



## DE LA UNIVERSIDAD A LOS BARRIOS DE MAKENI, SIERRA LEONA. ACCIÓN SOCIAL MULTIDISCIPLINAR

LUIS PEREA Y CRISTINA LAORDEN

# MAKENI, SIERRA LEONE



## Human Development Index and its components

|                                    | Human Development Index (HDI) | Life expectancy at birth | Expected years of schooling | Mean years of schooling | Gross national income (GNI) per capita |
|------------------------------------|-------------------------------|--------------------------|-----------------------------|-------------------------|----------------------------------------|
|                                    | Value                         | (years)                  | (years)                     | (years)                 | (2011 PPP \$)                          |
| HDI rank                           | 2014                          | 2014                     | 2014 <sup>a</sup>           | 2014 <sup>a</sup>       | 2014                                   |
| <b>VERY HIGH HUMAN DEVELOPMENT</b> |                               |                          |                             |                         |                                        |
| 1 Norway                           | 0.944                         | 81.6                     | 17.5                        | 12.6 <sup>b</sup>       | 64,992                                 |
| 2 Australia                        | 0.935                         | 82.4                     | 20.2 <sup>c</sup>           | 13.0                    | 42,261                                 |
| 3 Switzerland                      | 0.930                         | 83.0                     | 15.8                        | 12.8                    | 56,431                                 |
| 4 Denmark                          | 0.923                         | 80.2                     | 18.7 <sup>c</sup>           | 12.7                    | 44,025                                 |
| 5 Netherlands                      | 0.922                         | 81.6                     | 17.9                        | 11.9                    | 45,435                                 |
| 6 Germany                          | 0.916                         | 80.9                     | 16.5                        | 13.1 <sup>d</sup>       | 43,919                                 |
| 6 Ireland                          | 0.916                         | 80.9                     | 18.6 <sup>c</sup>           | 12.2 <sup>e</sup>       | 39,568                                 |
| 8 United States                    | 0.915                         | 79.1                     | 16.5                        | 12.9                    | 52,947                                 |
| 9 Canada                           | 0.913                         | 82.0                     | 15.9                        | 13.0                    | 42,155                                 |
| 9 New Zealand                      | 0.913                         | 81.8                     | 19.2 <sup>c</sup>           | 12.5 <sup>b</sup>       | 32,689                                 |
| 11 Singapore                       | 0.912                         | 83.0                     | 15.4 <sup>f</sup>           | 10.6 <sup>e</sup>       | 76,628 <sup>g</sup>                    |
| 12 Hong Kong, China (SAR)          | 0.910                         | 84.0                     | 15.6                        | 11.2                    | 53,959                                 |
| 13 Liechtenstein                   | 0.908                         | 80.0 <sup>h</sup>        | 15.0                        | 11.8 <sup>i</sup>       | 79,851 <sup>g,i</sup>                  |
| 14 Sweden                          | 0.907                         | 82.2                     | 15.8                        | 12.1                    | 45,636                                 |
| 14 United Kingdom                  | 0.907                         | 80.7                     | 16.2                        | 13.1 <sup>d</sup>       | 39,267                                 |
| 16 Iceland                         | 0.899                         | 82.6                     | 19.0 <sup>c</sup>           | 10.6 <sup>e</sup>       | 35,182                                 |
| 17 Korea (Republic of)             | 0.898                         | 81.9                     | 16.9                        | 11.9 <sup>e</sup>       | 33,890                                 |
| 18 Israel                          | 0.894                         | 82.4                     | 16.0                        | 12.5                    | 30,676                                 |
| 19 Luxembourg                      | 0.892                         | 81.7                     | 13.9                        | 11.7                    | 58,711                                 |
| 20 Japan                           | 0.891                         | 83.5                     | 15.3                        | 11.5 <sup>e</sup>       | 36,927                                 |
| 21 Belgium                         | 0.890                         | 80.8                     | 16.3                        | 11.3 <sup>d</sup>       | 41,187                                 |
| 22 France                          | 0.888                         | 82.2                     | 16.0                        | 11.1                    | 38,056                                 |
| 23 Austria                         | 0.885                         | 81.4                     | 15.7                        | 10.8 <sup>d</sup>       | 43,869                                 |
| 24 Finland                         | 0.883                         | 80.8                     | 17.1                        | 10.3 <sup>e</sup>       | 38,695                                 |
| 25 Slovenia                        | 0.880                         | 80.4                     | 16.8                        | 11.9                    | 27,852                                 |
| 26 Spain                           | 0.876                         | 82.6                     | 17.3                        | 9.6                     | 32,045                                 |

179 Sierra Leona IDH 2016 (datos 2015)

51,3

9,5

3,3

1.529

### Castilla La Mancha:

79.000 km<sup>2</sup>  
2.110.000 hab.  
26,62 hab/km<sup>2</sup>

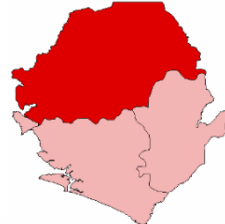


### SIERRA LEONE

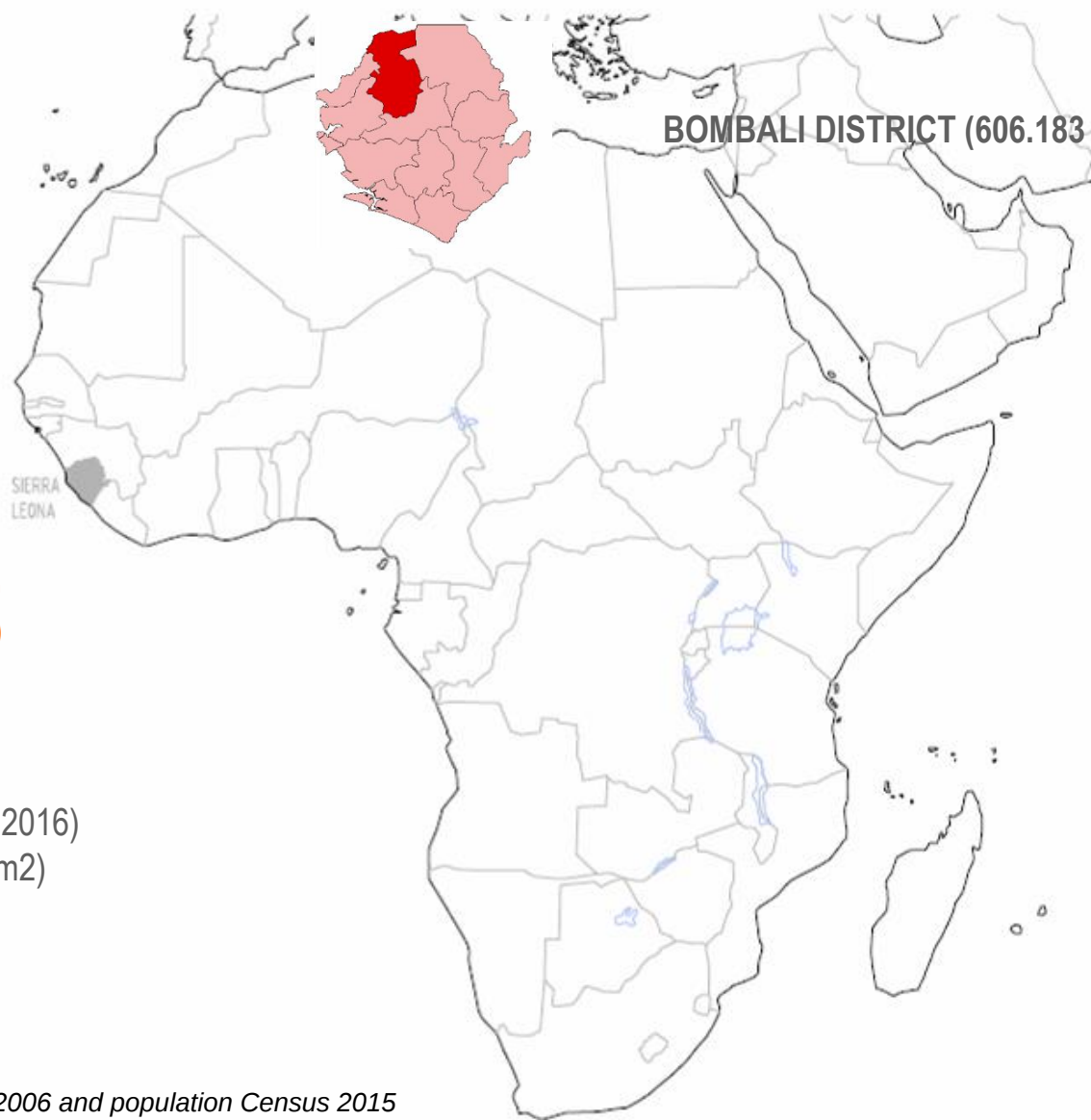
Population: 7.075.641 HAB (2015)  
Density: 83 hab/km<sup>2</sup> (72.000 km<sup>2</sup>)

### SPAIN

Population: 46.468.102 HAB (INE. 2016)  
Density: 93 hab/km<sup>2</sup> (506.990 km<sup>2</sup>)



