



A global multidisciplinary network on
housing research and learning

A collaborative Learning Space to study mass housing in Europe. What approach to housing studies?

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Geaffil from Brazilian artist Oi Gameos, São Paulo

Contemporary living patterns in mass housing in Europe

ISCTE- University Institute of Lisbon, Portugal

This international workshop on **sustainable and collaborative housing design** is organized by the project **“OIKONET: a global multidisciplinary network on housing research and learning”**, co-financed by the European Union. The objective of the workshop will be to develop a cross-disciplinary dialogue aimed at finding answers to the meanings, ways and forms of contemporary living patterns of mass housing in Europe.

Two neighborhoods in Lisbon will be used as case studies: one which is representative of the formal mass housing – “Portela de Sacavém” – and, another one – “Bairro da Liberdade” – which is a typical neighbourhood of informal mass housing.

The overall housing design process will be addressed, starting **from participation and ending with digital fabrication**. Design strategies will be based on: Co-creation methods (community participation, participatory design theory and techniques, generative design research); Contemporary living patterns (social housing; housing and quality of life; domestic scenario; new ways of life; new family structures; the changing of demographic trends and new housing needs; energy efficiency and construction materials); and Digital tools CAD / CAM (parametric design, modular systems and digital fabrication).

The ultimate goal is to develop **an evolving housing design using prefabricated wood panels**, to re-adapt pre-existing dwellings to contemporary living patterns and to produce new incrementally built homes as a response to today's living conditions.

For more information please visit the website www.oikonet.org or contact: info@oikonet.org

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How to favour a significant approach to design in a foreign context?

How to address students with a different background?

A collaborative Learning Space to study mass housing in Europe. What approach to housing studies?

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Workspace: CONTEMPORARY LIVING PATTERNS

Date Start: 01 May 2014 Date End: 01 September 2014

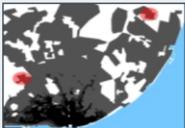
This Workspace aims to prepare the students who will participate in the Lisbon workshop in July 2014, by helping them get familiar to the project sites, and start reflecting on several themes that should guide a cross-disciplinary approach to design during the workshop.

The two Lisbon sites proposed for the workshop, Portela de Sacavém and Bairro da Liberdade, represent two different housing patterns. The first, designed in the 1960s follows an international model, characteristic of that period, from the points of view of form and the urban setting. The second is an informal, self-built area that raises questions about urban and living qualities brought about by the involvement of inhabitants in the design and construction of their own homes.

Based on the exploration of these two urban areas and on comparisons with similar case studies in Europe, this Workspace aims to help students start reflecting on how contemporary design solutions could be informed by these two contrasting housing patterns. In addition, it aims to introduce students to some of the contemporary paradigms their design solutions could build on: parametric design tools, architecture sustainability and performance and the experience of participatory processes in housing design.

Institutions participating in this workspace:
AF_Belgrade, University of Belgrade, Faculty of Architecture, ITU, Bialystok University of Technology, Gebze Institute of Technology, IUG, USI, AAU, UTH, BTU Cottbus, FA Slovak University of Technology, ISCTE - University Institute of Lisbon , ETS Arquitectura de Valencia, KU Leuven, Dublin Institute of Technology, ETS Arquitectura La Salle, University of Cyprus, Others

Selected student works in this Workspace:






OIKODOMOS Workspaces: A platform to support learning design

This learning environment supports project-based learning activities, such as the development of a project -architectural and/or urban- in a collaborative manner. It facilitates collaboration among distant learners who carry out joint learning activities in different settings (courses, seminars, design studios), both on-site and on-line (blended learning).

In the home page, both registered and non-registered users can navigate through the structure of learning activities and tasks. This way, non-registered users can better understand the context in which student works are produced. Also, external users can now add comments to the works which will be read by students and teachers.

If you need more information about the OIKODOMOS project, please visit the [web portal](http://web.portal) or write to project@oikodomos.org.

Please see here a [description](#) of the learning environment.



