectful and balanced symbiosis that is agile and resilient to future threats and changes.

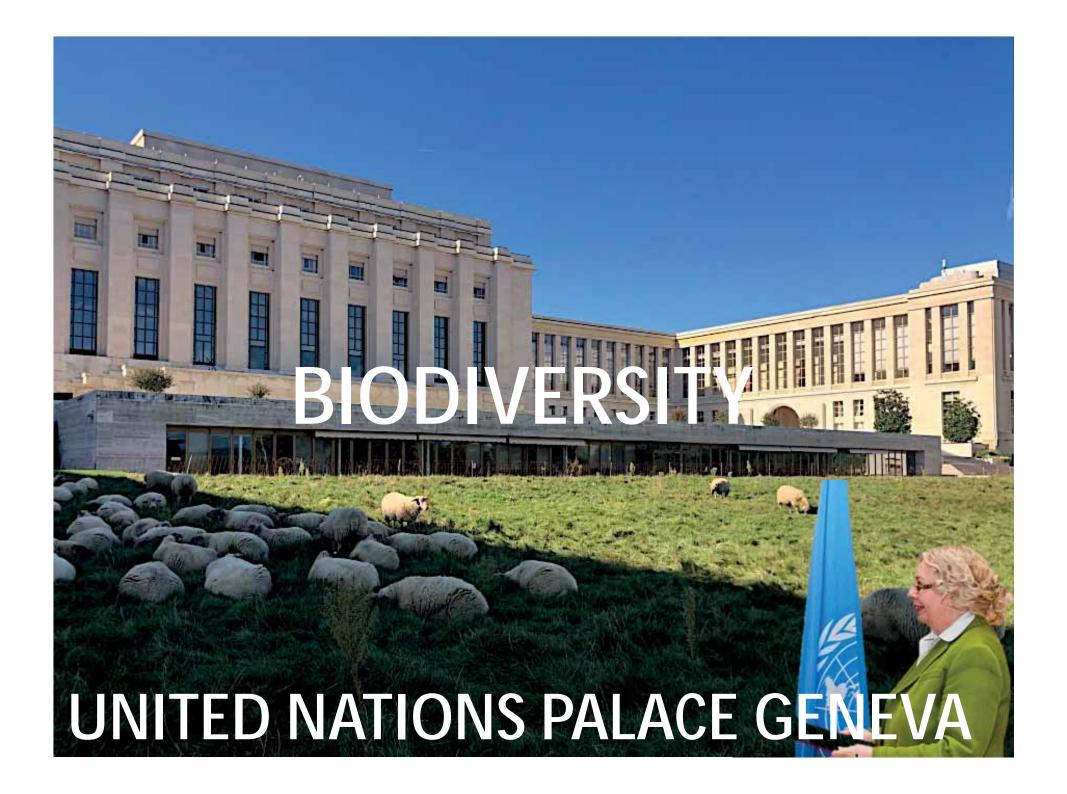


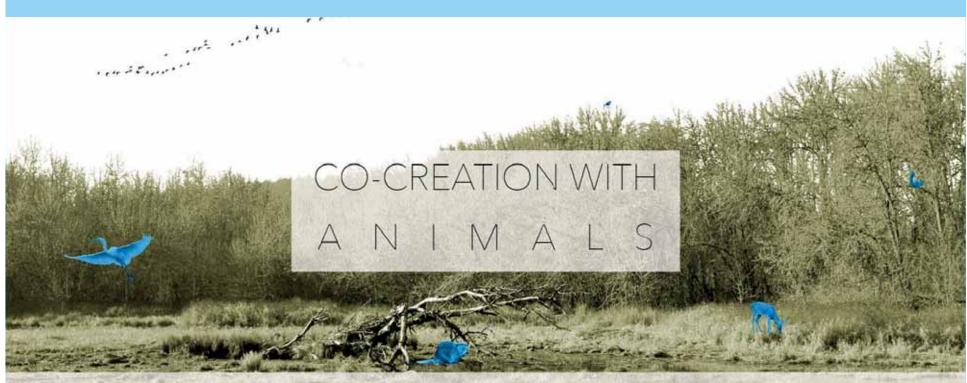
## **BIOFILIA**

The biophilia hypothesis suggests that humans possess an innate tendency to seek connections with nature and other forms of life. Edward O. Wilson introduced and popularized the hypothesis in his book, Biophilia. He defines biophilia as "the urge to affiliate with other forms of life"



Robert Hainard (1906-1999), artiste animalier d'origine genevoise, a beaucoup œuvré pour la défense de la nature. Il participa notamment, en 1928, à la création de l'Association pour la création et l'entretien des réserves naturelles dans le canton de Genève, devenue Pro Natura Genève (<a href="http://www.pronatura-ge.ch/">http://www.pronatura-ge.ch/</a>).





### RESEARCH QUESTIONS:

Is it possible to co-create with all animals? Are there ways to co-create with animals to improve ecological function on a site? And, how do we get animals to show up and participate?

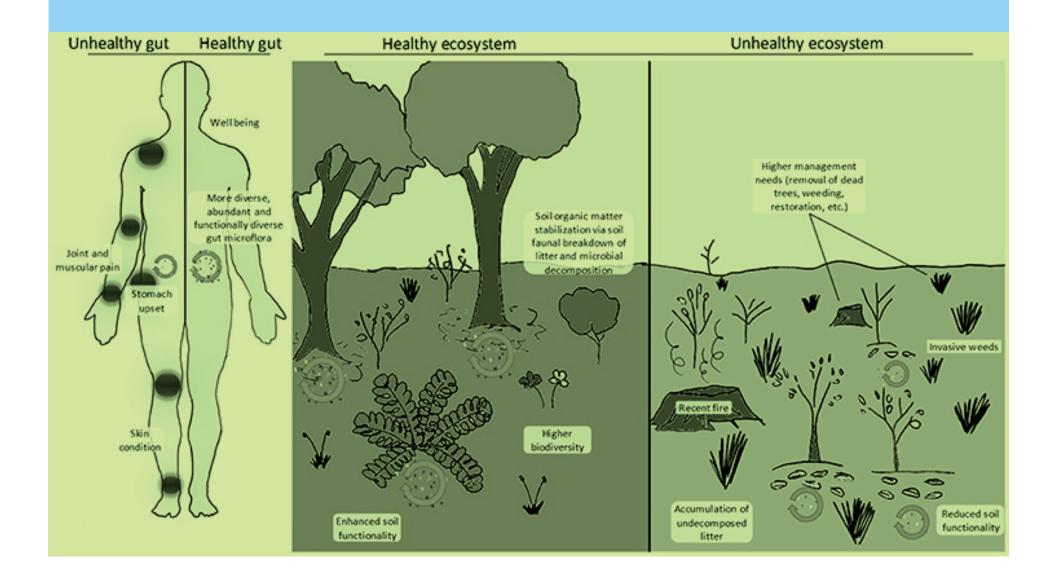
### METHODOLOGY:

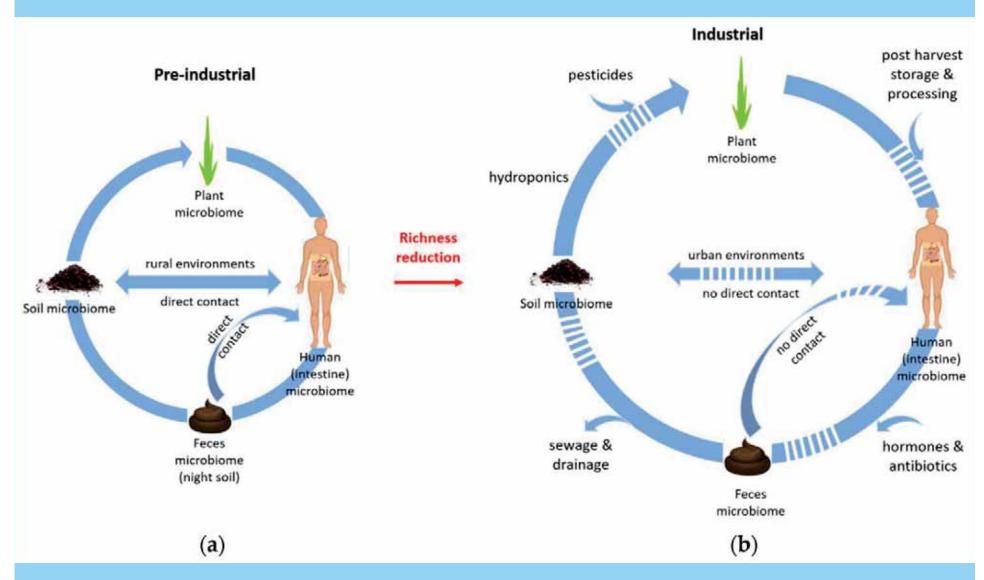
Using precedent analysis to inform a site-specific prototype study in the Pacific Northwest, this research proposes a typo ogy of animal functions suited for co-creation and a research-through-design framework that designers can adapt for local ecological restoration.

#### MODE OF INQUIRY:

The framework provides a guide for sitespecific prototype interventions that are iterated and refined to meet project goals.

