

Chair for Information Architecture | FS2010

Elective Course Information Architecture

Introduction to Information Architecture

Prof Dr Gerhard Schmitt

February 22, 2010



Chair for Information Architecture

Overview

- Chair for Information Architecture
- INFORMATION Architecture
- Information ARCHITECTURE
- INFORMATION ARCHITECTURE
- Introduction Exercise

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Chair for Information Architecture | FS2010

Overview Lectures FS2010

Chair for Information Architecture

Prof Dr Gerhard Schmitt

Dipl Arch Gideon Aschwanden

Dr Remo Burkhard

Dipl Ing Jan Halatsch

Dipl Arch Anastasia Koltsova

Dipl Ing Antje Kunze

Dr Stefan Müller Arisona

MSc Christian Schneider

Admin Suzanne Coleman

Chair for Information Architecture | FS2010

General Information Lecture

Lecture | 12:45 - 13:30 | HIT H42

Participation 80% = 1 ECTS

Information Architecture and Future Cities

Simulating Urban Design Futures

Prof Dr Gerhard Schmitt

051-0724-10

General Information Exercise

Exercise | 13:45 - 17:00 | HIT H12

Participation 80% + accepted Project = 3 ECTS

Information Architecture and Future Cities

Projected Realities -

ich glaube nur was ich sehe

Christian Schneider

051-0726-10

Chair for Information Architecture | FS2010

General Information Intensive Course

Intensive Course | 8:00 - 12:00 | HIT H12

Participation 80% + accepted Project + written exam = 6 ECTS

Information Architecture and Future Cities

New Methods in Urban Simulation

Jan Halatsch

063-1358-10

Overview Lectures

L1	22-02	Introduction to Information Architecture
L2	01-03	Excursion Biblioteca Werner Oechslin
L3	08-03	History of Information Architecture
L4	15-03	Visualising Complexity
	22-03	Seminarweek
L5	29-03	Theory, Experiment, and Simulation
L6	12-04	Design, Modelling, and Simulation
L7	19-04	Analysis, Prediction, and Simulation
L8	26-04	New Methods in Architectural and Urban Simulation
L9	03-05	Guest Ch Derix, Aedas Computational Design
L10	10-05	Guest T Caro, Foundation for Global Sustainability
L11	17-05	Guest B Tuncer, Delft University of Technology
L12	24-05	Presentation Student Work

Overview Lectures

Note: Monday, March 1, 2010 | 13:00 – 17:00

Excursion to the Biblioteca Werner Oechslin

Transport by bus

13:00 Meeting point at the orange sign 'SCIENCE CITY INFOSPOT' outside the HIL-building.

Contact:

Suzanne Coleman, coleman@arch.ethz.ch, + 41 44 633 29 20

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Introduction Information Architecture

Information Architecture

INFORMATION Architecture or Information ARCHITECTURE?

Jantar Mantar, Astronomical Observatories of Jai Singh II, built between 1727 and 1734

Information Architecture

1 INFORMATION Architecture

Metaphors and principles of physical architecture **applied to** digital data and information **creates** an architecture of information, using **information as raw material**.

2 Information ARCHITECTURE

Making the invisible visible in the form of digital information **applied to** physical architecture to better understand and design physical architecture.

1 INFORMATION Architecture

Architecture

Requires thoughtful analysis to manifest thoughtful synthesis (design).

The Architecture of Information

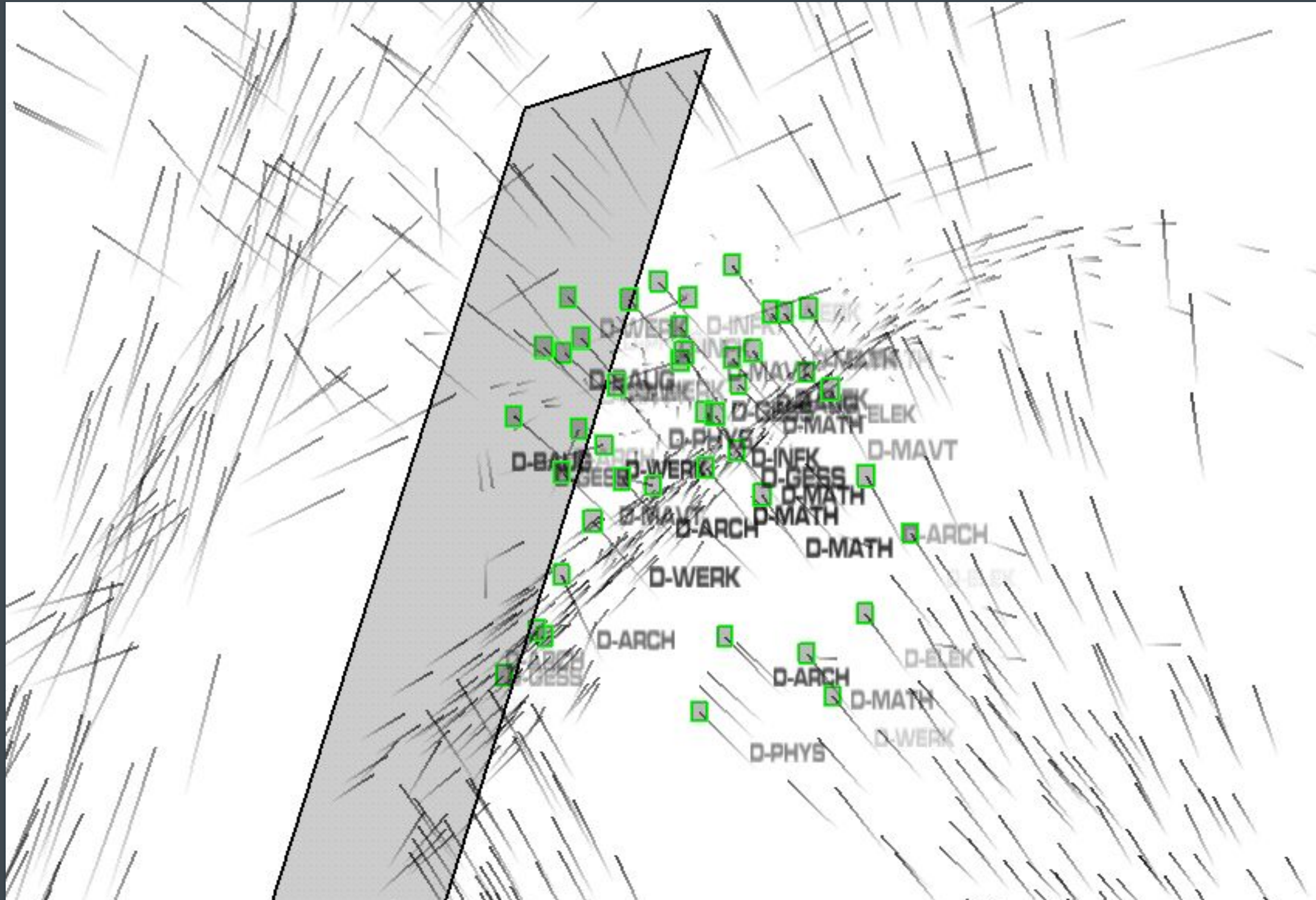
Design of a structure or the organisation of information.

1 INFORMATION Architecture

The Architecture of Information

,INFORMATION Architecture' expands the definition of architecture to areas outside the traditional realm.

