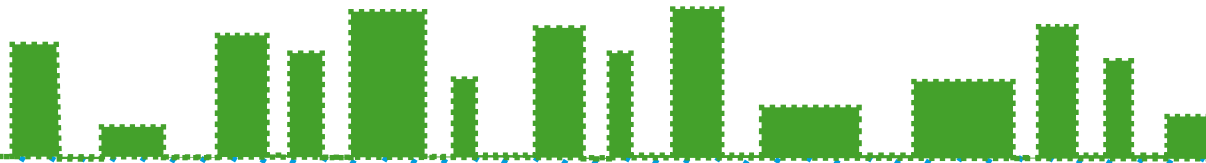


Ecological infrastructure and water-sensitive parks: green, productive, inclusive, sustainable



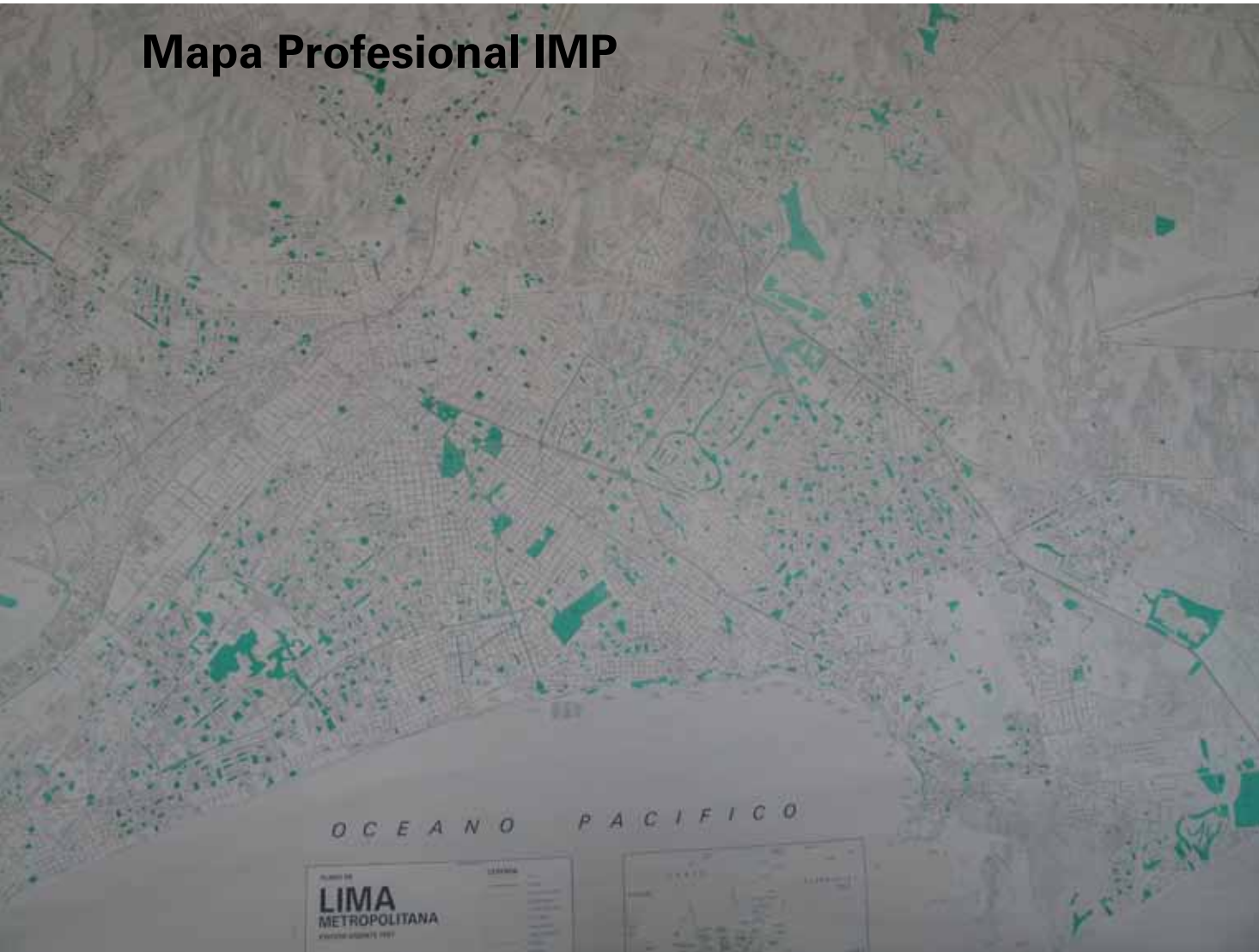
Infraestructura ecológica y parques sensibles al
agua: verdes, productivos, inclusivos, sostenibles

Mapa Turístico



Which kind of parks do we have in Lima?
¿Que tipo de parques tenemos en Lima?

