

International Energy Agency

Building Competitions as an Incentive for Research, Education and Communication

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Competition & Living Lab Platform – Annex 74



Innovation and Energy Policy for Buildings: International Collaboration to Accelerate Change

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UPM Magic Box, US SD2005



UPM Casa Solar, US SD 2007



UPM Casa Black&White, US SD 2009



Solar Decathlon Europe 2010 - Madrid



Solar Decathlon Europe 2012 - Madrid



Solar Decathlon Europe 2014 - Versailles

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International Energy Agency

**Competition and Living Lab Platform (Annex 74)
Subtask B: Solar Decathlon Competitions. Impacts and Performance.**

Energy in Buildings and Communities
Technology Collaboration Programme
November 2021



Technology Collaboration Programme by IEA

OBJECTIVE

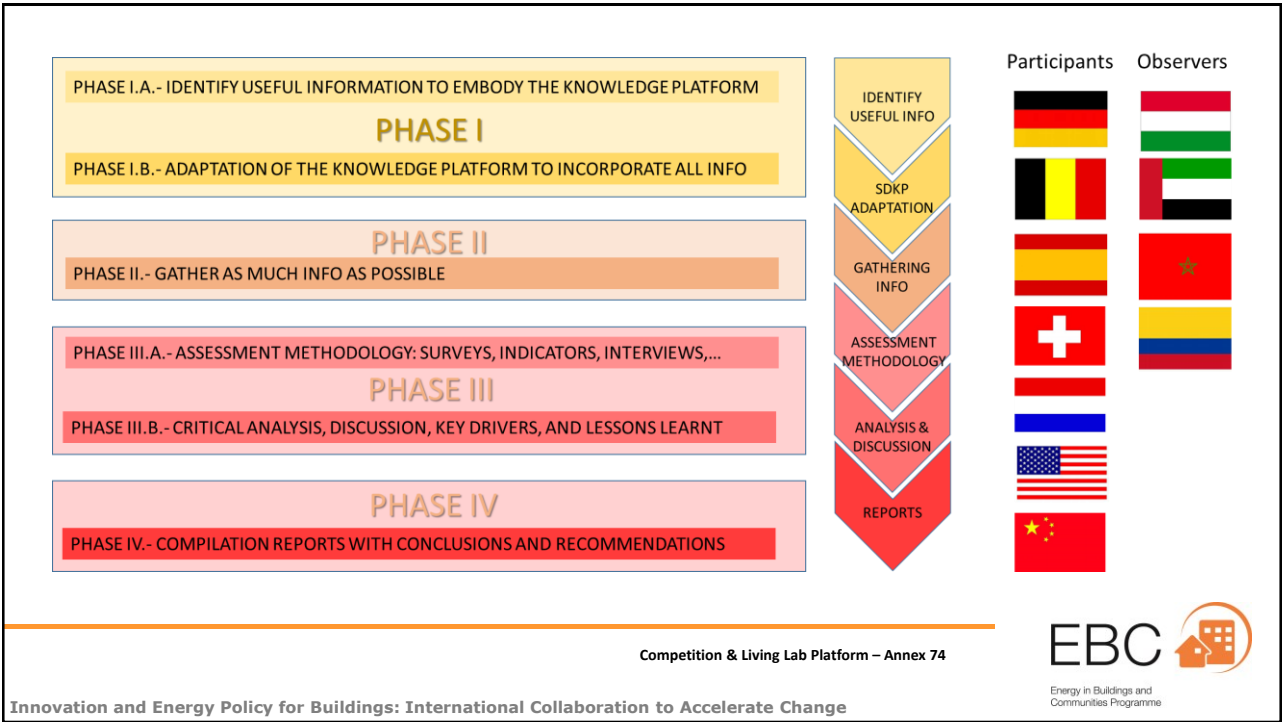
The goal of this report B is to gather all the info, analyse SD Competitions & events as a whole, assess its impacts and performance, identify successful key drivers, and take advantage of this knowledge to learn how to improve them, influencing the direction and content of next editions, as well as new competition formats.

