Smart Green Island Makeathon 2023

Extended Summary

01.03.2023 – 04.03.2023

ITQ

competence in mechatronics
software and systems engineering

Our Mission & Vision

Model for Sustainable Life and Innovative Education 4.0

Overview Participants – Smart Green Island Makeathon

Companies

Universities, Vocational & Professional Schools

Young Talents

Smart Green Island Makeathon Sponsors 2023

National and International Companies & Partners

Sponsoring Level

Platinum

B&R

MURR ELEKTRONIK
stay connected

igus

BECKHOFF

Gold

Cabildo de Gran Canaria

FUNDACIÓN SERGIO ALONSO

VISHAY
The DNA of tech.™

Lorenz
Deutsche Wasserzähler

MathWorks

Silver

Cabildo de Gran Canaria
spegc
Sociedad de Promoción Económica

TRUMPF

OPTIMA

AGCO
Your Agriculture Company
FENDT

HRI
Honda Research Institute EU

MVTec Software GmbH

GRUPPO ASA

PACKAGING VALLEY

Bronze

SIGMATEK

BÖLLHOFF

HYUNDAI

ISG

teammt
marketing 4 tomorrow

I.E.S. El Rincón

CANARAGUA

dolde engineering

MITTELSTANDSAKADEMIE BAYERN

VDMA
Nahrungsmittelmaschinen und Verpackungsmaschinen

Universities, Institutions and Professional Schools

ITQ

Hochschule Aalen

Technische Universität München

Universität Duisburg Essen

Hochschule Augsburg University of Applied Sciences

iwb e.V.

Hochschule Rhein-Waal Rhine-Waal University of Applied Sciences

Hochschule Kempten University of Applied Sciences

HM Hochschule München University of Applied Sciences

Technische Hochschule Rosenheim

Technische Hochschule Nürnberg Georg Simon Ohm

Technische Hochschule Ingolstadt

FH University of Applied Sciences Technikum Wien

RWTH Aachen University

thws Technical University of Applied Sciences Würzburg-Schweinfurt

Universidad de Las Palmas de Gran Canaria

Fachhochschule Nordwestschweiz

Hochschule Bremerhaven

KIT Karlsruher Institut für Technologie

UVIC Universitat de Vic Universitat Central de Catalunya

IQS Persona Ciencia Empresa Universitat Ramon Llull

ADDI

Hochschule Reutlingen Reutlingen University

SUP'COM Higher School of Communication of Tunis

University of Botswana

iu International University of Applied Sciences

Motion Lab Berlin

insat

Universidad de los Andes

Universität Rostock Traditio et Innovatio

University of Cambridge

Hochschule Fresenius

Uniwersytet Łódzki

I.E.S. El Rincón

UVa

Università degli Studi della Repubblica di San Marino

BITRI

Human Resource Development Council Botswana Our People · Our Future

Constantine 3

Kanton St.Gallen Gewerbliches Berufs- und Weiterbildungszentrum St.Gallen Schule für Gestaltung St.Gallen

TUL

IES Ana Luisa Benítez

Indo Euro Synchronization Education and Research Resources

IES Lomo de la Herradura

IES José Zerpa

CIFP San Cristóbal

université Paris-Saclay

Tony Gallardo

ENSIAS

Mohammed VI Polytechnic University

WRO World Robot Olympiad

TECHNIK BEGEISTERT e.V.