Mapa Profesional IMP



Beautiful and expensive urban parks without connection to people and ecology.
Hermosos y caros parques urbanos sin conexión con la gente ni con la ecología.

El concepto de INFRAESTRUCTURA ECOLÓGICA



Definition:

Integrated networks/systems of built and managed urban ecosystems that provide multiple, complementary cultural, ecological + infrastructural functions in support of urban sustainability and a new concept of environmental beauty.

Definición:

Sistema/redes integradas de construcción y gestión de ecosistemas urbanos que provee múltiples y complementarias funciones culturales, ecológicas + de infraestructura en apoyo de la sostenibilidad urbana y un nuevo concepto de belleza ambiental.

keeping out the flood

Manteniendo fuera la inundación

polluting water

Contaminando el agua

taking away agricultural land

Quitando tierra agrícola

sealing and polluting soil

Sellando y contaminando el suelo

consuming lot of water

Consumiendo mucha agua



inviting the flood

Invitando la inundación

purifying water

Purificando el agua



growing food

Cultivando comida



stabilizing and purifying soils

Estabilizando y purificando suelos



saving and producing water

Ahorrando y produciendo agua

From traditional park concept...

Del concepto tradicional de parque...

...to ecological park concept.

...al concepto ecológico de parque.



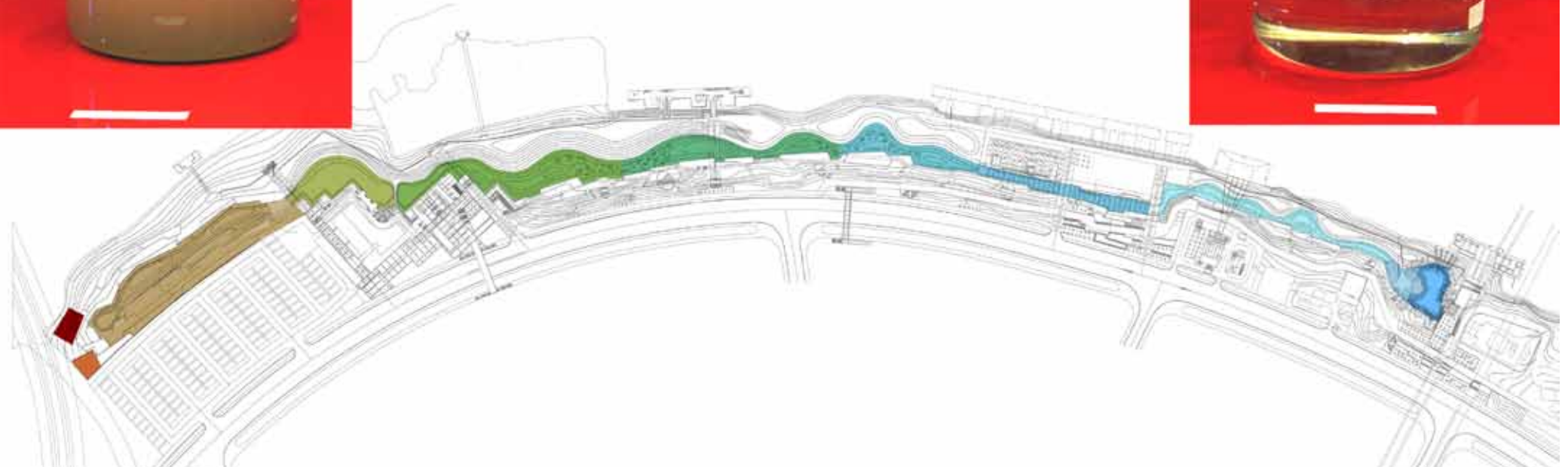
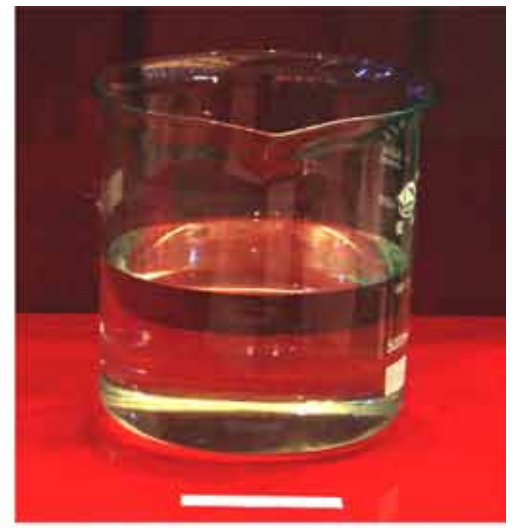
Inviting the flood: Case-study urban rivers, Singapur (Dreiseitl Landscape Architects)
Invitando la inundación: caso estudio rehabilitación de ríos urbanos, Singapur (Arquitectos Paisajistas Dreiseitl)