CONTENT:

- Methodology
- Solar Decathlon and linked Events
- Impacts in Education, communication and people awareness
- Surveys and key performance indicators
- Key drivers for successful SD competitions

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OBJECTIVES OF THE SOLAR DECATHLON EUROPE

- 1. TO GENERATE knowledge** on the industrialization and sustainability of houses, bringing out suitable scientific benefits as well as the fruitful dissemination of knowledge, and **technology transfer to professionals and industry**
- 2. TO TAKE ADVENTAGE OF SOCIAL INTEREST AND HIGH MEDIA IMPACT TO MAKE students, professionals, and the general public aware of environmental and sustainability issues**, especially in the responsible use of energy and natural resources, promoting the use of the renewable energies, improving energy efficiency, ...

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EBC
 Energy in Buildings and Communities Programme

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Contests US SOLAR DECATHLON

Architecture	100	200
Engineering	100	
Net Metering	100	100
Comfort Zone	100	500
Lighting Design	100	
Hot Water	100	
Appliances	100	
Home Entertainment	100	
Communications	100	200
Market Viability	100	

Contests SOLAR DECATHLON EUROPE

Architecture	Architecture	120	200
	Engineering & Construction	80	
Energy	Energy Efficiency	100	220
	Electrical Energy Balance	120	
Comfort	Comfort Conditions	120	240
	House Functioning	120	
Social Economic	Communication & Social Awareness	80	160
	Industrialization & Market Viability	80	
Strategic	Innovation	80	180
	Sustainability	100	

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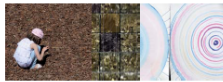


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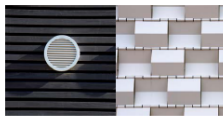
10ACTION project



The European Project 10ACTION uses the values which boost the SDEurope Competition to raise awareness in European society to achieve the objectives of EU energy policy. These values encourage a responsible use of energy, greater energy efficiency, improvement in sustainability and usage of renewable energies in housing design.



10ACTION consists on a set of activities designed and adapted to five different target groups: children, teenagers, university students, professionals of the building sector and general public.



European partners of 10ACTION



sd europe
 Institutional collaborators of SDEurope: infrastructures Ministry of Spain - Technical University of Madrid - IIS Solar Decathlon and Department of Energy - European Union - City Council of Madrid - Institute for the Diversification and Energy Saving of Spain. Sponsors of SDEurope: Saint Gobain - Schneider Electric - FGD Citizen Services - Rockwool - Komerling.

The Solar Decathlon Europe Competition is an international university competition in which each participating university builds a solar & energy sustainable house using market tested technologies.
www.sdeurope.org



Actions to Increase Energy Awareness and Sustainable Behaviour in European Citizens
www.10action.eu

FOR A SUSTAINABLE FUTURE



ten act10n

Supported by INTELLIGENT ENERGY EUROPE

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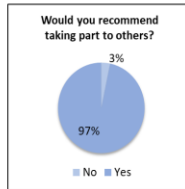
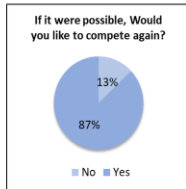
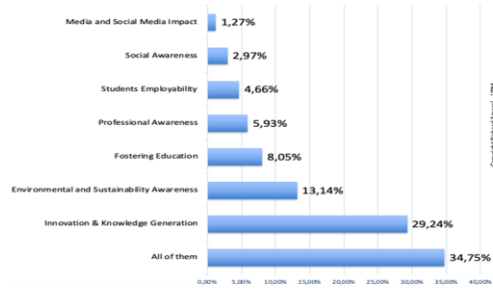
- 34 collaborating countries
- 60 Universities participating
- 600 researchers and PhD Students
- 3.500 Volunteers
- 25.000 children and teenagers
- 7.000 university students
- 25.000 professionals from 12 EU member countries
- Scientific output (books, papers, PhDs, patents)
- 680.000 people participating
- Estimated over 700 Million reached

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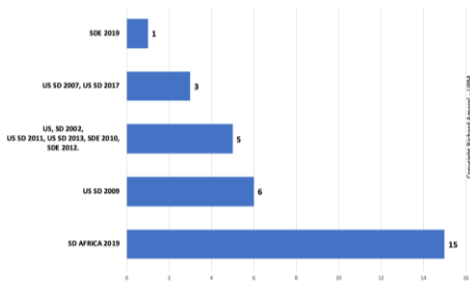


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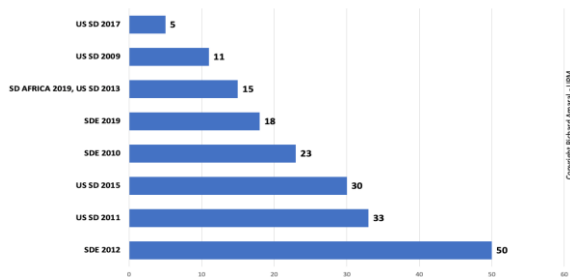
In your opinion which is the main reason why you are satisfied with SD?