**NORTHERN PROVINCE (2.502.805 PEOPLE)**

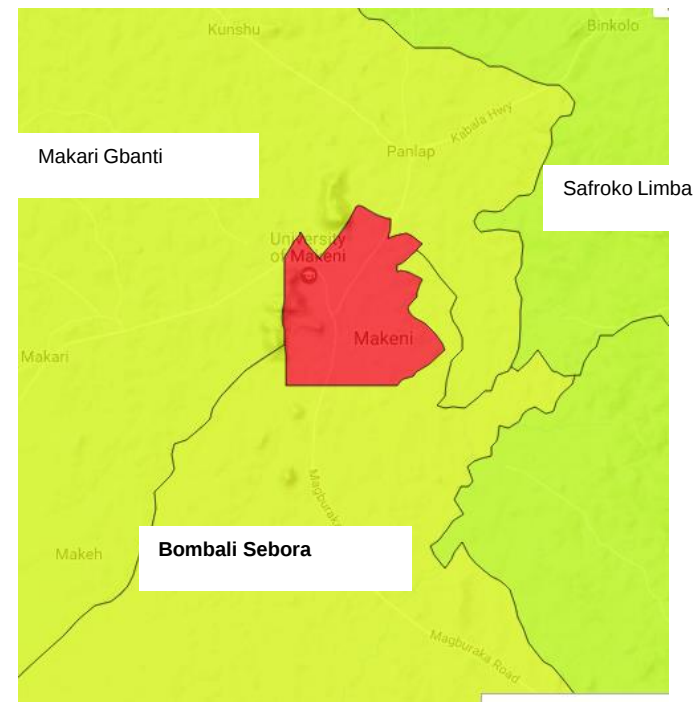
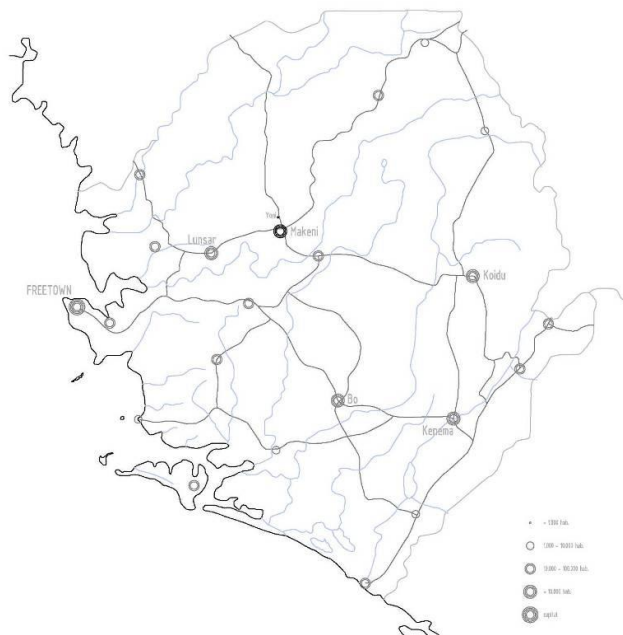


**BOMBALI DISTRICT (606.183 PEOPLE)**

SIERRA  
LEONA

| CENSUS YEAR | Sierra Leone     | Northern Region  | Bombali District | Makarie-Gbanti Chiefdom | Bombali Sebora Chiefdom | Safroko Limba Chiefdom | Makeni Town    |
|-------------|------------------|------------------|------------------|-------------------------|-------------------------|------------------------|----------------|
| 1963        | 2.180.355        | 897.566          | 198.776          |                         |                         |                        | 12.304         |
| 1974        | 2.735.159        | 1.046.158        | 233.626          |                         |                         |                        | 26.781         |
| 1985        | 3.515.812        | 1.259.641        | 317.729          |                         |                         |                        | 40.038         |
| 2004        | 4.976.871        | 1.745.553        | 408.390          | 41.186                  | 22.802                  | 21.199                 | 82.840         |
| <b>2015</b> | <b>7.075.641</b> | <b>2.502.805</b> | <b>606.183</b>   | <b>81.344</b>           | <b>36.407</b>           | <b>31.126</b>          | <b>126.059</b> |

Source: Annual Statistical Digest 2005/2006 and population Census 2015





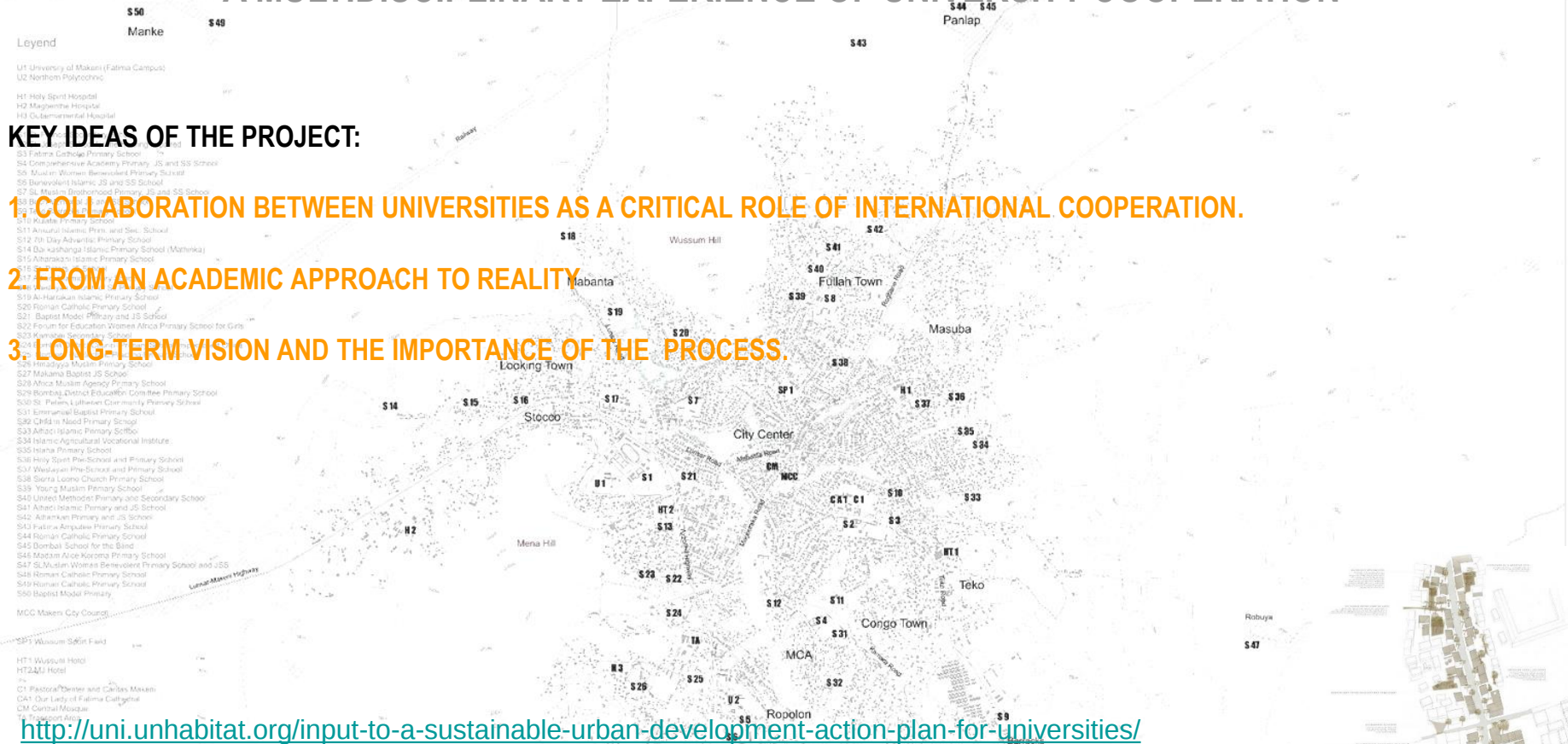




<http://hdlabceu.wixsite.com/hdlabceu>

# STRENGTHENING THE EDUCATION CAPABILITIES OF THE UNIVERSITY OF MAKENI (SIERRA LEONE) FROM SAN PABLO-CEU UNIVERSITY (MADRID, SPAIN)

## A MULTIDISCIPLINARY EXPERIENCE OF UNIVERSITY COOPERATION



2nd Award for innovative educational proposals to Sustainable Human Development.

Coordinator:

Luis Perea

Lecturer of Urban Planning, Architecture, San Pablo CEU University



CEU  
Universidad  
San Pablo

Unimak



## PARTICIPANTS

MADRID

MAKENI

CEU University Madrid

University of Makeni

Universities and Groups  
in Madrid  
(UPM, ICHAB;...)

Makeni City Council

Ropolon Neighbourhood

NGOs, Institutions,...  
(Manos Unidas, ISF,...)

St. Joseph's School for  
deaf children

Others (PNUD, District,  
Civil Society,...)

## PARTICIPATION-ACTION-RESEARCH

**HD\_LAB** Laboratory of Habitability and Development  
Multidisciplinary Unit in CEU



- Workshops
- Proposals developed in academic courses
- Research
- Sensitization
- Publications, articles, ...