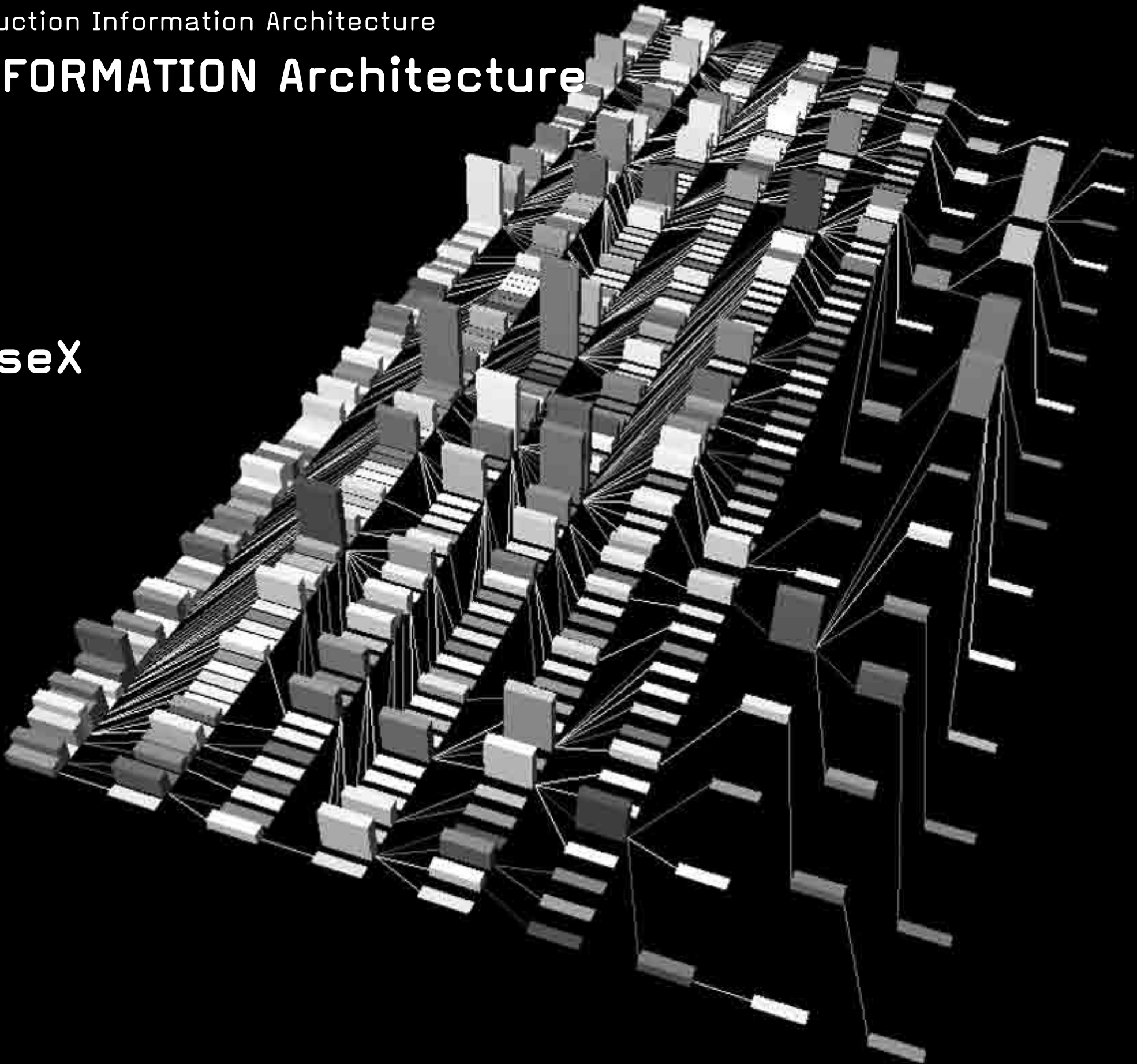
,INFORMATION Architecture' uses architectural metaphors for better structuring, understanding and communicating information.