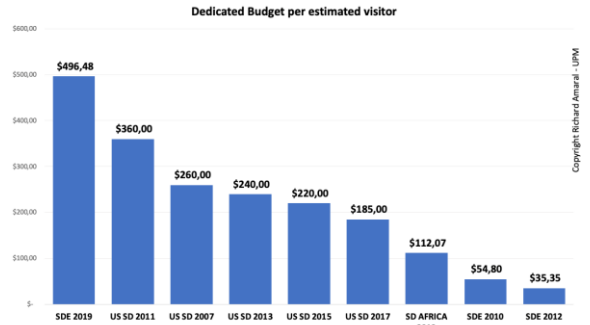
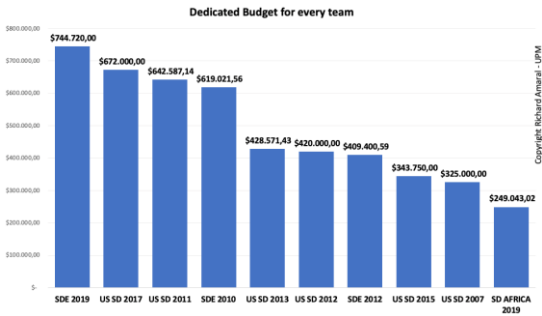


N° of companies funding in cash



N° of companies funding in kind

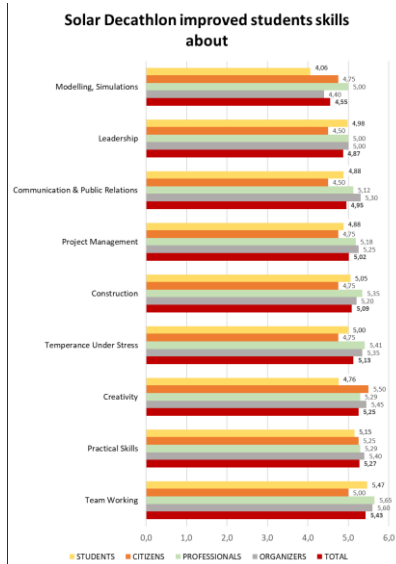
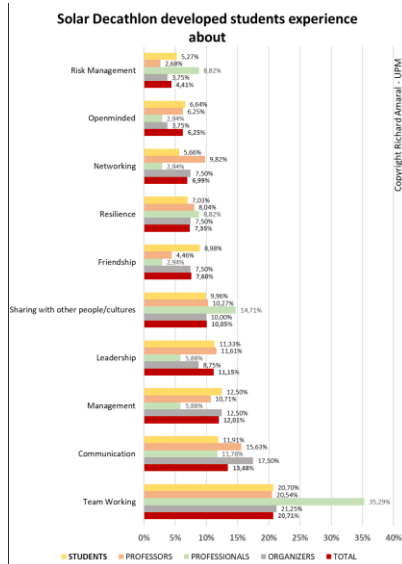