Inviting the flood: Case-study urban rivers, Singapur (Dreiseitl Landscape Architects)
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Purifying water: Case-study Houtan Park, Expo Shanghai (Turenscape, Beijing)
**Purificando el agua: caso estudio Houtan Park, Expo Shanghai
(Turenscape, Beijing)**



黄浦江
Puang River

过滤
Filtration

特殊情况
加药沉淀
Add precipitant
when necessary

曝气过滤
生态净化
Natural Aeration
Biological Purification

土壤过滤
生态净化
Soil Filtration
Biological Purification

自然增氧
生态净化
Natural Aeration
Biological Purification

自然增氧
生态净化
Natural Aeration
Biological Purification

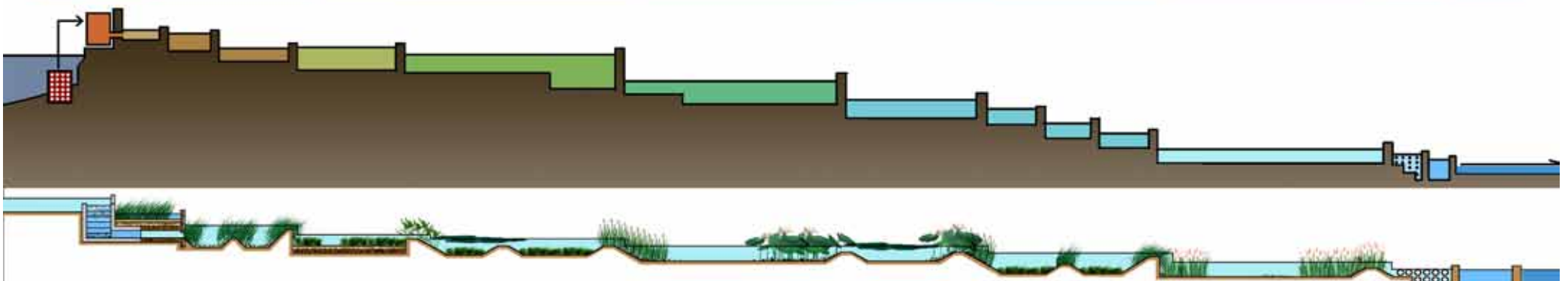
自然增氧
生态净化
Natural Aeration
Biological Purification

自然增氧
生态净化
Natural Aeration
Biological Purification

过滤增氧
生态净化
Natural Filtration
Biological Purification

世博公园
To World Expo Park

曝气过滤 生态净化 Aeration and Biological Purification	加药沉淀 沉淀 Add precipitant and precipitation	梯田生态 净化 Terraces for Aeration and Bio-Purification	土壤生态 净化 Subsurface Filtration	重金属 净化 Heavy Metal Removal and Bio-Purification	碳源体 净化 Carbon Removal and Bio-Purification	营养物质 净化 Nutrient Removal	植物综合 净化 Aeration and Biological Purification	水质稳定调节 Water Quality Stabilization and Control	砾石生物 净化 Sand Filter for Final Polishing	清水蓄水 Clean Water Reservoir
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Purifying water: Case-study Houtan Park, Expo Shanghai (Turenscape, Beijing)
**Purificando el agua: caso estudio Houtan Park, Expo Shanghai
(Turenscape, Beijing)**