Introduction Information Architecture

1 INFORMATION Architecture

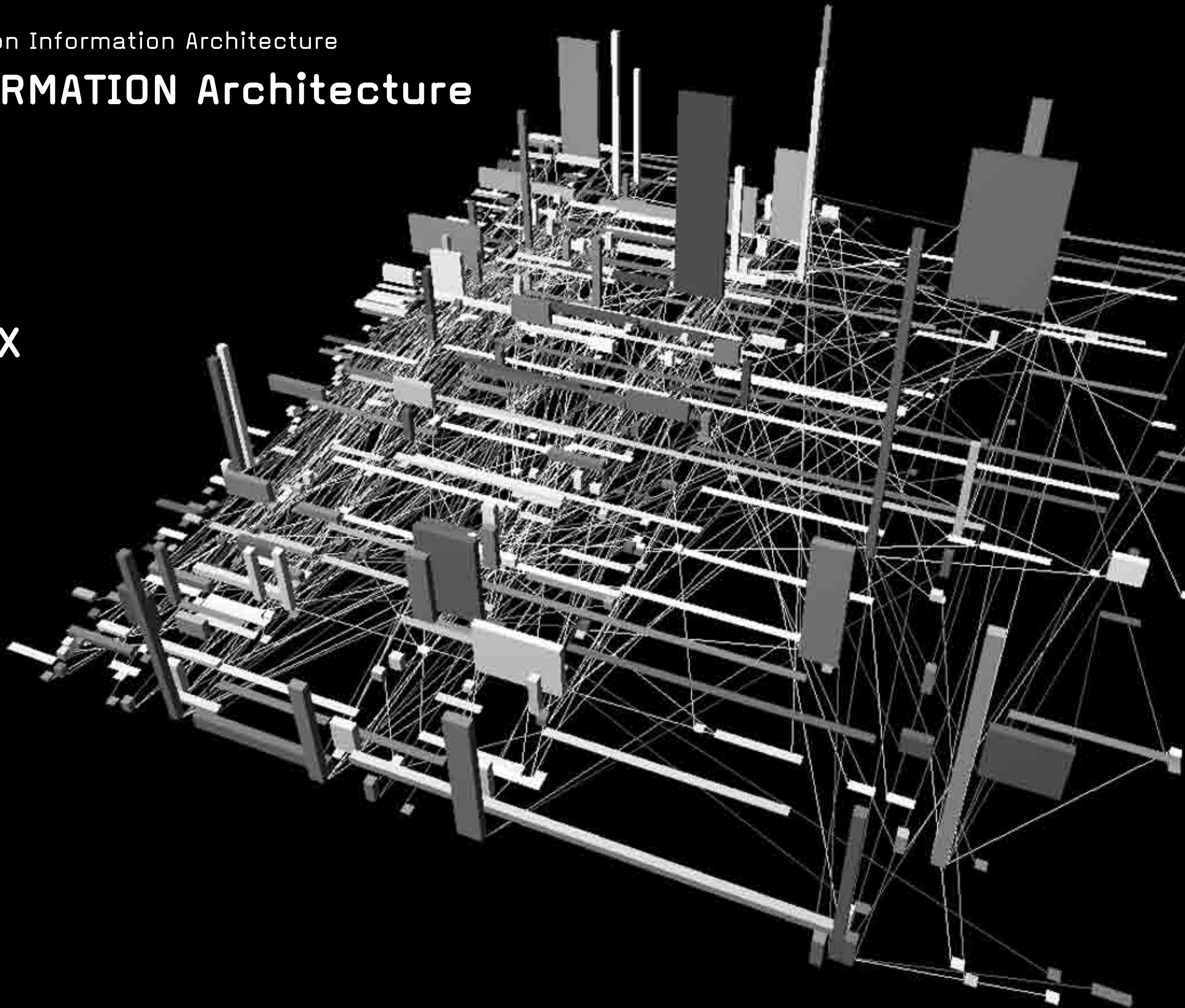
PhaseX

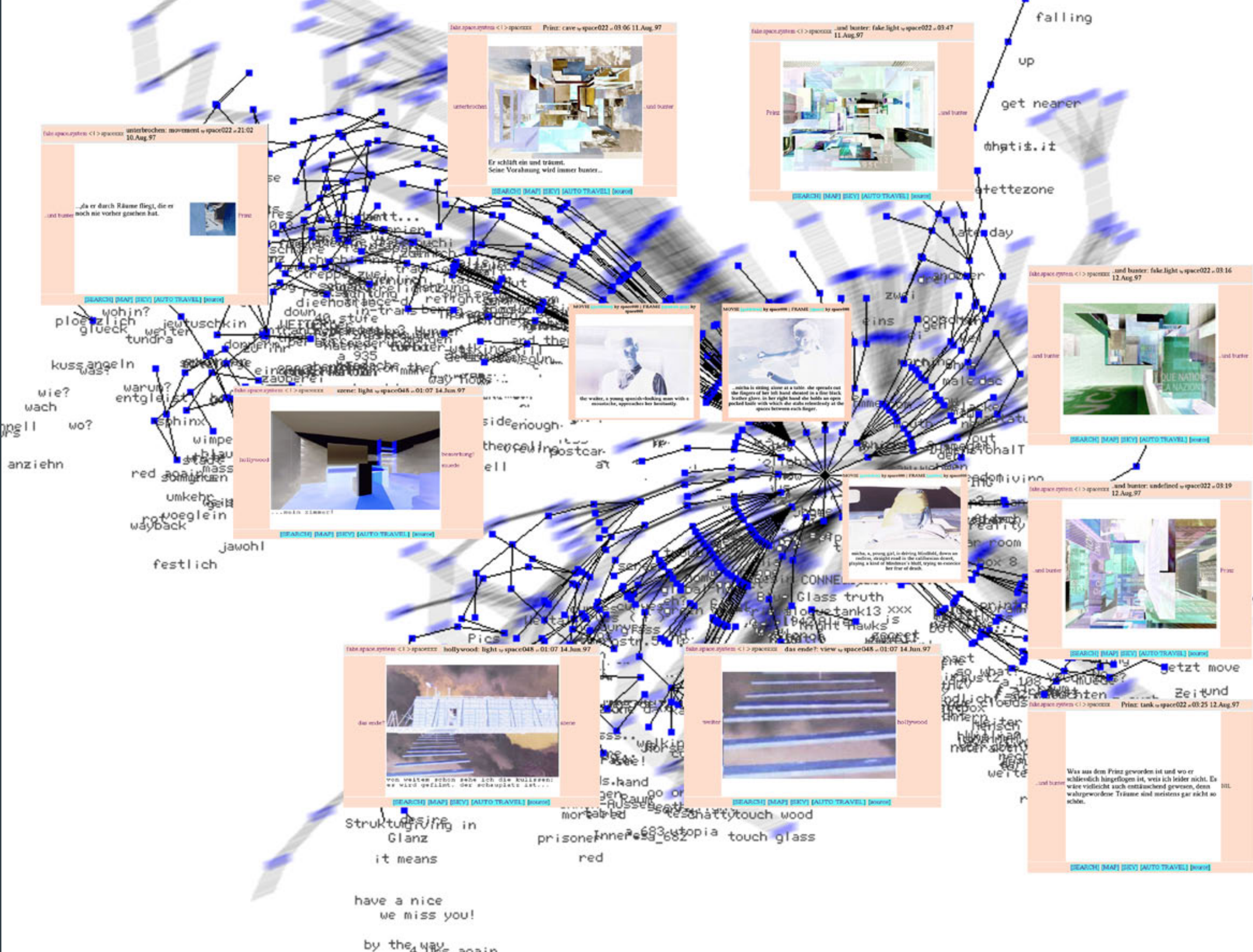


Introduction Information Architecture

1 INFORMATION Architecture

PhaseX





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2 Information ARCHITECTURE

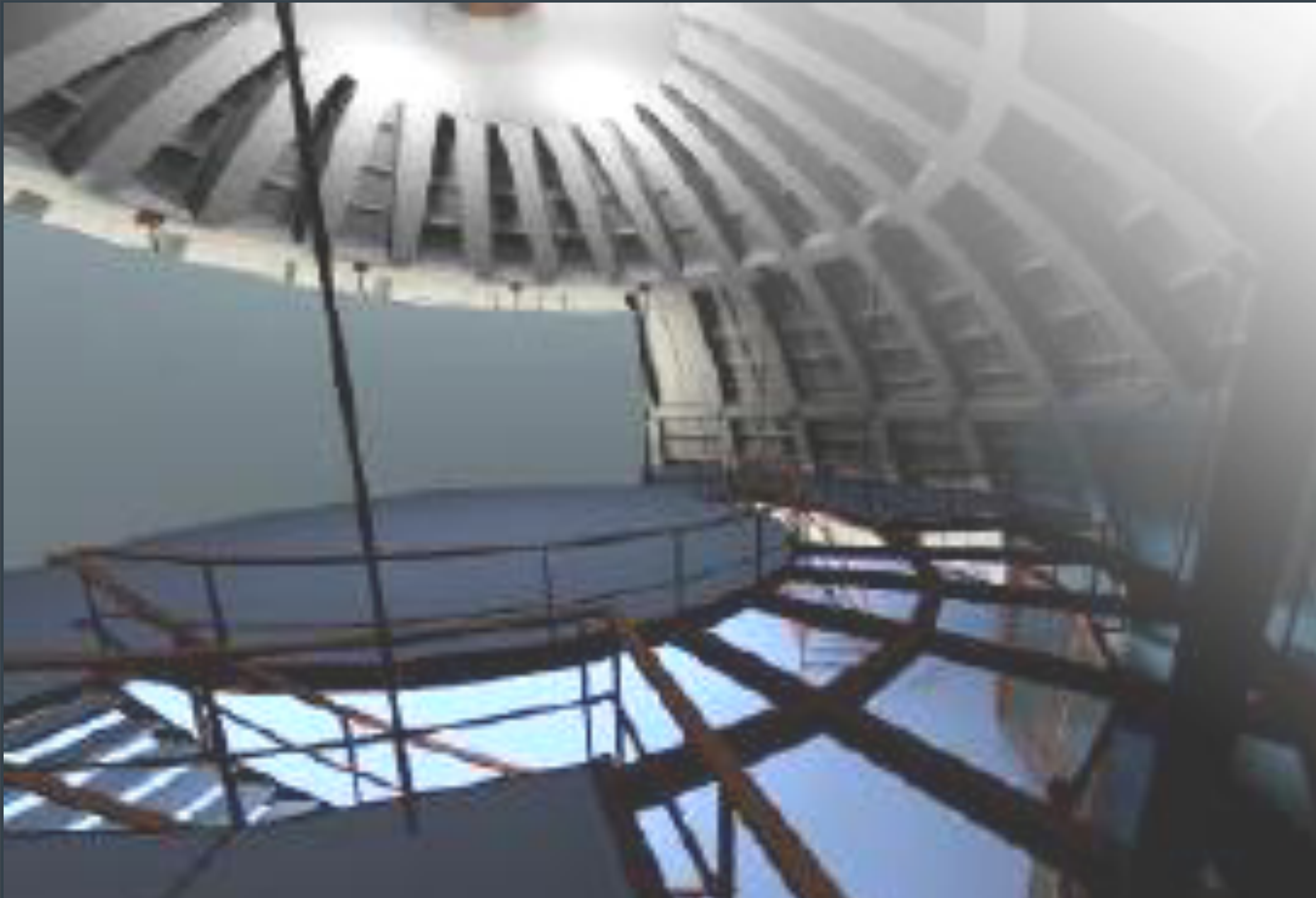
,Information ARCHITECTURE' uses simulation for more than creating images or artefacts based on geometric constraints, rules, or cases.

Rather, non-geometric factors such as light, energy, structure, behaviour or systems knowledge become available for integrated direct modelling.