## BIOMES



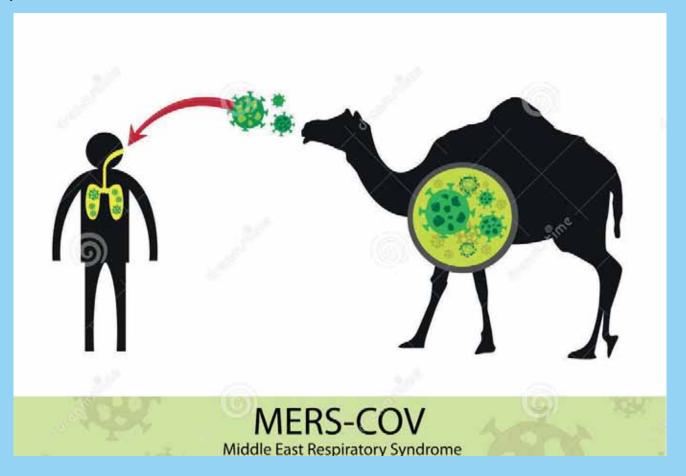


### Does Soil Contribute to the Human Gut Microbiome?

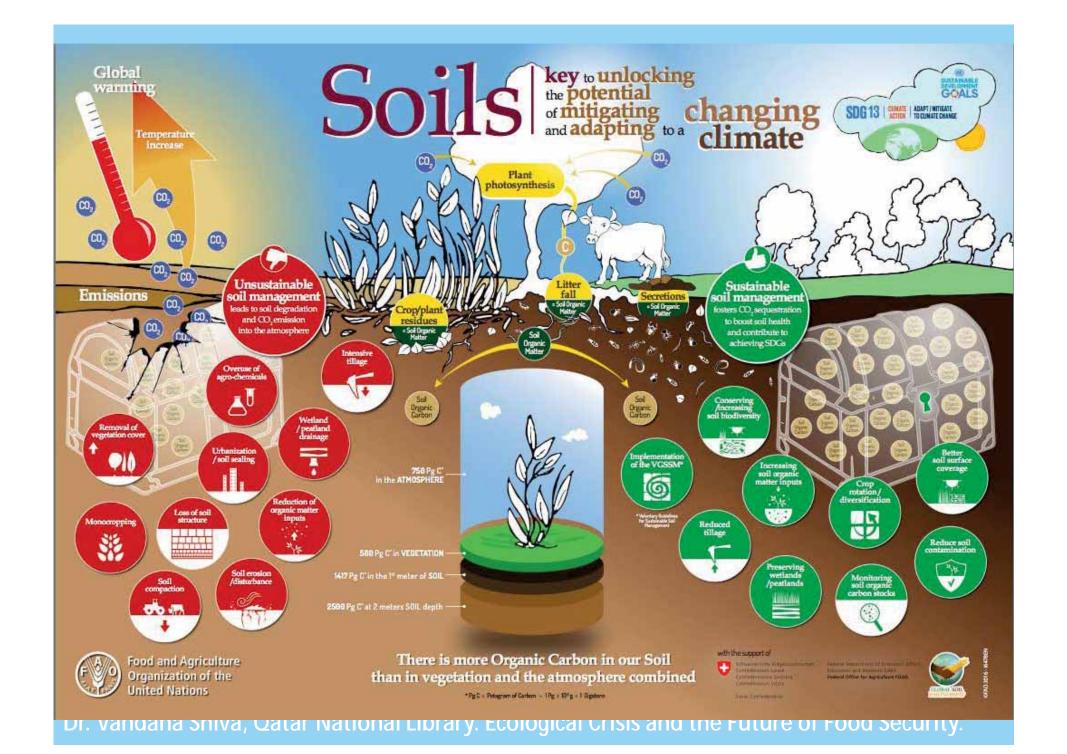
https://www.mdpi.com/2076-2607/7/9/287/htm. Institute of Soil Research, Department of Forest and Soil Sciences, University of Natural Resources and Life Sciences Vienna (BOKU

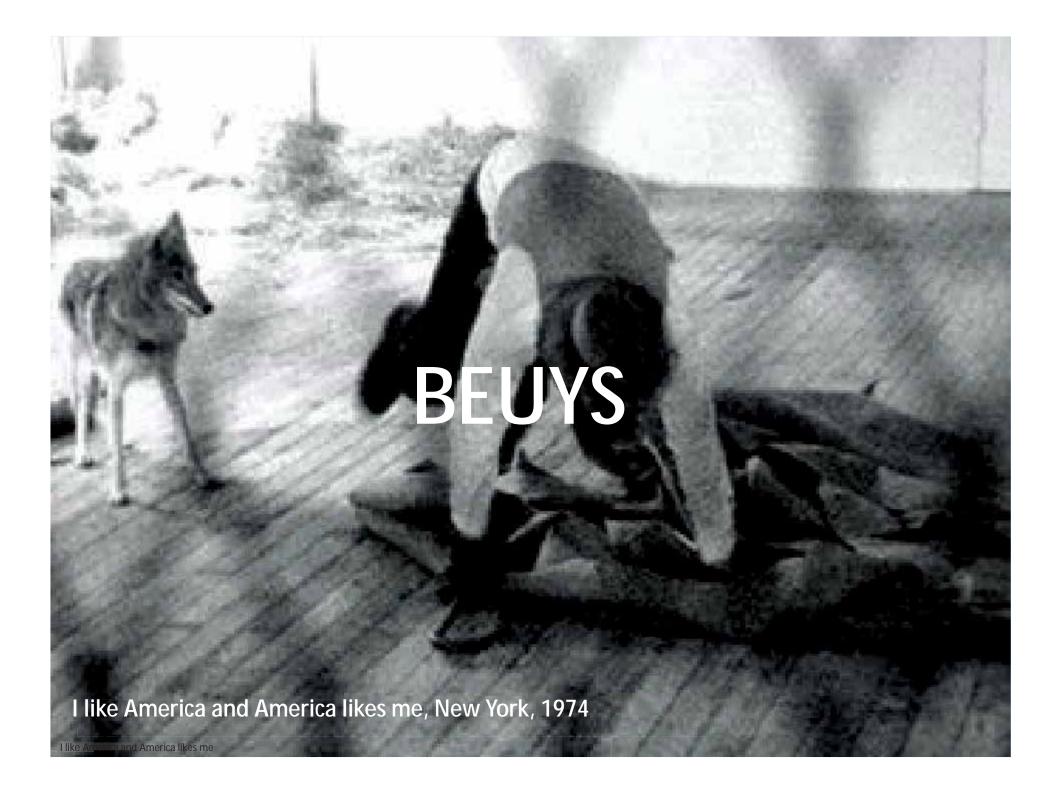
## Nature, Biodiversity and Disease

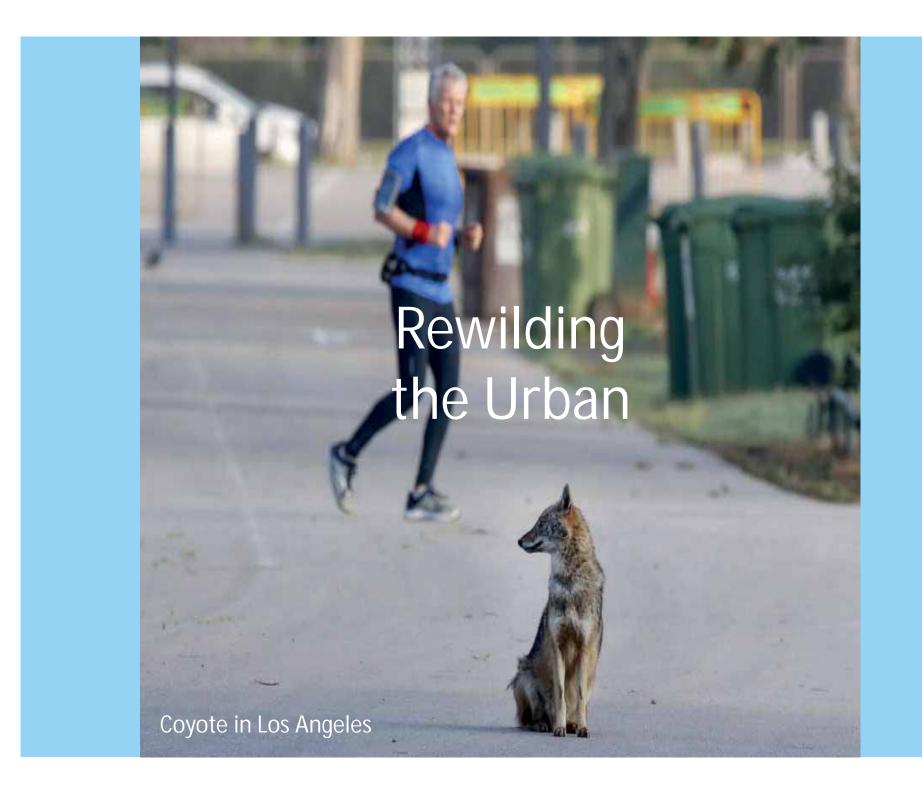
The changing climate causes more stress to wild animals who are already confronted with shrinking habitats, thus making it easier for diseases to jump from animals to humans. A recent article in the Guardian seems to suggest that human destruction of biodiversity has brought us to a tipping point, and therefore it is time to face nature's wrath.



https://www.theguardian.com/environment/2020/mar/18/tip-of-the-iceberg-is-our-destruction-of-nature-responsible-for-covid-19-aoe



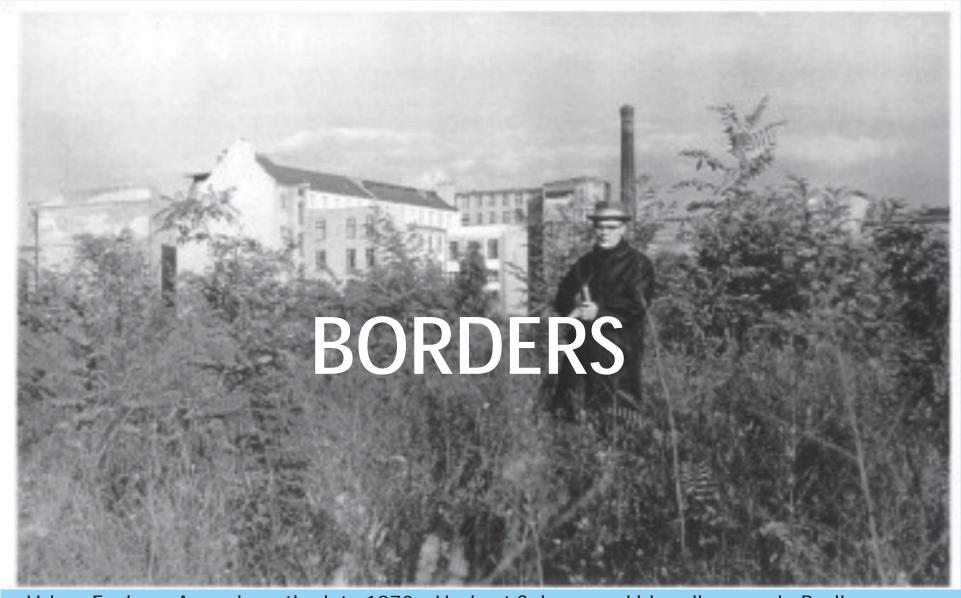




# Joseph Beuys. Founder of the Green Political Party in Germany

The Artist-Activist Joseph Beuys. Action in Dusseldorf. "Save the Woods". 1972. Photo Courtesy of Ronald Feldman Fine Arts, New York.

berwindet



Urban Ecology. As early as the late 1970s, Herbert Sukopp and his colleagues in Berlin were speculating that wastelands are the "field laboratories" for future cities, "where possibly new and well-adapted ecotypes of our native or naturalized wild plants will originate in the changed environmental conditions" (Sukopp et al. 1979: 130).