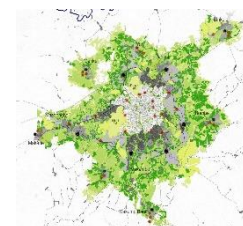
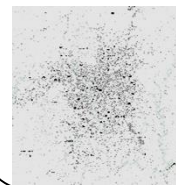
PROJECTS IN MADRID  
ACTION IN MAKENI

## MAIN PROJECTS – INITIAL RESULTS

1. Master Plan Unimak Campus
2. Guest House
3. Academic support
4. School of Health



5. First maps of Makeni
6. Strategic Urban Plan for Makeni



7. Participatory cadastre and urban analysis in Ropolon

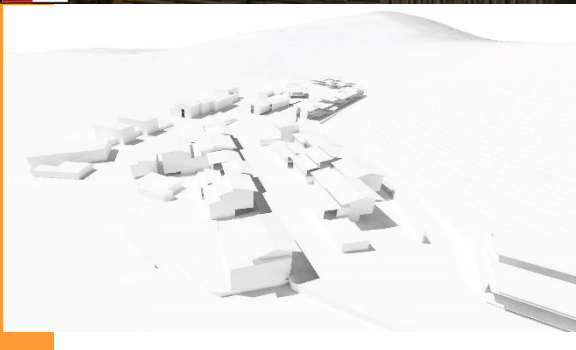
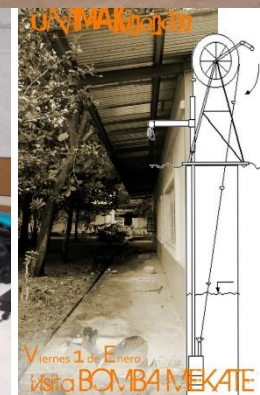


8. Workshops in St. Joseph's School for deaf children

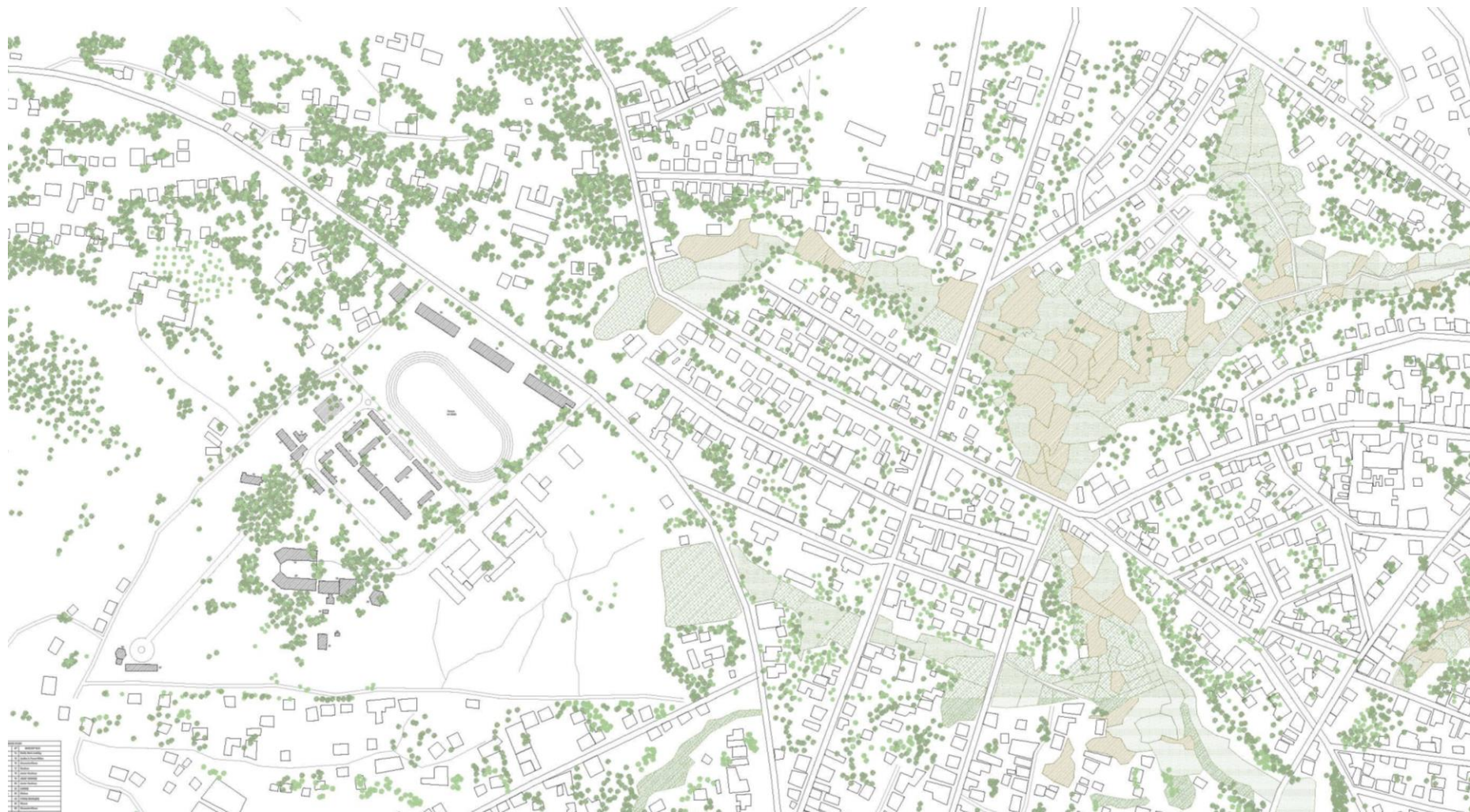




<http://hdlabceu.wix.com/hdlabceu>



Los trabajos forman parte de un recorrido transversal vinculado a un territorio: Makeni, Sierra Leona. En distintas escalas y aproximaciones, se avanza reforzando una línea de investigación que implica distintas áreas de conocimiento

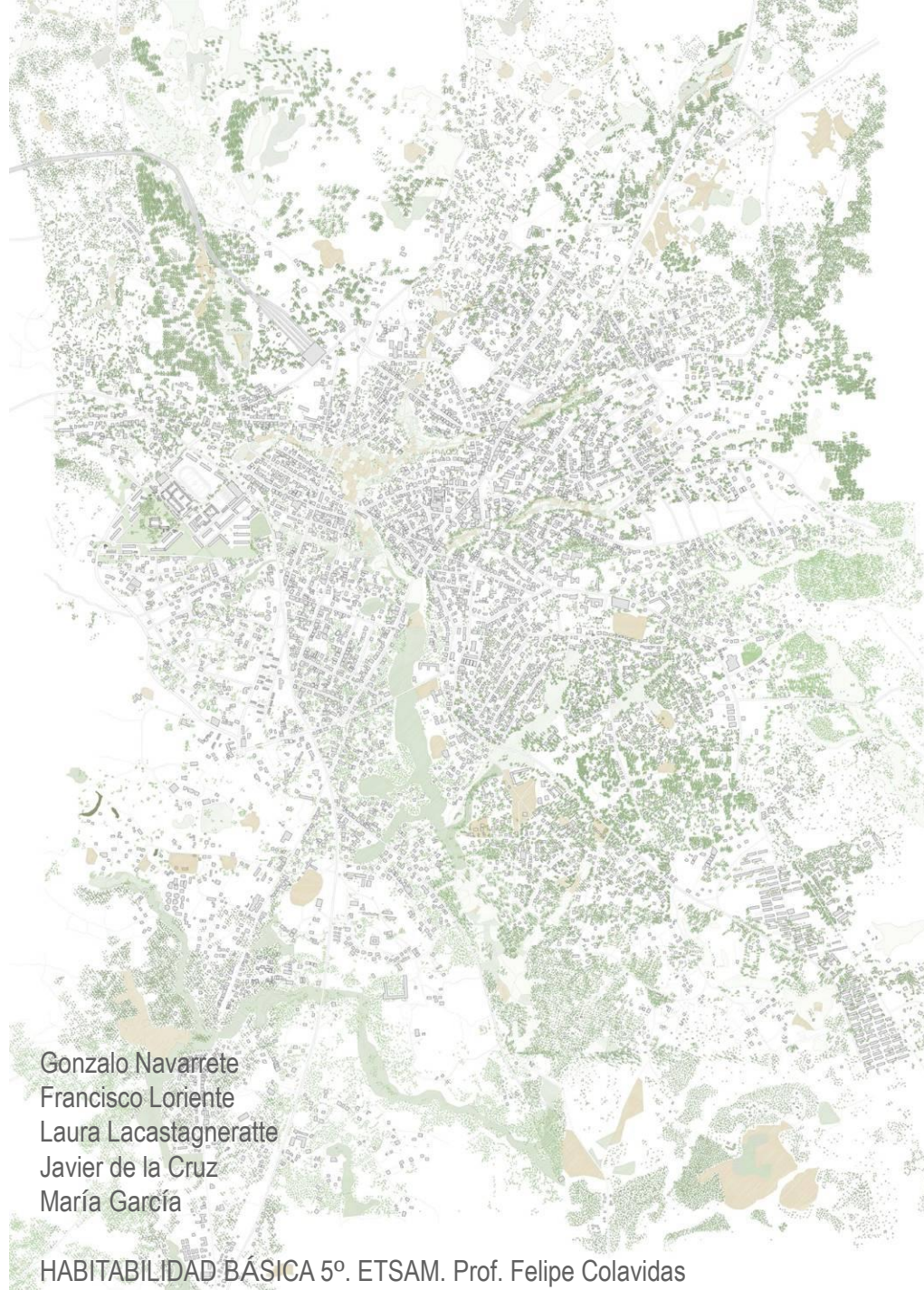


INICIO CARTOGRAFÍA MAKENI

HD\_LAB. CEU

REMATE CARTOGRAFÍA MAKENI

Alumnos  
URBANÍSTICA. 2º CEU



Gonzalo Navarrete  
Francisco Lorient  
Laura Lacastagneratte  
Javier de la Cruz  
María García

HABITABILIDAD BÁSICA 5º. ETSAM. Prof. Felipe Colavidas

#### ESTIMACIÓN RESERVA DE ESPACIO PARA EL TREN

-Makeni  
Nº habitantes: 85.000  
Sup. construida del casco urbano: 825 Ha

-Gudálajara  
Nº habitantes: 85.000  
Superficie construida del casco urbano: 1200 Ha  
Superficie de la estación de tren: 3800 m2

-Telde  
Nº habitantes: 83.000  
Superficie construida del casco urbano: 800 Ha  
Superficie de la estación de tren: 1000 m2

-Talavera de la Reina  
Nº habitantes: 90.000  
Superficie construida del casco urbano: 900 Ha  
Superficie de la estación de tren: 6000 m2

-Zaragoza  
Nº habitantes: 675.000  
Superficie construida del casco urbano: 7500 Ha  
Superficie de la estación de tren: 12000 m2

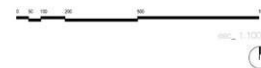
#### comentario

Este plano muestra la imagen final de nuestra propuesta a escala urbana y el encaje del campus dentro de la ciudad.

