PRESS RELEASE. DELIVERABLE #5

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1. TEAM CONTACT

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Communications coordinator: Rodrigo Morillo – Velarde Santos

Headquarters: Rosario Vega, 2 bajo derecha. 41.010. Sevilla

2. LIST OF TEAM MEMBERS

The members of Andalucía Team are professors and students from the four Universities that compose it.

2.1 PROFESSORS.

Universidad de Sevilla

JAVIER TERRADOS CEPEDA. Faculty Advisor. He is a Doctor Architect and teacher of Architectural Projects in the ETS de Arquitectura in Sevilla since 1988. His investigating job is mainly focused in the design and construction of prefabricated modular houses. More particularly, he studies the possibilities of a Kit system applied for housing construction and the regeneration and recycling of cities. He has patented the ArKit system and has had many publications, as an example: “Furniture Kit”, “Immigrant housing in the `other fields of Nijar´” (magazine articles). He is part of many investigation groups, and actively participates in SolarKit from the Universidad de Sevilla, being Faculty Advisor for the Solar Decathlong Europe 2010 competition. His professional career has been distinguished with the National Public Housing Award in 2005, awarded by the National Housing Ministry in Spain.

JUAN JOSÉ SENDRA SALAS. He is a Professor Architect in the Universidad de Sevilla. He teaches systems in the ETS de Arquitectura in Sevilla since 1995. His investigating job is focused on the energetic efficiency and the environmental conditioning (temperature, humidity, lighting and acoustic) of buildings. He has realized numerous publications, for example “Towards an Analysis of Daylighting Simulation Software”, “Determination of the origin of the illumination vector due to vertical windows under Moon-Spencer sky conditions (uniformly overcast)” and “The sound of Andalusian Theaters”.

DAVID MORENO RANGEL. He is a professor, with a master degree in architecture and historic patrimony; master degree in cities and sustainable architecture; master in diagnosis and repair of buildings; teacher in the department of architecture constructions I of the Escuela Ténica Superior de Arquitectura; extraordinary final project award; II national final project award; final project dragados award;
extraordinary doctorate award; own professional studio since 2004 with multiple national and international awards; research papers in different architecture magazines; participation in many congresses as speaker with communications and posters, doctorate thesis cum laude “Towards an architecture for life: four actions-reactions that allow to create new conditions for architecture when facing sustainability”. Technical secretary of the master of cities and sustainable architectures.

JAVIER GARCÍA LÓPEZ. He is an Architect and teaches systems in the ETS de Arquitectura in Sevilla since 2006. He is also a teacher for the “Energetic Certification of the IDEA and the AAE. His investigation career is focused on the energetic efficiency in buildings and, particularly, in reducing the energetic demand through the use of passive systems. It is important his participation as investigator in the project I+D EFFICACIA and in SOLARKIT from the Universidad de Sevilla for Solar Decathlon 2010. He is now patenting a ventilation tower with solar chimney.

FERNANDO SUÁREZ CORCHETE. He is an Architect and teaches Architectural Projects in the ETS de Arquitectura in Sevilla since 2007. His investigating activity is focused on the industrialization and prefabrication of collective housing in the south of Spain. He is currently working on his PhD Thesis. He has given lectures on industrialization and ventilated facades modulation in relation to his built works. He has many publications in magazines and national and international architecture books.

ANTONIO LARA BOCANEGRA. He is an architect and teaches Structures in the ETS de Arquitectura in Sevilla since 2007. His investigation career is focused in the study of timber structures. He is working on his PhD in the department of Continuous Means Mechanics and Ground Engineering about “The light grid timber in the south of Europe”. He is especially interested in sustainability matters, in the constructive and structural level, as well as in the urban level. He is the author of many publications, such as “Guide for the good practices in sustainable mobility for the towns in the Sevilla province”, from which he is co-author.

Universidad de Granada

ELISA VALERO RAMOS. She is a Doctor Architect and teaches Architectonical Projects in the ETS de Arquitectura in Granada. She focuses her investigation in architectonic pure concepts as well as the urban architectonic rehabilitation. She is the director of investigation projects such as “Neighborhood recycling; a sustainable alternative” and “Urban recycling; requalification of the residential fabric for a sustainable development”. She is the author of various books, such as: “The intangible material, reflections on light and architectonic project”, “Light dictionary” and “Dangerous leisure: introduction to the architectonic project”.

