siva detao
school of design
视觉德稻设计学院
environmental
design

Ecological Architecture Design

2020.05.18

Ecological Architecture Design

目录

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Ecological Architecture Design

ABOUT DETAO


Opening Ceremony of the CCIC Building


CCIC Building

DTMA, a subsidiary of DeTao Group, is a world class educational organization focusing on knowledge and innovation.

Based on the in-depth research on industries both inside and outside of China, DTMA identifies and brings in world leading masters from a wide range of professional fields and sets up their individual Master Studios.

Integrating the wisdom resources of masters, human resources in China, as well as business capital resources, DeTao continuously collects knowledge scientifically and systematically with the cluster effects of first-class experts. In this way, the industrial experience and tacit knowledge of masters can be inherited. Thus we organically combine the resources of international industrial masters and of native markets, to provide high-end industrial education and to nurture practical industrial leading talents.

At present, over one hundred masters driving various industries have joined DTMA, preliminarily forming a cluster of masters. Coming from 25 countries all over the world, covering 20 industries and 60 fields, DeTao masters have acquired more than 50 kinds of world top industrial awards for over 2400 times.

DeTao's spirit to "bring together the world's leading masters, nurture professional elites" has won massive supports from national and local governments, as well as various universities, colleges, business and industrial organizations. Comprehensive strategic cooperation agreements have been signed between DeTao and large native corporations, including China Railway Construction Corporation Limited and Shanghai Film Group. DTMA will, taking full advantages of the wisdom resources and cluster effects of DeTao Masters, nurture international versatile talents and promote development of industries.

With an appropriate variety of scientific methods, our students will learn to broaden their global perspectives and stimulate their creative inspiration. DeTao Masters Heritage will help you to realize leap development from a professional for a professional elite. DeTao will also provide comprehensive solutions for business thus contributing to the harmonious development of the society.

"East meets West for a bright future together!"

智慧 采集 传承

WISDOM COLLECTION HERITAGE

DeTao Masters Academy
Master Course of Ecological Architecture & Urban Design in the Chinese Local Context
Detao Shanghai Centre
at SIVA, 2200 Wenxiang Rd Songjiang District
Shanghai, China (201620)
Hotline: 4006 805 608
www.detaoma.com


Financial City U.A.E

DE TAO GROUP
STUDIO DOTAN
MASTERS CLASS FOR ECOLOGICAL ARCHITECTURE

ECOLOGICAL ARCHITECTURE & URBAN DESIGN


WORLD EXPO 2010, Israeli National Pavilion, Shanghai

PREFACE

China has been developing rapidly in the past 20 years. Small towns developed into cities, big cities became megalopolis. Many urban mistakes were created due to the urgency to provide massive immediate housing for the people. Thus, we must create new neighborhoods and new types of buildings that will provide green and quiet living environments in place of the massive walls which block the sun, the breeze and the views and do not provide solutions to the cultural and social needs of the inhabitants.

As an international architect and Master at DeTao Masters Academy, Professor Haim Dotan would like to contribute his vast experience in construction together with his new futuristic visions of housing design, construction techniques and construction methods in China. To nurture high-end elites in ecological architectural design in China, SIVA, DTMA and Professor Haim Dotan work together to establish a master studio of Pioneering Ecological Architecture, which provide Master Courses of Ecological Architecture & Urban Design in the Chinese Local Context.


Rehovot Performing Art Center Israel


Project • Happy Home• •

E A D

Director of EAD
Professor Haim Dotan

Professor Haim Dotan, international architect, urban designer, poet, philosopher, educator, and artist

渡堂海教授 国际知名建筑师 城市设计师，
诗人 哲学家 教育家 艺术家

A Master-Builder
Master of "Know-How"
"High-Tech" in Design
High & Low-Tech in Construction"

渡堂海大师
大师级的建造者
对“如何建造”了如指掌
在设计中运用高技技术
高低科技在工程中的运用
拥有35年的国际项目经验

01 Program Philosophy & 4-Year Curriculum

教学理念 & 四年教学大纲

中国
通向哪里?

China
Where To?

为何
需要生态设计?

WHY ECOLOGICAL DESIGN?

为何
需要生态设计?

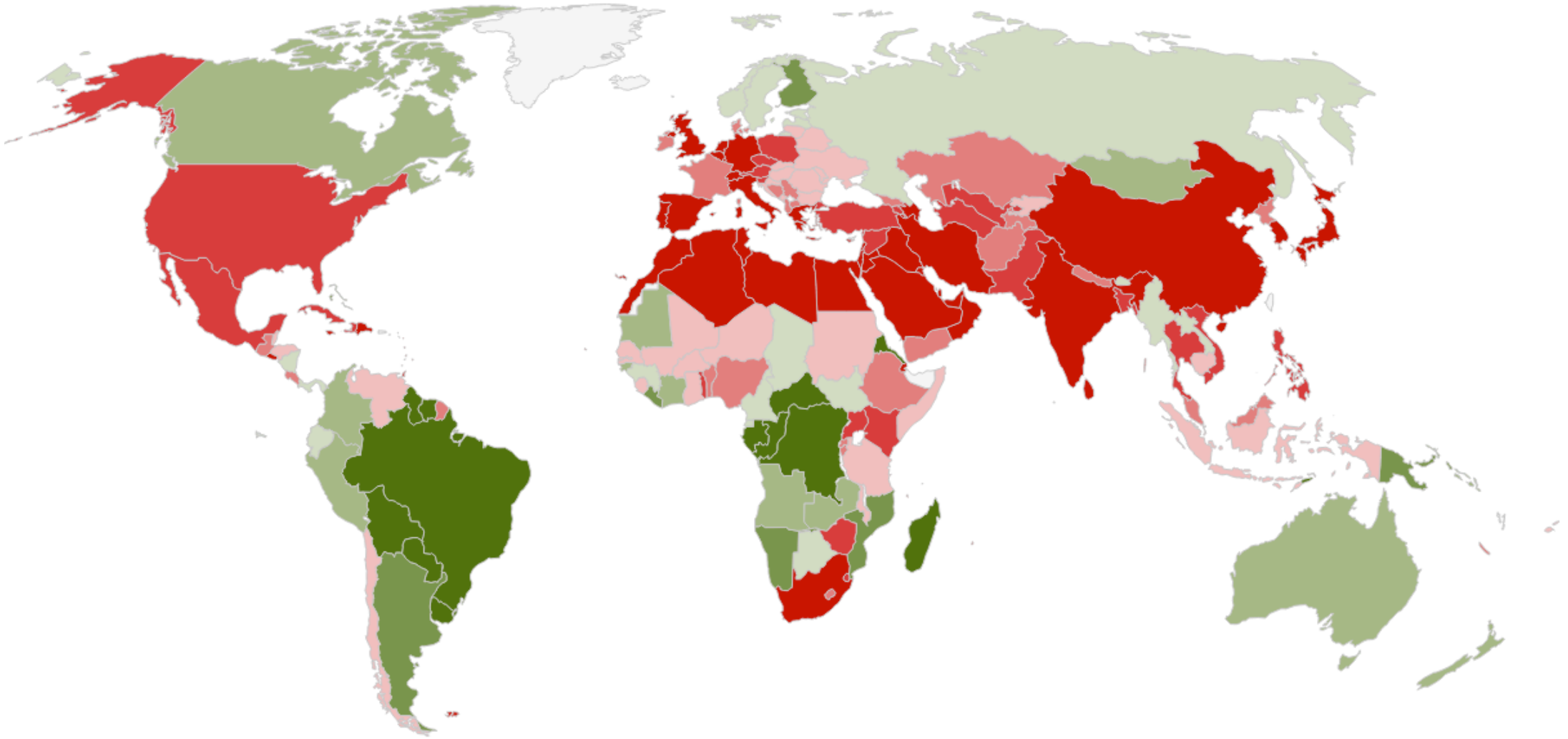
WHY ECOLOGICAL DESIGN?

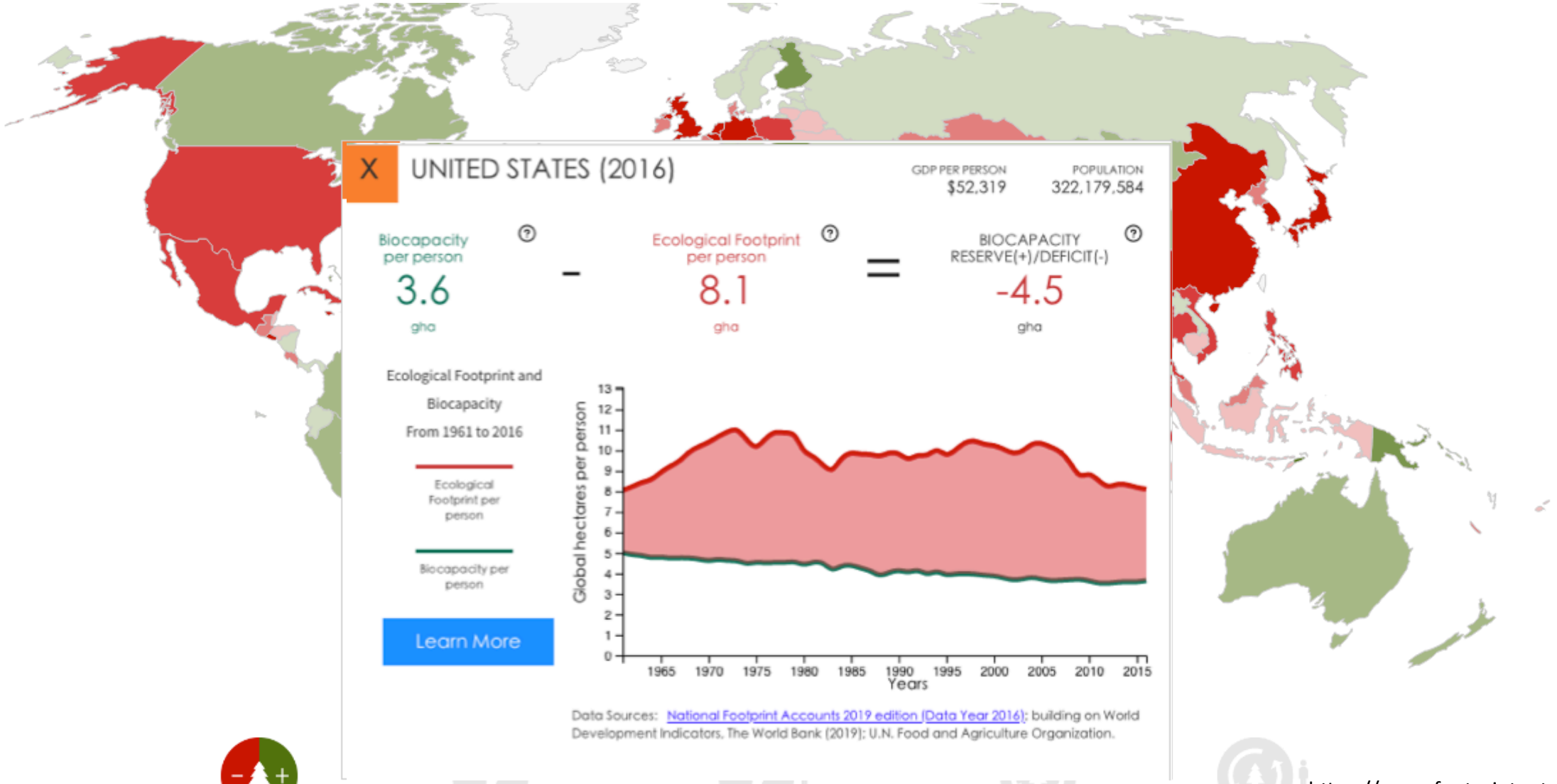
E A D

为何
需要生态设计?