La llegada del ferrocarril proporcionará innumerables beneficios a Makeni. Lo más conveniente es que entre desde el noroeste, aprovechando el valle que se forma entre las 2 colinas. En esta zona la ciudad todavía no está consolidada y la estación terminal puede situarse relativamente cerca de los 2 focos de actividad: la zona comercial del centro y el campus universitario.

Para estimar a grandes rasgos el tamaño de la estación se han comparado ejemplos de ciudades españolas.

escala urbana  
imagen de la propuesta

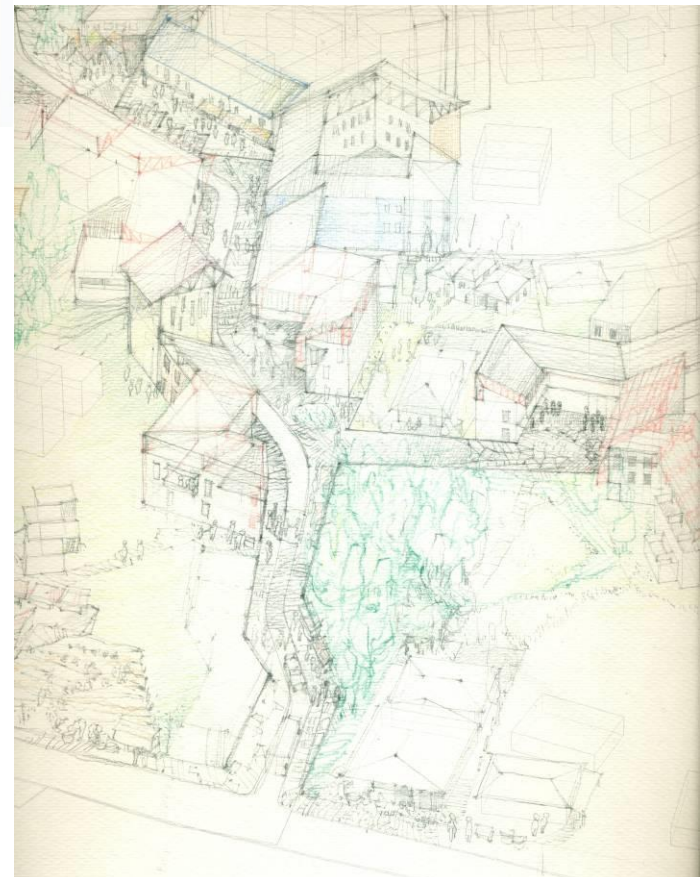
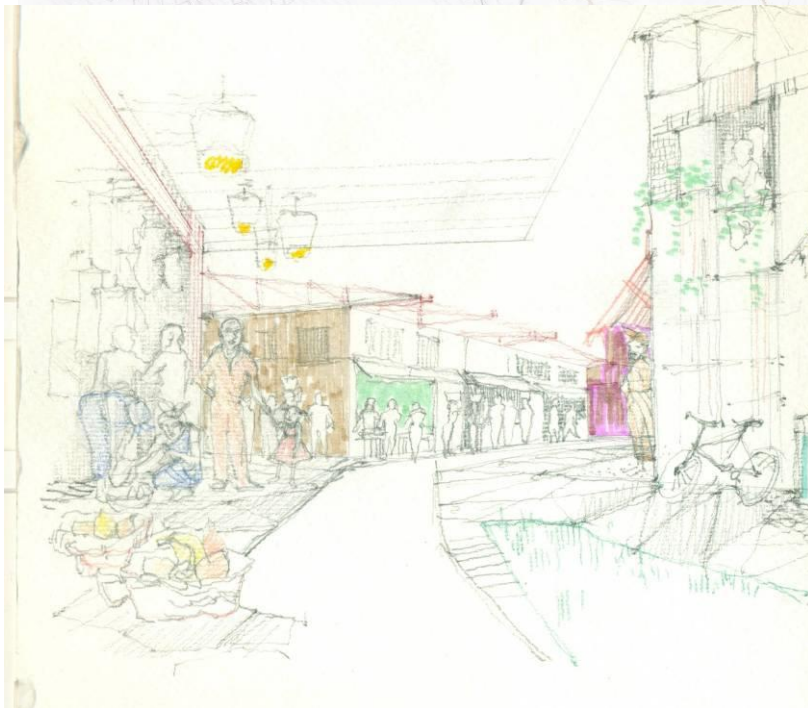
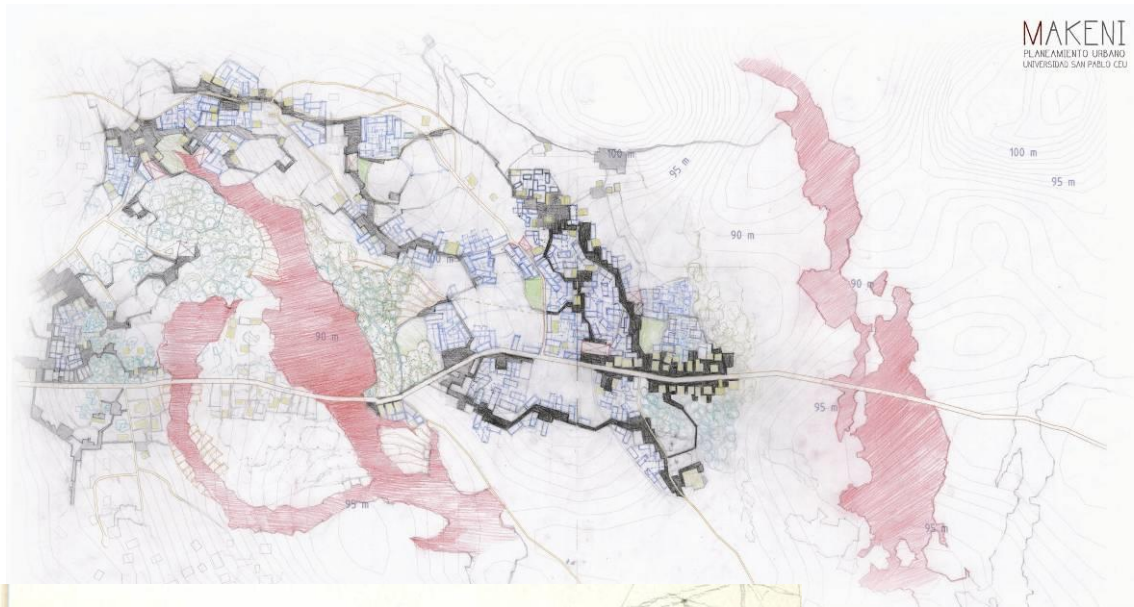


**master plan para unimak**  
**universidad de makeni | sierra leona**

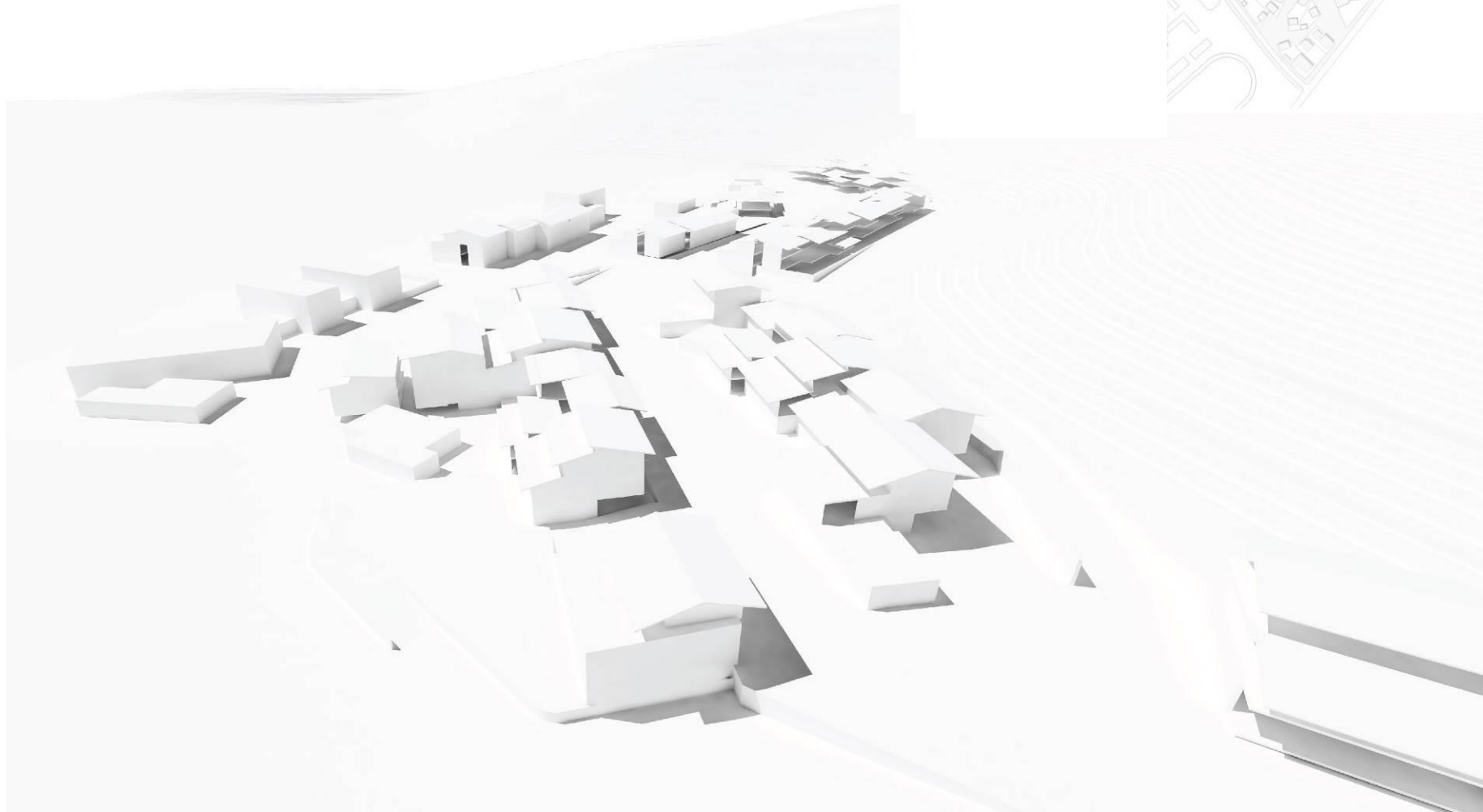
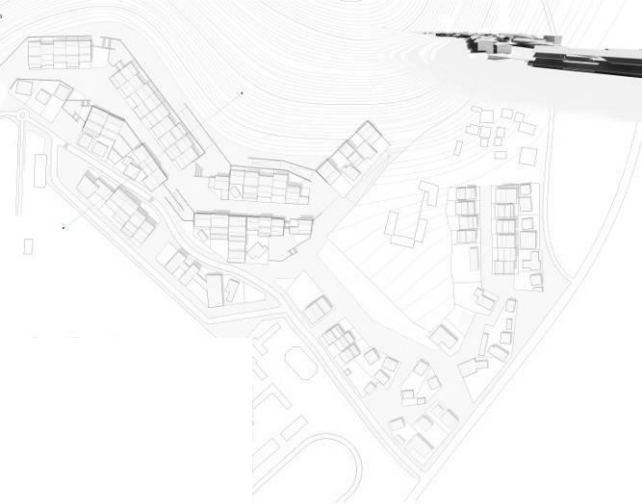
habitabilidad básica | prof. felipe colavidas