## **EUROPE ON LOCKDOWN**

### **NETHERLANDS**

Authorities begin border checks

## UK

Calais

Paris

**FRANCE** 

### **KEY**

Migrant routes Border checks

### **GERMANY**

Passport checks re-introduced on Sunday

### **CZECH REP**

Increased patrols on border with Austria

### CZECH REP

SLOVAKIA

AUSTRIA

HUNGARY

### **ITALY**

**GERMANY** 

**AUSTRIA** 2,200 soldiers deployed to the border as checkpoints brought back

### **SERBIA**

### **SLOVAKIA**

Police restore border checks

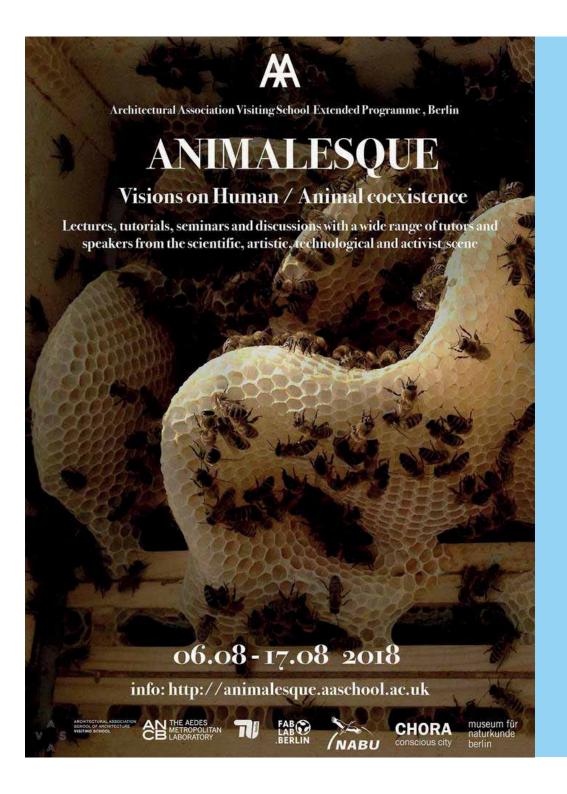
### **HUNGARY**

Closed gap in its new razor-wire barrier yesterday



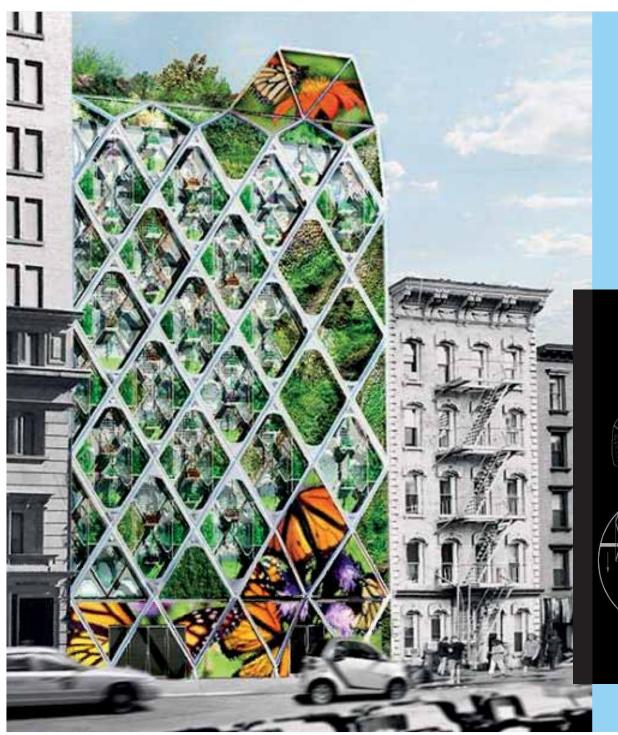


A one-year-old puma prowls the streets of Santiago Chile. (Getty Images) https://twitter.com/manishkumar457/status/1241988724839395328/photo/1

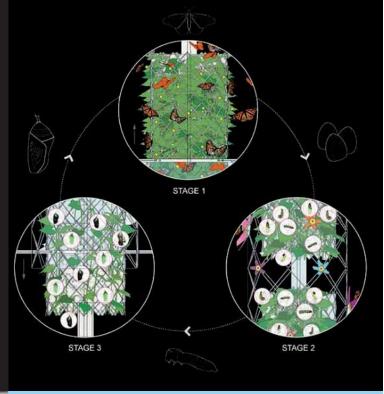


## THE 5 Bs

Birds
Bees
Butterflies
Bats
Bugs

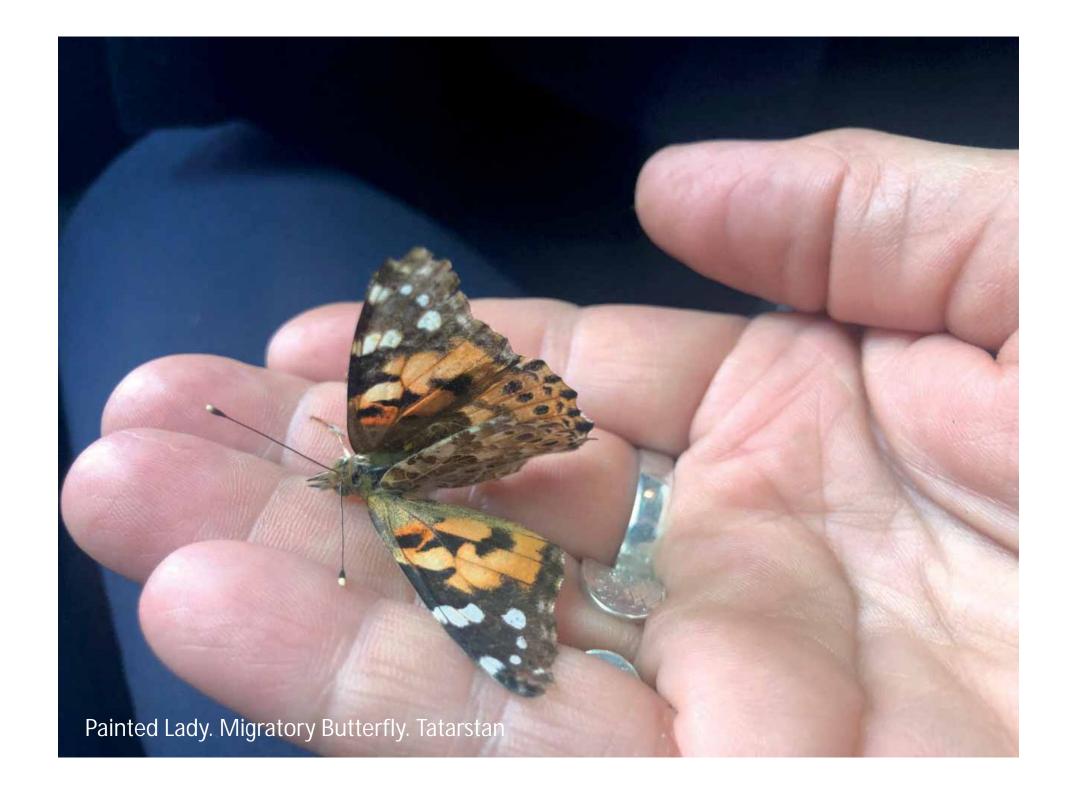


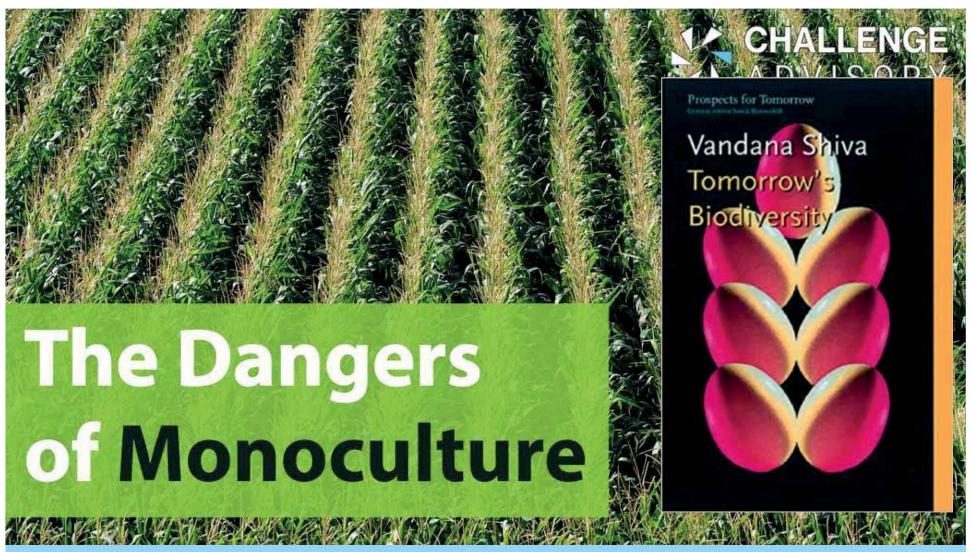
Monarch Sanctuary: Integrated Biodiversity in Double Skin Facade