WHY
ECOLOGICAL
DESIGN?

E A D


ECOLOGICAL DEFICIT/RESERVE
TOTAL ECOLOGICAL FOOTPRINT
ECOLOGICAL FOOTPRINT PER PERSON
TOTAL BIOCAPACITY
BIOCAPACITY PER PERSON



ECOLOGICAL DEFICIT/RESERVE

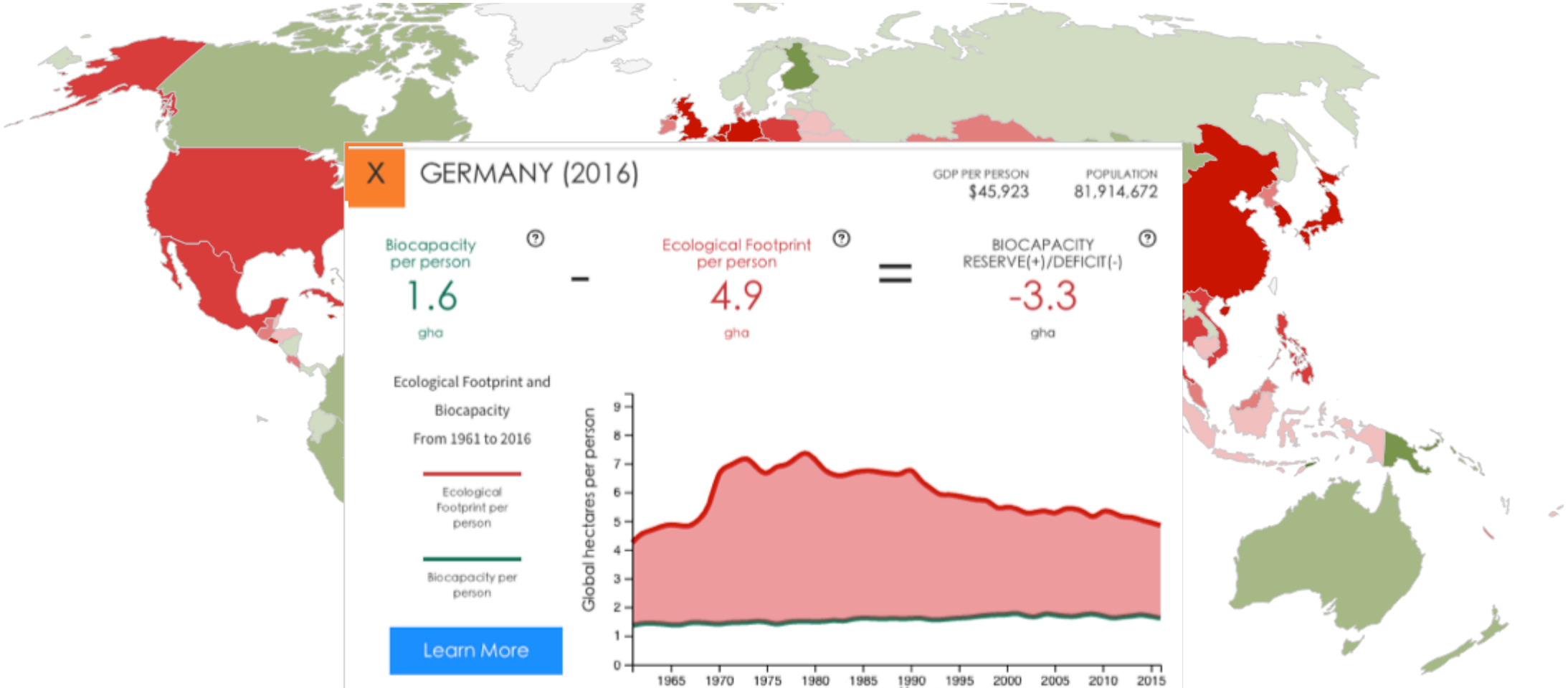
TOTAL ECOLOGICAL FOOTPRINT

ECOLOGICAL FOOTPRINT PER PERSON

TOTAL BIOCAPACITY

BIOCAPACITY PER PERSON

https://www.footprintnetwork.org/



X GERMANY (2016)

GDP PER PERSON $45,923

POPULATION 81,914,672

Biocapacity per person 1.6 gha

Ecological Footprint per person 4.9 gha

BIOCAPACITY RESERVE(+)/DEFICIT(-) -3.3 gha

Ecological Footprint and Biocapacity From 1961 to 2016

Ecological Footprint per person

Biocapacity per person

Learn More

Data Sources: National Footprint Accounts 2019 edition (Data Year 2016); building on World Development Indicators, The World Bank (2019); U.N. Food and Agriculture Organization.