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1. THE WORKSPACE DESIGN PROCESS
2. THE WORKSPACE AS LEARNING TOOL
3. THE WORKSPACE AS COLLABORATION ENVIRONMENT

1. THE WORKSPACE DESIGN PROCESS

Organising themes



Figure 1 Portela de Sacavém, Lisbon

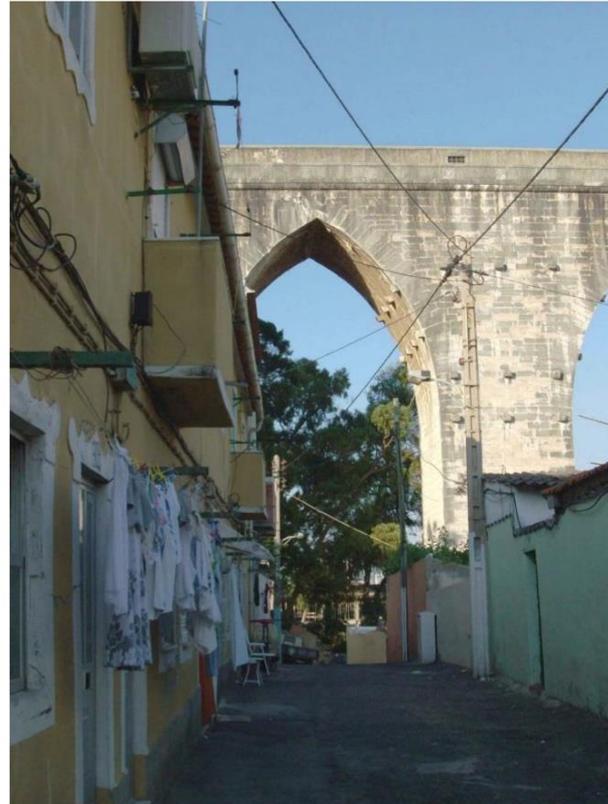


Figure 2. Bairro da Liberdade, Lisbon

1. THE WORKSPACE DESIGN PROCESS

Organising themes

“The design strategies will be based on: **Co-creation methods** (community participation, participatory design theory and techniques, generative design research); **Contemporary living patterns** (social housing; housing and quality of life; domestic scenario; new ways of life; new family structures; the changing of demographic trends and new housing needs; energy efficiency and construction materials); **and Digital tools CAD / CAM** (parametric design, modular systems, and digital fabrication).”

OIKODOMOS: WORKSPACES CONTEMPORARY LIVING PATTERNS

Home Calendar Participants Groups Learning Activities **Tasks** Sequences R

Task List

Order by: Id ▲ | Author ▲ | Date Start ▲ | Date End ▲ | Deliverables ▲ | Groups ▲

LA61 Urban and architectural analysis of the project sites in Lisbon

TK1 Historical context analysis: Portela de Sacavém, L... created by Diaconu, Adriana in 2014-05-19 to 2014-07-13

TK2 Urban context analysis: Portela de Sacavém and Bai... created by Diaconu, Adriana in 2014-05-19 to 2014-07-13

TK13 Figure Ground Mapping created by Ooms, Tomas in 2014-06-27 to 2014-07-12

LA62 Thematic reflections: Parametric design

TK3 Form principle analysis and schema creation created by Steinø, Nicolai in 2014-05-12 to 2014-07-30

LA63 Thematic reflections: Home and social change

TK4 Socio-demographic analysis of the two project sites... created by Diaconu, Adriana in 2014-06-02 to 2014-07-13

TK7 Lecture "Home and Social Change" created by Marques Pereira, Sandra in 2014-06-16 to 2014-07-13

TK8 Summary of the lecture created by Marques Pereira, Sandra in 2014-06-18 to 2014-07-13

LA64 Thematic reflections: Sustainable housing

TK9 Lecture "Sustainable housing design and performan... created by Rato, Vasco in 2014-06-09 to 2014-07-13

TK10 Reading report created by Rato, Vasco in 2014-06-11 to 2014-07-13

LA65 Thematic reflections: Participatory processes in housing design

TK11 Documentary "OPERATIONS SAAL", João Dias, 2... created by Paio, Alexandra in 2014-06-23 to 2014-07-10

TK12 Report based on the video and a similar case study... created by Paio, Alexandra in 2014-06-20 to 2014-07-13

TK14 Group presentation: Pre-workshop activities created by Diaconu, Adriana in 2014-07-10 to 2014-07-14

