

PRESS KIT

**BUILD YOUR FUTURE HOME
IN A HOT CLIMATE**



TEAM BORDEAUX
// FRANCE
// PALESTINE
// UAE



WHAT IS THE SOLAR DECATHLON COMPETITION ?

The Solar Decathlon is a competition mixing architecture, engineering and technologic innovation.

Twenty two universities around the world are participating, with the aim of conceiving and building an ecological dwelling prototype based on solar energy only. The competition exists since 2002 in the United States, though new variations progressively appeared, such as the European version in 2010 (the first two editions took place in Madrid in 2010 and 2012, the third one in Versailles in 2014).

The Middle East version was created under the partnership between the Dubaï Electricity and Water Authority (DEWA) and the United State of America Energy Department in June 2015. The competition is based on ten contests : Architecture, Engineering and construction, Energy management, Comfort conditions, House Functioning, Sustainable transportation, Sustainability, Vegetation and hardscaping, Communication and Innovation. Each contest is worth a specific amount of points, the total of all reaching 1,000 points, weighted by a penalty and bonus points system.

INNOVATION

SUSTAINABILITY

HOUSE
FONCTIONING

SUSTAINABLE
TRANSPORTATION

COMFORT CONDITIONS

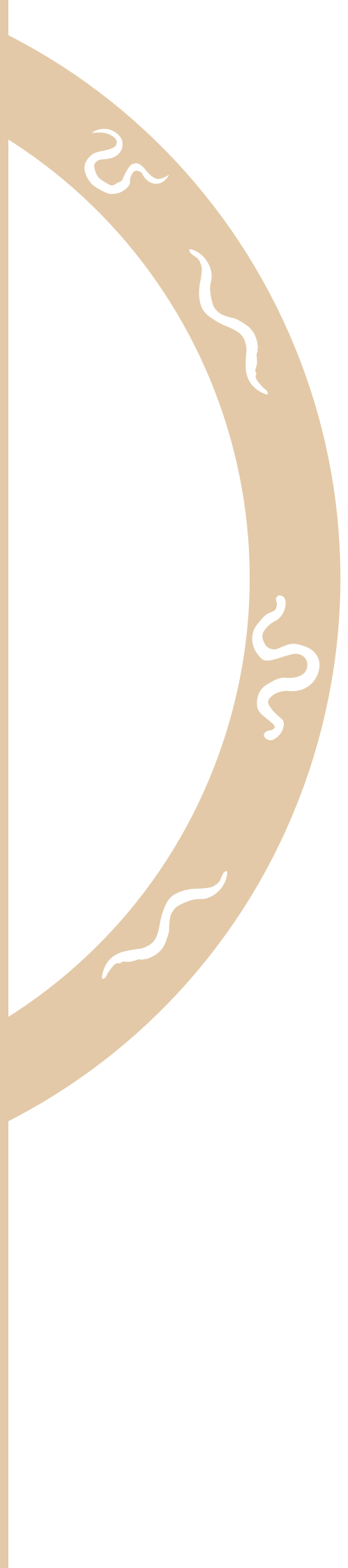
ENGINEERING
AND CONSTRUCTION

ARCHITECTURE

ENERGY
MANAGEMENT

COMMUNICATION

VEGETATION
AND HARDSCAPING



SOLAR
VILLAGE



SOLAR
CONFERENCE

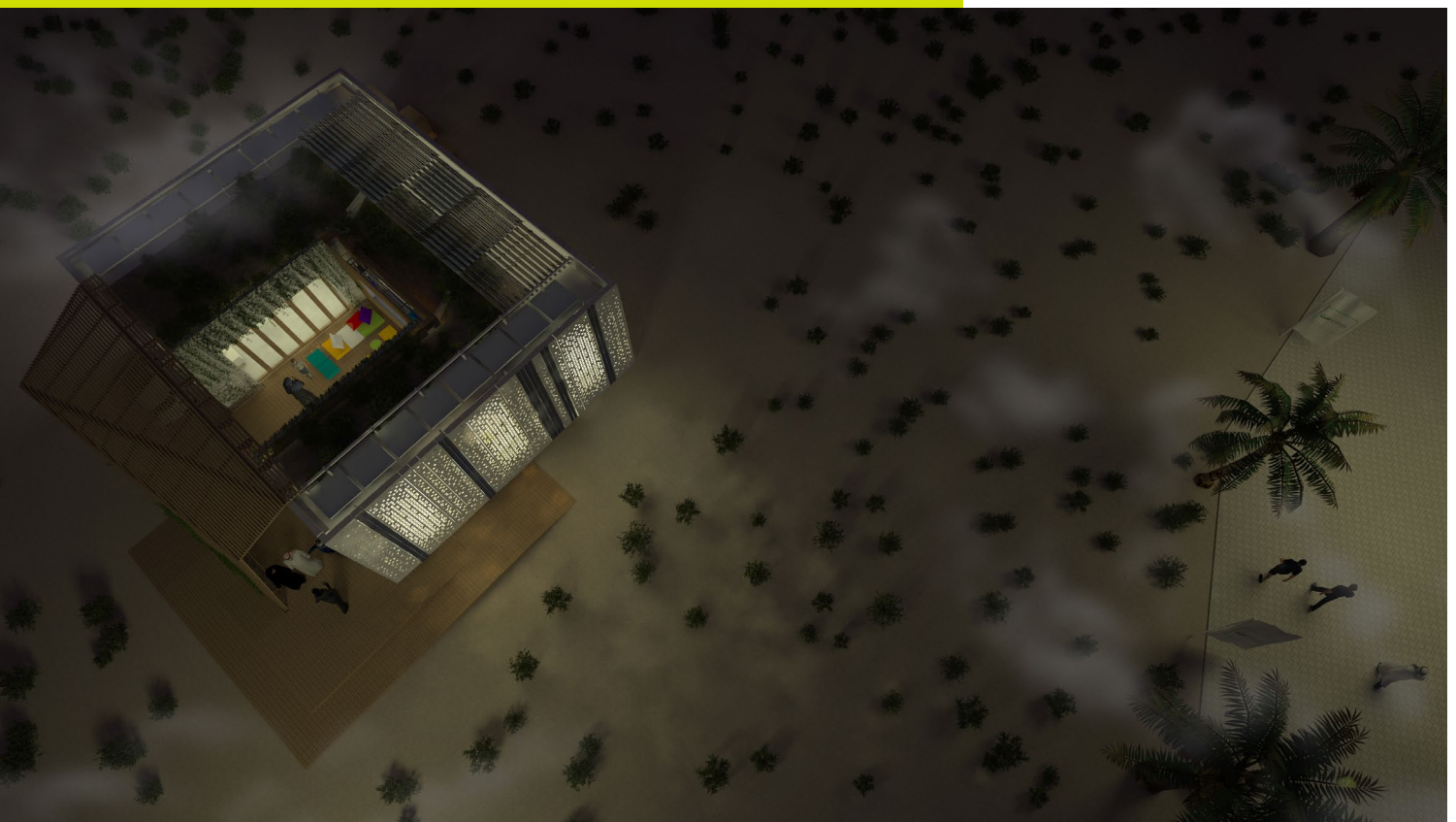