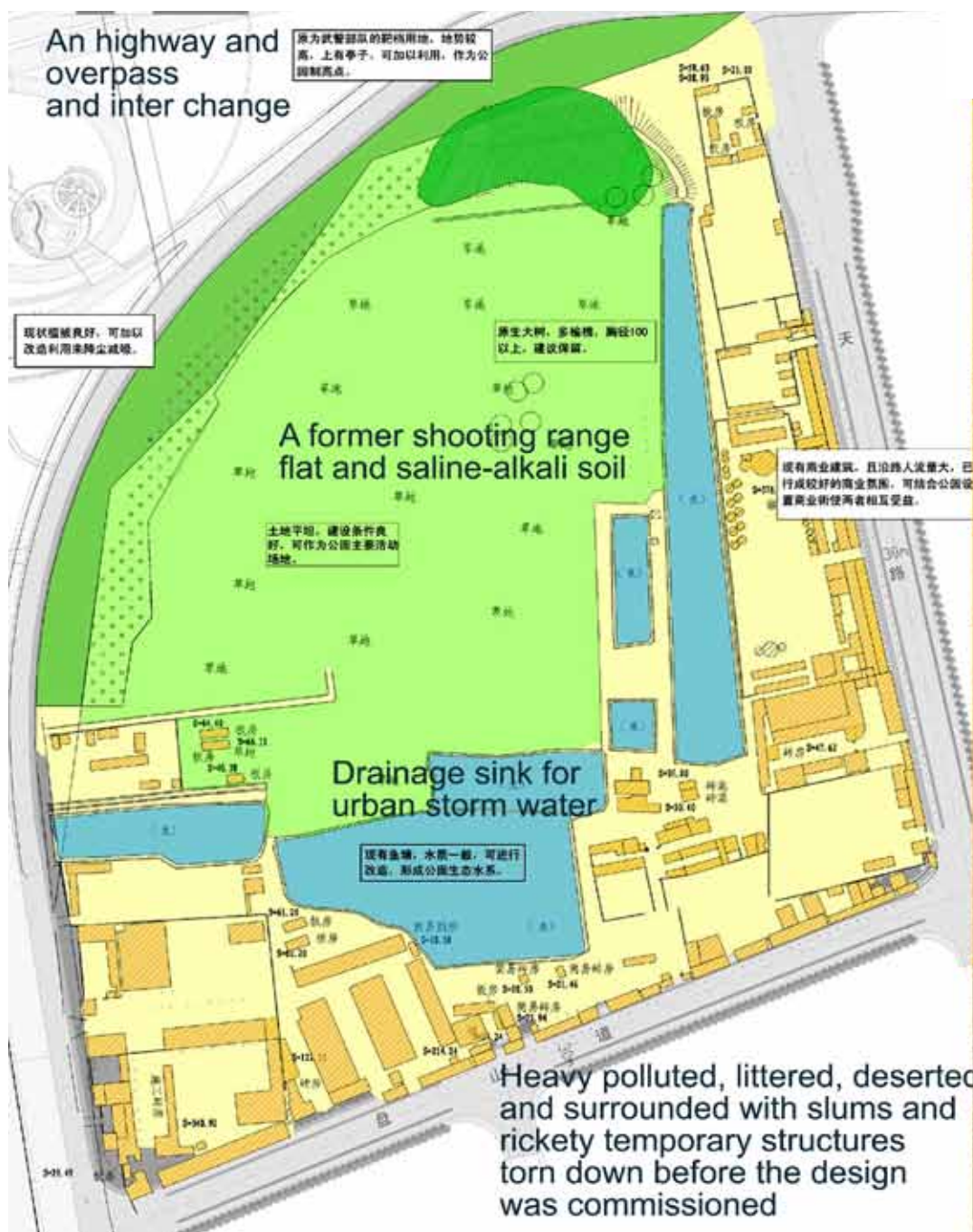
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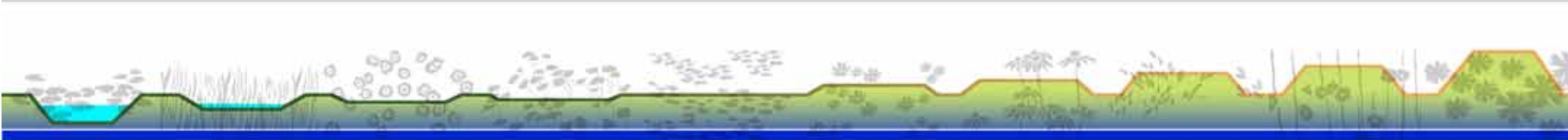
Purifying + stabilizing soil: Case-study Tianjin Qiaoyuan Park (Turenscape, Beijing)
Caso estudio: Tianjin Qiaoyuan Park (Turenscape, Beijing)