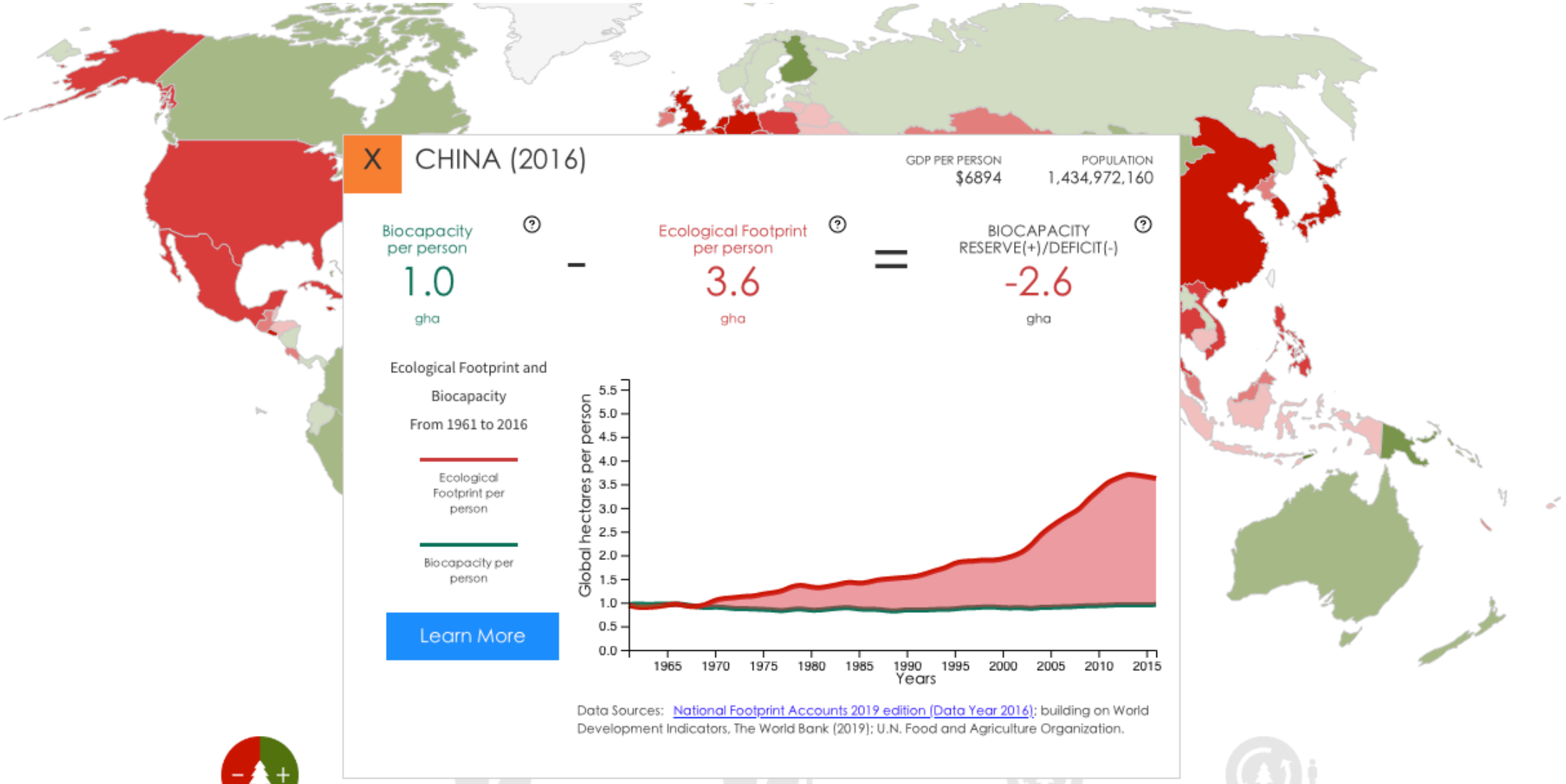
ECOLOGICAL DEFICIT/RESERVE

TOTAL ECOLOGICAL FOOTPRINT

ECOLOGICAL FOOTPRINT PER PERSON

TOTAL BIOCAPACITY

BIOCAPACITY PER PERSON



ECOLOGICAL DEFICIT/RESERVE

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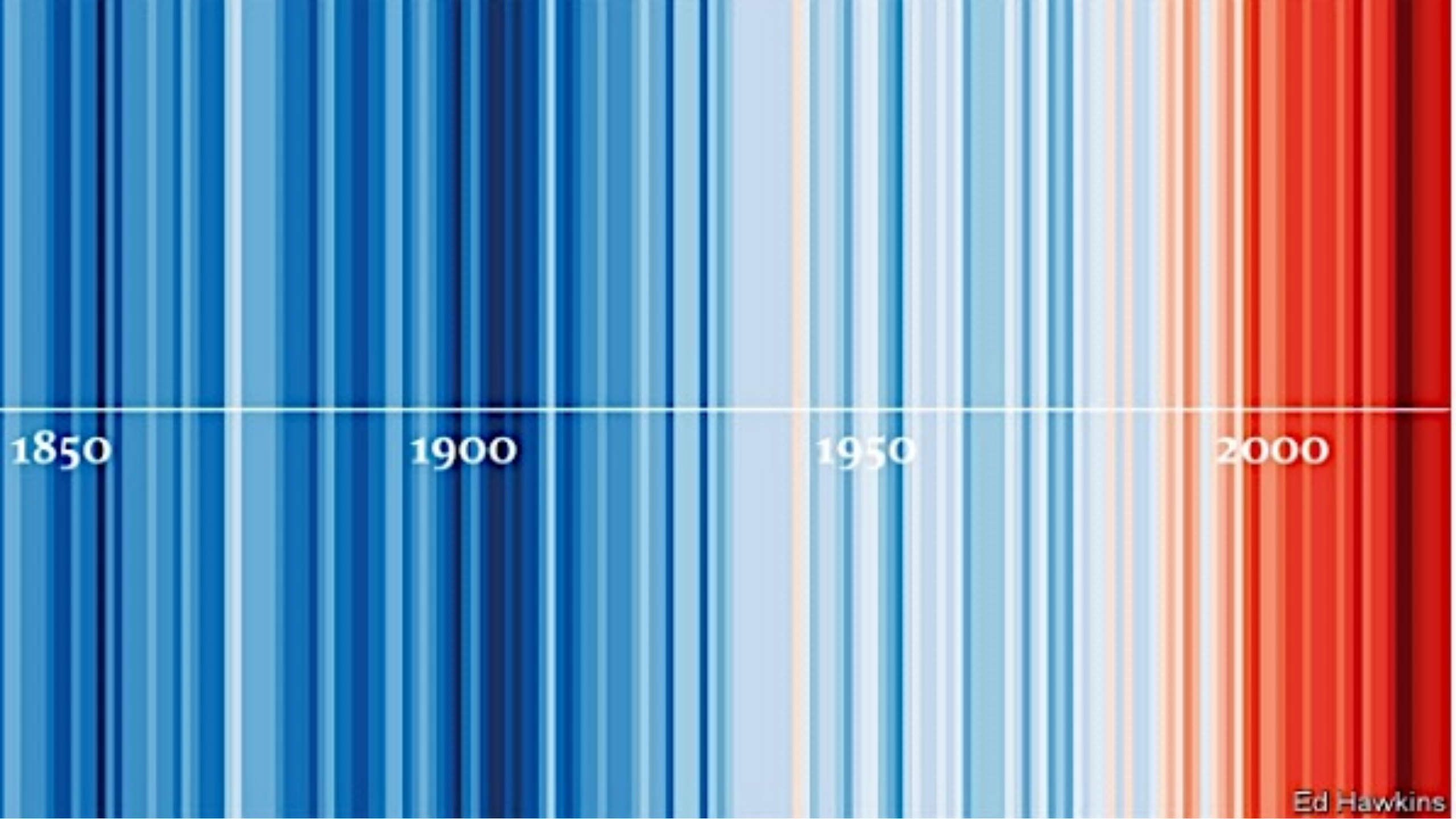
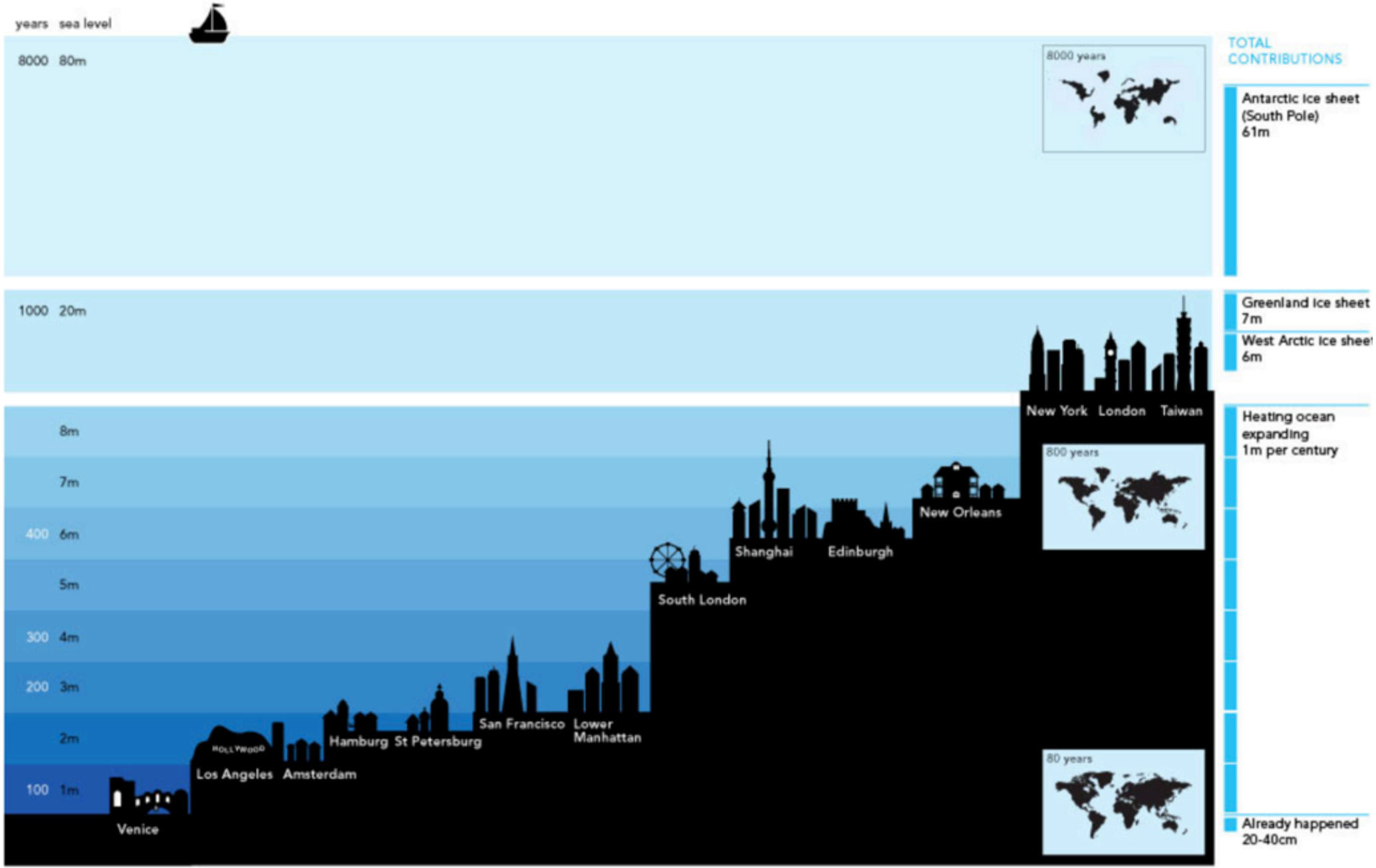
BIOCAPACITY PER PERSON


1850
1900
1950
2000
Ed Hawkins

When Sea Levels Attack!

Which cities will flood when?



What is ECO-Design?

什么是生态设计?

Ecology is life.

The “Qi” of Living

The Energy of Life

生态是生活，生命的能量

教育理念 PROGRAM PHILOSOPHY

什么是创造力?

创造力是询问问题
给与答案和解决方案

What is Creativity?

Creativity is asking questions
Giving many answers &
solutions

教育目标 GOAL OF THE PROGRAM

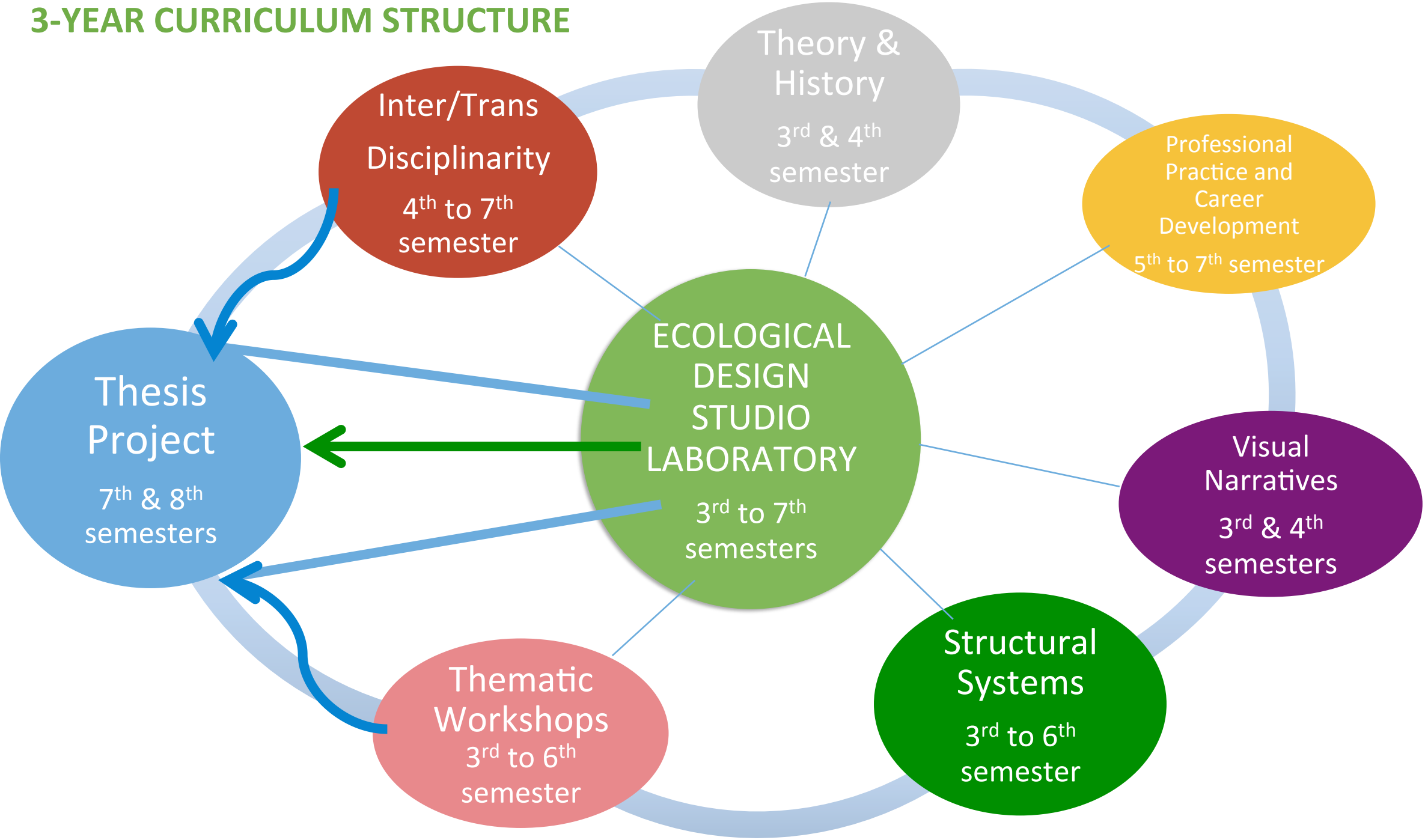
- To create inter-disciplinary relationships between ECO-Design fields, Education and Industry.
- To design futuristic ecological environments for our children to live in harmony, balance and beauty.

- 创造跨越生态设计领域，教育及工业学科的关系
- 设计生态环境造福子孙，让他们生活在和谐平衡和美丽之中。

ECOLOGICAL ARCHITECTURE DESIGN PHILOSOPHY

‘**Everything in nature is *functional and structural*.** Everything in nature is buildable and beautiful**. Nature is the true source of our inspiration**’

3-YEAR CURRICULUM STRUCTURE



4-YEAR CURRICULUM STRUCTURE

四年教学大纲

ECOLOGICAL ARCHITECTURE DESIGN CURRICULUM

EAD: 27 courses in 8 categories

15 core courses + 6 eco-studio projects + 4 workshops + 1 internship project + 1 thesis project

September 2019/Proposed & Reviewed by Professor Dotan, Professor Schmidt, Dr. Thomas, VP Jenny, Sun Dongmei, and Teaching Team of EAD

Curriculum Coordinator: Dr. Ernesto Valero Thomas

YEAR	1		2		3		4		NUMBER OF CREDITS PER AREA	NUMBER OF CREDITS PER AREA
SEMESTER	1	2	3	4	5	6	7	8		
THESIS RESEARCH							RSCH. METHODS IN ECO. DESIGN	THESIS PROJECT COMPLETION	8 8	16
BRANDING, MANAGEMENT & PORTFOLIO						PROFAL. PORTFOLIO & PRE. TECHNIQUES	INTERNSHIP		6 2 2	10
THINKING IN SYSTEMS				HUMAN FACTORS IN ENVL. DESIGN	PROF. ENGLISH IN ECO DESIGN ECO-LANDSCAPE DESIGN	ECO-MOBILITY	ECO-URBAN DESIGN		2 2 2 2	8
STRUCTURES & ECOSYSTEMS			ECO-SYSTEMS PRINCIPLES	LOW-CARBON ARCHITECTURE	ECO-CONSTRUCTION & BLDNG. MATERIALS	ECO-INFRAST. IN RURAL & URB. CONTEXTS			2 2 2 2	8
VISUAL NARRATIVES			VISUAL REPRESENTATION I	VISUAL REPRESENTATION II					2 2	4
HISTORICAL THINKING			THEORY AND HISTORY OF ARCH	THEORY AND HISTORY OF ARCH. & CITIES					2 2	4
ECO-STUDIO PROJECTS		EAD EXPERIENCE PROJECT Eco-Flower	FIELDTRIP 1 ECO-STUDIO I: Eco-Room & Eco-Apartment	FIELDTRIP 2 ECO-STUDIO II: Eco-House & Eco-Village	FIELDTRIP 3 ECO-STUDIO III: Eco-Apt Building & Eco-Public Bldg	FIELDTRIP 4 ECO-STUDIO IV: Ecological Neighborhood	FIELDTRIP 5 ECO-STUDIO V: Ecological Restoration & Public Space	THESIS PROJECT COMPLETION *10 weeks semester	50	50
EAD MASTERS LECTURES & VERTICAL WORKSHOPS			*Form, Function & Emotion* WORKSHOP	*Learning and Designing with Nature* WORKSHOP	*Augmented Reality & Ecological Architecture* WORKSHOP	*Sustainable Cities & Ecological Design* WORKSHOP			4	4
ELECTIVES					*MANDATORY SELECTION OF 3 ELECTIVE COURSES IN OTHER DISCIPLINES				6	*6 to be organized by SIVA
SIVA DETAO FOUNDATION YEAR	SIVA DETAO FOUNDATION YEAR									