SOLAR
SHOW



BAITYKOOL PROJECT

EXTERIOR VIEWS



INTERIOR VIEWS



THE TEAM AND IT'S GOAL



Students coming from Bordeaux University, Arts et Métiers School (ENSAM), Architecture and Landscape school of Bordeaux (ENSAPBx), An Najah National University (Palestine) and Amity University (Dubai), work together on the Baitykool project.

Our main focus is to conceive a multifamily dwelling evolving with his inhabitants, and being able to respond to oriental traditional way of life as well as the newcomer's ones, especially in Dubai. The team has been divided into four groups involving students from different formations (energetic systems, constructive systems and materials, intern systems and comfort, and nally architecture) and a communication group. Each group works during weekly workshops and additional sessions, and referent students regularly meet to share and bring together the progress of the project.

The strength of Baitykool is our multidisciplinary, which brings us a variety of opinions and skills, but also the team's cultural mixing orient and occident. We consider the Solar Decathlon as a real architectural adventure as well as a personal one, with three notions that guide us through our reflexion :

- the respect of others, their ideas and the way they live,
- the harmony that leads the team and that we want to confer to our dwelling,
- the humbleness we learn from the oriental art of life in Middle East.

The goal of Baitykool is to support the ambition of a green city for Dubai in 2030.