francisco lorient moreno - 8266  
javier de la cruz pilla - 7101  
gonzalo navarrete morcillo - 6321  
laura lacastagneratte de launado - 611634  
maría garcía méndiz - 6174

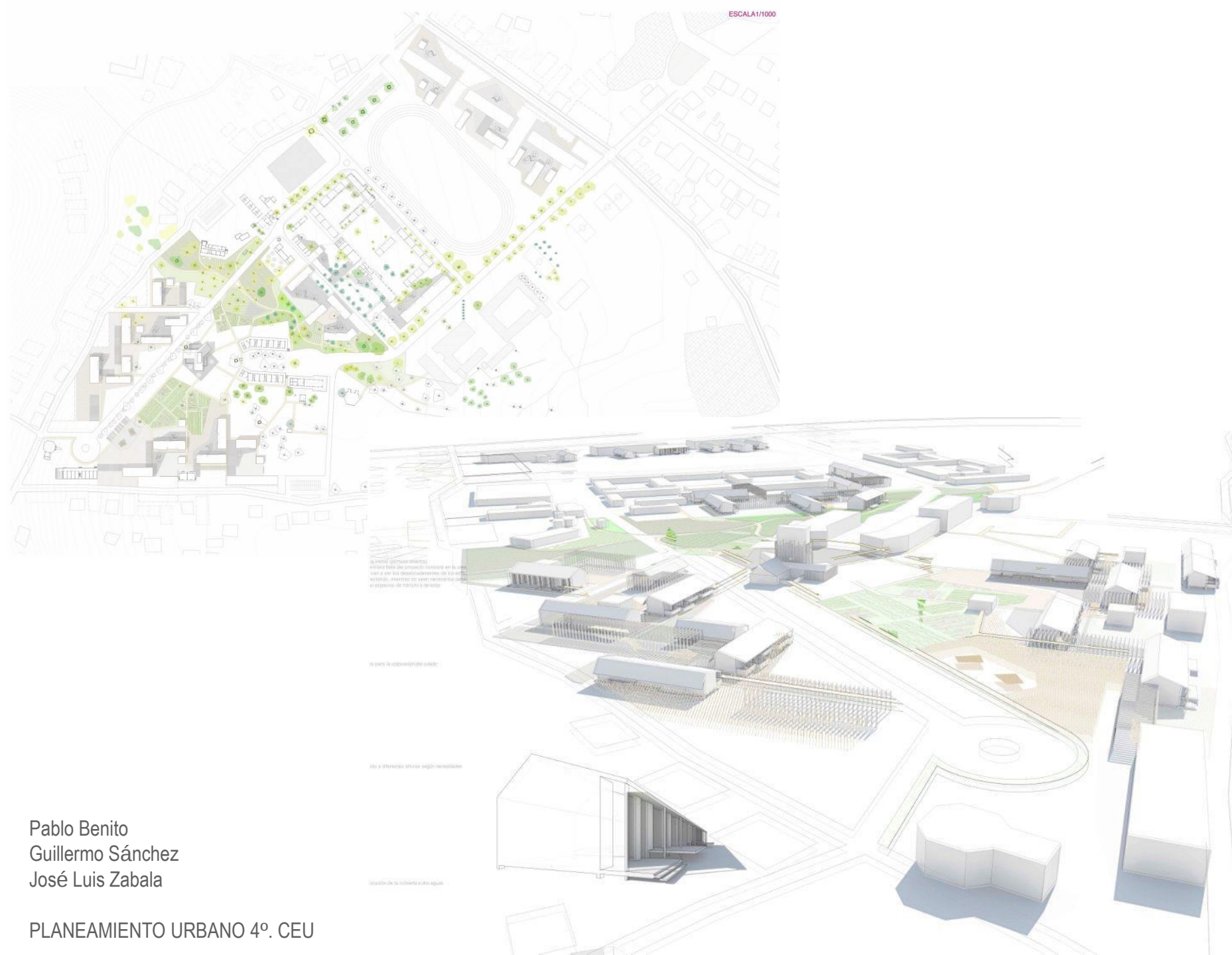
**G6** plano número:  
**05** 21



Proposal for east Makeni area made by students of CEU San Pablo University (Madrid, Spain)



Proposal close to Unimak area made by students of CEU San Pablo University (Madrid, Spain)



Pablo Benito  
Guillermo Sánchez  
José Luis Zabala

PLANEAMIENTO URBANO 4º. CEU



MAKENISIERRALEONA

WORKING TOGETHER

4 projects  
scales

# 4 projects /scales

1. MAKENI CITY: Planning process, cartography,...
2. UPGRADING NEIGHBORHOODS: Working with the local community
3. UNIVERSITY OF MAKENI. Training, proposals for campus, construction
4. SOCIAL ACTIONS. Workshops in schools



# 1. THE CITY OF MAKENI: Towards a Sustainable Makeni



Foro: Julio de 2013 – dibujos de Pablo Benito



Foro: Julio de 2013 – Estudiantes + profesores trabajando horizontalmente con la sociedad local en busca de soluciones para el desarrollo de su ciudad.

# THE PLANNING PROCESS IN MAKENI. PREVIOUS STEPS

## 1. FIRST WORKSHOP. DETECTING PRIORITIES. JULY 2013

The organization, in July of 2013, of a workshop to reflect on the city and the territory of Makeni, marked the beginning of the process. The main city stakeholders were called and organized into five groups according to 5 thematic areas, the priority elements for Makeni were defined. The organization was carried out jointly between the CEU, Unimak and the city of Makeni.

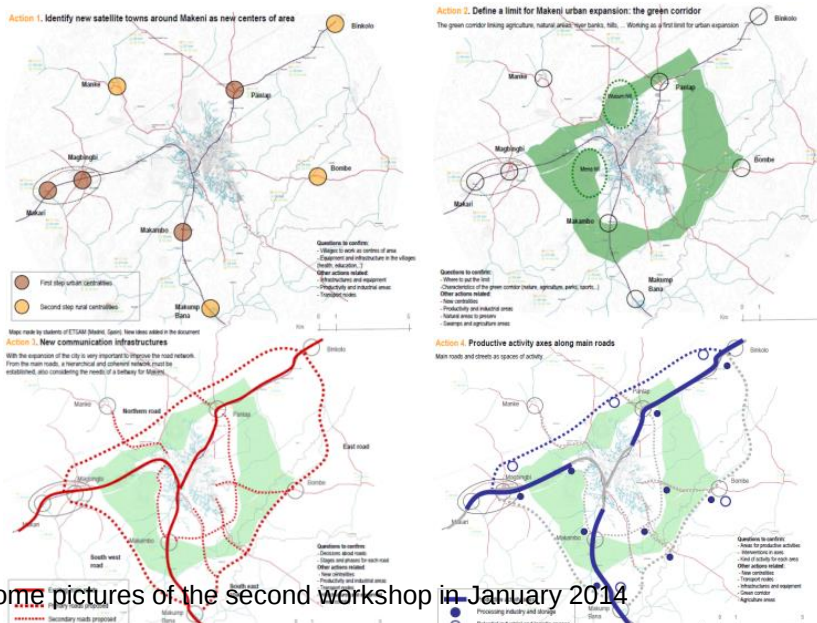


July 2013. Poster and pictures of the workshop



## URBAN PLANNING IN MAKENI, SIERRA LEONE

A group of people are standing in a hallway. In the foreground, a woman is smiling and looking towards the camera. She is wearing a red and white patterned dress. Behind her, a man in a red shirt and a woman in a green and white patterned dress are visible. To the right, a man in a white shirt and a man in a blue and white patterned shirt are standing. The hallway has a white wall and a wooden door.