http://terreform.org/projects\_butt erfly.html

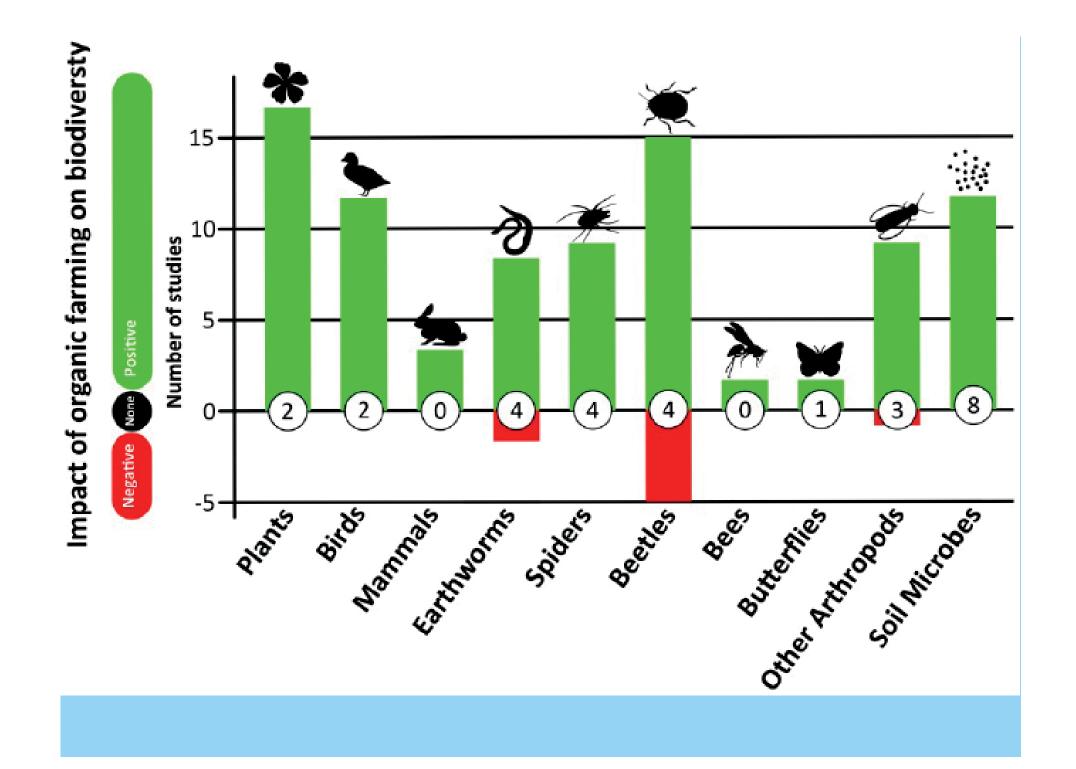


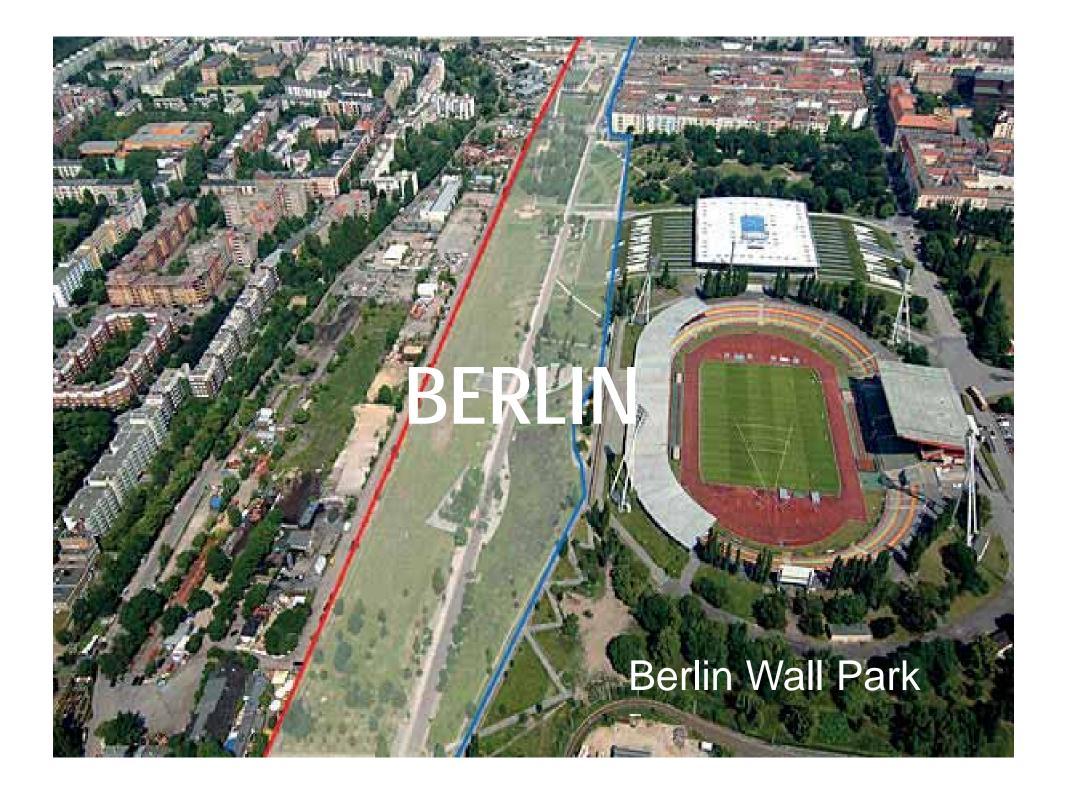




**Agriculture** is the world's **largest industry**. It employs more than one billion people and generates over \$1.3 trillion dollars worth of food annually. ...

Demand for **agricultural** commodities is rising rapidly as the world's population grows. **Agriculture** destroys **biodiversity** by converting natural habitats to intensely managed systems and by releasing pollutants, including greenhouses gases. Food value chains further amplify **impacts** including through energy use, transport and waste.

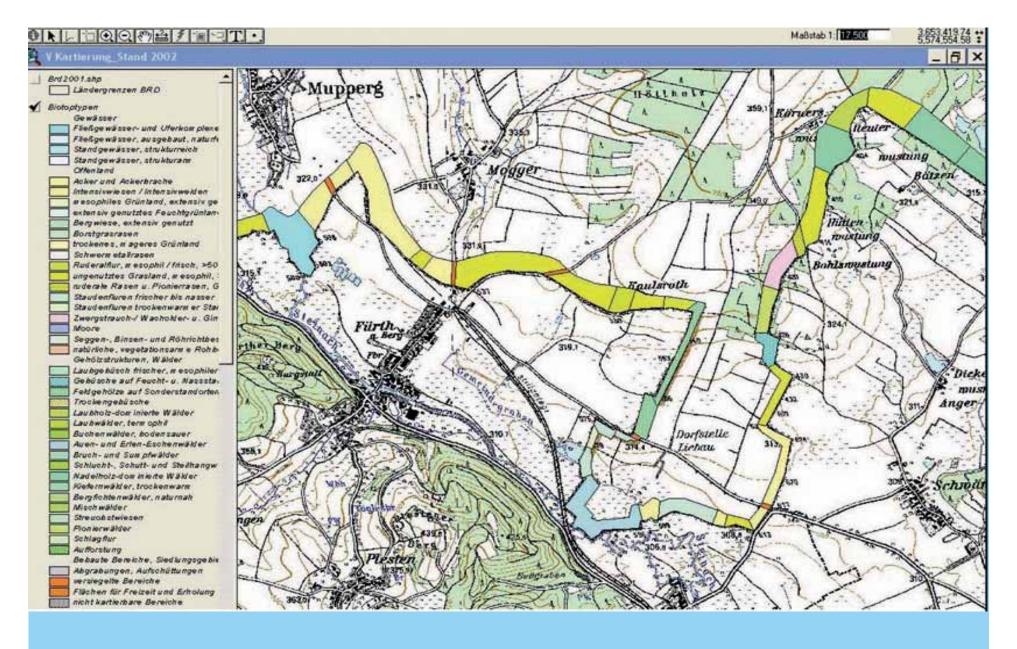




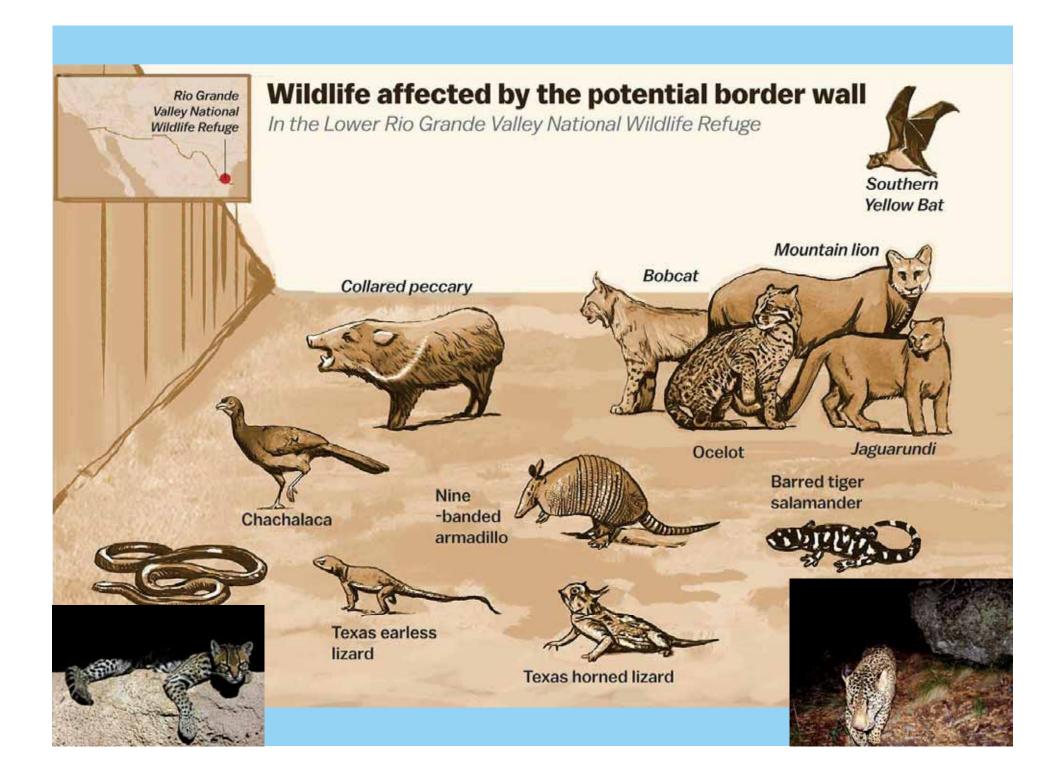




2 Elbe River and southern Altmark form a flat rural region full of fens, ditches and lowland forests, where crane and nightjar call. BUND volunteers show visitors from all over the world the traces of history and nature.