FRANCISCO DEL CORRAL DEL CAMPO. He is a Doctor Architect and teaches Architectonic Projects in the ETS de Arquitectura in Granada since 2004. He is
investigating on the use of water as an essential material for space, starting from his characteristics as matter and the relationship between architecture and landscape, and landscape design for public space conceived as an installation. He has got many publications such as “The shapes of water and the architecture of Carlo Scarpa” (thesis), “Short story of the shapes of the air” (magazine article) ...

RAFAEL GARCÍA QUESADA. He is a Doctor Architect and teaches construction in the ETS de Arquitectura in Granada since 2007. He investigates the integration of systems in architecture and the building’s construction. He has developed many patents for constructive elements with the passage for the building’s systems already set in.

JULIÁN DOMENE GARCÍA. He is a Doctor Engineer and teaches systems in the ETS de Arquitectura in Granada since 2005. His investigating activity is centered in the digital electronics, automation programming and its application, sensors and the use in the industry.

Universidad de Málaga

ALBERTO GARCÍA MARÍN. He is an Architect and teaches Architectonical Projects in the ETS de Arquitectura in Málaga since 2006. He investigates contemporary interventions of architecture, city and landscape. He is working on his PhD in the Department of Architectonical Projects in his university, under the title “Architecture and original Mediterranean heritage. The Habitat, strategies and systems” and is part of the investigation under the title ‘Contemporary habitability: tourism, heritage and environmental sustainability’.

JUAN ANTONIO MARÍN MALAVÉ. He is an Architect and teaches Architectonical Projects in the ETS de Arquitectura in Málaga since 2003. His investigation is focused on the architectonic construction of the city. He is currently investigating the “Contrast between modern and consolidated city...” and the “The beginnings of the modern movement in Spanish architecture. Tensions and discontinuities in their confrontation with the consolidated city...” He is part of the investigation group under the title of “Contemporary habitability: tourism, heritage and environmental sustainability”.

JORGE BARRIOS CORPA. He is a Civil Engineer and teaches structures in the ETS de Arquitectura in Málaga since 2005. He has developed investigation products in I+D+I Project: “Sustainable building rehabilitation” and is part of the investigation group in his university “HATUPASO”. Other scientific investigations that he is developing focus on the durability of concrete, structure design and quality control of construction materials.

RAFAEL ASSIEGO DE LÁRRIVA. He is an Architect and teaches systems in the ETS de Arquitectura in Málaga since 2008. He investigates on refurbishment of systems inside of the project of investigation “Refurbishment and Sustainability and Investigation in competitions of ideas of architecture”, to detail two first prices, one residential project in Huelva, Spain (2008) and Refurbishment from convent to hotel in Merida, Spain (2009).
Universidad de Jaén

JORGE AGUILERA TEJERO. He is a Doctor Telecommunications Engineer and teaches Telecommunication Electronics and Automation Engineer in the EPS in Jaén since 1994. His investigation is focused on the “Engineer of photovoltaic systems” and is the director of “Investigation and development of solar energy” since the year 2000. Particularly, he is developing architectonical integration projects for photovoltaic systems. He has received the price “Quality, Architecture and Housing” for the technological innovation, awarded by the Institute for Solar Energy, for the architectonic integration of the photovoltaic generator on the office’s roof in 1996. He is co-author of many articles published in scientific magazines and has two patents directly related to the photovoltaic technology.

JUAN DE LA CASA HIGUERAS. He is a Doctor Engineer in Electronics and Technical Industrial Engineer. He teaches Electrical Engineer and automation in the EPS in Jaén since 1992. His scientific interests are focused in the “Photovoltaic Systems Engineer” and works in the investigation group “Investigation and development of solar energy” since the year 2000. He is co-author of many articles published in scientific magazines and two patents directly related to the photovoltaic technology. The CNEAI awarded him with a Investigation Stretch in June 2008.