Some pictures of the second workshop in January 2014

## 4. EVOLUTION OF THE PLANNING PROCESS FROM MADRID. JANUARY 2014-JULY 2014

The collaboration between CEU University, the UPM School of Architecture and the post graduate course ICHAB in Madrid, provided a great context for continuing the urban reflexion. Here are summarized some of the main approaches and elements of the research made by Adela Salas and Natalia García (ICHAB), with the supervision of Luis Perea (CEU):

### OBJECTIVES, STRATEGIES AND TERRITORIAL PLANNING TOOLS

>>Main goal:

**Make compatible the protection of the areas of greatest value with a sustainable urban and economic development.**

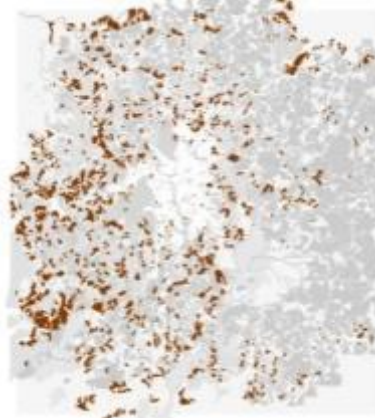




Sistema hídrico permanente



Cultivos de regadío inundables



Cultivo de Palma



Masa forestal arbórea y vegetal



Cultivos de secano



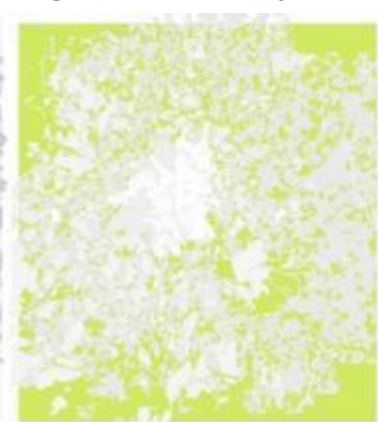
LEO Montañas

Suelos granates

Actividades extractivas

Vegetación de monte bajo

Asentamientos Humanos



## 5. THIRD WORKSHOP. TOWARDS IMPLEMENTING ACTIONS . JANUARY 2016

**1. APPROACH.** Workshop with theoretical sessions (TS), practices (PS) and fieldwork (FW), for working about planning Makeni in **two levels: City Scale and Neighbourhood Scale.**

**2. GOALS.** Raising awareness, disseminating, involving stakeholders, training and working together with the main urban actors of Makeni, in decision-making for the development of the Strategic Plan of Makeni. **Discussion about the new proposals presented by CEU San Pablo University**

**3. PARTICIPANTS.** Mainly technicians and decision makers in Makeni: Landowners, Staff and students of the University of Makeni, Makeni City Council, Bombali District, Northern Province, Ministry of Lands, Country Planning and Environment, other administrative areas, SALWACO (water and sanitation in SL), roads authorities, Paramount Chief and other relevant people in the city management.



## 6. MADRID PLANNING AFRICAN CITIES MEETING. JUNE 2016

## PLANNING THE AFRICAN CITY THE CASE OF MAKENI, SIERRA LEONE



The important recent urban sprawl of the most disadvantaged contexts is the biggest challenge facing the global habitability. According to UN-Habitat, in 2050 will be in sub-Saharan Africa about 762.5 million new urban dwellers (which is equivalent to the total of the current European population). The habitability deficits, the scarce economic resources, the lack of skilled personnel, a weak regulatory framework, the attachment to the traditions and primary activities, are just some factors that increase the difficulties.

Makeni, Sierra Leone, is a paradigmatic city of such realities. With an estimated 120,000 people in recent years is evident the urban expansion beyond the limits of the city through a model of dispersed occupation.

The challenge of urban expansion in developing countries is the leitmotif of this activity, aimed at researchers, planners, students and other interested professionals.

**Polytechnic School\_CEU San Pablo University**  
Campus Montepríncipe, Boadilla del Monte, Madrid  
Salón de Actos (sala amarilla)

**23 JUNE 2016**

Please, confirm attendance at: [voluntariado@ceu.es](mailto:voluntariado@ceu.es)

### 9:30. Institutional Presentation

Jesús Paul \_ Vice Chancellor International Relations USP CEU  
Andrés Ramos\_ Director of Pastoral and Volunteer Programs FUSP CEU  
Madam Sunkarie Kaba Kamara\_ Mayor of Makeni  
Fr. Joe Turay\_ Vice Chancellor University of Makeni

### 10:00. Project CEU-Unimak- Makeni City Council

Luis Perea\_ PHD Architect. Coordinator International Cooperation USP/CEU  
Cristina Laorden\_ Pastoral and Volunteer Programs FUSP CEU  
Fr. Joe Turay\_ Vice Chancellor University of Makeni

### 10:30. Makeni. Urban Management and Main Challenges

Madam Sunkarie Kaba Kamara\_ Mayor of Makeni  
William Alpha\_ Chief Administrator of Makeni City Council

### 11:30. Break

### 12:00. Brief Thematic Lectures

1. Governance and Public Participation.  
Sacred forests in the African city planning  
Project Madrid Think Tank  
Carlos Lahoz\_ Vice Dean COAM, Phd Architect and lecturer at USP CEU.

2. Environment and Biodiversity  
Sacred forests in the African city planning  
Pablo Martínez-Anguita\_ Phd Forest Engineer and lecturer at RJC University

3. Infrastructures and Facilities.  
- Low Cost Sanitation Alternatives  
José Antonio Mancebo\_ Phd Engineer and lecturer at ETSI, member of ONGAWA  
- Infrastructures from a Business Perspective  
Miguel Angel Reguera (Getinsa-Payma)\_ Master in civil engineering

### 14:00. Lunch

### 15:30. Brief Thematic Lectures (continuation)

4. Urban Planning, Mobility and Life Quality  
Implementation of Planning  
Marta Lora Tamayo\_ Phd Lawyer and lecturer at UNED.

5. Housing  
Guided Occupation as an Urban Development Alternative  
Belén Gesto\_ Phd Architect and lecturer at ETSAM.

6. Economic Activity, Employment and Social Cohesion  
Management of Development Aid  
José María Larra\_ Phd Economist and lecturer at USP CEU  
- Entrepreneurship in Developing Contexts  
Diego Palao\_ Economist

### 18:00. Expert Roundtable and conclusions

Roberto Goycolea\_ Phd Architect and lecturer at UAH  
Paz Nuñez\_ Phd Architect and lecturer at UAH  
Felipe Colavidas\_ Phd Architect and cofounder of ICHAB  
Other participants to confirm

Exhibition of USP CEU students work on Makeni

Blog HD\_LAB CEU with information about Makeni: <http://hdlabceu.wix.com/hdlabceu>