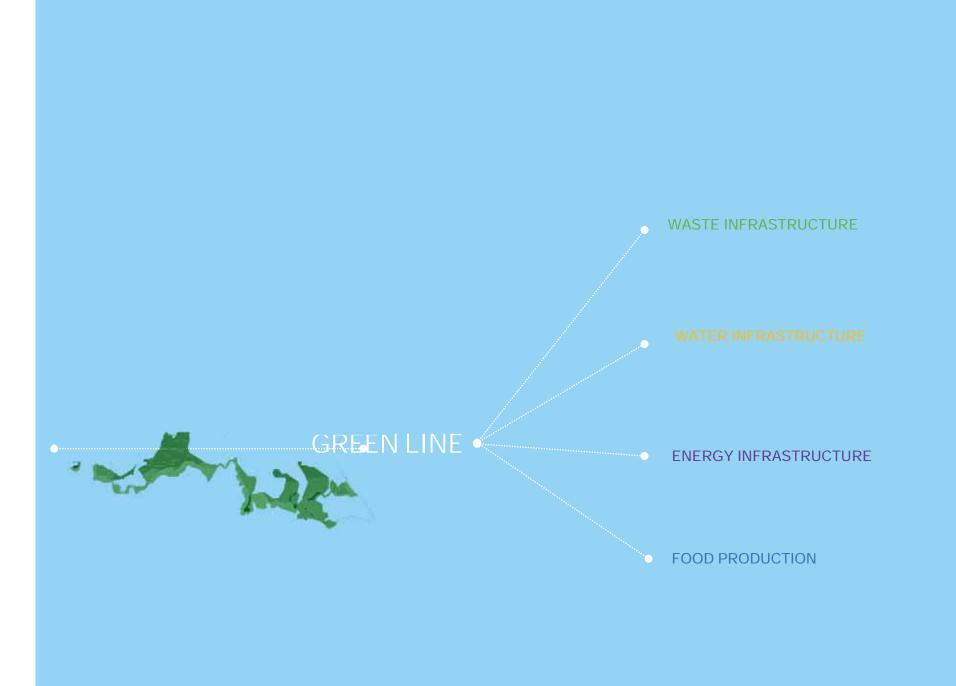


The German Green Belt - 1400 km of research. The longest biological inventory in the history of German nature conservation.



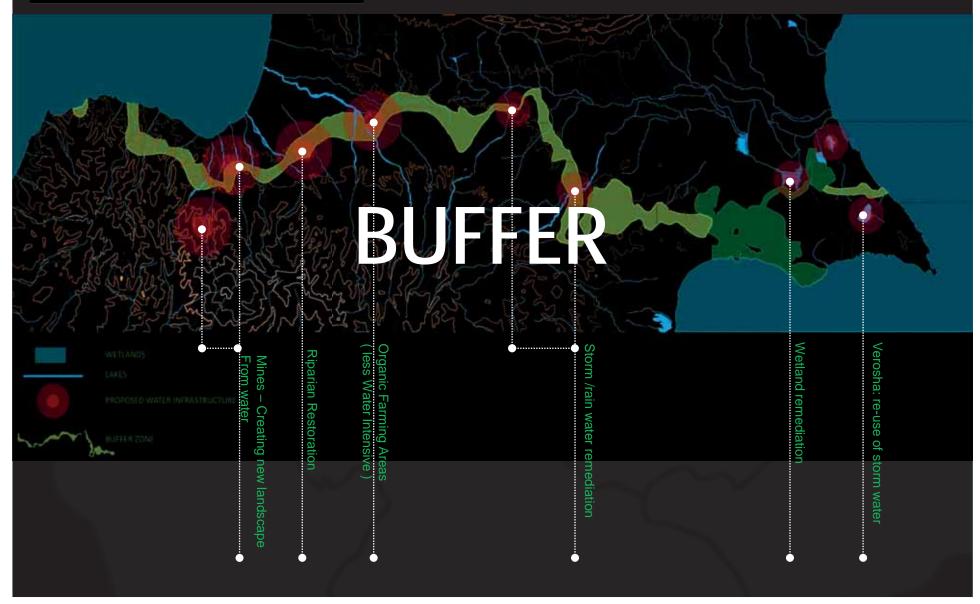
## Where the border wall cuts through South Texas