Formalise and generalise design principles

Introduction Information Architecture

Information ARCHITECTURE



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Introduction Information Architecture

1 INFORMATION ARCHITECTURE



Assignment

Send 1 Image of Information ARCHITECTURE or
INFORMATION Architecture with your name to

koltsova@arch.ethz.ch

until March 3, 2010, and describe the reason for the
choice

From Data to Information to Knowledge

Data is unprocessed facts and figures without any added interpretation or analysis.

Information is data that has been interpreted so that it has meaning for the user.

Knowledge is a combination of information, experience and insight that may be of benefit.

INFORMATION ARCHITECTURE

Thinking INFORMATION as a raw MATERIAL



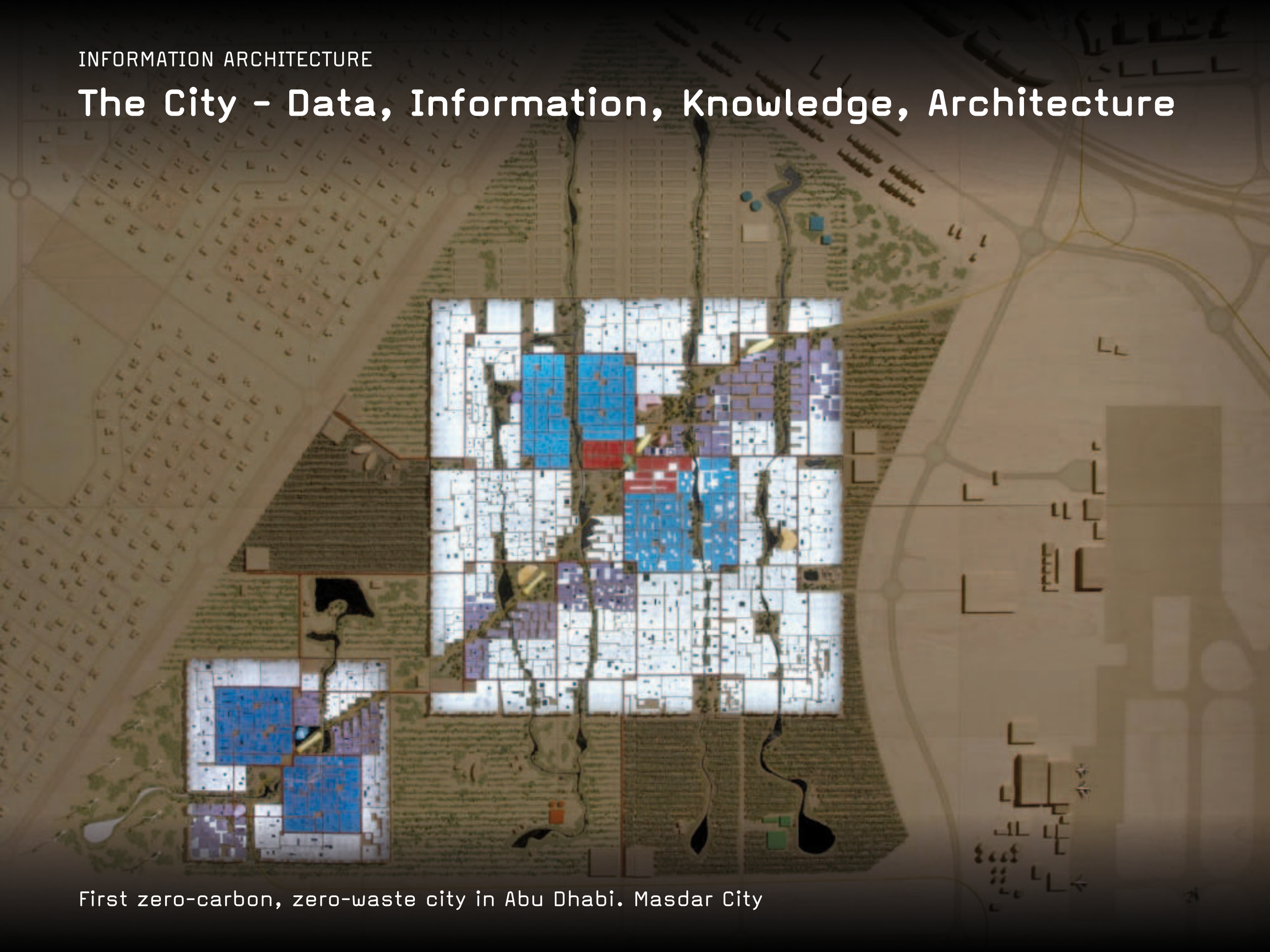
Anzahl 1-Zimmerwohnungen			Anzahl 2-Zimmerwohnungen			Anzahl 3-Zimmerwohnungen			Anzahl 4-Zimmerwohnungen			Anzahl 5-Zimmerwohnungen			Anzahl 6-Zimmerwohnungen		
8-(und mehr) Zimmerwohnungen			Anzahl sep. Wohn./Suite														
249542.1	09208	Kreis 9 Altstetten	1978	Gesch./Stftshaus	Bj²rogeb./Sude	Bj²rogeb./Sude	482.00	482.00	0.00	6050.00	0	0	0	0	0	0	0
249656.9	09208	Kreis 9 Altstetten	1978	Bj²rogeb./Sude	Bj²rogeb./Sude	Bj²rogeb./Sude	4569.00	1591.00	0.00	53866.00	5	0	0	0	4	1	
249598.5	09208	Kreis 9 Altstetten	1950	übrige Kleingeb./Sude	Sonstige Hochbauten	Sonstige Nichtwohngeb./Sude	0.00	672.00	0.00	2000.00	0	0	0	0	0	0	
249592.0	09208	Kreis 9 Altstetten	1944	übrige Kleingeb./Sude	Sonstige Hochbauten	Sonstige Nichtwohngeb./Sude	0.00	105.00	0.00	375.00	0	0	0	0	0	0	
249589.2	09208	Kreis 9 Altstetten	1970	übrige Kleingeb./Sude	Sonstige Hochbauten	Sonstige Nichtwohngeb./Sude	0.00	46.00	0.00	130.00	0	0	0	0	0	0	
249588.0	09208	Kreis 9 Altstetten	1965	übrige Kleingeb./Sude	Sonstige Hochbauten	Sonstige Nichtwohngeb./Sude	0.00	204.00	52.00	800.00	0	0	0	0	0	0	
249596.0	09208	Kreis 9 Altstetten	1960	"Lager, Silo"	"Beh./Siter, Silos, Lagergeb./Sude"	Industrie- und Lagergeb./Sude	0.00	285.00	0.00	1500.00	0	0	0	0	0	0	
249597.5	09208	Kreis 9 Altstetten	1945	"Lager, Silo"	"Beh./Siter, Silos, Lagergeb./Sude"	Industrie- und Lagergeb./Sude	0.00	288.00	0.00	1000.00	0	0	0	0	0	0	
249613.0	09208	Kreis 9 Altstetten	1991	übriges Geb./Sude f./r Industrie	Industriegeb./Sude	Industrie- und Lagergeb./Sude	0.00	22.00	0.00	55.00	0	0	0	0	0	0	
249699.5	09208	Kreis 9 Altstetten	1991	übriges Geb./Sude f./r Industrie	Industriegeb./Sude	Industrie- und Lagergeb./Sude	0.00	22.00	0.00	40.00	0	0	0	0	0	0	
249628.0	09208	Kreis 9 Altstetten	1991	Bj²rogeb./Sude	Bj²rogeb./Sude	Bj²rogeb./Sude	0.00	509.00	0.00	5430.00	0	0	0	0	0	0	0
249672.7	09208	Kreis 9 Altstetten	1978	Bj²rogeb./Sude	Bj²rogeb./Sude	Bj²rogeb./Sude	7488.00	4900.00	622.00	192634.00	0	0	0	0	0	0	0
249598.0	09208	Kreis 9 Altstetten	1950	"Lager, Silo"	"Beh./Siter, Silos, Lagergeb./Sude"	Industrie- und Lagergeb./Sude	0.00	460.00	0.00	2120.00	0	0	0	0	0	0	
249619.1	09208	Kreis 9 Altstetten	1955	übrige Kleingeb./Sude	Sonstige Hochbauten	Sonstige Nichtwohngeb./Sude	0.00	73.00	0.00	328.00	0	0	0	0	0	0	
249625.5	09208	Kreis 9 Altstetten	1950	"Lager, Silo"	"Beh./Siter, Silos, Lagergeb./Sude"	Industrie- und Lagergeb./Sude	0.00	238.00	46.00	900.00	0	0	0	0	0	0	
249639.0	09208	Kreis 9 Altstetten	1940	übrige Kleingeb./Sude	Sonstige Hochbauten	Sonstige Nichtwohngeb./Sude	0.00	26.00	0.00	100.00	0	0	0	0	0	0	
249640.2	09208	Kreis 9 Altstetten	1945	übrige Kleingeb./Sude	Sonstige Hochbauten	Sonstige Nichtwohngeb./Sude	0.00	9.00	0.00	20.00	0	0	0	0	0	0	
249642.5	09208	Kreis 9 Altstetten	1950	übrige Kleingeb./Sude	Sonstige Hochbauten	Sonstige Nichtwohngeb./Sude	0.00	17.00	0.00	25.00	0	0	0	0	0	0	
249603.2	09208	Kreis 9 Altstetten	1984	Werkstattgeb./Sude	Industriegeb./Sude	Industrie- und Lagergeb./Sude	0.00	130.00	32.00	320.00	0	0	0	0	0	0	
249448.7	09208	Kreis 9 Altstetten	1999	Bahngeb./Sude	"Geb./Sude des Nachrichtenwesens, Bahnh./öfe"	Geb./Sude des Verkehrs- und Nachrichtenwesens	7345.00	7218.00									
249608.0	09208	Kreis 9 Altstetten	1986	Gesch./Stftshaus	Bj²rogeb./Sude	Bj²rogeb./Sude	1953.00	1560.00	0.00	37150.00	1	0	0	0	1	0	
249607.5	09208	Kreis 9 Altstetten	2003	Industriegeb./Sude	Industriegeb./Sude	Industrie- und Lagergeb./Sude	279.00	279.00	0.00	1939.00	0	0	0	0	0	0	
249628.4	09208	Kreis 9 Altstetten	2003	Industriegeb./Sude	Industriegeb./Sude	Industrie- und Lagergeb./Sude	3390.00	1613.00	463.00	47011.00	0	0	0	0	0	0	
249630.4	09208	Kreis 9 Altstetten	2007	Gross- und Einzelhandelsgeb./Sude	Gross- und Einzelhandelsgeb./Sude	Gross- und Einzelhandelsgeb./Sude	0.00										
249522.5	09208	Kreis 9 Altstetten	1999	"Lager, Silo"	"Beh./Siter, Silos, Lagergeb./Sude"	Industrie- und Lagergeb./Sude	0.00	21.00	215.00	0.00	0	0	0	0	0	0	
249448.3	05201	Kreis 5 Escher Wyss	1980	"Lager, Silo"	"Beh./Siter, Silos, Lagergeb./Sude"	Industrie- und Lagergeb./Sude	17884.00	8818.00	7732.00	232146.00							
249466.1	05201	Kreis 5 Escher Wyss	1980	"Lager, Silo"	"Beh./Siter, Silos, Lagergeb./Sude"	Industrie- und Lagergeb./Sude	15.00	15.00	0.00	134.00	0	0	0	0	0	0	
249307.0	05201	Kreis 5 Escher Wyss	2000	übriges Geb./Sude f./r Industrie	Industriegeb./Sude	Industrie- und Lagergeb./Sude	0.00	30.00	0.00	220.00	0	0	0	0	0	0	
249636.1	09208	Kreis 9 Altstetten	1976	Gesch./Stftshaus	Bj²rogeb./Sude	Bj²rogeb./Sude	5671.00	5476.00	913.00	71220.00	1	0	0	0	0	0	1