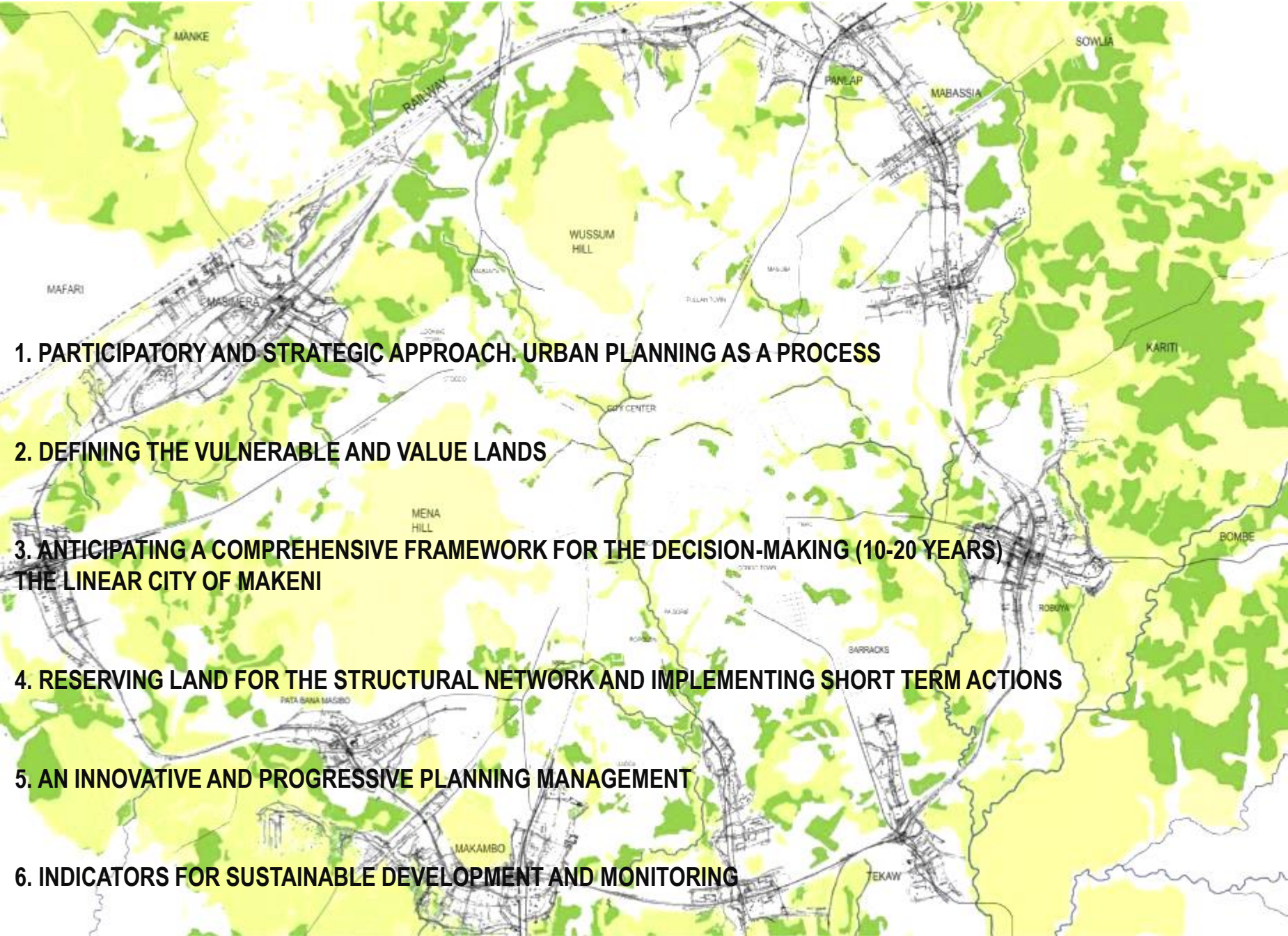


Makeni City Council





# THE PLANNING PROCESS IN MAKENI. KEY ISSUES AND PROPOSALS



**1. PARTICIPATORY AND STRATEGIC APPROACH. URBAN PLANNING AS A PROCESS**

**2. DEFINING THE VULNERABLE AND VALUE LANDS**

**3. ANTICIPATING A COMPREHENSIVE FRAMEWORK FOR THE DECISION-MAKING (10-20 YEARS)  
THE LINEAR CITY OF MAKENI**

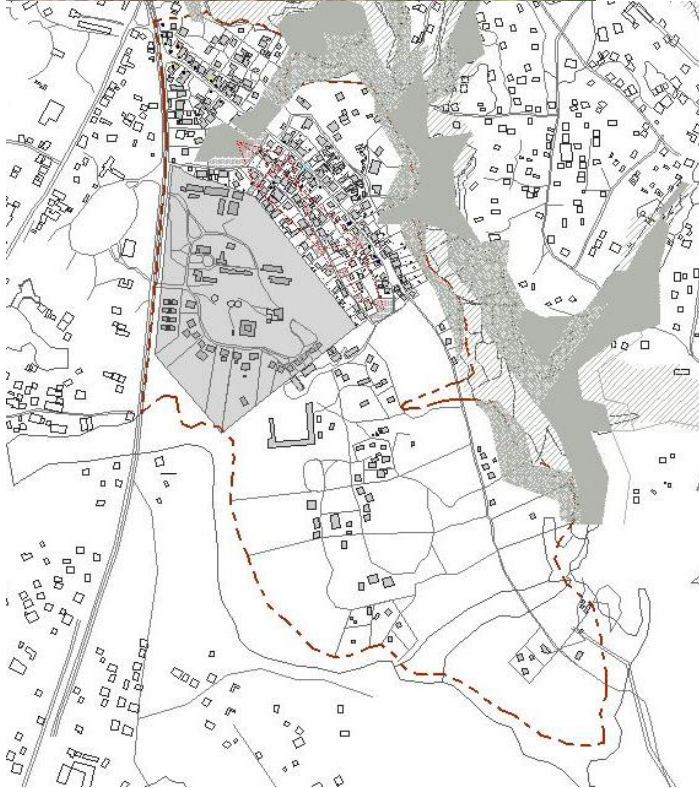
**4. RESERVING LAND FOR THE STRUCTURAL NETWORK AND IMPLEMENTING SHORT TERM ACTIONS**

**5. AN INNOVATIVE AND PROGRESSIVE PLANNING MANAGEMENT**

**6. INDICATORS FOR SUSTAINABLE DEVELOPMENT AND MONITORING**

## 2. UPGRADING NEIGHBORHOODS: Working with the local community

ROPOLON NEIGHBOURHOOD. JULY 2013



Barrio de Ropolon: cartografía

Barrio de Ropolon: Julio de 2013 – primer encuentro con la Comunidad



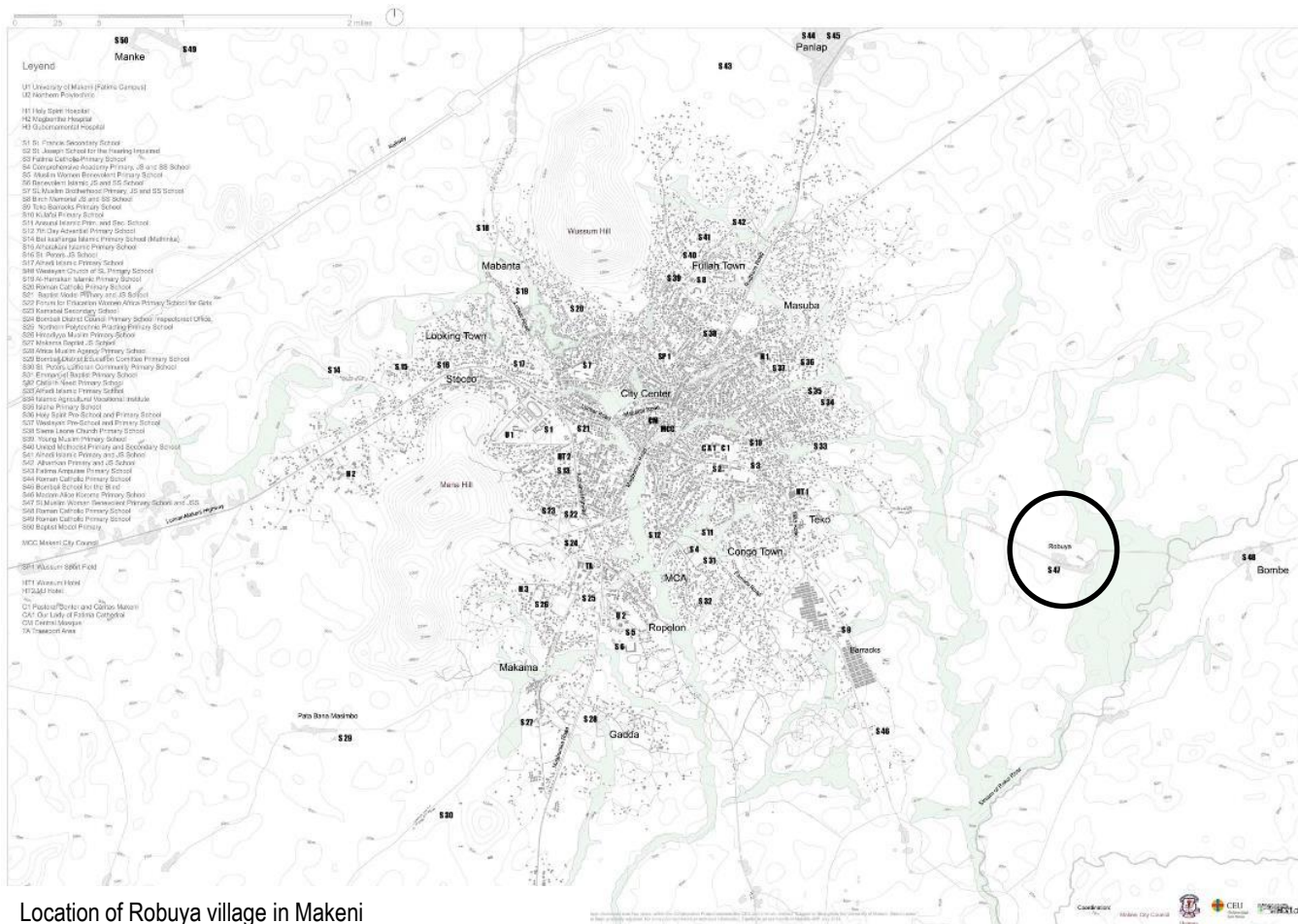
Detailed map of Ropolon (made by CEU University)

### PLOT DIMMENSIONS (ROPOLON 2013):

- 53 X 34
- 30 X 20 M (100 X 70 FEET)
- 23 X 23 M (75 X 75 FEET)



# ROBUYA VILLAGE. JANUARY 2017



- PROGRAMME: January 2017  
NEIGHBORHOOD: Robiya Village  
SECTOR: West
1. Plot limit
  2. House (PHOTO)
  3. Drainage
  4. House job / shop / workshop (PHOTO)  
Specify (taylor, market, etc)
  5. Water source (PHOTO) Quality  
Water well Borehole Good Bad (contaminated, broken...)
  6. Sanitation (PHOTO)  
Latrine Pit latrine Septic tank Good Bad (open, broken...)
  7. Kitchen (PHOTO)  
Gas Biomass
  8. Lighting 9. Waste containers  
\* +
  10. Facilities (specify)  
School, health, etc.
  11. Bus stop
  12. Flood-prone areas  
Permanent Temporary
  13. Natural land
  14. Deforested land



### 3. UNIVERSITY OF MAKENI

- FINANCIACIÓN DE INFRAESTRUCTURAS Y EQUIPAMIENTOS (AULA MAGNA, GUEST HOUSE, ORDENADORES,...)
- GUEST HOUSE EN CAMPUS DE FÁTIMA (UNIMAK). DISEÑO Y SEGUIMIENTO DE OBRA POR PROFESORES, COLABORADORES Y ALUMNOS DEL CEU. FINANCIACIÓN: AYUNTAMIENTO DE LAS ROZAS. FINALIZADO EN ENERO 2014
- PROPUESTAS PARA EL DESARROLLO DEL CAMPUS DE UNIMAK
- FORMACIÓN
- ESCUELA DE SALUD EN CAMPUS DE YONI (UNIMAK). DISEÑO Y SEGUIMIENTO DE OBRA POR PROFESORES, COLABORADORES Y ALUMNOS DEL CEU. FINANCIACIÓN: MANOS UNIDAS. FINALIZADO EN OCTUBRE 2016



Propuestas para el crecimiento del campus de Unimak. En un círculo el edificio de invitados diseñado por alumnos del CEU

**Guest House.** Diseñada por alumnos bajo la tutela de un grupo de profesores. Algunos de los estudiantes pudieron participar en la dirección de la obra



### Primera visita a la obra: estudio de posibilidades

La realidad a la que nos enfrentamos al llegar a la obra en el viaje de julio de 2013 se alejaba de la propuesta que sale del campo de trabajo de marzo de 2013, lo que nos lleva a una toma de decisiones a contrarreloj para ajustarlas lo máximo posible a la idea inicial sin entorpecer la continuidad de la obra y sin aumentar los costes finales.



Autores del diseño del proyecto: Mateo Álvarez, Pablo Benito, Daniel Gómez, Guillermo Sánchez, Rocío Santo-Tomás, Ana Taboada de Zúñiga y José Luis Zabala.