GABINO ALMONACID PUCHE. He is a Professor of Electrical Technology in the Universidad de Jaén and Doctor Engineer in Telecommunications Commissioner at “Centro de Estudios Avanzados en Energía Solar y Medio Ambiente” in the Universidad de Jaén. Four periods of six years of investigation are recognized by the “Comisión nacional Evaluadora de la Actividad Investigadora (CNEAI). He is author of many articles published in national and internacional scientific renowned magazines of photovoltaic technology about more than a hundred lectures presented in the most important international congresses of solar energy and about some reports. Main investigator of numerous investigation projects about solar energy, funded in competitive announcements of the national and international scope. Between them can be highlighted the following: “REBUILD” Project, “UNIVER” Project, “FIVE” Project, “Mágina” Project. Collaborator with the Agencia Nacional de Evaluación de la Calidad y Acreditación (ANECA).

JUAN GÓMEZ ORTEGA. He is a PhD in Industrial Engineering and Profesor in the area of System Engineering and Automation of the University of Jaén. He created the Group of Investigation in “Robotics, Automation and Vision with Computers” in 2002.

JAVIER GÁMEZ GARCÍA. He is a PhD Engineer in Industrial Electronics and Industrial Organization and teacher in the University of Jaén. He belongs to the Group of Investigation in Robotics, Automation and Vision with Computers of the Universidad de Jaén.
2.2 LIST OF TEAM MEMBERS (TEAM OFFICERS)

Depending on their profiles, the positions in the competition’s organization chart have been assigned to the different investigators in the team. The rest of the investigators, even if they do not have a specific task defined by the competition, participate in an active way. The team officers are:

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<td>House_Name</td>
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<td>Tousidonis Rial</td>
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<td>Health &amp; Safety Officer</td>
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<td>Javier</td>
<td>Gámez Garcia</td>
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<td>Communications Coordinator</td>
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<td>Rodrigo</td>
<td>Morillo – Velarde Santos</td>
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<td>Sponsorship Manager</td>
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## 2.3 DECATHLETES

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<td>Perianes Pajares</td>
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<td>David</td>
<td>Ramírez Martín</td>
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3. PROJECT DESCRIPTION

3.1 TEAMS ORGANIZATION

Andalucía Team is a university team in which participate the universities of Sevilla, Granada, Málaga and Jaén. It is composed of a crew of almost 50 decathletes and a total of 20 investigators, 9 of them doctors and 2 professors.

Depending on their profiles, the positions in the competition’s organization chart have been assigned to the different investigators in the team. The rest of the investigators, even if they do not have a specific task defined by the competition, participate in an active way. For the daily work, the Faculty Advisor has appointed one investigator-coordinator from each university. These are responsible for the work done in each faculty as well as the activities specific for each city related with the SDE 2012. Every fifteen days, work meetings are arranged between the universities’ coordinators, the Faculty Advisor, the Project Manager and the Contest Captain. These meetings help decide solutions and define common strategies for the team. Every 6 weeks, the whole team meets, including the decathletes and investigators, usually at the same time as a critical session of the work done up to that moment.

Up to now, most of the meetings have been carried out in Sevilla, home of the central office, and Málaga, because it is almost half way for the rest of the cities.

The main goal of the team during the last months has been to define the prototype Patio 2.12 in the construction level, in order to start now, in the new stage, arranging agreements with the sponsoring companies and begin the manufacturing process.
3.2 HOUSE’S DESCRIPTION AND RELEVANT ITEMS

PATIO 2.12, the proposal of Andalucia Team for Solar Decathlon Europe 2012, is a prototype of self-sustaining prefabricated modular house which develops a new interpretation of materials and spaces on traditional Andalusian construction, specially focused on the “patio”.

PATIO 2.12 is built by addition of completely finished prefabricated modules, transported by road for their assemblage on the chosen site, which use the “patio” space as a connection element between them.

These finished prefabricated modules do not constitute the whole house, a constructive element or a room; it is just a complex module or group of functions, where uses are mixed and shared (cooking-eating, relax-study, resting-washing). The intermediate scale of prefabrication system used on the prototype produces an attractive, flexible and adaptable house.

Housing self-design becomes possible. User could choose between a list of spaces already prepared with all the necessary equipment and technologies, and organize them at his will around the flexible element: the “patio”.