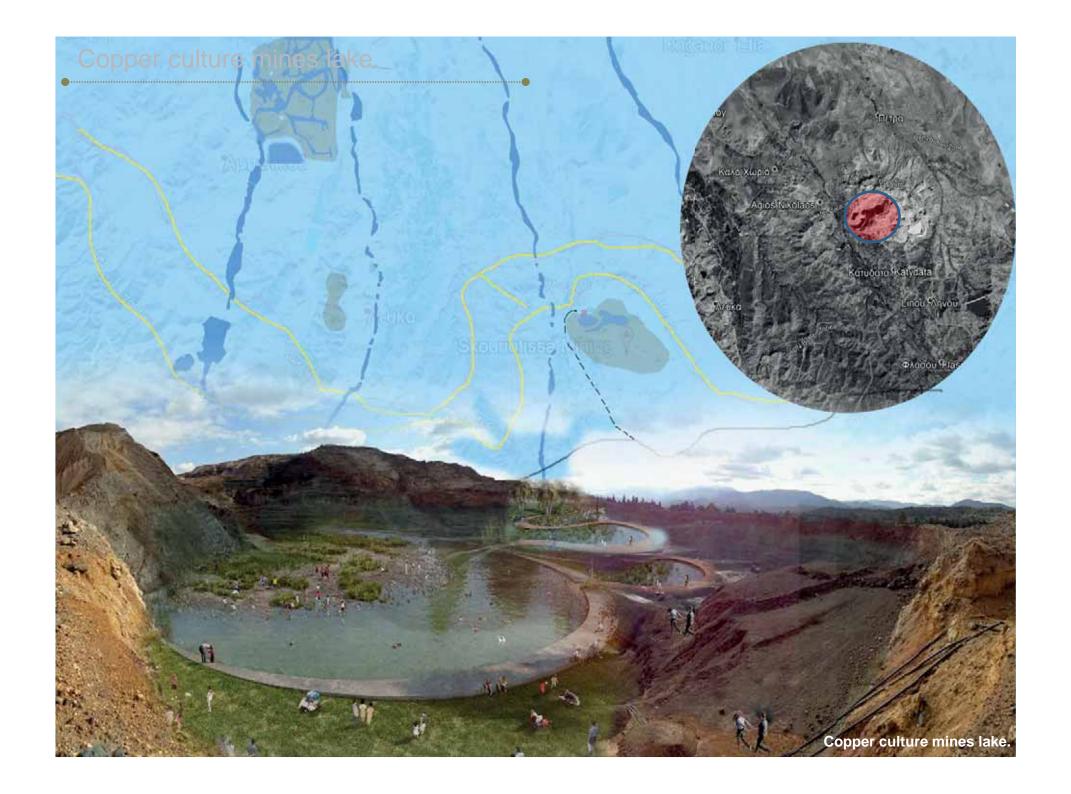


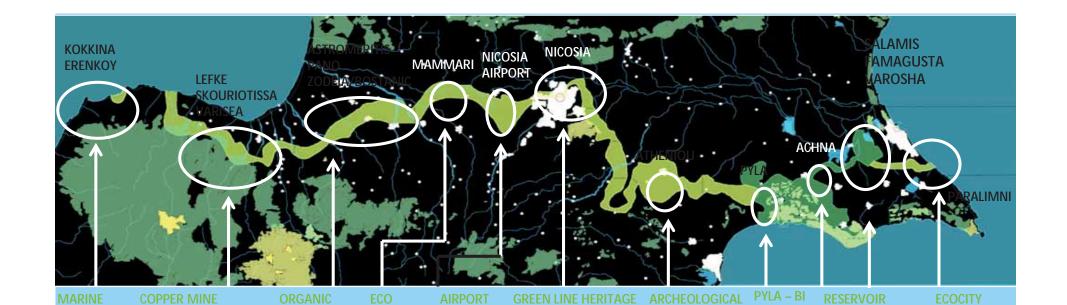




## WATER INFRASTRUCTURE







**MUSEUM OF MEMORY** 

& ECOPARK

NAL

TOURISM

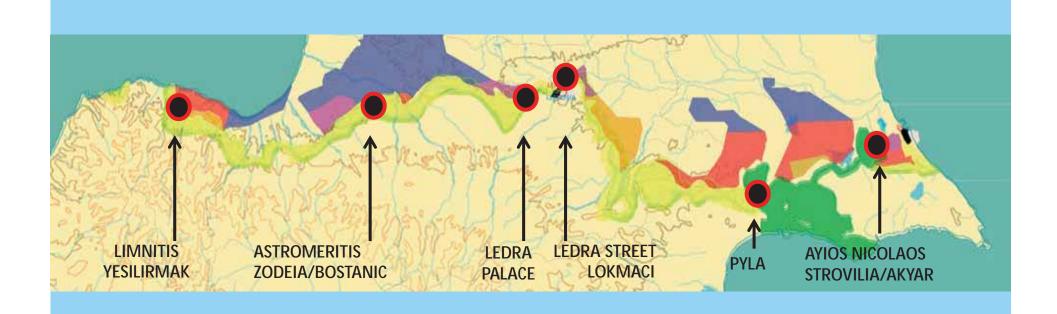
MUSEUM INTL SOLAR GARDEN OF

**ECO TOURISM RARE** 

**NATURE** 

**RESERVE** 

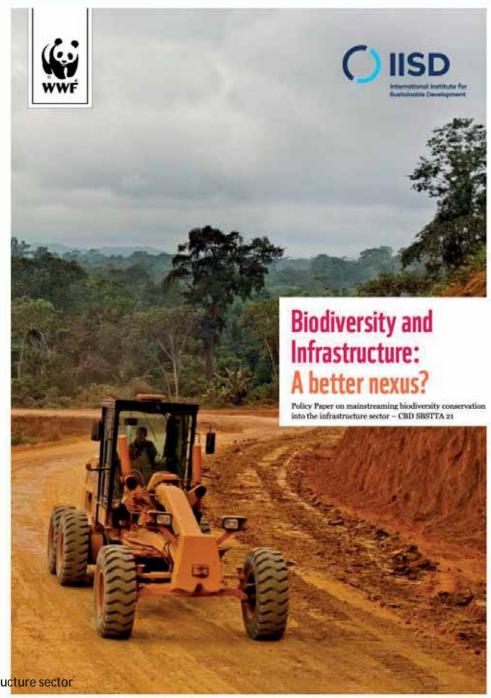
MONK SEAL VARISEA



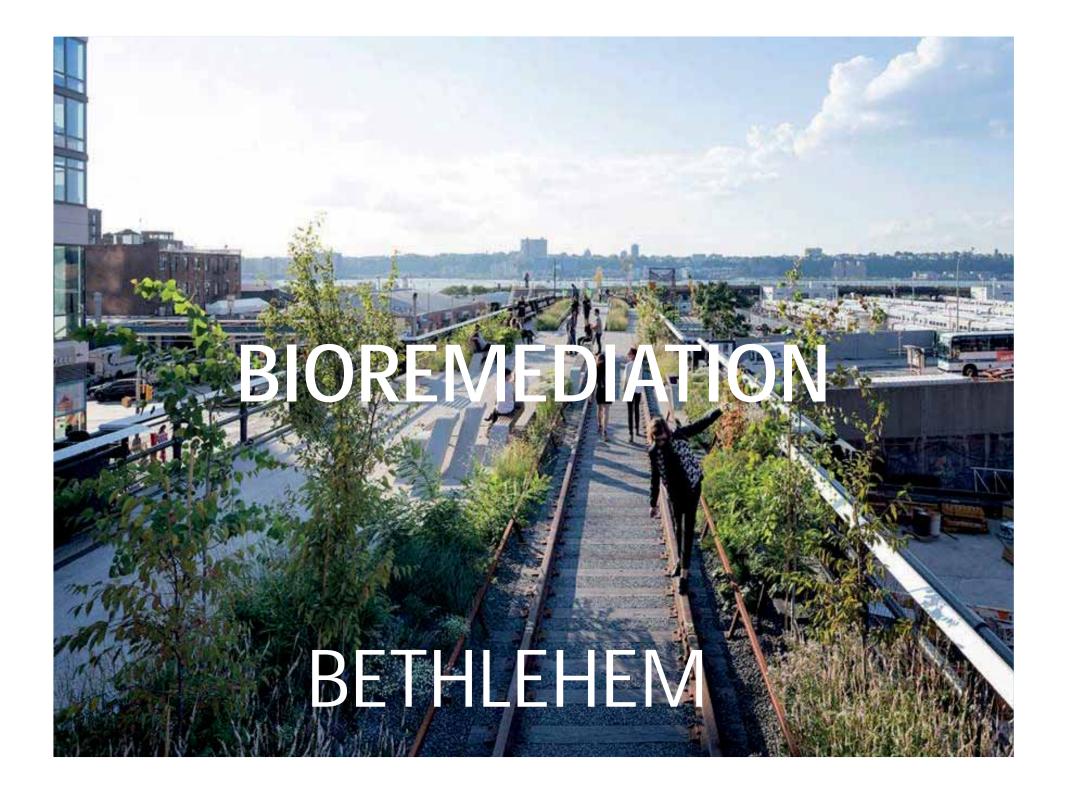


INDUSTRY AS INFRASTRUCTURE.
NATURE BASED INFRASTRUCTURE
THE OPPORTUNITY TO RECONCILE
INFRASTRUCTURE AND
CONSERVATION.

From green roofs and the bio-adaptive microalgae building facades to the restoration of mangroves and dunes to protect against freak storms, floods and sea level rise, green infrastructure is fast emerging as a specialization of its own.



WWF. Policy paper – Mainstreaming biodiversity conservation in the infrastructure sector













https://worldlandscapearchitect.com/thammasat-university-the-largest-urban-rooftop-farm-in-asia/#.X4Mfii2B2m8





## Ningbo Eastern New Town Ecological Corridor Turenscape

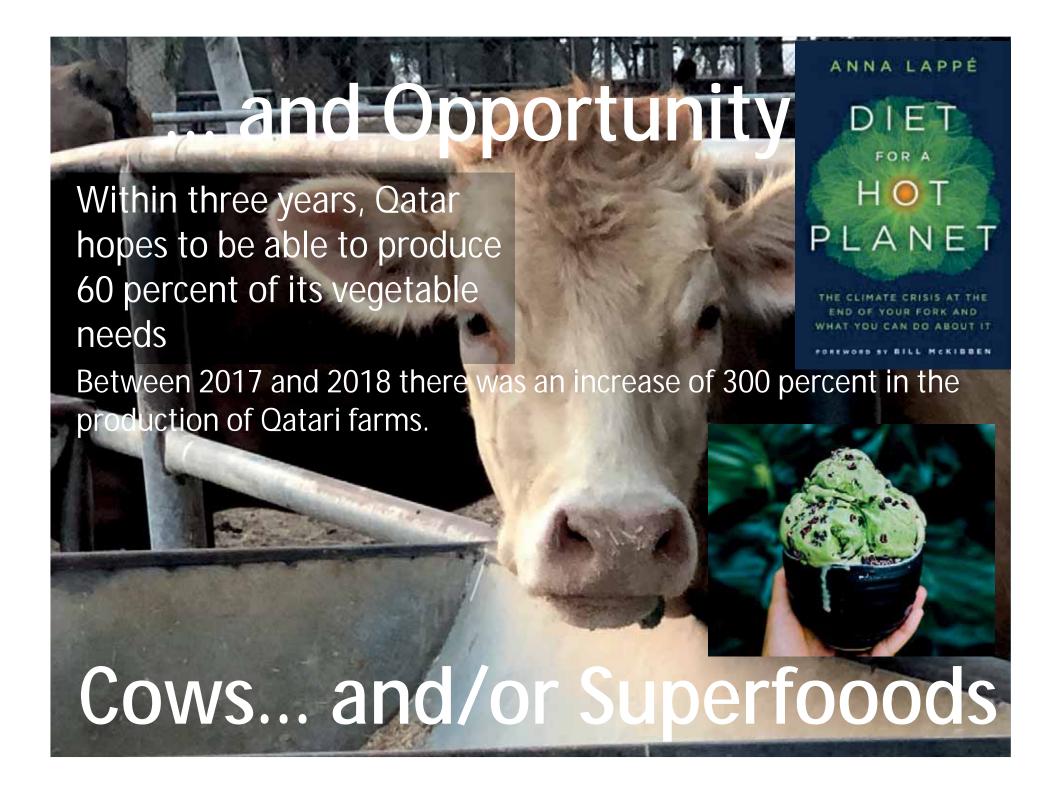
https://worldlandscapearchitect.com/ningbo-eastern-new-town-ecological-corridor-turenscape/#.X4MhfS2B2m8



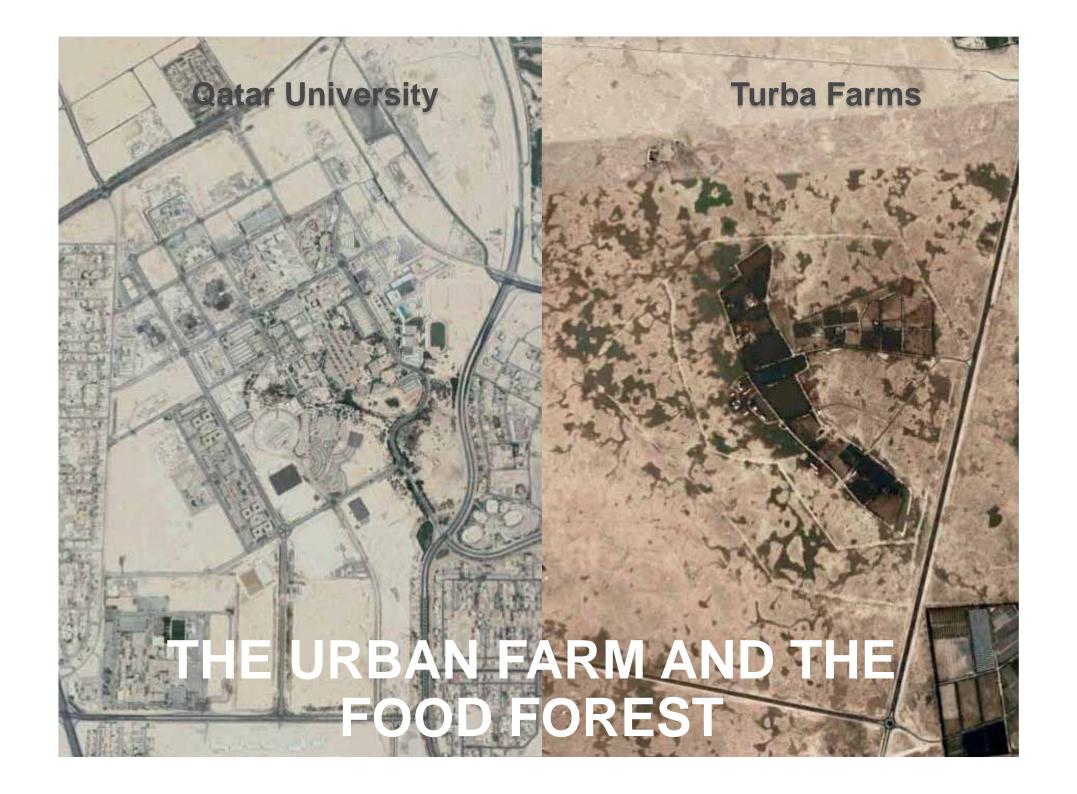
## Coronavirus: How the Saudi-led blockade prepared Qatar for the pandemic