INFORMATION ARCHITECTURE

Thinking INFORMATION as a raw MATERIAL

INFORMATION ARCHITECTURE

The City - Data, Information, Knowledge, Architecture



First zero-carbon, zero-waste city in Abu Dhabi. Masdar City

INFORMATION ARCHITECTURE

The City - Data, Information, Knowledge, Architecture



First zero-carbon, zero-waste city in Abu Dhabi. Masdar City

INFORMATION ARCHITECTURE

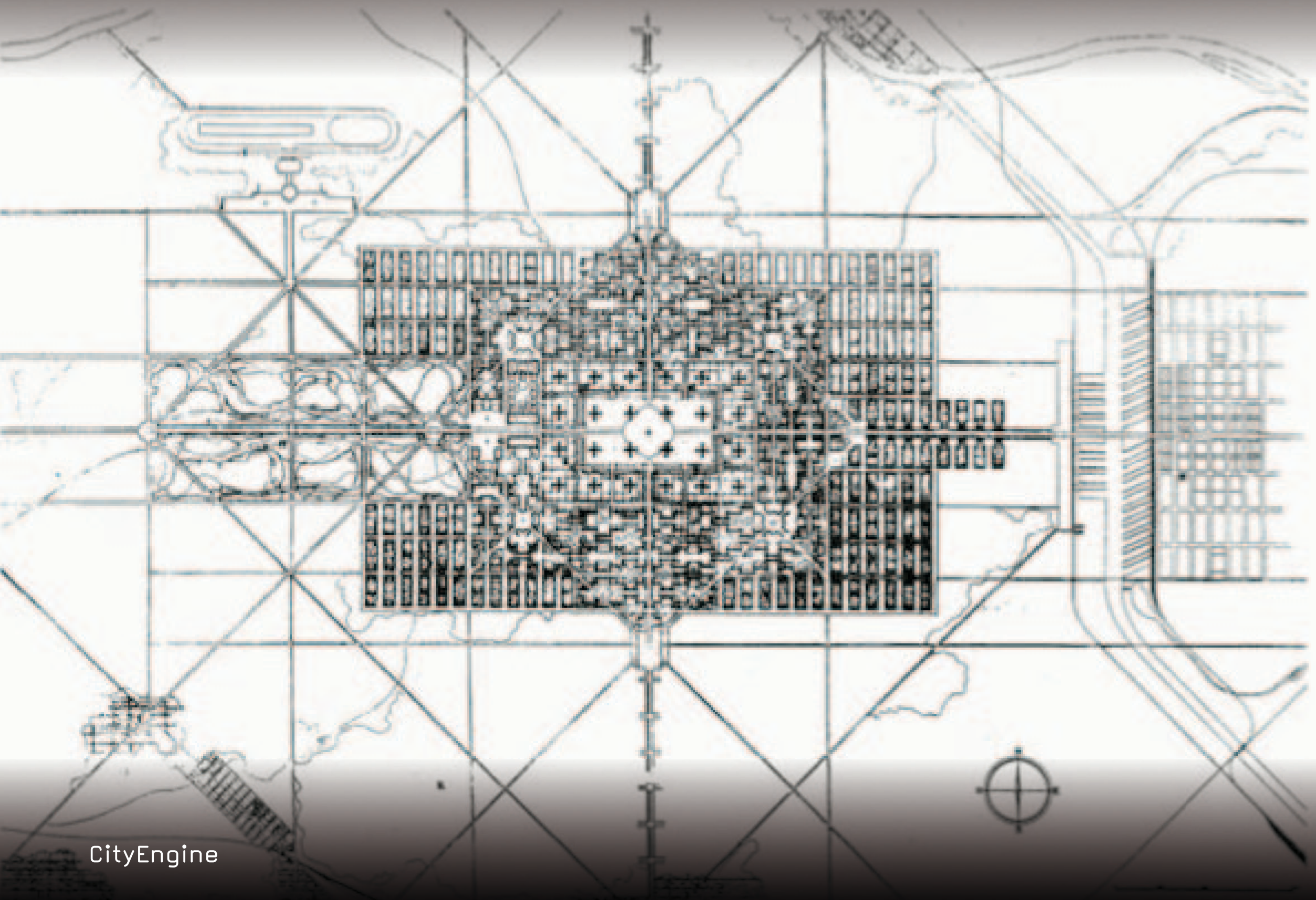
The City - Data, Information, Knowledge, Architecture