1. THE WORKSPACE DESIGN PROCESS

Organising time

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TIMETABLE WORKSPACE "CONTEMPORATY LIVING PATTERNS"											
Please fill in the yellow and blue rows. We need this information to plan the next collaborative activities. Deadline: 18/06											
Partner	Teachers	Week 1 5/05	Week 2 12/05	Week 3 19/05	Week 4 26/05	Week 5 2/06	Week 6 9/06	Week 7 16/06	Week 8 23/06		
P1 – LA SALLE	Leandro Madrazo, Angel Martin		TASK1.1&1.2	TASK1.1&1.2	TASK1.3	TASK1.3					
		Deadline deliverables uploaded		19/06/2014	25/06/2014						
				Yes	Yes						
P2 – ETSAV	Carla Sentieri			TASK1.1&1.2 & 1.3	TASK2.1& 2.2 & 2.3	TASK3.1 & 3.2	TASK 4.1 & 4.2	TASK 5.1&5.2			
		Deadline deliverables uploaded		19/06/2014	19/06/2014						
				Yes	Yes						
P3 – FASTU	Viera Joklova, Marian Malovany				TASK1.1& 1.2 & 1.3	TASK5.1 & 5.2					
		Deadline deliverables uploaded						TASK1.1 & 1.2 & 1.3	TASK5.1 & 5.2		

1. THE WORKSPACE DESIGN PROCESS

Organising time

Task	Week 3 19/05	Week 4 26/05	Week 5 2/06	Week 6 9/06	Week 7 16/06	Week 8 23/06
TK1	ETSAV, UCY, LA SALLE	FASTU	AAU	AAU, DIT		KU Leuven
TK2	ETSAV, IUG	FASTU, UCY, LA SALLE	AAU, UCY, LA SALLE	AAU, BUT		KU Leuven
TK13 (new task)						KU Leuven
TK3		ETSAV	AAU	AAU, BUT		KU Leuven
TK4	IUG	UCY	UCY		FASTU	
TK8	UCY	ISCTE	ETSAV		FASTU	KU Leuven
TK9			AAU	ETSAV, AAU, UCY, BUT, DIT, ISCTE		KU Leuven
TK10			AAU	ETSAV, AAU, UCY, BUT, DIT, ISCTE		KU Leuven
TK12			FASTU, ISCTE		ETSAV	UCY, KU Leuven

1. THE WORKSPACE DESIGN PROCESS

Tasks and Resources: Teachers' specific approaches to housing

OIKONET A global multidisciplinary network on housing research and learning

Partner	Planning Institute in Grenoble – IUG, Université Pierre-Mendès-France
Authors	Adriana Diaconu
Date	May 28 th , 2013
Workspace	CONTEMPORARY LIVING PATTERNS IN EUROPE
Learning Activity	LA61 Urban and architectural analysis of the project sites in Lisbon

TASK 2: URBAN CONTEXT ANALYSIS: PORTELA DE SACA VÉM AND BAIRRO DA LIBERDADE, LISBON



Excerpt: Plan of the city of Lisbon and Baitem, 1100

01 Description

This activity aims to reflect on the historical evolution of urban form. Students should identify the specificities of the original (natural) site and formulate explanatory hypothesis on the impact of these natural characteristics on the present urban form.

They should also analyse the role of important man-made elements and especially of infrastructure (roads, railway, motorway, viaduct, aqueduct, etc.) in the urbanization process and in shaping the present urban form.

02 Objectives

- Understanding the characteristics of the original (natural) site.
- Understanding the most important stages of urbanization of the city of Lisbon and identifying the traces that different stages of urbanization have left on the two sites.

Students should first identify the position of the two sites in relation to the original core of the city. Moreover, they should identify the old routes, obstacles and crossings and reflect on their role in the urbanization process and in shaping the present configuration of the two sites.

- Building explanatory hypothesis on urban morphology : How did natural and man-made elements influence to the present urban form (of streets, plots and buildings) on the two sites ?

These hypotheses have to be supported by proofs selected from the provided graphic documents and by arguments.

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Partner	University of Grenoble-Institut of Urban planning
Authors	Paulette Duarte
Date	May 31 th , 2014
Workspace	Contemporary living patterns in mass housing in Europe
Learning activity	LA63 Thematic reflections: Home and social change

TITLE: SOCIO-DEMOGRAPHIC ANALYSIS OF THE TWO PROJECT SITES IN LISBON



01 Description

The objective of this activity is to explore the social, demographic and economic changes in the Portuguese society that affect contemporary living. In this way, this activity will allow to reflect on contemporary living patterns in Portugal and in Lisbon in order to integrate these social aspects in the design process.

02 Objective

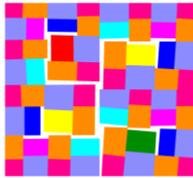
In order to understand the characteristics of the inhabitants of the two Lisbon districts proposed for the workshop, Portela de Sacavém and Bairro da Liberdade, students will realize a social, demographic and economic profile of the population using statistical data (Eurostat for Portugal, ine.pt for Lisbon and the two districts, etc.) and qualitative information.