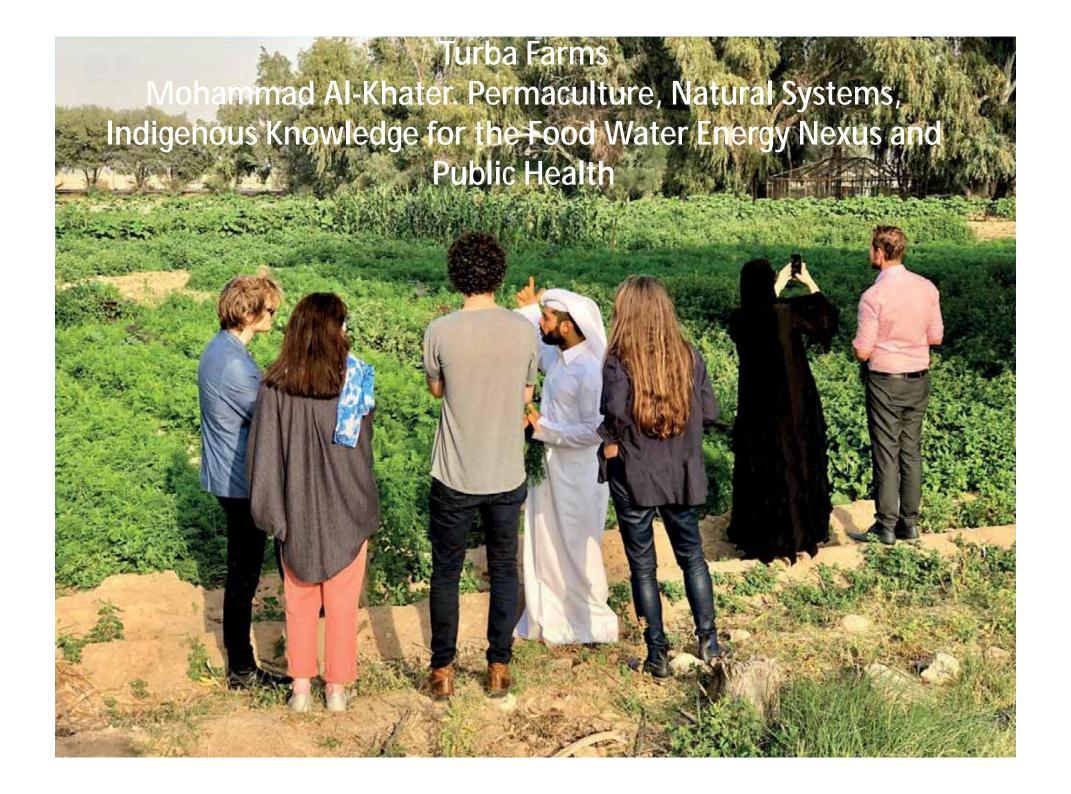
Qatar has proven to be resilient despite the Covid-19 crisis hitting the peninsula at a time when it remains subject to an air, land and sea blockade by its neighbours.

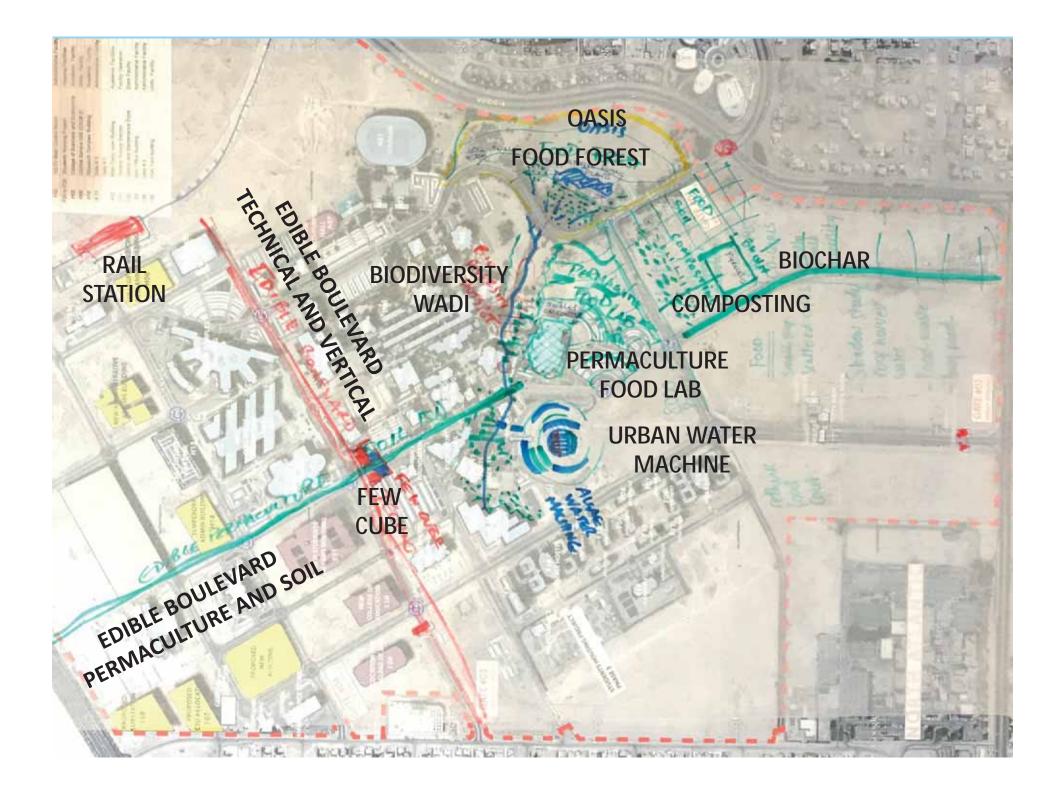








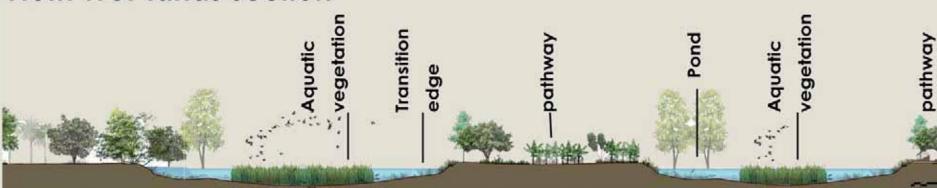




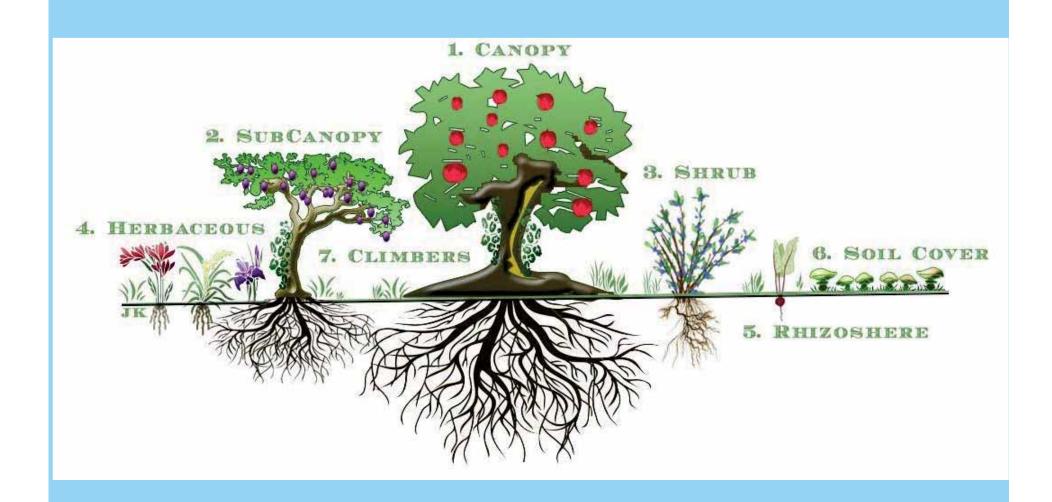
## **Biodiversity hotspot proposal**



## Noth Wet-lands section



**Future Campus Biodiversity hapitat** 









Student Projects. Site Design for Permaculture Edible Garden.