First zero-carbon, zero-waste city in Abu Dhabi. Masdar City

Projects

Tools for Planning Future Cities



CityEngine

Projects

Reduce Complexity



Samuel Smith

building activity and its impact on relocations

Workshop Visualise Urban Complexity

Projects

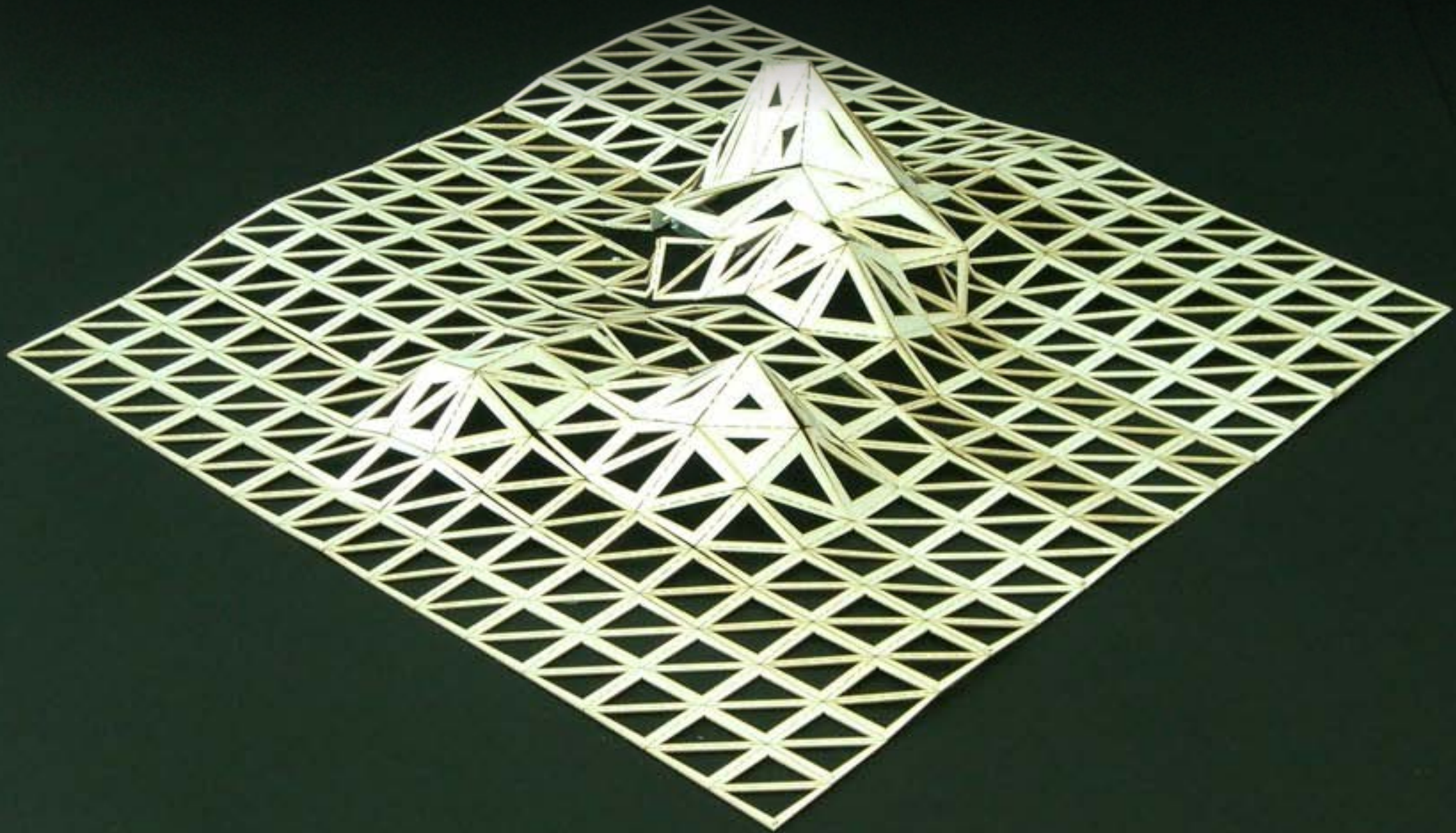
Bridging the Gap Between Digital and Physical