- 15 Core Courses
- 6 eco-studio projects
- 4 interdisciplinary workshops
- 1 internship project
- 1 thesis project

STRUCTURES & ECOSYSTEMS

The goal of this module is to study and apply structural solutions in the built environment. The courses are focused -but not limited- on the impact of ecosystem services such as water, wind, gravity, and sunlight in the shape of architectural objects. The themes are designed to develop a systematic knowledge of the properties of low-impact construction materials and energy-efficient tectonic envelopes. Special attention will be put on the study of structural characteristics found in natural systems, chemestry and biology

CONSTRUCTION METHODS
4 COURSES
8 Credits

THINKING IN SYSTEMS

Ecological architecture and sustainable development are the result of collaborative solutions. The themes covered in this module include principles of landscape design, urban mobility, ergonometrics, environmental psychology, and urban studies. Cross-disciplinary collaborations are the base for a future-oriented sustainable design in China and the world

INTERDISCIPLINARITY
4 COURSES
8 Credits

HISTORICAL THINKING

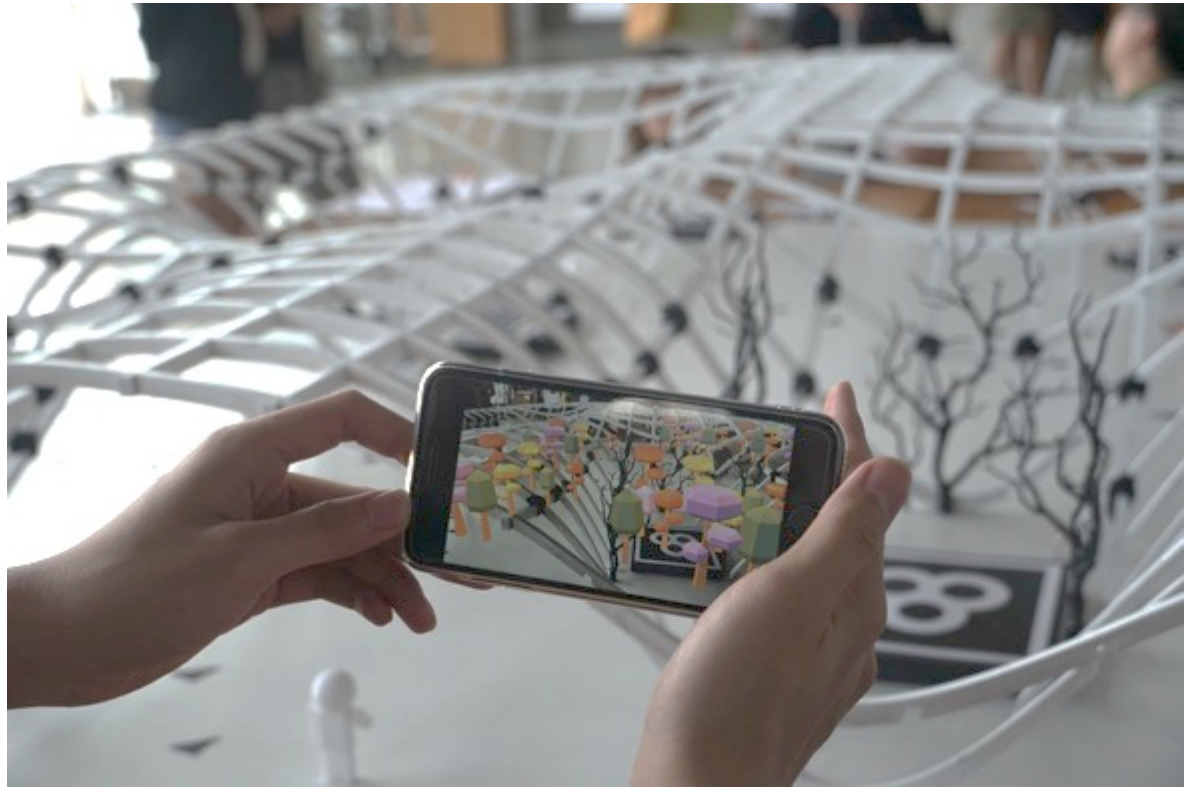
The mission of this module is to explore the correlation of historical thinking and its influence on ecological architecture. Course materials examine the diversity of architectural styles as a response to culture, politics, economy, and geographical location. East-West-South-North architectural styles are introduced and analyzed in these courses, from prehistory through the 21st Century

THEORY AND HISTORY
2 COURSES
4 Credits

VISUAL NARRATIVES

The module concentrates on the visual explanation of ideas and ecological concepts in architectural design. These courses are designed to apply software and visualization techniques that challenge the conventions of representation and architectural drawing. In addition, Performance Arts (theatrer, dance) will be incorporated to the methods of visual communication of architectural projects

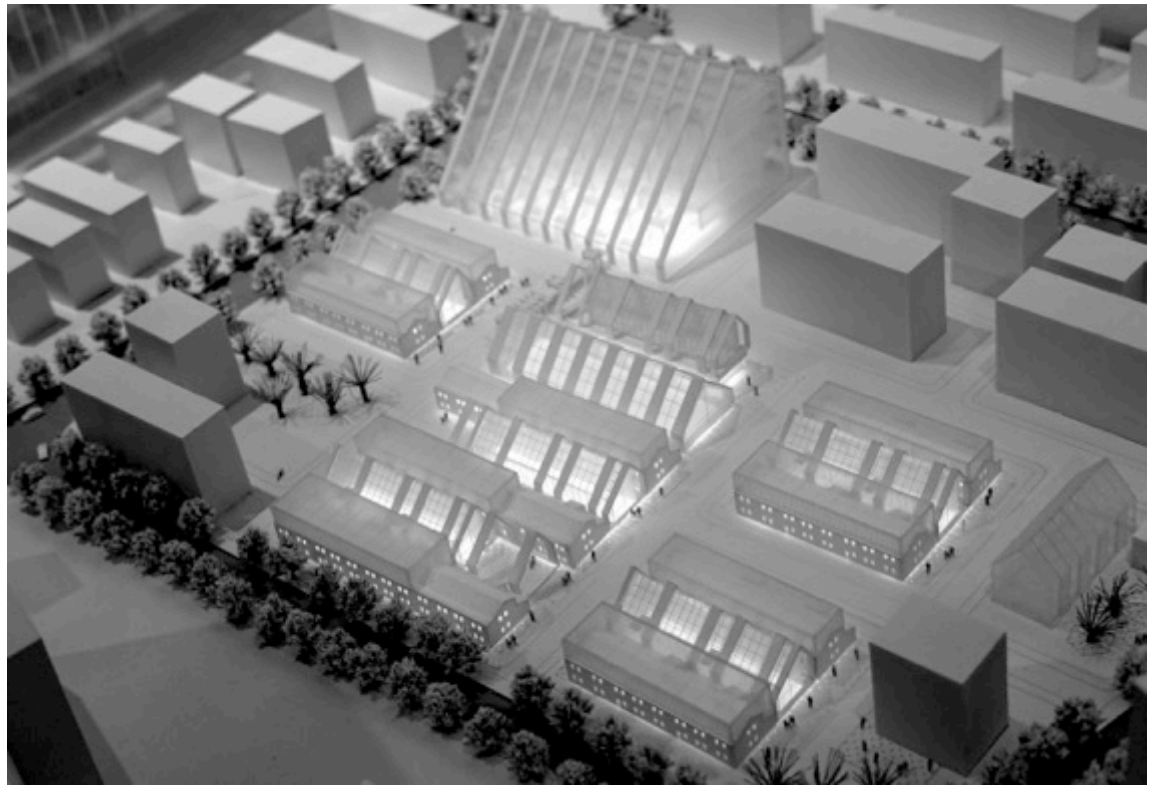
VISUAL REPRESENTATION
2 COURSES
4 Credits



BRANDING, MANAGEMENT & PORTFOLIO

These three courses provide students with the knowledge and judgment needed to fit an architect for her/his professional experiences. To understand how an office organization and a design project are managed

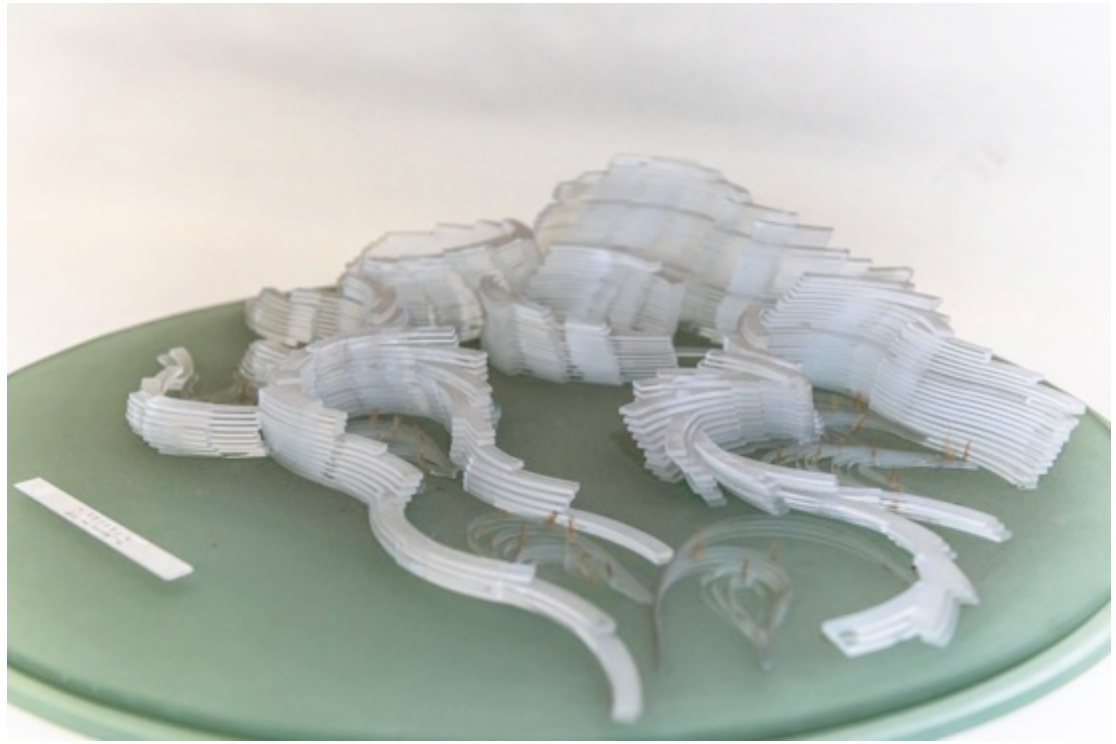
PROFESSIONAL PRACTICE
3 COURSES
10 Credits



THEMATIC WORKSHOPS

The aim of this module is to encourage dialogues and reflection around contemporary challenges in ecological design. Students work with DETAO Masters, guest lecturers or select faculty on specific topics in architecture. The outcomes from students reflect different approaches to form, technique, material, politics, the environment, history, and are intended to explore future scenarios, anticipating creative and sustainable solutions whatever challenges may arise