Inspirations: adaptive vegetation communities that dot the regional landscape in patches sensitive to water and soil PH values



睡菜 <i>Nymphaea tetragona</i>	芦苇 <i>Phragmites communis</i>	向日葵 <i>Helianthus annuus</i>	千叶草 <i>Achillea millefolium</i>	黄草 <i>Sida acuta</i>	波斯菊 <i>Cosmos bipinnatus</i>	美人蕉 <i>Canna indica</i>	紫花苜蓿 <i>Medicago sativa</i>	紫花苜蓿 <i>Medicago sativa</i>	紫花苜蓿 <i>Medicago sativa</i>	紫花苜蓿 <i>Medicago sativa</i>
PH 6.0-6.5	PH 7.5-8.5	PH 7.5-8.5	PH 8.5-9.0	PH 8.5-9.0	PH 8.0-8.5	PH 6.0-6.5	PH 6.0-6.5	PH 6.5-7.0	PH 6.5-7.0	PH 6.0-6.5



Purifying + stabilizing soil: Case-study Tianjin Qiaoyuan Park (Turenscape, Beijing)
Estabilizando y purificando suelos: caso estudio Tianjin Qiaoyuan Park (Turenscape, Beijing)



Purifying + stabilizing soil: Case-study Tianjin Qiaoyuan Park (Turenscape, Beijing)
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Estabilizando y purificando suelos: caso estudio Tianjin Qiaoyuan Park (Turenscape, Beijing)



Growing food: Case-study Shenyang Architecture Campus (Turenscape, Beijing)
**Cultivando comida: caso estudio Shenyang Architecture Campus
(Turenscape, Beijing)**



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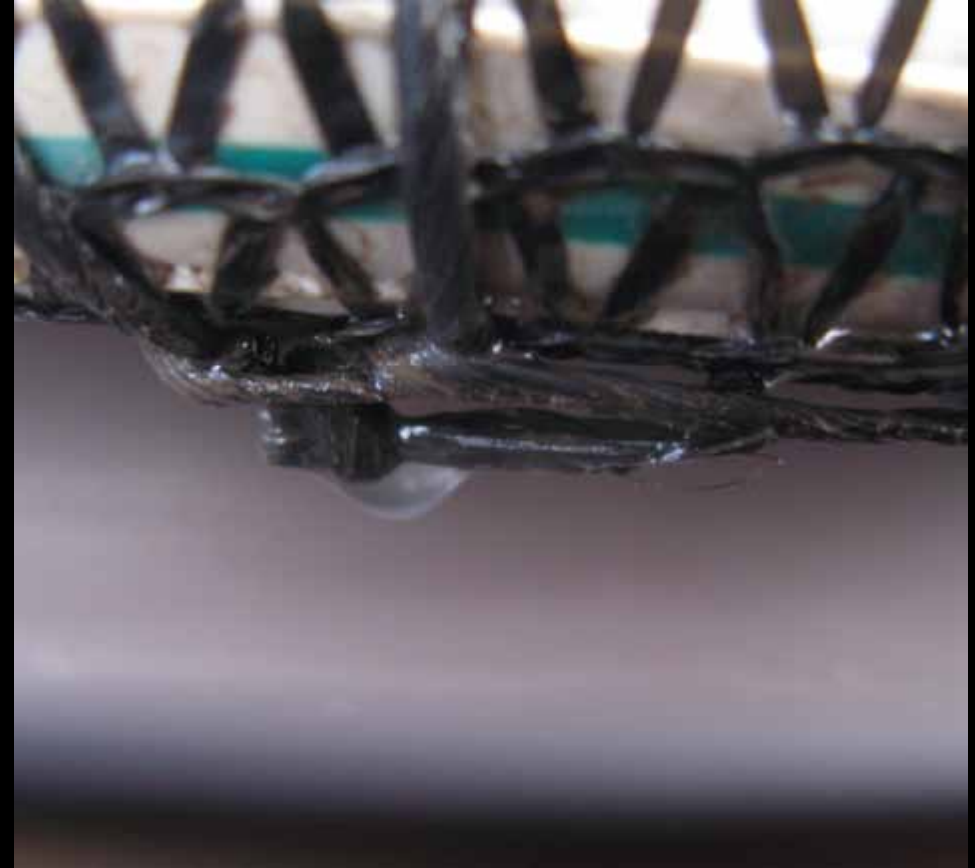
Growing food: Case-study Shenyang Architecture Campus (Turenscape, Beijing)
**Cultivando comida: caso estudio Shenyang Architecture Campus
(Turenscape, Beijing)**