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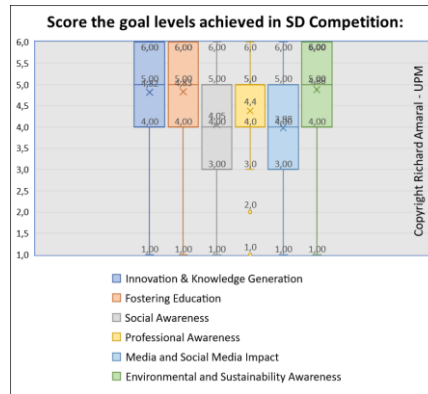
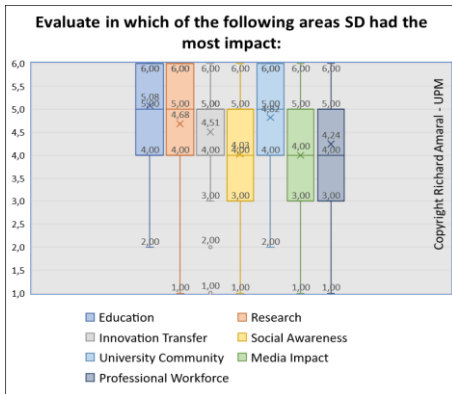
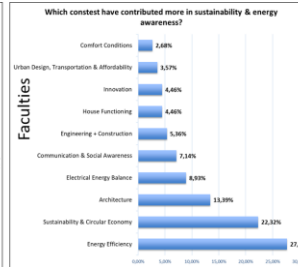
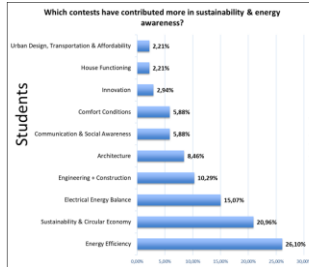
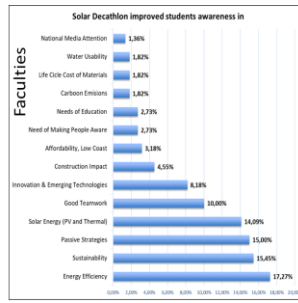
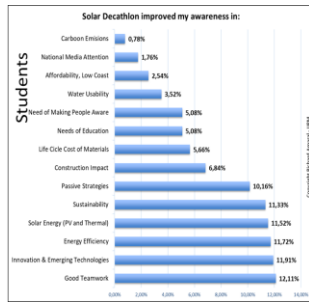
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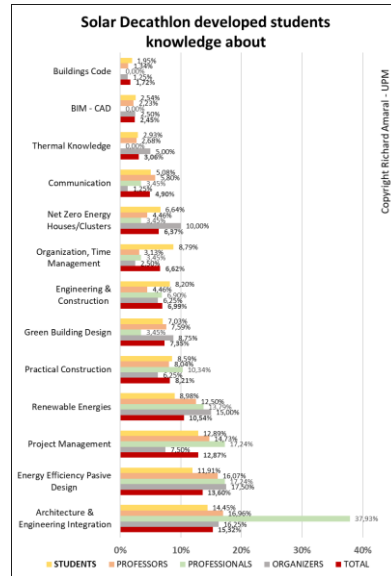
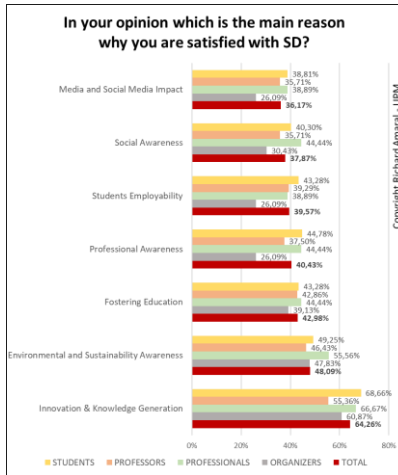


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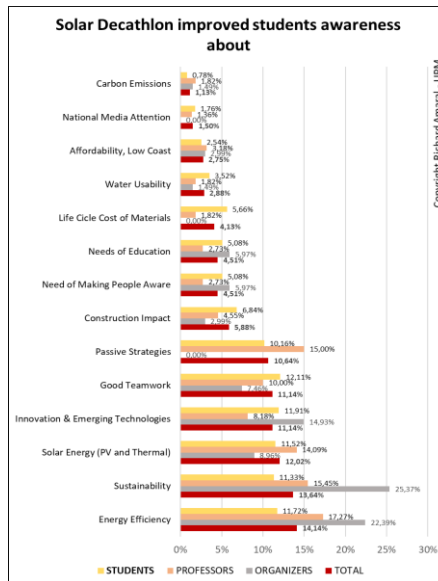
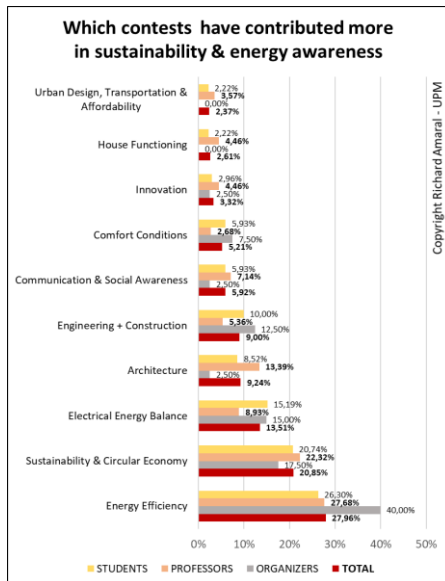




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