As it happens in the traditional Andalusian house, the “patio” is also the centre and heart of the home, housing several functions and developing an inside/outside relationship which makes a gradient on the comfort conditions possible. Recreating the pleasing conditions of a Mediterranean space by modulating light and shade, humidity, temperature and even smells and sounds.

In the living modules, three elements are basic for the design and the construction: the skin or enclosure, the closets and the isle. This way, in the four living modules, the skin is neutral and its functions are to insulate and close the space, being the closets and isle the components in charge of equipping and qualifying the different spaces.

The modularity and flexibility concepts are developed in the prototype, not only in the architectonic design, but also in the way they are produced and built. The flexibility of the prototype is reflected in:

- The use of the spaces.
- The combination possibilities, shapes, and sizes the house can have.
- The ability to adapt to different economies depending on the user, being the main components of the space (skin, closets and isles) fabricated in different ranges, offering different solutions from least to most expensive.
3.3 PROJECT DEVELOPMENT AND CURRENT STATE

Since last April, the prototype has reached a greater definition level. Moreover, the team has begun to study how to manufacture it and transport it for its assembly in Madrid.

Except for August, the team has kept its by-weekly meetings between the universities’ coordinators, the Faculty Advisor and the managers. Also, there have been meetings with the whole crew (teachers and decathletes) and other partial meeting between teachers studying the same material or involved in the design of a specific area of the prototype. These meetings were mainly carried out in Sevilla and Antequera (Málaga), because it is close to the four Universities.

During these months, the work has consisted of:

1. Determination of the size for the living modules and their conceptual definition: skin, closets and isles.

2. Design and calculation of the living module´s structure, taking into account the stresses produced during the unloading, assembly and placement.

3. Constructive solution for the prototype (enclosures and connection details between elements).

4. Design and calculation of the systems.


3.4 CONSTRUCTION BEGINNING

Andalucía Team has signed an agreement with the cityhall of La Rinconada (Seville) to build the prototype of Patio 2.12 in a warehouse donated by the cityhall. Starting on February the construction will begin in the premises of Cáñamo 2. Also, most of the agreements have been signed with the private sponsors that will supply all the materials.
3.5 DISSEMINATION ACTIVITIES AND CURRENT IMPACT

1. An expert decathlete specialized on communication has been selected for the design of internet broadcasting strategies, who has initiated the following activities:

Andalucía Team website has been updated according to proposal advances and new team structure: www.andaluciateam.org

A Facebook profile has been created for team news, meetings schedule, broadcasting events and SDE releases to be published. We are amongst the small group of teams that has reached the 1000 followers. http://www.facebook.com/pages/Andalucia-Team/186734318028644

A twitter account has been also created for similar reasons where all members and followers can freely twit their impressions about the project. It have 267 followers: https://twitter.com/AndaluciaTeam

The communication team is constantly working on social network with the goal of creating a wider presence online and further reach of the events related with Solar Decathlon.

2. The team has published information brochures delivered as a presentation for Andalucía Team and PATIO 2.12 for diffusion and sponsor search. The brochure has a double format design: A diptych for digital platforms, and a triptych for paper publishing.

3. The team has also produced information panels and automatic computer presentations as diffusion material for stands present on thematic fairs related to SDE.

4. The organization has produced two 2 metres high banderols with an integrated light structure, to be assembled and disassembled on site on every diffusion event taking place.

5. PATIO 2.12 has been presented by the general team director in two events of great media repercussion in Andalucía:

SILCS (Strategies for Innovative Low Carbon Settlements) workshop, taking place in Seville on March 23th and 24th 2011.

Ecohábitat: Showroom for sustainable architecture, planning and air conditioning, taking place in Jaen on April 7th and 9th 2011, where Andalucia Team had a stand of its own.

The Technological Centers in Andalucía Congress has been celebrated. It was a meeting to introduce the project to Andalusian companies and find private sponsorship. Sevilla, April 26th 2011.

We were present in the Construction Convention, Construmat, to present the model of the team. Barcelona, from March 16th until March 23rd 2011.

Andalucía Team will participate in GreenCities, II Congress on Energetic Efficiency in Building and Urban Spaces. Málaga, from October 6th until October 8th 2011.