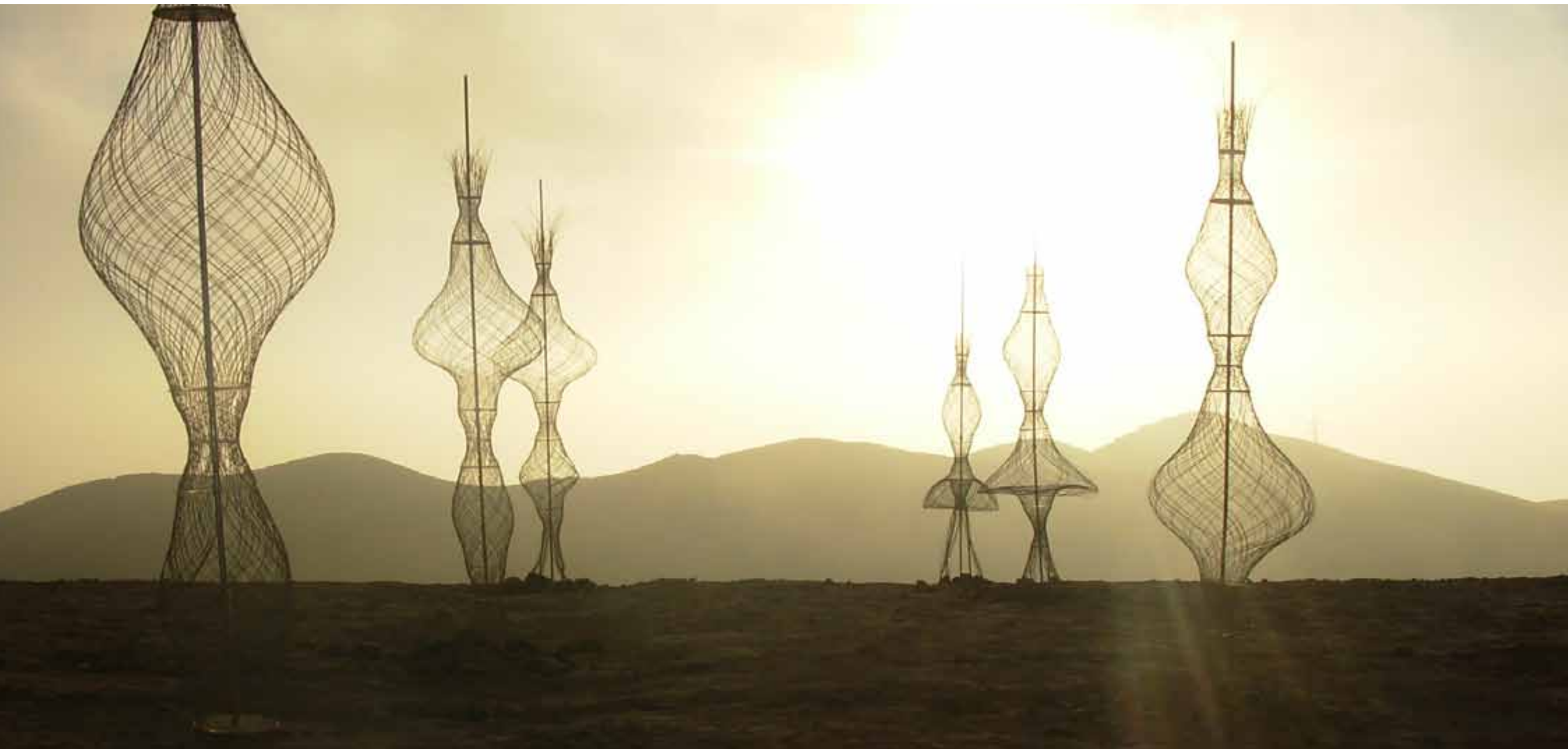
Growing food: Case-study Shenyang Architecture Campus (Turenscape, Beijing)
Cultivando comida: caso estudio Shenyang Architecture Campus (Turenscape, Beijing)