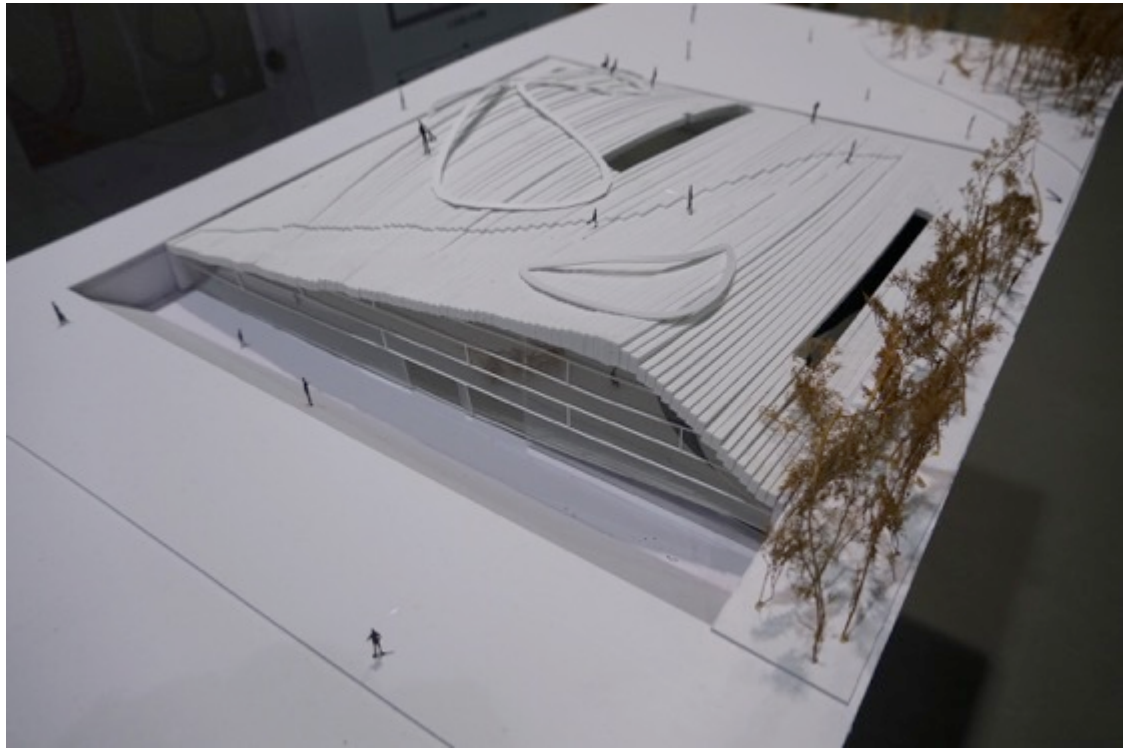
INTERNATIONAL WORKSHOPS
4 WORKSHOPS
4 Credits



DESIGN STUDIO LABORATORIES

The mission of the Eco-Design Studios is to practice the learning outcomes of the EAD curriculum into architectural projects. Each exercise responds to specific contexts and necesities. The location of the projects varies, not only within the city of Shanghai, but also in other cities of China. Particular levels of scale are reviewed throughout the 6 Eco-Studios, among these typologies are small rooms, apartments, residential areas, neighborhoods, public buildings and urban clusters

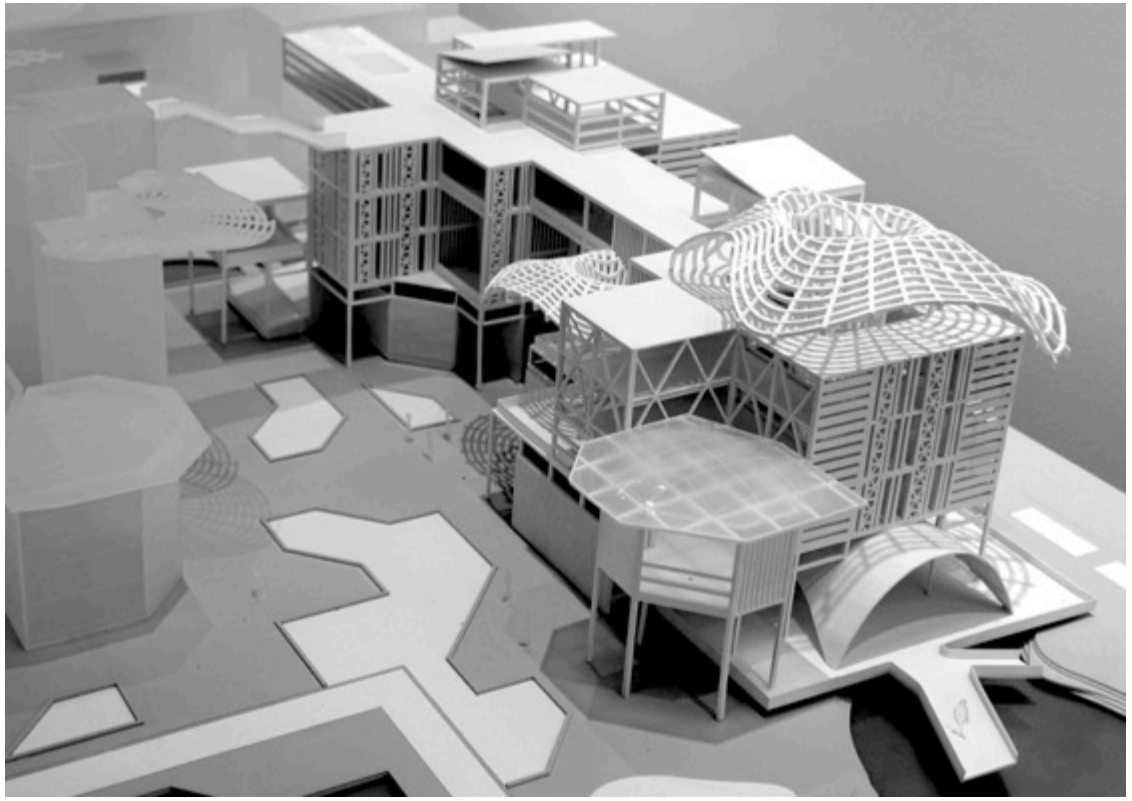
ECO-STUDIO PROJECTS
6 COURSES
50 Credits



THESIS RESEARCH

The Thesis Project is largely an independent exercise allowing the student to explore her or his specific research interests. The goal is to encourage the development of unique voices in fields related to ecological design

THESIS PROJECT
2 COURSES
16 Credits



CAREER OPPORTUNITIES

ECOLOGICAL DESIGN

- Eco-Architecture
- Eco-Interior Design
- Eco-Urban Planning

ECOLOGICAL DEVELOPMENT

- Construction companies
- Government agencies
- Eco-master planning

REAL ESTATE

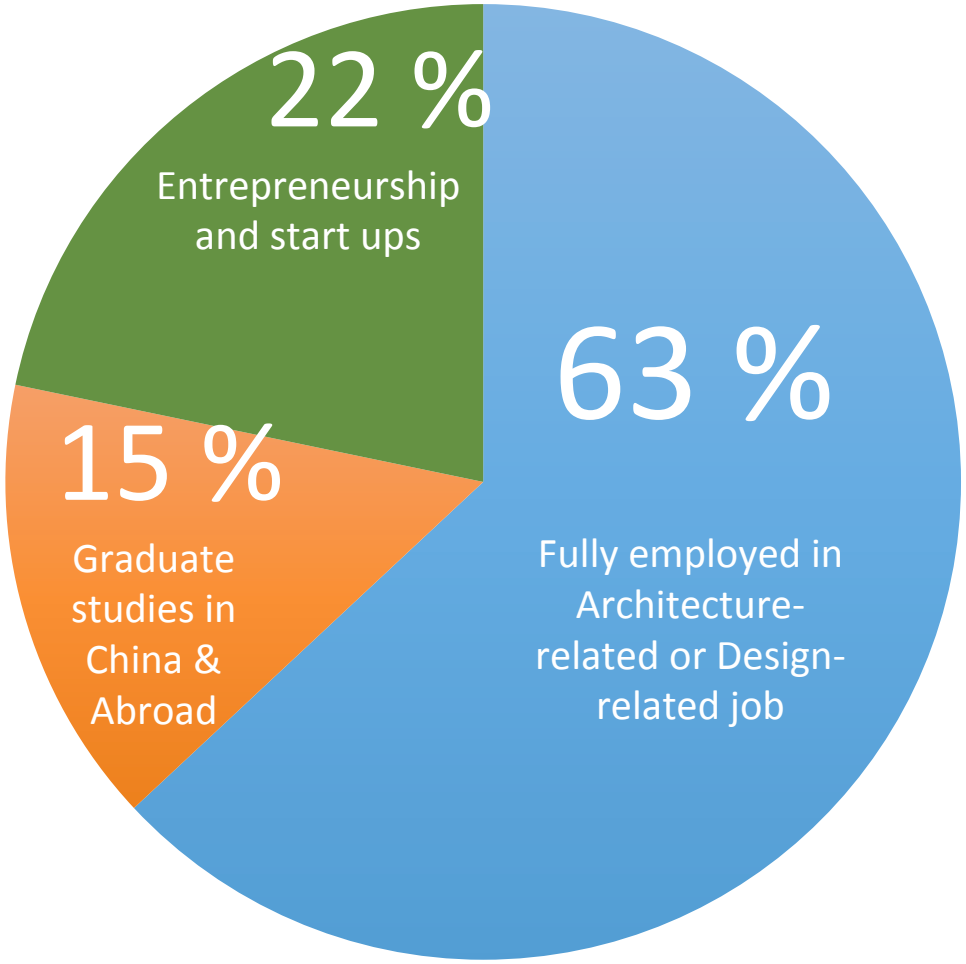
- Eco-tourism
- Sustainable housing development

GRADUATE STUDIES

- Masters programs in China and abroad

EMPLOYMENT RATE, AS IN OCTOBER 2019

E A D



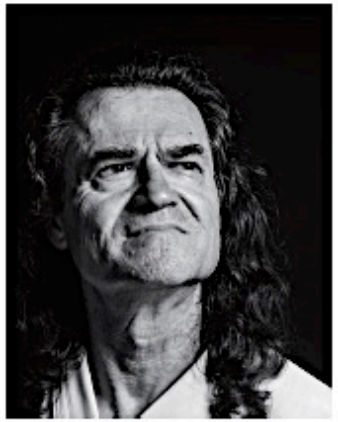
46 STUDENTS HAVE GRADUATED FROM EAD PROGRAM

21 FROM 2014 COHORT

25 FROM 2015 COHORT

2 Teaching Team

教学团队



PROFESSOR HAIM DOTAN

Professor Dotan is an architectural pioneer in developing construction techniques for residential, commercial, industrial, educational and public institutions. In his projects, Architect Dotan creates a new language in the global architectural landscape.

His firm Haim Dotan Architects focuses on innovative cutting-edge architecture & urban design, research and construction. The firm designs public and private projects in Asia, the Persian Gulf, Africa, Israel & Europe.

In 2008 Professor Haim Dotan won the Israel Foreign Ministry DBOT Tender as the developer, contractor and architect of the Israel Pavilion in EXPO 2010 World Exhibition in Shanghai, China. He is the architect of the Zhangjiajie Grand Canyon Glass Bridge.

PROFESSOR J ALEXANDER SCHMIDT

Professor J Alexander Schmidt has a background of more than 35 years professional experience in the fields of city planning, urban design, public space design, urban mobility, village design and development. Dr. Schmidt provides advisory-consulting services internationally, with contacts stretching across Europe and as far as East Asia. He is also working for UNEP and the GEO Community of Practice (CoP).