Los alumnos participan en la obra

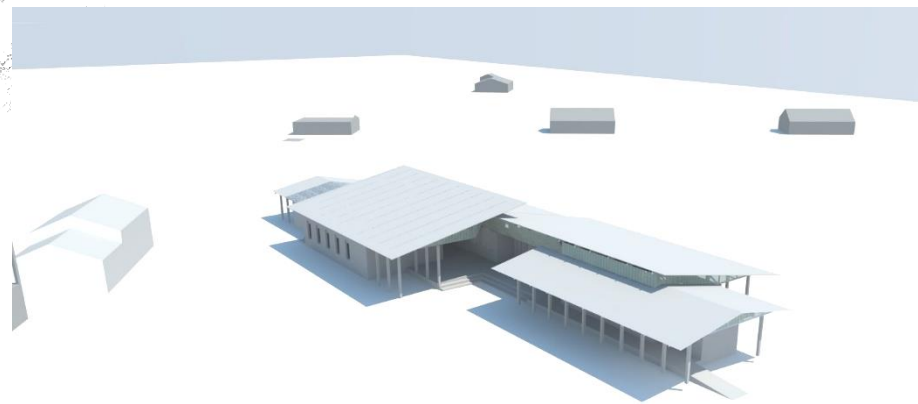


**Guest House.** Alojamiento del grupo CEU en el viaje a Makeni de enero de 2016

# SCHOOL OF HEALTH

YONI CAMPUS, UNIMAK. MAKENI, SIERRA LEONE

INITIAL IDEAS FOR THE DISCUSSION, 14th APRIL 2015



TECHNICAL PROPOSAL:  
FACULTY OF ARCHITECTURE (CEU SAN PABLO UNIVERSITY, MADRID, SPAIN)



CEU  
Universidad  
San Pablo

Unimak





**Construcción de la Escuela de Salud.** Seguimiento de la obra en el viaje a Makeni de enero de 2016



**Escuela de Salud.** Primeras clases en octubre de 2016



# 4. SOCIAL ACTIONS

-WORKSHOPS IN SCHOOLS

-DESIGNING FURNITURE



Carpinteros trabajando la madera + equipo explicando a los obreros cómo construir los bancos. Los bancos se construyeron en la fachada de la Guest House con el apoyo de la gente de St. Joseph



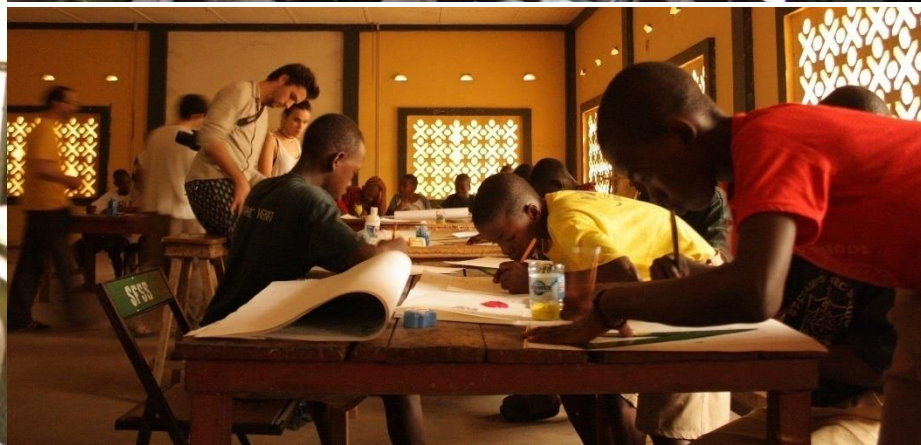
Workshop of recycling



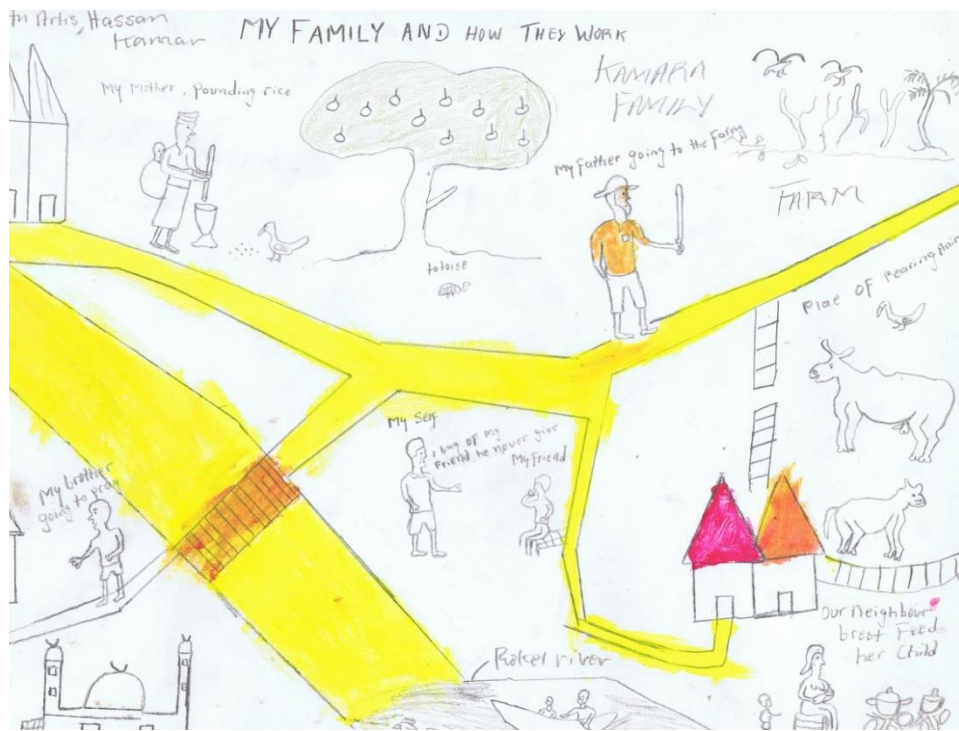
Jardín vertical de bambú para St. Joseph

Transportando la cercha para la Guest House





“Dibuja tu barrio” en el Colegio de St. Francis





Entrega de camisetas a los equipos de las aldeas de Makeni y partido de futbol en Yelisandra village

## WHO ARE WE?

We are a multidisciplinary work team consisting of architecture students and professors from CEU San Pablo University. HD\_Lab's main goal is to address the main issues concerning habitability in developing countries from a wide and multidisciplinary approach. At the moment, the projects and initiatives that we have developed have been focused on the CEU-Unimak (Makeni, Sierra Leone) collaboration born in 2009.

HD\_LAB (Laboratorio de Habitabilidad y Desarrollo) es un grupo de Cooperación al Desarrollo Universitario multidisciplinar, formado por profesores y alumnos de la Universidad CEU San Pablo, que se complementa con colaboraciones externas, inicialmente centrado en la facultad de Arquitectura, donde ha desarrollado la mayor parte de las actividades hasta la fecha, integra también las facultades de Medicina, Farmacia, Económicas, Derecho y Humanidades. Tiene una vocación participativa, abierta y flexible, donde el alumnado tiene un protagonismo fundamental, pudiendo aportar sus visiones desde el principio. El germen del grupo se encuentra en el inicio del proyecto "Apoyo al fortalecimiento de las capacidades educativas de la Universidad de Makeni (Sierra Leona)", que arranca en 2009 desde el Área de Voluntariado del CEU. Es un proyecto de colaboración entre las universidades CEU San Pablo y la Universidad de Makeni, y que ha implicado ya diversos viajes, iniciativas y proyectos. El enfoque metodológico del HD\_LAB, dentro de Arquitectura, se centra en la mejora de las condiciones de Habitabilidad de los países en vías de desarrollo y se apoya en 5 líneas de trabajo fundamentales:

- Académica. Mediante la inclusión de enunciados vinculados a Makeni y su universidad, dentro de asignaturas en la facultad de arquitectura de la EPS. La transversalidad ha sido un eje esencial, implicando asignaturas de proyectos, urbanismo, instalaciones, estructuras y construcción.
- Sensibilización. Actividades de difusión, reflexión, debate y trabajo conjunto, que se plasman en distintas iniciativas: workshops, conferencias, jornadas, visitas, etc.
- Trabajo de campo. Esta línea supone el necesario contacto con el lugar, y que se ha traducido hasta el momento en varios viajes a Makeni, en grupos multidisciplinarios formados por profesores y alumnos.
- Investigación. Como línea que se nutre de las demás y a la inversa. Trabajos, enunciados, propuestas, son elementos que conducen a la reflexión, a profundizar y desarrollar procesos de investigación en la materia.
- Colaboraciones. Implica todos los trabajos que se realizan en colaboración con otras entidades, internas o externas a la universidad. Dentro del proyecto CEU-Unimak en Makeni, dentro de distintas iniciativas, se pueden destacar el Plan Estratégico para la ciudad de Makeni, el diseño y construcción de Edificio de Invitados para el campus de Fátima de Unimak; y el diseño y construcción de la Escuela de Salud para el campus de Yoni de Unimak.

## THE TEAM

**Luis Perea**

HD-Lab Group  
Coordinator

**Juan Arana**

CEU Architecture

**Benito Jiménez**

CEU Architecture

**Mariano Molina**

CEU Architecture

**Eduardo de la Peña**

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**Clara Abejía**

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Collaborator

**Adela Salas**

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Collaborator

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**María González**

CEU Medicine

**Tomás Pérez**

CEU Medicine

**Guillermo Charneco**

CEU Medicine

**José María Larrú**

CEU Economics

**Silvia Rico**

CEU Economics

**José Luis Piñar**

CEU Law

**Cristina Laorden**

Volunteering Area

## PARTNERS



UNIMAK



MakeniCity  
Council



## CONTÁCTANOS



Would you like to learn more about us? Contact us!

<http://hdlabceu.wix.com/hdlabceu>