Saving water: Case-study Botanic Gardens, Melbourne (Taylor Cullity)
**Ahorrando agua: caso estudio Jardines Británicos Reales, Melbourne
(Taylor Cullity Lethlean)**



Catching water: Case-study Desert Fog Gardens (Mlab Machinic Laboratory, Chile)
Produciendo agua: caso estudio Jardines desérticos de niebla
(Mlab Machinic Laboratory, Chile)



29_Mlab: portafolio/tardonaturalezas /jardin de niebla /cadoalveus

Tardonatures Studio
(G1) Jonathan Gonzalez Catalina Figueroa Geraldine Tejada Hernan Araya

Catching water: Case-study Desert Fog Gardens (Mlab Machinic Laboratory, Chile)
**Produciendo agua: caso estudio Jardines desérticos de niebla
(Mlab Machinic Laboratory, Chile)**



20_Mlab: portafolio / projects / fog gardens / prototypes / construction

Infrabotanics Studio
(G7) Daniel Arce, Felipe Gonzalez, Nicole Lopez, Fabian Ojeda, Maximiliano Pazols, Alejandro Perez

Catching water: Case-study Desert Fog Gardens (Mlab Machinic Laboratory, Chile)
**Produciendo agua: caso estudio Jardines desérticos de niebla
(Mlab Machinic Laboratory, Chile)**



/ fog gardens / prototypes / performance

Catching water: Case-study Desert Fog Gardens (Mlab Machinic Laboratory, Chile)
**Produciendo agua: caso estudio Jardines desérticos de niebla
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Catching water: Case-study Desert Fog Gardens (Mlab Machinic Laboratory, Chile)
**Produciendo agua: caso estudio Jardines desérticos de niebla
(Mlab Machinic Laboratory, Chile)**

¿Cómo desarrollar y convertir el valle del río Chillón en un modelo de parque ecológico para el futuro de Lima?

saving and producing water

Ahorrando y produciendo agua

purifying water

Purificando el agua

inviting the flood

Invitando la inundación

stabilizing and purifying soils

Estabilizando y purificando suelos

growing food

Cultivando comida

October 2011-February 2012

Research on environmental technologies and design ideas by German students



Octubre 2011- Febrero 2012

Investigación sobre tecnologías medioambientales e ideas de diseño por estudiantes alemanes

February/ March 2012: Summerschool in Lima
Discussion of topics and ideas



Febrero/Marzo 2012: "Escuela de verano" en Lima
Discusión de temas e ideas

February/ March 2012: Summerschool in Lima Design workshop with students from Germany and Lima



libro para niños
concientización del
agua

caso quebrada los
palos grandes

propuesta para qta
crespo: nuevos es-
pacio urbano

desarenadores

escuelas portátiles
de natación

sistema de plantas
de tratamiento
modelo la cartota

quebradas
soluciones

bioevaluación de
las quebradas
caraqueñas

agua y cultura
societal

un hilo de agua
limpia los 26km de
antimano a petare

caracas hydraulic
city model

bebedores mira-
dores

agua para beber
agua para tocar
agua para oír y ver

canales
riberas
oportunidades

parques de agua de
bolsillo

concurso ciudad de
agua

colectores de agua
de lluvia

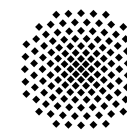
new springs for ca-
racas

Febrero/Marzo 2012: "Escuela de verano" en Lima Workshop de diseño con estudiantes de Alemania y Lima

March 2012: Summerschool in Lima
Exhibition and presentation of results



Marzo 2012: "Escuela de verano" en Lima
Exhibición y presentación de los resultados



Implementing the ecological park of the future: green, productive, inclusive, sustainable



Infraestructura ecológica y parques sensibles al
agua: verdes, productivos, inclusivos, sostenibles