Firstly, students will have to search for data concerning socio-demographic specificities and dynamics in Portugal (as compared to other European countries) and comment their findings. They can use, among other sources <http://ecpp.eurostat.ec.europa.eu>

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PARTNER	Aalborg University Architecture and Design
COURSE	Parametric Urban Design
AUTHOR	Nicolai Steina
DATE	May 12, 2014
WORKSPACE	CONTEMPORARY LIVING PATTERNS
LEARNING ACTIVITY	LA62 Thematic reflections: Parametric design

TASK 2.3: Form principle analysis and schemata creation



01 Description

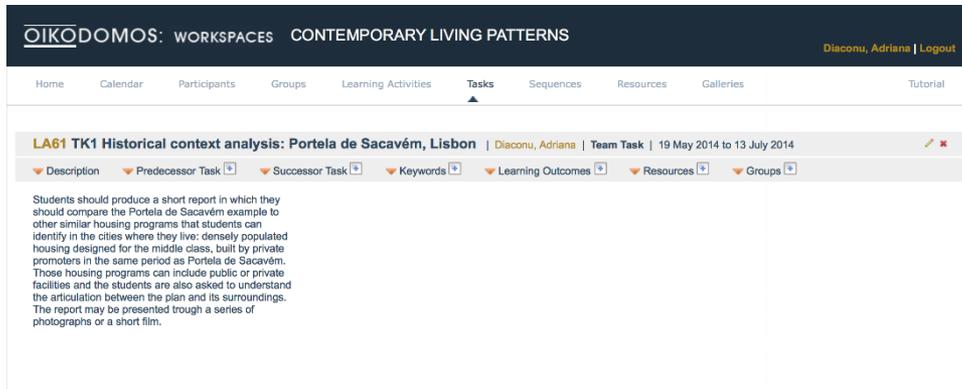
Based on the lecture, reading and assignment, students must define form principles for site layouts, building envelopes and/or facades, based on analyses and design work.

02 Objectives

- To learn how to analyse and break down a site design, building envelope or façade scheme into its constituent parts as a basis for composing a graphic schema for its creation, as well as to learn to compose a such a schema.
- To to visualize parametric variations to particular site design, building envelope or façade scheme, as well as to combine a site design and any given building envelope, or a building envelope and any given façade schema.

03 Outputs

Tasks and Resources: Teachers' specific approaches to housing



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LA61 TK1 Historical context analysis: Portela de Sacavém, Lisbon | Diaconu, Adriana | Team Task | 19 May 2014 to 13 July 2014

Description Predecessor Task Successor Task Keywords Learning Outcomes Resources Groups

Students should produce a short report in which they should compare the Portela de Sacavém example to other similar housing programs that students can identify in the cities where they live: densely populated housing designed for the middle class, built by private promoters in the same period as Portela de Sacavém. Those housing programs can include public or private facilities and the students are also asked to understand the articulation between the plan and its surroundings. The report may be presented through a series of photographs or a short film.



OIKONET: Workspace resource: LA1 task1 1

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Tasks and Resources: Teachers' specific approaches to housing



Figure 1 Portela de Sacavém, Lisbon

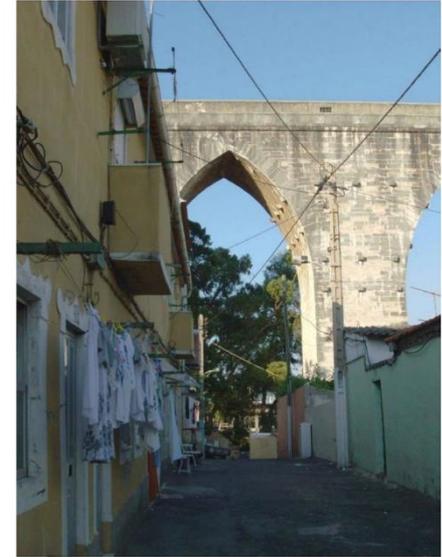


Figure 2. Bairro da Liberdade, Lisbon

- **The social sciences' approach**
 - history of architecture
 - conceptual approach to mass housing
 - socio-demographic analysis
- **The “urban morphology” approach**
- **The “technical innovative” approach**
 - architectural sustainability
 - parametric design