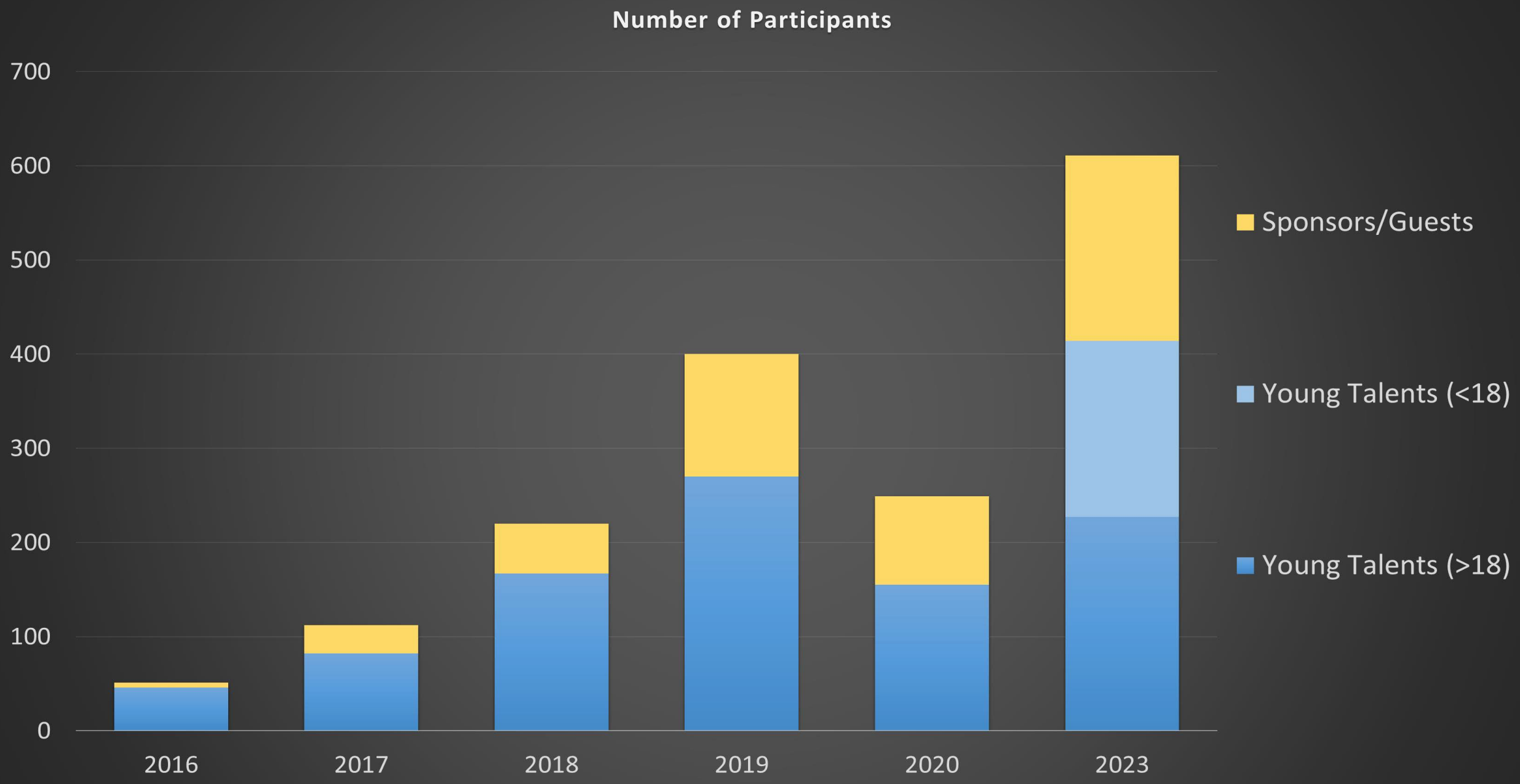
Smart Green Island Makeathon & Educational Technology Workshops – All Participants