Workshop The sensitive Tapestry

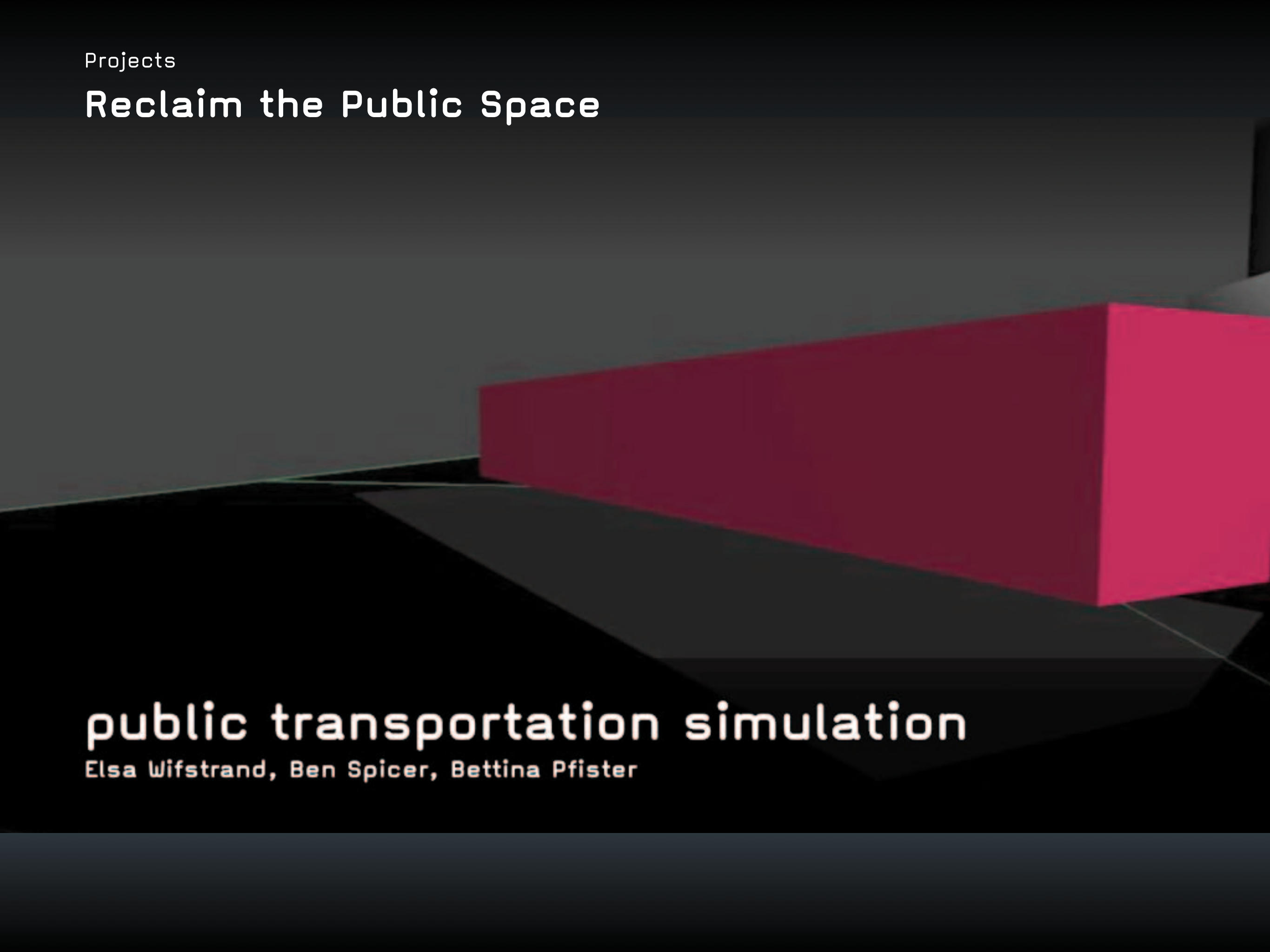
Projects

Materialise Information



Projects

Reclaim the Public Space

An abstract 3D rendering featuring a solid red rectangular block positioned on a dark, reflective surface. The block is oriented horizontally, and its reflection is visible on the surface below it. The background is a dark, gradient sky, and the overall scene is minimalist and modern.

public transportation simulation

Elsa Wifstrand, Ben Spicer, Bettina Pfister

Projects

Reclaim the Public Space



Overview

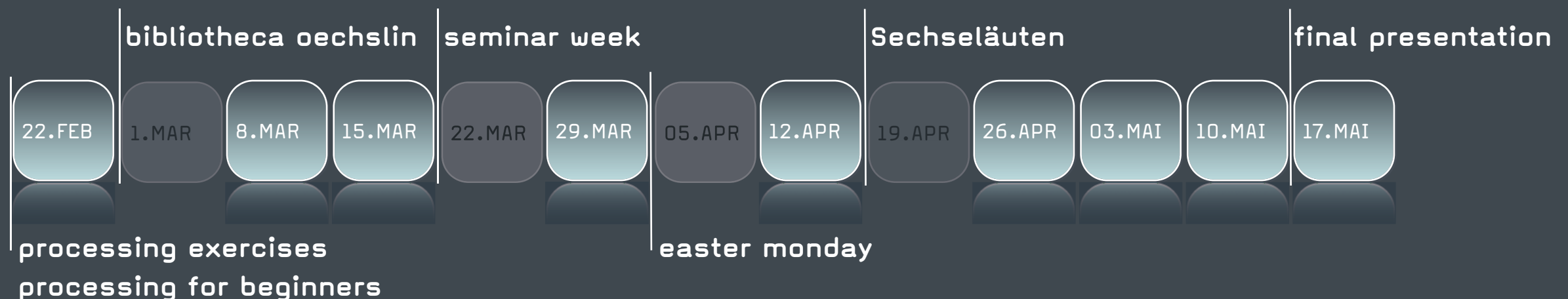
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Overview

- Questions
- Discussion

Information Architecture - Exercise

Course: 051-0726-10 (Elective Course Exercise, 3 ECTS)
Series: Projected Realities - Ich glaube nur was ich sehe
When: Mondays, 14:45 - 17:00
Where: HIT H12
Who: Christian Schneider, christian.schneider@arch.ethz.ch
Lukas Treyer, lukastreyer@student.ethz.ch
Web: <http://www.ia.arch.ethz.ch/teaching/fs2010-exercise/>