Paige Tantillo Permaculture Garden 2013



# Nature Driven Urbanism

Blue Design for Urban Resilience in Drylands: The Case of Qatar

## BLUE

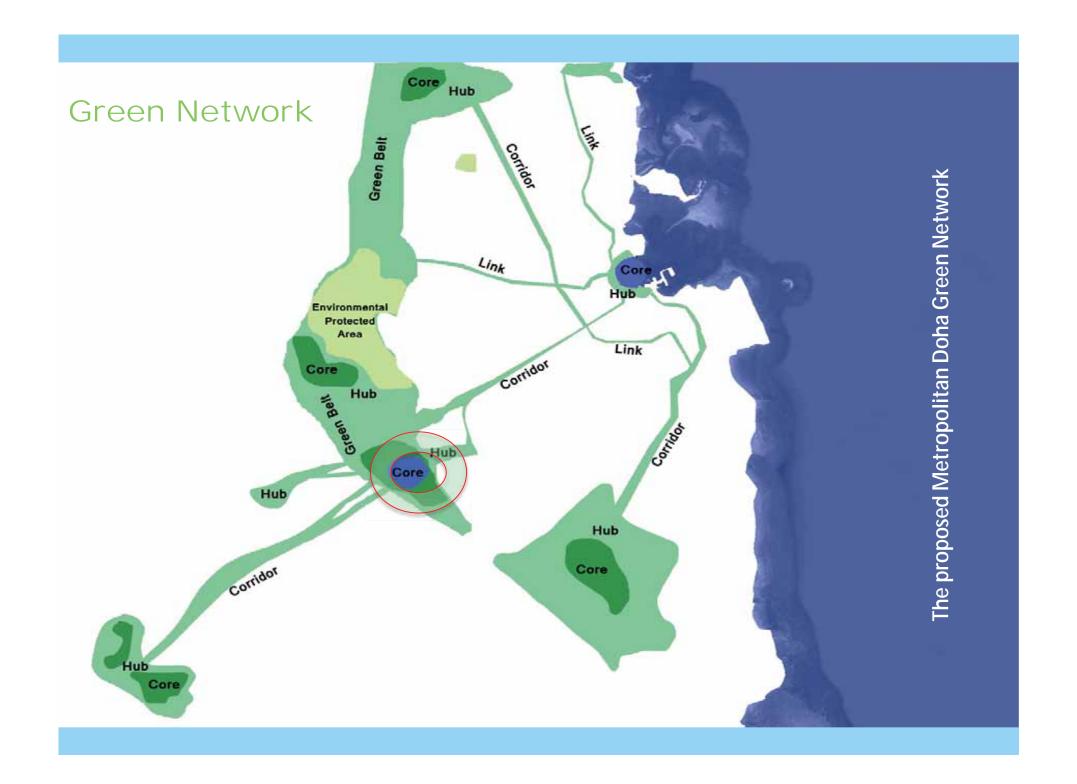


THE WORLD IS BLUE. Syliva Earle
BLUE DESIGN: Saatchi and Saatchi.
Beyond the Green, beyond the passif:
Giving back more
BLUE UPRANISM: Inreasing number.

BLUE URBANISM: Inreasing number of coastal cities, effects of urbanization on the ocean, the ocean as resource-industries, as indicator.

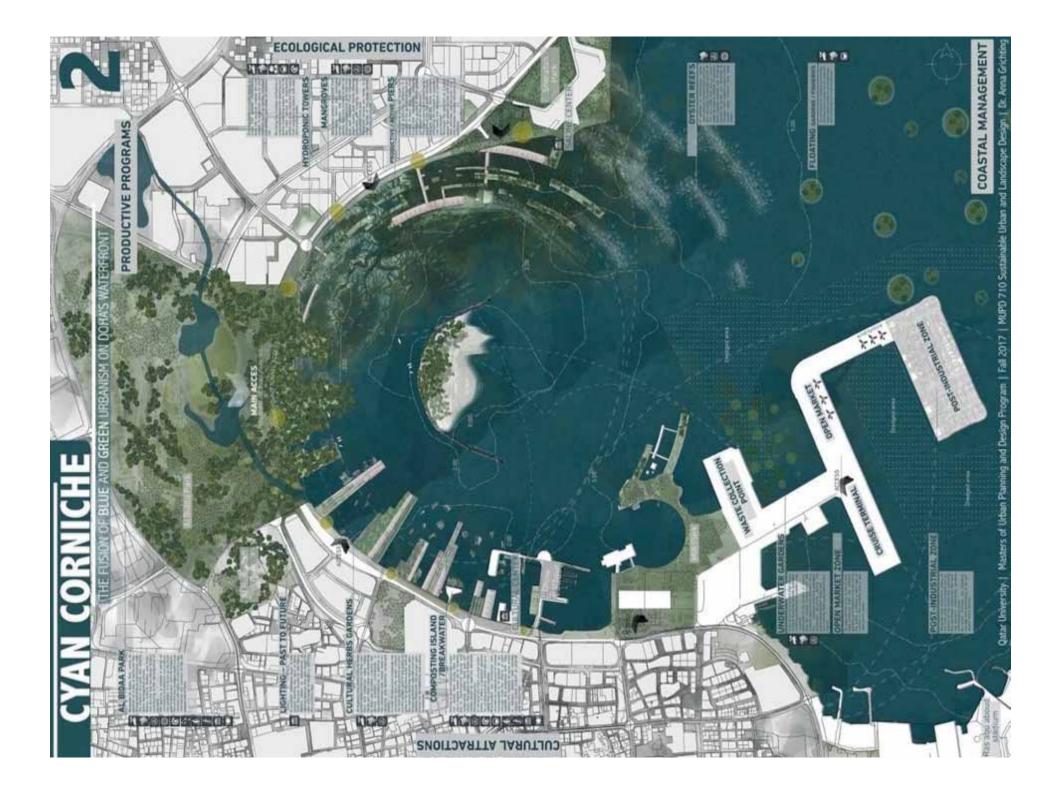
SEE LEVEL RISE Our cities of the future can be Blue and Biophilic. Timothy Beatly. Blue Urbanism











## **CYAN CORNICHE**



### THE FUSION OF BLUE AND GREEN URBANISM ON DOHA'S WATERFRONT

## SYSTEMS IN MASTER PLAN











The process of Salme Agriculture likes input of Salme water, and TSE discharge, to give output of finish the fiberalism retrigation, and public realm landscape emgatio. The process of Saline Agriculture attempts to produce, and utilize review sittle shortgy startes who the process of planting. This energy is used and produced by the astemponent of this problem.

The process of Saline Agriculture proposes the making of organic compact from only waste in the central listent as a symbolic control listation, and and off process, which will then problem compact and awardy from water.

The process of Satire Agriculture mainly produces food and be-products, triguits are taken from water energy, and weeks, impropriet to be used into farming and satisface.







Views and impolages that illustrate the character of the new design of the waterfront, integrating forestres agricultive, and public realm.





New of the Marine center proposed in the cultural program area.

#### **OUTCOMES OF SALINE AGRICULTURE**

#### Coastal Management

Disability a protected shoretime with natural and ecological methods. that help and entith the inodisersity of the place.

Dyster-reeds help filtering the water. grad protect the shoreline from the nising sea tever.

#### Food Security

Using sustainable winer supply and envinumberial protection, as per the ONFSR food security program can be activisted. through this proposal, looking from the outer circle of greenbelt to the inner circle of corniche all those urban spaces are best as productive tendecapes.

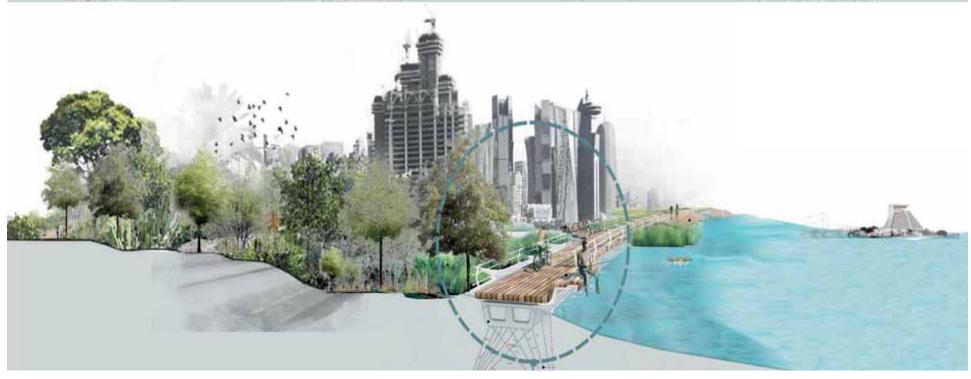
#### Biodiversity & ecology

Creating interactive eco-systems and evhancing the edistopical performance of the waterfront, in addition to functionally serving as profection against water surpl and coastal erosion mangraves also increase carbon capture.

#### Public realm

The Coinche becomes more livable and interactive with various programs. This amplifies the significance and quality of public realth by creating different high pushity attractions.

Industrial spaces are converted into clean. productive, and social spaces:



- Pandemic, revealing our unbalanced relationship with nature. Crisis of the Anthropocene, New model from Ego to Eco.
- The Role of Landscape. Landscape Urbanism Ecological Design Regenerative Design. Landscape as a restorative profession, not just the "Icing on the Cake".
- What is Industrial Landscape? Past, present, future? 4th Industrial revolution.
- Regenerating and Restoring Earth and landscapes. Every new intervention in our territories should be seen as an opportunity to restore nature and to reintegrate biodiversity into the built environment.
- Design with Nature. Design for Nature. Design for Biodiversity. We are nature, nature is our teacher. New approaches: designing for endangered species.
- Nature based infrastructure. Industrial sites and infrastructures. (WVI report)
- Projects should integrate plant, animal and human communities in a respectful and balanced symbiosis that is agile and resilient to future threats and changes.
- Bioremediation. Healing ecologies. Nature and natural systems as healing for landscapes and the earth.
- Blue Urbanism. The Sea, Blue Planet, the effect of what we do on land. The amount of industrial activities on the coastlines. Blue Ports.
- Urban and Rural. Industrial agriculture and genetically modified crops. Threat to biodiversity animals and diversity of seeds and grains.
- From Industrial Agriculture to Agro-ecology. (article).
- Recommendations. Participative processes. Crowdsourcing, Citizen science, involving all ages and communities, workers and citizens, NGOS, culture and art.