6 WORKPACKAGES

- 1 // **DIGITAL TOOLS**
- 2 // **ARCHITECTURE**
- 3 // **CONSTRUCTIVE SYSTEM**
- 4 // **ENERGY SYSTEM**
- 5 // **BIO SYSTEM**
- 6 // **COMMUNICATION
& MARKETING**

BAITYKOOL PROJECT

BIOCLIMATIC ARCHITECTURE

Baitykool is a multi-family housing unit for extremely hot climates, adaptable in different shapes in a densely populated urban area. Among Baitykool objectives, one can mention the development of a prototype of approximately 80m² where living and life are synonyms.

MIDDLE EAST WAY OF LIFE

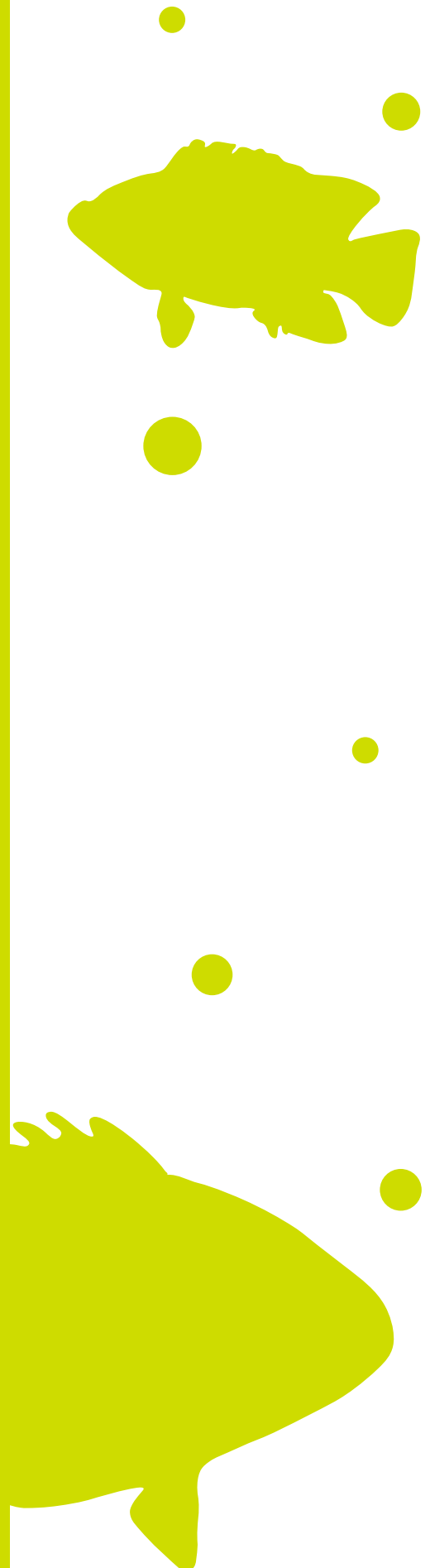
A Middle East way of life understanding. Resulting in a social life around a patio, accessible from private and public living spaces. Protected by day from the sun by a movable energy supplier and vegetation producer double skin, by night fully opened to environment relative coolness, made of recyclable and/or low impact materials.

BAITYKOOL LIVING CYCLE

A complete ecological cycle which introduces the foundations of ecology into the heart of the dwelling, resulting in living agreement with natural lighting and earth live to generate foods production and water recycling.

INNOVATIVE ELEMENTS

A complete energy solutions system which involves the foundations of renewable energy and water use and storage. Resulting in an understanding of humidity of air, of cold night sky radiations, of solar radiations, and founded on innovative solutions of energies capture.



STEERING COMMITTEE

AMITY UNIVERSITY



Uniting 125 000 students for over more than 20 years on different campuses in the world such as Dubai, London, Singapore, New York, Amity University is specialized in science and technology innovation. 30 students take parts to Baitykool team.

NOBATEK



NOBATEK is a private technology center. Its activities include applied research and innovating services prestations concerning sustainable planning and construction. It's a pluridisciplinary team which intervenes with building and public works enterprise, materials producers, industrials, public or private owner, promoter, architects, design offices or collectivities.