Professor J Alexander Schmidt studied City Planning/Architecture (University Stuttgart) and Environmental Psychology/Urban Design (UC Berkeley). He holds the chair at the Institute of City Planning + Urban Design and is director of ARUS Advanced Research in Urban Systems, trans-disciplinary research in the JointCenter Urban Systems at the University Duisburg-Essen/Germany. He is an active member of the DeTao Masters Academy Shanghai/Beijing heading the Studio Urban Systems Design.

Dr Ernesto Valero Thomas

Academic leader of Fourth Year
Senior Lecturer
PhD, MSc, BArch
The University of Edinburgh, UK
National University of Mexico

Teacher Xiaoshi Zhao

Academic leader of Third Year
Lecturer
Dipl. Ing, BArch
Karlsruhe Institute for Technology, Germany
Tongji University

Teacher Zhe Zhang

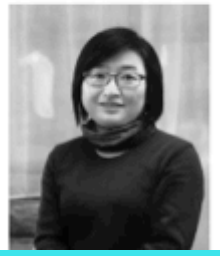
Academic leader of Second Year
Lecturer
Master in Architecture
Regio Politecnico di Torino,
Italy

Teacher Bin Wang

Master in Architecture
Bauhaus Uni-Weimar, Germany

Teacher Zhao Lan

Master in Architecture
Architectural Association School of Architecture, London



Teacher Song Gao

PhD, Master in Architecture
The University of Hong Kong

Teacher Yan Zhuang
Design Fundamentals and Studio Project

Teacher Yuehao Chen
Introduction to Ecological Design

Teacher Dun Hou
Histoty of Architecture and studio Project

Teacher Hang Yang
Computer Design Fundamentals

Teacher Dequn Zhang
Art Fundamentals

Teacher Jian Zhu
Structure Engineering

Who leads Ecological Architecture Design?

E A D

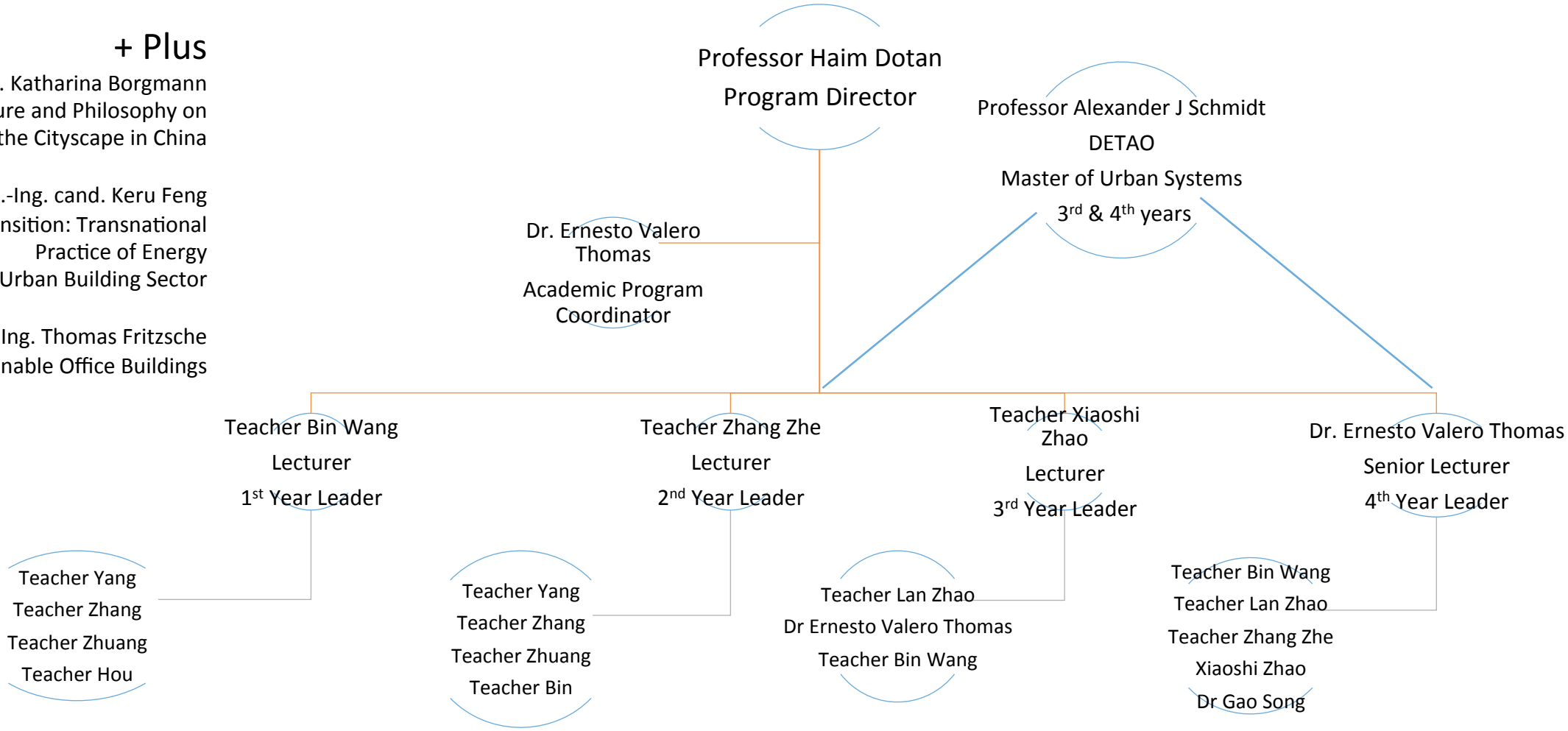
谁来教学生态设计课程?

+ Plus

Dr.-Ing. Katharina Borgmann
The Impact of Chinese Culture and Philosophy on the Cityscape in China

Dr.-Ing. cand. Keru Feng
Mobilizing Low Carbon Transition: Transnational Practice of Energy Efficiency in the Urban Building Sector

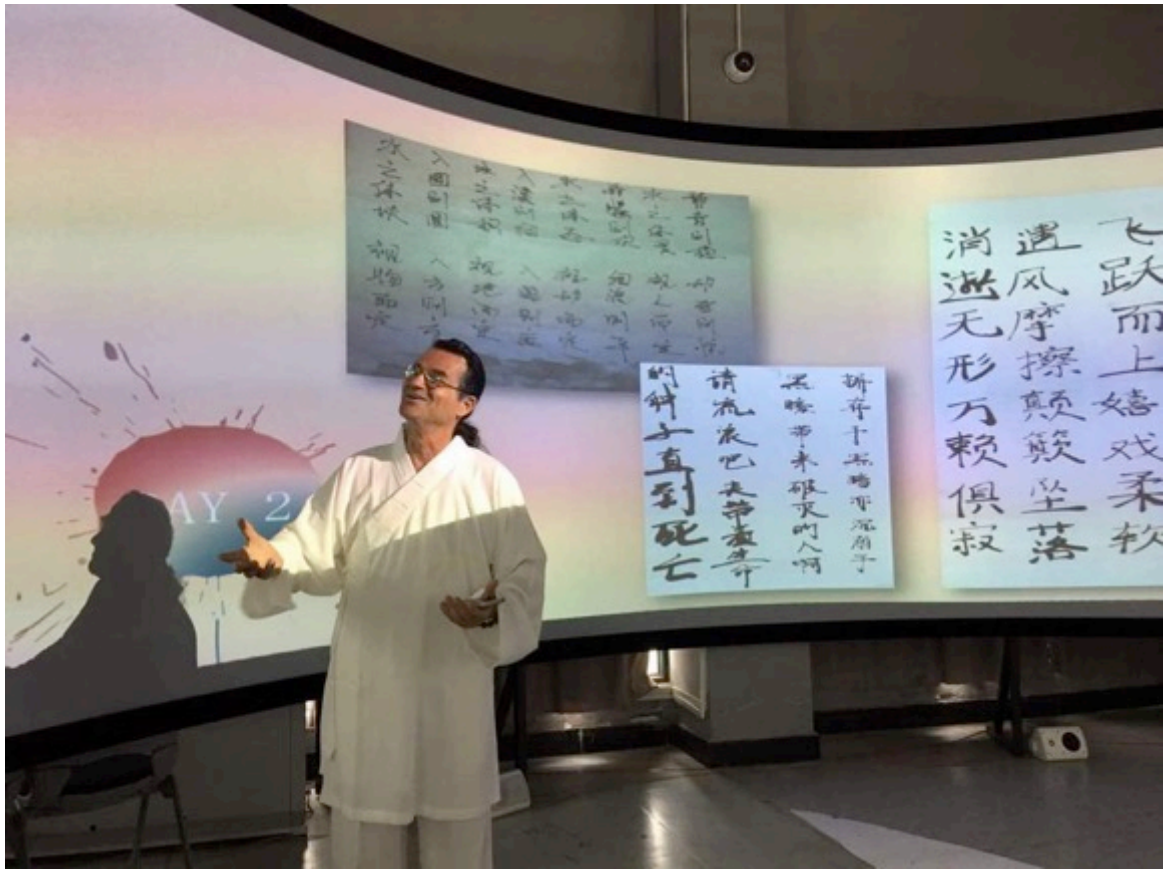
Dipl-Ing. Thomas Fritzsche
Sustainable Office Buildings



as in October 2019

3 Teaching Process

教学过程



WORKSHOP METHOD

CRIT REVIEWS IN ARCHITECTURE

1 Best teaching methods for each course

1 每门课程均采用最佳教学方法

DYNAMIC CLASSROM STYLE

LECTURE HALL STYLE

2 Variety of teaching styles

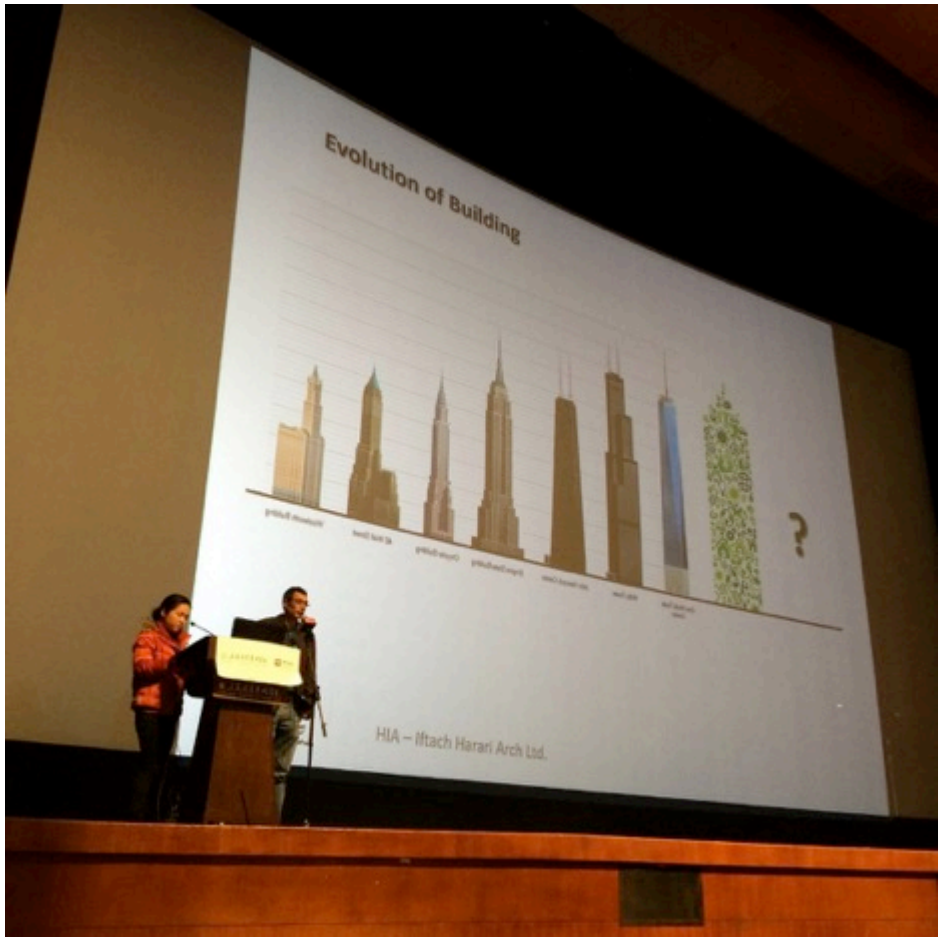
2 运用多种教学形式

From 2014 to 2019
TEACHERS FROM CHINA, TURKEY, USA, MEXICO, BRAZIL, GERMANY, ISRAEL

3 Combine Chinese and foreign instructors

3 国内外讲师相结合

International Guests Lecturers
March 2018, Architect Iftach Harari, ISRAEL
2018年3月国际专家讲座，
以色列建筑师 哈拉雷先生