10th Science Fair that will take place the days 10, 11, 12 of May 2012 in the Palacio de Exposiciones y Congresos FIBES, Seville. May 2012.

11th Construction and Innovation Week taking place in Granada on May 15-18th 2012, where Andalucía Team had a stand of its own.

6. The most important aspect developed in the Communications Plan for the diffusion of the project Patio 2.12 has been the creation of Manifest 2.12:

In the manifest are explained through icons the concepts positioning our project in the vanguard of the housing design. Andalucía Team, through the house Patio 2.12, is ambassador of the values that the Solar Decathlon competition wants to transmit about innovation, sustainability and energetic efficiency.

The basic goal is to show the public that through our house one can achieve (1) an innovative architecture and construction, (2) a sustainable way of life at home and (3) a more responsible use of energy.

Furthermore, we have designed our own actions; in order to carry them out in the future, and reach both publics defined earlier (1) Future Generation and (2) Present Generation.

7. Another adaptation of our communication message is to promote the story “Looking for the house”. We want it to be used as free teaching material for teachers and parents when dealing with the subject of environmental education:

4. COLLABORATING INSTITUTIONS AND SPONSORING COMPANIES

The Project of Patio 2.12 is supported by the collaboration of the universities of Sevilla, Jaén, Granada and Málaga and the Junta de Andalucía. The managers of the Andalucía Team have contacted more than 30 companies to get them to sponsor the project. Most of them are related with the materials and systems employed in the prototype, still, there are some that are related with the world of communications and publicity.

Our sponsors benefits are:
CATEGORÍAS DE PATROCINADORES

DIAMANTE: + 50.000 €
- logo + stand + web + visita Vip + Conferencias + Tecnología Diamante

PLATINO: 10.000 - 49.999 €
- logo + stand + web + visita Vip

ORO: 5.000 - 9.999 €
- logo + stand + web

PLATA: 2.000 - 4.999 €
- logo + stand

BRONCE: 1.000 - 1.999 €
- logo

BENEFICIOS DE LOS PATROCINADORES

Logo: Aparición del logo de la empresa en todo el material de difusión generado por Andalucía Team. (Publicaciones, Folletos, Web de Andalucía Team, Vestimenta de los Decathlonas, Monolito junto al prototipo en la competición...)

Stand: Posibilidad de utilizar el stand que cede la competición a cada uno de los participantes para poner folletos de interés publicitario de la empresa.

Web: Link a la página de la empresa desde un lugar destacado de la Web de Andalucía Team.

Visita VIP: Disponibilidad del prototipo en horario sin visita de público, para mostrarlo a los clientes de la empresa. (Horario aún por definir por la organización)

Conferencias: Posibilidad de dar una conferencia en cada una de las cuatro Universidades que forman el Andalucía Team y en Colegio Oficial de Arquitectos.

Tecnología Diamante: Nuevo apartado de la Web de Andalucía Team donde las empresas podrán mostrar un artículo sobre las nuevas tecnologías que presente su empresa. (El tamaño del artículo será de 3 formatos A4 en formato PDF)

NOTA: Los tamaños de los Logos dependerán de la jerarquía de patrocinio, renunciando los saltos entre rangos, así como la disposición del espacio en el stand y la posición de los Link en la Web. Una vez conocidos los horarios para las visitas VIP se dará preferencia en tiempo a las empresas de mayor rango de patrocinio.
5. PROJECT IMAGES

1. Renders
Patio view

Kitchen view
Living view
2. Floor plan and section
3. Work meetings or events


10ª Science Fair (Sevilla). May 11th-12th 2012.
Recapacicl (Sevilla). May 10th 2012.


Andalucía Lab (Málaga). March 16th 2012.

Workshop SD Europe (Madrid). October 10th-12th 2011.

Antequera (Málaga). April 29th 2011.

Andalusian Technological Centers Day (Sevilla). April 26th 2011.
Ecohábitat (Jaén). April 9th 2011.

Construmat (Barcelona). March 16th - 23rd 2011.

Managers Agreement Signature (Sevilla). March 6th 2011.
3. Group photos


Organization Chart. September 2011.