Tasks and Resources: Teachers' specific approaches to housing



Figure 1 Portela de Sacavém, Lisbon

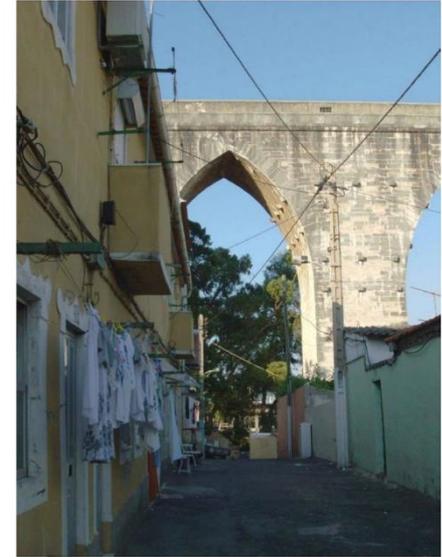


Figure 2. Bairro da Liberdade, Lisbon

- **The social sciences' approach**
 - history of architecture
 - conceptual approach to mass housing
 - socio-demographic analysis
- **The “urban morphology” approach**
- **The “technical innovative” approach**
 - architectural sustainability
 - parametric design

2. THE WORKSPACE AS LEARNING TOOL

Learning activity	Task number	Number of groups that have completed the task	Number of groups that have partially completed the task	Total	Collaborative activities	Observation (date of on-line publication of the task)
LA 61	TK1	3	4	7	Comments from teachers (average of 1,69 per valid entry)	19/05/2014
	TK2	1	6	7	Collaborative task – based on the analysis formerly produced by the other groups (accomplished by one group)	19/05/2014
	TK13	0	1	1	Collaborative task – based on the analysis formerly produced by the other groups	27/06/2014 (supplementary collaborative task introduced two weeks before the workshop starting date)
LA 62	TK3	0	3	3	-	12/05/2014
LA 63	TK4	3	0	3	-	02/06/2014
	TK7-8*	3	1	4	-	18/06/2014
LA 64	TK 9-10	4	0	4	-	09/06/2014
LA 65	TK 11-12	0	2	2	-	20/06/2014

3. THE WORKSPACE AS COLLABORATION ENVIRONMENT

Commenting

“Good work, the purpose of the task was achieved”,

“Nice video, just what we asked for...”,

“Excellent example ...”,

“Great example...”,

“Good useful information well presented in this infographic format...”.

3. THE WORKSPACE AS COLLABORATION ENVIRONMENT

Commenting

“I am wondering about the intentions of this piece of research...”;

“...how can this be applied to housing? Or am I missing something? Please explain.”;

“A short commentary would help clarify what the intentions are. Could you clarify?”;

“I'm confused too”.

3. THE WORKSPACE AS COLLABORATION ENVIRONMENT

Commenting

“... you could have submitted a small text with the principal data about the neighborhood.”;

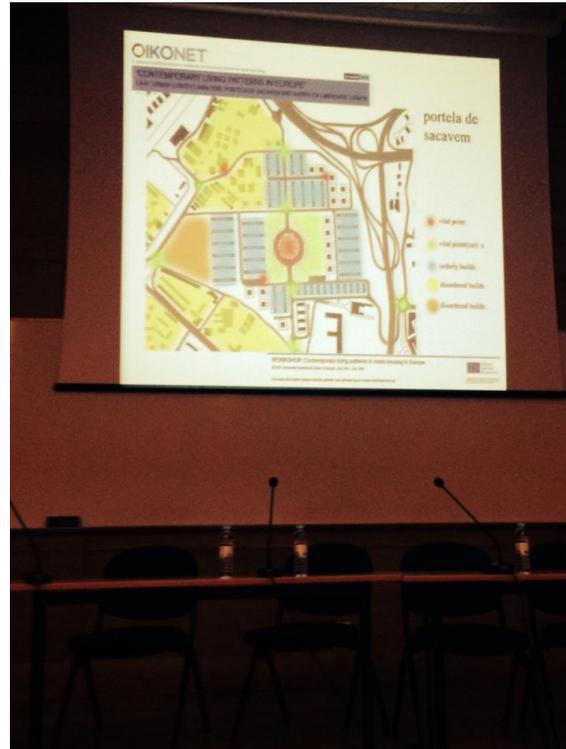
“it would be nice to have a larger map [...] just to see the connections with the surrounding area, are some of the facilities shared with the surrounding neighborhoods? The question of the distance to the city center is particularly relevant [...]”

3. THE WORKSPACE AS COLLABORATION ENVIRONMENT

The workshop presentations



Credits: Sedef Ozcelik



If you would like more information about the content of this presentation please contact:

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