Schedule

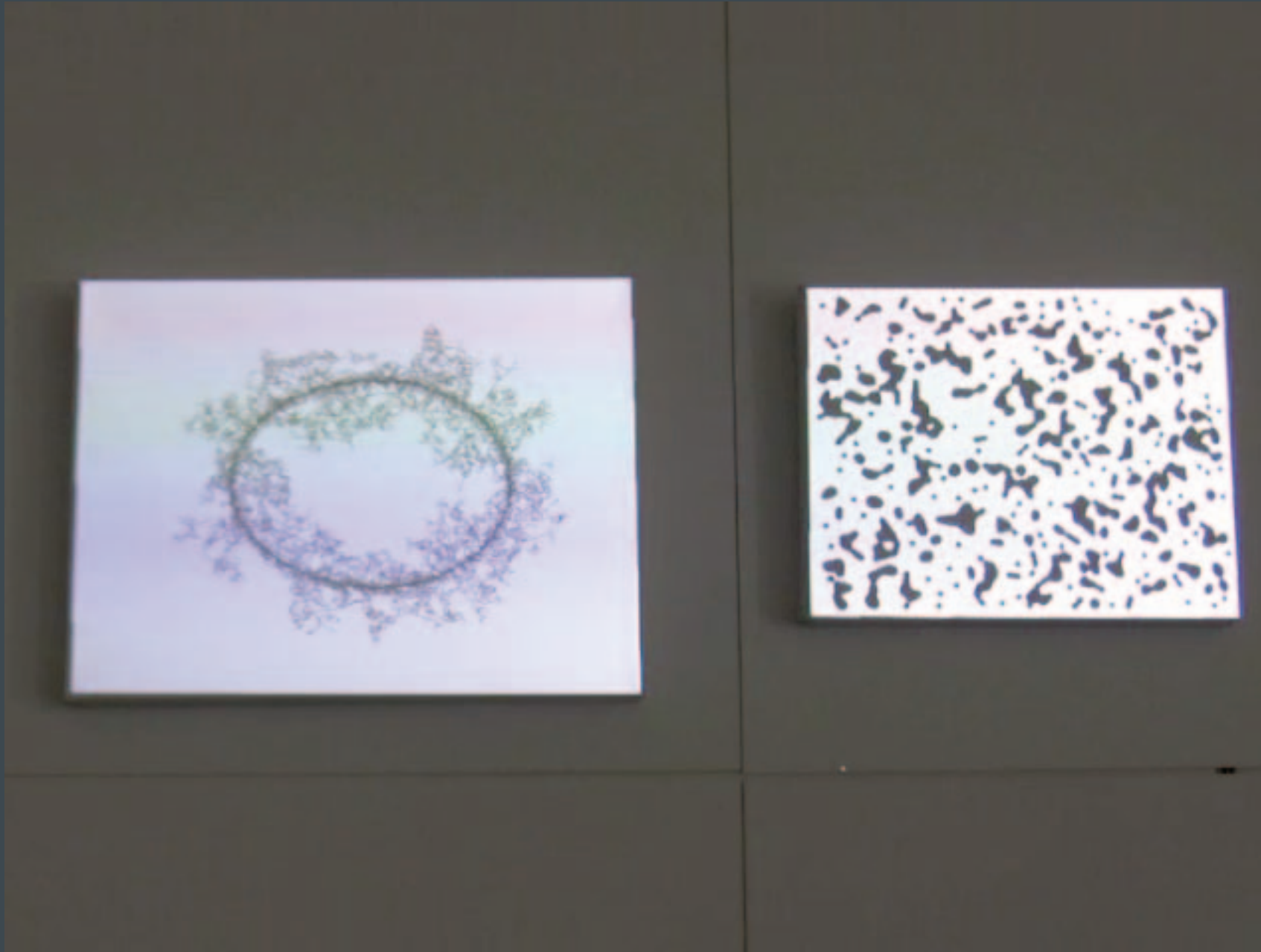
12:45-13.30 Lecture

13.45-14:30
Exercise

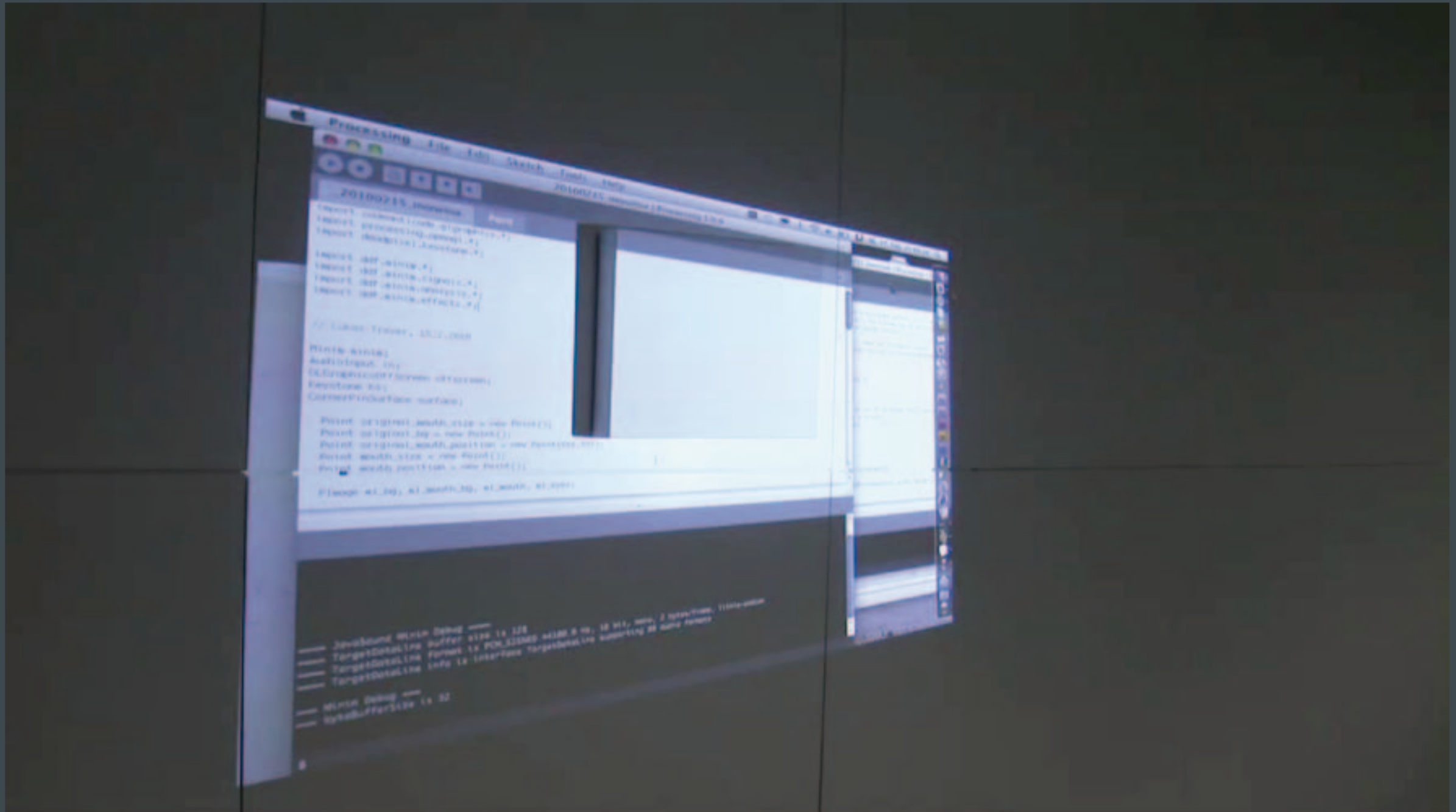
14:30-17.00
Processing

monday afternoons until seminar week

Projected Realities

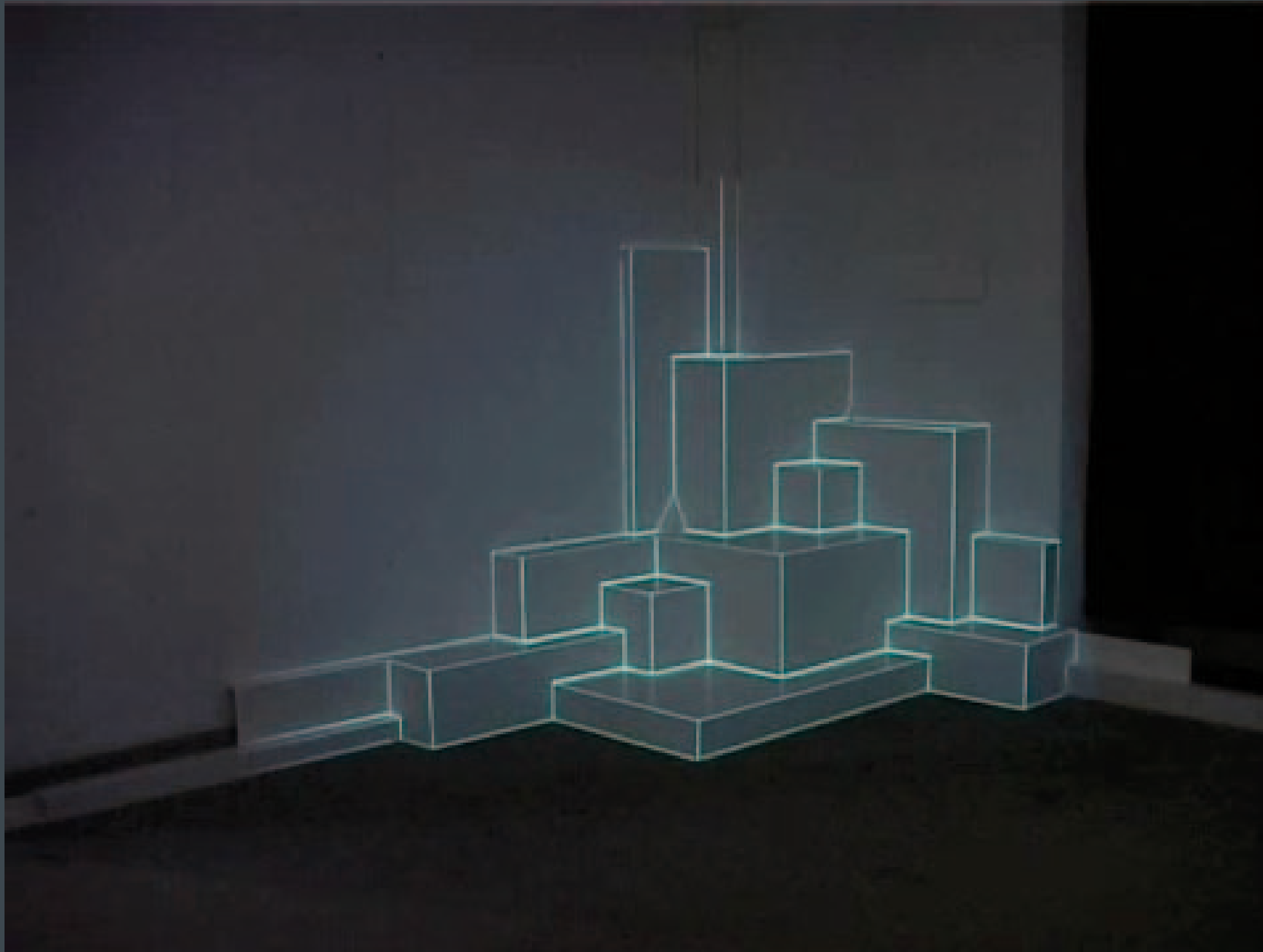


Projected Realities



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Augmented Sculpture, Pablo Valbuena



Chair for Information Architecture | FS2010

Sandtable, Redfish Group

Chair for Information Architecture | FS2010

555 KUBIK, facade projection

<http://vimeo.com/5595869>

Conclusion

- Information Architecture, IA, as a new field of research and learning
- Exercise:
- Next Monday: Excursion to the Bibliotheca Oechsliana in Einsiedeln. **Departure at 13:00**