International Guests Lecturers
May 2019, Dr Katharina Borgmann, GERMANY
2019年5月国际专家讲座
德国博格曼女士

教育理念 TEACHING PHILOSOPHY

4 Interdisciplinary curriculum

4 课程相互关联

教育理念 TEACHING PHILOSOPHY

EAD

ECOLOGICAL ARCHITECTURE DESIGN CURRICULUM

EAD: 27 courses in 8 categories

15 core courses + 6 eco-studio projects + 4 workshops + 1 internship project + 1 thesis project

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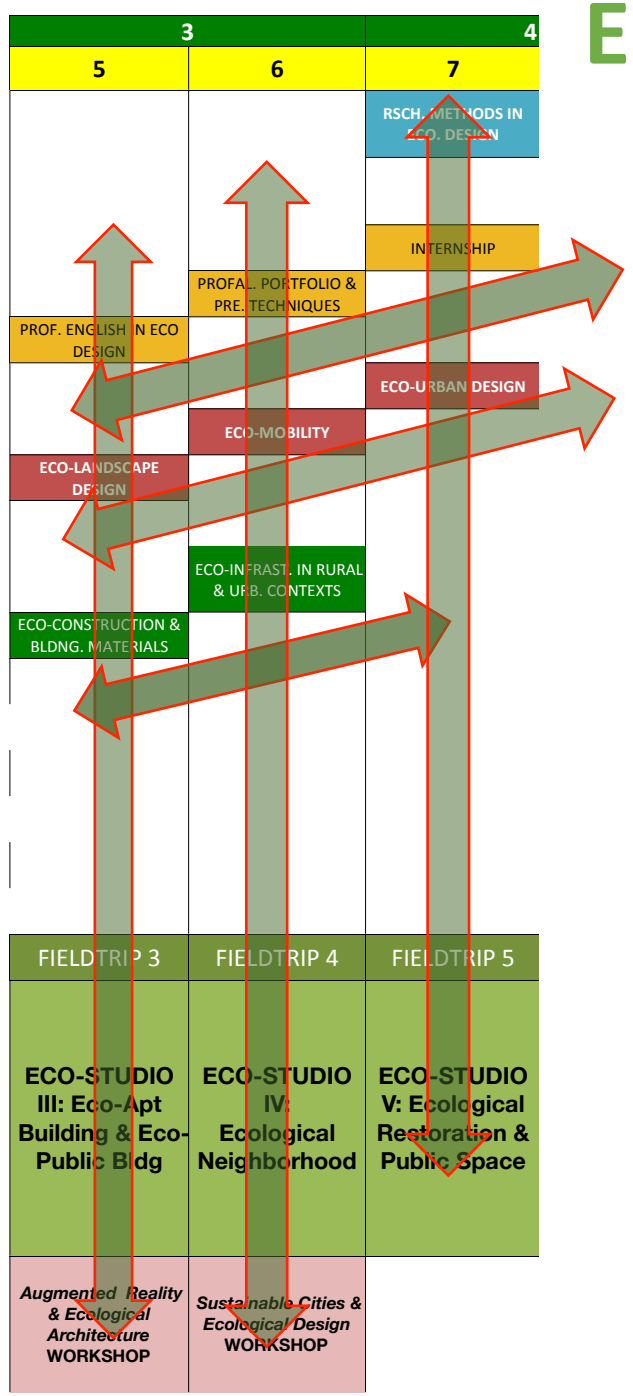
Curriculum Coordinator: Dr. Ernesto Valero Thomas

YEAR	1		2		3		4			
SEMESTER	1	2	3	4	5	6	7	8	NUMBER OF CREDITS PER AREA	
THESIS RESEARCH							RSCH. METHODS IN ECO. DESIGN	THESIS PROJECT COMPLETION	8	16
									8	
BRANDING, MANAGEMENT & PORTFOLIO							INTERNSHIP		6	10
						PROFAL. PORTFOLIO & PRE. TECHNIQUES			2	
					PROF. ENGLISH IN ECO DESIGN				2	
THINKING IN SYSTEMS							ECO-URBAN DESIGN		2	8
						ECO-MOBILITY			2	
					ECO-LANDSCAPE DESIGN				2	
				HUMAN FACTORS IN ENVL. DESIGN					2	
STRUCTURES & ECOSYSTEMS						ECO-INFRAST. IN RURAL & URB. CONTEXTS			2	8
					ECO-CONSTRUCTION & BLDNG. MATERIALS				2	
				LOW-CARBON ARCHITECTURE					2	
			ECO-SYSTEMS PRINCIPLES						2	
VISUAL NARRATIVES				VISUAL REPRESENTATION II					2	4
			VISUAL REPRESENTATION I						2	
HISTORICAL THINKING				THEORY AND HISTORY OF ARCH. & CITIES					2	4
			THEORY AND HISTORY OF ARCH						2	
ECO-STUDIO PROJECTS		EAD EXPERIENCE PROJECT Eco-Flower	FIELDTRIP 1	FIELDTRIP 2	FIELDTRIP 3	FIELDTRIP 4	FIELDTRIP 5		50	50
			ECO-STUDIO I: Eco-Room & Eco-Apartment	ECO-STUDIO II: Eco-House & Eco-Village	ECO-STUDIO III: Eco-Apt Building & Eco-Public Bldg	ECO-STUDIO IV: Ecological Neighborhood	ECO-STUDIO V: Ecological Restoration & Public Space			
EAD MASTERS LECTURES & VERTICAL WORKSHOPS			*Form, Function & Emotion* WORKSHOP	*Learning and Designing with Nature* WORKSHOP	*Augmented Reality & Ecological Architecture* WORKSHOP	*Sustainable Cities & Ecological Design* WORKSHOP			4	4

THESIS PROJECT COMPLETION *10 weeks semester



5 Content coordination across each semester

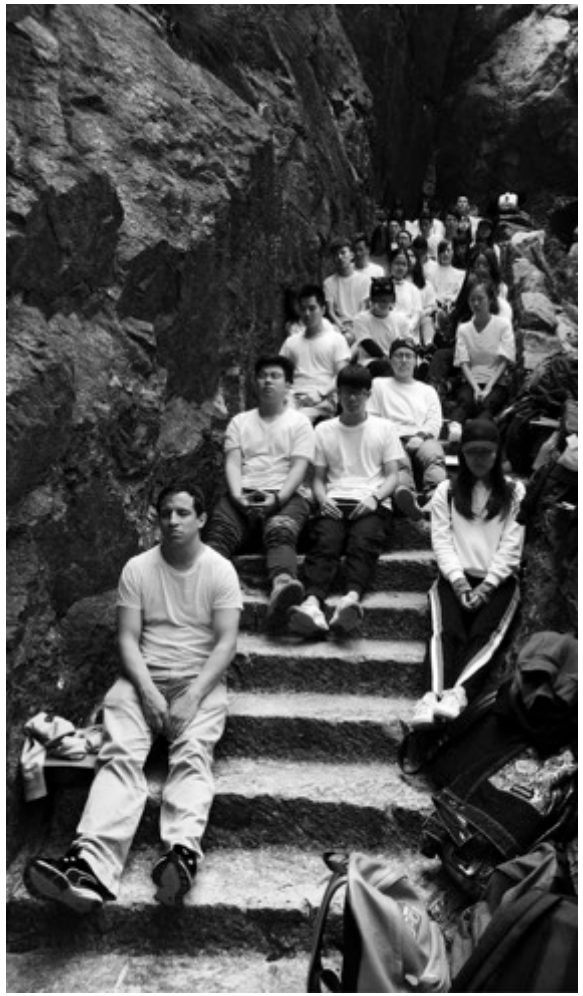
5 每学期课程内容相互协调

教育理念 TEACHING PHILOSOPHY

ACADEMIC FIELDTRIPS

September 2017: Huangshan Mountains

2017年9月教学考察：黄山



教育理念 TEACHING PHILOSOPHY

ACADEMIC FIELDTRIPS
September 2016: Tokyo, Japan

教育理念 TEACHING PHILOSOPHY

INTERNATIONAL COOPERATION
Sino-German Urban Planning Studios

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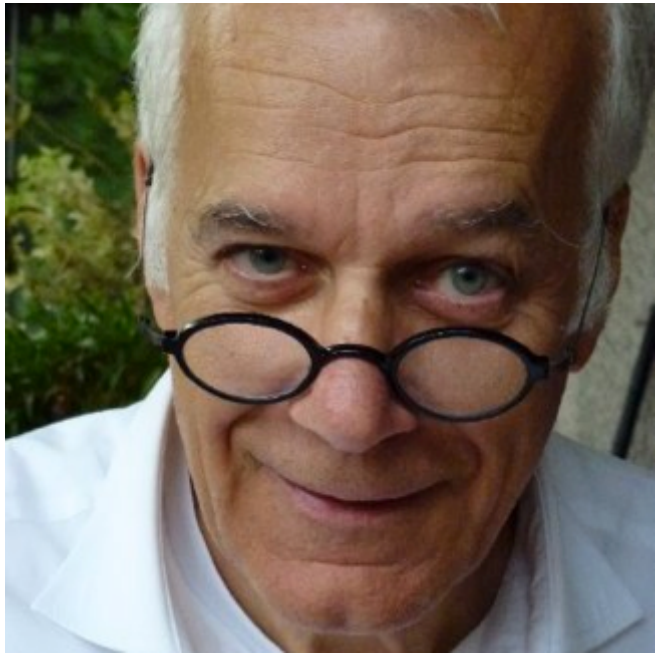
E A D

Fourth Year Thesis Project Theme:

'Designed in China: Ecological Guidelines for Sustainable Projects in Architecture and Urban Design'

大四毕业设计主题:

中国设计: 建筑和城市设计可持续项目的生态指南



Professor Alexander J Schmidt

Professor Haim Dotan

Dr. Ernesto Valero Thomas

FINAL DEFENSE OF THESIS PROJECT

4 Teaching Management

教学管理

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E A D
ECOLOGICAL ARCHITECTURE DESIGN