ENSAM (Ecole Nationale Supérieure des Arts et Métiers)



The ENSAM is a "Grande Ecole d'Ingénieurs". It has trained more than 85,000 engineers since its creation in 1780 by the Duke of La Rochefoucauld Liancourt. ENSAM's main mission is the initial training of general engineers in the disciplines of mechanical engineering, energy engineering and industrial engineering. It is represented by 10 students.

AN-NAJAH UNIVERSITY



An-Najah was established in 1918, it's the largest University in Palestine, and is home to 13 faculties. It educates over 22,000 students from Palestine and abroad. The Faculty of Engineering & it is represented by 6 students in the BaityKool team was established in 1979.

ENSAP BX (Ecole Nationale Supérieure d'Architecture et de Paysage de Bordeaux)



The ENSAPBx is a school of architecture and landscape stems from the School of Fine Arts. It trains architects, planners and landscapers of tomorrow. Indeed, the school has the particularity of being oriented towards an urban and landscape vision of the city. Among its 1020 students, 17 are part of the BaityKool team and bring their spatial sensitivity to the project.

BORDEAUX UNIVERSITY



For 575 years, the University of Bordeaux has cultivated the universal values that have built its reputation : humanism, demand, creativity and diversity. The school of encyclopedic knowledge has evolved over time into a multidisciplinary university. It's represented by 4 master degree students before the team integrates DUT and Professional Licence students in 2017.

TEAM MISSION STATEMENT

Baitykool have a traditional inspiration with «Fena» courtyard to maximized the openings on it and protect our architecture from the hot climate. Our courtyard is our green heart. Were humans live in osmosis with nature. We want to reconnect people with a simple, economical way of life. People must have their own gardens.

Dubaï is an attractive city for entrepreneurs. We want to develop a share house where students, young graduates, young entrepreneurs can live together and develop their activities. We call it Co-living, Co-working. Adaptable rooms with specific design will help the young generation to be efficient in their new worker life.

Our house is also design to be adaptable on a larger scale. We think density, sharing spaces is the key to an environmental development.



BECOME OUR SPONSOR

Baitykool using a fully detailed 3D modelization. It's the best showcase for your products.

Your products will be integrated to show how they can make a difference about construction in hot climate.

Our objectif is to participate to several famous showrooms in France and Dubaï :

AQUIBAT, **Bordeaux**, France, 14-15-16 March 2018

BAITYKOOL IN DARWIN, **Bordeaux**, France, April 2018

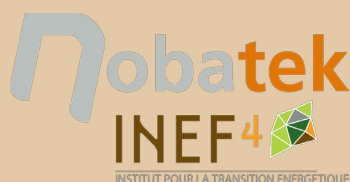
THE BIG 5, **Dubai**, UAE, 26-27-28-29 November 2018

SOLAR DECATHLON MIDDLE EAST, **Dubai**, UAE, November 2018

DUBAI UNIVERSAL EXHIBITION, **Dubai**, UAE, 2020



STEERING COMMITTEE



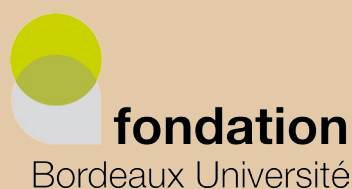
PARTNERS



ADEME



Agence de l'Environnement
et de la Maîtrise de l'Energie



CONTACTS

FACULTY ADVISOR



Philippe Lagièr
philippe.lagiere@u-bordeaux.fr
+33 6 51 53 18 36

STUDENT TEAM LEADER



Kenza Chraïbi
chraïbi.sdmebordeaux@gmail.com
+ 33 6 95 21 71 44

PROJECT MANAGER



Romain Varoqueaux
varoqueaux.sdmebordeaux@gmail.com
+ 33 6 84 45 99 87

COMMUNICATIONS COORDINATOR



Myriame Alioualla
myriame.alioualla@gmail.com
+ 33 6 27 68 75 67

AMITY UNIVERSITY DUBAI



Vidya Mohanan
vmohan@amityuniversity.ae
+971 56 761 7304

AN NAJAH UNIVERSITY PALESTINE



Muhannad Haj Hussein
haj_mj@hotmail.com
+972 59 987 7908



WEBSITE : baitykool.com



facebook.com/baitykool/



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[@baitykool](https://twitter.com/baitykool)

TEAM
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