上海视觉艺术学院 Shanghai Institute of Visual Arts

Design Criteria and Evaluation of 4th YEAR FINAL THESIS PROJECT

STUDENT NAME	THESIS TITLE	DATE

AREA	CRITERIA	FAIL	ADDITIONAL EXAM	BASIC	GOOD	OUTSTANDING	GRADE	REMARKS
		F	D	C	B	A		
1. THESIS GOAL AND DESIGN OPPORTUNITIES 10%	Thesis statemen: WHAT is your Thesis?							
	Thesis question: WHY do you propose this project?							
	Hypothesis: HOW can you help the city-landscape-users with your proposal? What is the contribution to society?							
2: RESEARCH: CONTEXT ANALYSIS_LITERATURE REVIEW _SUMARY OF INTERVIEWS 25%	Explanation of the context: WHERE IS IT?							
	WHO are the users/clients/citizens of your project							
	Literature review using a range of sources							
	Summary of the interviews with experts							
3: ENVIRONMENTAL AND ECOLOGICAL SYSTEMS 25%	Does the energy concept of the project consider the flows of water, sun light, wind, waste, and proper orientation?							
	Relationship with landscape_topography, bodies of water_existing vegetation_urban structure							
	Use of low-impact contruction materials and structures							
	Sustainable technologies and strategies to provide city-landscape with energy-efficient architectural spaces							
4: ECOLOGICAL ARCHITECTURE AND URBAN DESIGN 30%	Overall function of proposal_How efficient is configuration of the spaces? Do the spaces work together in harmony?							
	Architectural program_study of areas in m2, proportions, heights, atmospheres, Do the spaces offer solutions to the initial problem of the city or landscape?							
	Innovative vision and creativity in the proposal of sustainable spaces							
	Does the design include an interpretation of Chinese culture and heritage							
5: PRESENTATION 10%	Digital Presentation: Including videos and animations							
	Composition of minimum one A0 panel: including plans/sections/facades/sketches							
	Models: Quality of Physical Model and 3D renders (computer aid or hand-drawn)							
	Official Word document for SIVA-DETAO							

Student comments	
Student Problems	
Student Achievements	
Evaluation of Teachers	
Teacher name and signature	

STANDARD EVALUATION SYSTEM
标准评价体系

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Design Criteria and Evaluation of 4th YEAR FINAL THESIS PROJECT

Design Criteria and Evaluation of 4th YEAR FINAL THESIS PROJECT

NAME	TASK	PANELS	CRITERIA	FAIL 40	ADDITIONAL EXAM 50	BASIC 60	GOOD 80	OUTSTANDING 100	Evaluation
NAME OF STUDENT	FINAL SUBMISSION NOV 4th 2019 50%	PANEL 1 A1 (60 cm by 90 cm)	USE OF THE 12 VARIABLES OF SUSTAINABLE URBAN ANALYSIS (7D's and 5 urban atmospheres)				/	/	90
			Masterplan integration with the other teammates' projects				/	/	90
			Use of low-impact construction materials and sustainable technologies (reviewed in class)				/	/	90
			Who are the users? Characteristics of the citizens that will use your spaces. How many? Why?				/	/	90
		PANEL 2 A1 (60 cm by 90 cm)	ARCHITECTURAL PROGRAM (number of activities, how many m2 per activity, how many people per space)					/	100
			ARCHITECTURAL DETAIL OF FACADES (materials, shading, windows)				/	/	90
			ARCHITECTURAL DETAIL OF PLANS (dimensions, areas, roofs)				/	/	90
			ARCHITECTURAL DETAIL OF SECTIONS (internal arrangements, heights, structure)				/	/	90
			CONSTRUCTION CRITERIA (columns, beams, floors, stairs, elevators)					/	100
		Physical MODEL scale 1:75	ARCHITECTURAL DETAIL IN THE PHYSICAL MODEL OF THE BUILDING windows, facades, construction materials, doors, roofs)					/	100
			Surrounding context (existing buildings, streets, rivers and landscape)					/	100
									93.64

COMMENTS: The project consideres a careful analysis of the context and the natural environment. The architectural program was carefully translated into architectural spaces. The representation of the project is very efficient in terms of drawings, plans, sections and physical model. The integration of algae cultivation into the facade is smart. It demonstrates an ecological understanding of public space

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Thesis Project Principles

Responsible Master	Professor Haim Dotan_Professor J Alexander Schmidt
Course leader	Dr Ernesto Valero Thomas
Workload	Workload: 144 hours | Credits: 8 | Theory: 144 hours | Practical: 0 hours | Semester 7
Prerequisites	All Projects and Seminars
CONTENT	Working with the advisors the student will develop a Thesis Proposal, a concise and specific statement, outlining an area of study, or a design problem that has consequences for contemporary architectural production. Students are encouraged to work with their advisors to identify a category, precedents, and potential sites to be further explored. This will be the basis of further independent investigation as part of the Thesis Research and the basis of the Thesis Studio. Identification of the Thesis category at this early stage is only preliminary and is not intended to be limited or determinative Working with the advisors the student will develop a Thesis Proposal, a concise and specific statement, outlining an area of study, or a design problem that has consequences for contemporary architectural production. Students are encouraged to work with their advisors to identify a category, precedents, and potential sites to be further explored. This will be the basis of further independent investigation as part of the Thesis Research and the basis of the Thesis Studio. Identification of the Thesis category at this early stage is only preliminary and is not intended to be limited or determinative
LEARNING OUTCOMES	LO 1 A Thesis should include research, program analysis and development, site analysis and selection, preliminary and schematic design as its basic scope.
	LO 2 The Thesis is largely an independent exercise allowing the student to explore his or her specific interests and to develop a unique voice
	LO 3 The goal of the Thesis Studio is a demonstration of the student's ability to apply critical thinking and design research skills to the development of an ecological design solution that moves through conceptual, schematic, development and technical stages of the application of the proposal. This application may take the form of a building, urban or site response, product, or other, and it is specified on the agreement of the Thesis Adviser and Student
	LO 4 The goal of Thesis Project Principles is the Thesis Program. It serves as the intellectual grounding of the work done in the Thesis Studio. Working from theory, humanities, history, cultural criticism, philosophy, music, art, etc., the successful thesis Program should challenge us to question our convictions about ecological architectural design and/or their related fields
Evaluation	**Project report with a comprehensive Thesis Topic, Description, and Research Schedule for the course Thesis Project completion**
Instruction and Learning Methods	studio work, desk critique, team and individual work
Course Material, Reading	https://living-future.org/
	http://www.breeam.com
	https://new.usgbc.org/leed
	http://www.ibec.or.jp/CASBEE/english/index.htm
	http://www.athenasmi.org/
	Edinburgh Architecture Research Journal (2013) Methodologies for Sustainable Projects, BK, Satish, Salome, Sally (Eds.) https://sites.eca.ed.ac.uk/ear/33-2013/
	http://www.drawdown.org/
	Muller, Brook. 2014. *Ecology and the Architectural Imagination*. New York, Routledge

STANDARD EVALUATION SYSTEM
标准评价体系

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SEMESTER SCHEDULE

WEEK	TOPIC OF LECTURE, WORKSHOP, EXERCISE	Date	Lecturer	Place	Time
WEEK 1	**Introduction to the Seminars_Opening Lecture and Introduction to Workshops**	**Monday, September 2nd**	Dr Thomas	Lecture Room_Big Eye	9:00 AM - 11:30 AM
WEEK 2	**Playing with Words: Connecting Early Concepts in the Research Process**	**Wednesday, September 11th**	EAD Studio	Lecture Room_Big Eye	9:00 AM - 11:30 AM
WEEK 3	**Narratives in the Research Process**	**Wednesday, September 18th**	TED Studio	Lecture Room_Big Eye	9:00 AM - 11:30 AM
WEEK 4	**Diagrammatic Thinking**	**Wednesday, September 25th**	Tecnoetics Studio	Lecture Room_Big Eye	9:00 AM - 11:30 AM
WEEK 5	**NATIONAL HOLIDAYS**	**No Class**			
WEEK 6	**Cross-Disciplinary Thinking & Documentation**	**Tuesday, October 9th**	EAD, TED, Technoetics	Lecture Room_Big Eye	9:00 AM - 11:30 AM
WEEK 7	**Documenting Words, Diagrams & Narratives**	**Tuesday, October 16th**	EAD, TED, Technoetics	Lecture Room_Big Eye	9:00 AM - 11:30 AM
WEEK 8	FINAL PROPOSAL PREPARATION & SUBMISSION				
WEEK 9					
WEEK 10					
WEEK 11	**LITERATURE REVIEW_CITY_selected texts_READING_SUMMARY_CITATIONS**				
WEEK 12	**LITERATURE REVIEW_ENERGY_selected texts_READING_SUMMARY_CITATIONS**				
WEEK 13	**LITERATURE REVIEW_METERIALS_SELECTED TEXTS_submission**				
WEEK 14	**ARCHITECTURAL PROGRAM REVIEW**				
WEEK 15	**FINAL ARCHITECTURAL PROGRAM FOR DESIGN INNOVATION_**The final conlusion of the program is based on FIVE 'W' QUESTIONS: What, Where, When, Why, Who+one 'H' QUESTION: How_SUBMISSION				
WEEK 16	**ENERGY CONCEPT_**The student should answer if the energy concept of the proposal considers carefully the flows of water, sun, light, wind, waste, and proper orientation_SUBMISSION				
WEEK 17	**FIELDTRIP DATA REVIEW_**Review of all of the five materials of fieldtrip, including video documentary and three interviews with experts_SUBMISSION				
WEEK 18	**FINAL REFLECTION OF THE COURSE**				
WEEK 19					

5 Achievements

教学成果

RESEARCH

FRIDAY OCTOBER 25

AIS CONFERENCE AMSTERDAM

15:00 - 16:00
SESSION 6

Thinking with eyes, hands and bodies: research processes in sustainable development & ecological design

PRESENTER
Ernesto Valero Thomas, DETAO-Shanghai Institute of Visual Arts (CN)

This paper serves as the framework of an experimental multidisciplinary workshop called *'Thinking with Eyes, Hands and Bodies: Research Processes in Sustainable Development & Ecological Design'*. How to provide participants with mixed methods of research from the arts, humanities, and sciences? The approach is thinking with words, stories, and diagrams.

Postcolonial polyphony: counterpoint and heterophony as travelling concepts in the humanities

PRESENTER
Wouter Capitain, University of Amsterdam (NL)

This paper examines the interdisciplinary travels of concepts between musicology and postcolonial studies. Based on an analysis of unpublished drafts of Edward

Learning interdisciplinary collaboration in the international setting: public policy students at the United Nations

PRESENTER
Lutz Krebs, Maastricht University (NL)

This paper proposes a didactic approach that leverages the interdisciplinarity nature of public policy as a mechanism to engender collaboration and mutual respect. It is set among a diverse student population at United Nations University, and examines effects on post-graduation behavior in an international and inter-cultural environment.

Searching for a place to stand: Teaching citizenship in a liberal arts and science context

PRESENTER
Daniela Vicherat Mattar, Leiden University College (NL)

Citizenship is a buzzing idea that contains the promise of "solving" existing social contradictions, at the local and global levels. Yet, as a concrete experience, its character is always fragmentary: what the concept of citizenship entails in theory

Dr. Heidi Upton shares strategies developed for a course at St. John's University that begins at home in NYC and culminates "away" in Rome. Participants will attend to ways of knowing that allow layers of knowledge to be perceived in the moment in urban space at home and abroad.

6.G

EXHIBITION TOUR

LOCATION Meet up at the Registration Desk

GUIDE
Cindy Iseli, University of Amsterdam (NL)

During the conference, there are several art-science projects displayed at different locations at the 'REC- A hall'. We will guide you to the projects below, where the artists or project leaders will present their work.

Rocas Memorial- Interactive memory place

ARTIST
José Luis Navarrete Rovano, Universidad de Valparaíso (CL)

A black and white film, shot in 1971, is the only audiovisual evidence of how summers were in the cabins of Rocas de Santo Do-

APRIL, 2018: Third and second year students are awarded with the First Prize in the competition *MAP THE SYSTEM, organized by the University of Oxford*
Topic: 'Urban Farming in Shanghai'
2018年4月：2-3年级学生作品"上海城市农场"
获牛津大学举办的MAP THE SYSTEM竞赛中国赛区一等奖

JANUARY, 2018: Fourth year students complete their professional internship in the international exhibition *TADAO ANDO: LEADING-One-Tenth Art Space*

2018年1月：4年级学生于“安藤忠雄-引领“艺术空间展览完成实习

谢谢！

THANK YOU！