Smart Green Island Makeathon 2023

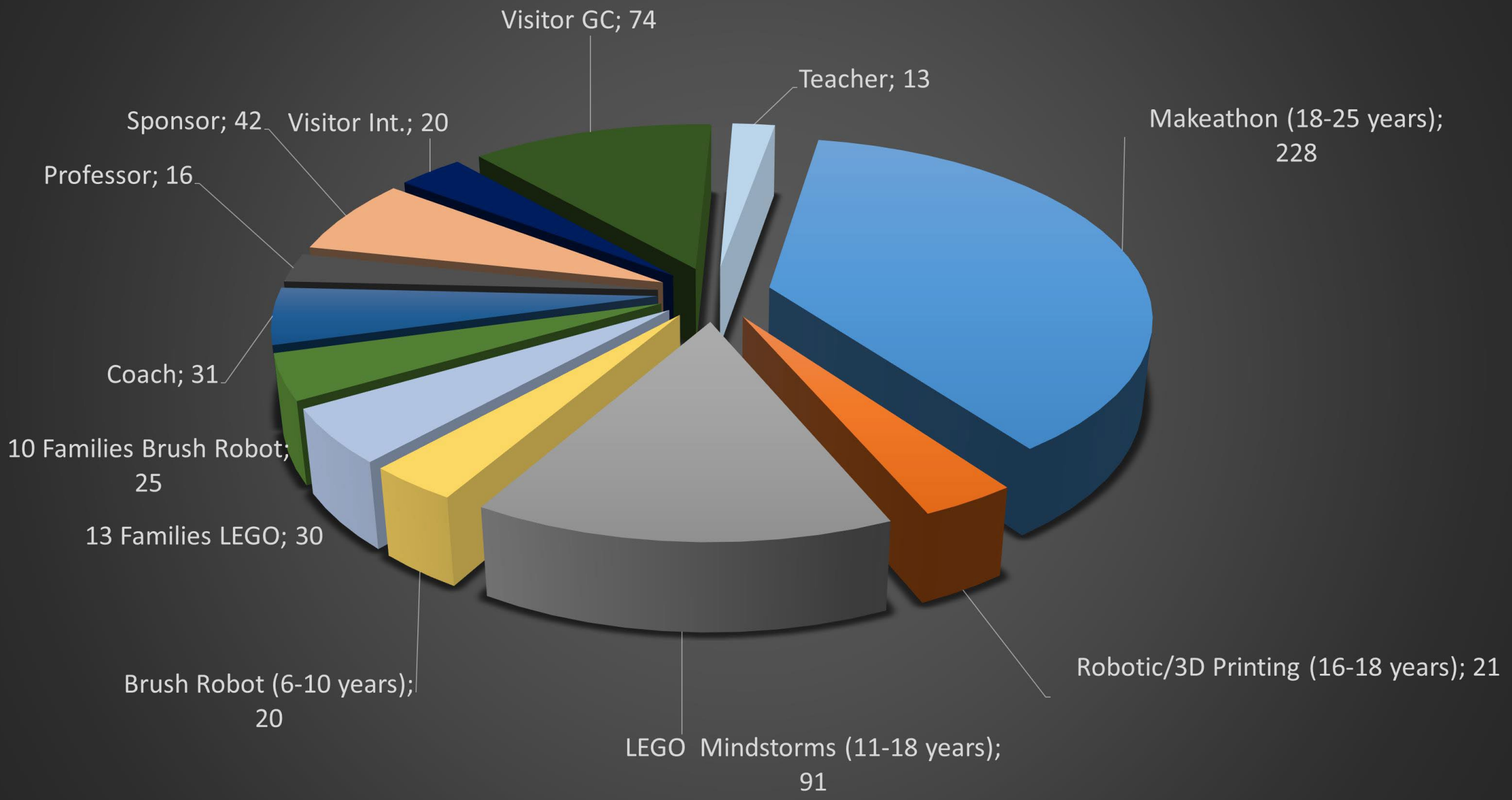
611

Participants

Makeathon (18-25 years)			
Robot & 3D Printing (12-18 years)			
LEGO Mindstorms (10-16 years)			
Brush Robot (6-10 years)			


Number of Participants
700
600
500
400
300
200
100
0
2016
2017
2018
2019
2020
2023
Sponsors/Guests
Young Talents (<18)
Young Talents (>18)

Overview: Makeathon & Education (All categories)



Participants – Young Talents, Visitors, Guests

Smart Green Island Makeathon 2023

364

Participants

29

Countries

Young Talents, Universities, Professional Schools

Smart Green Island Makeathon 2023

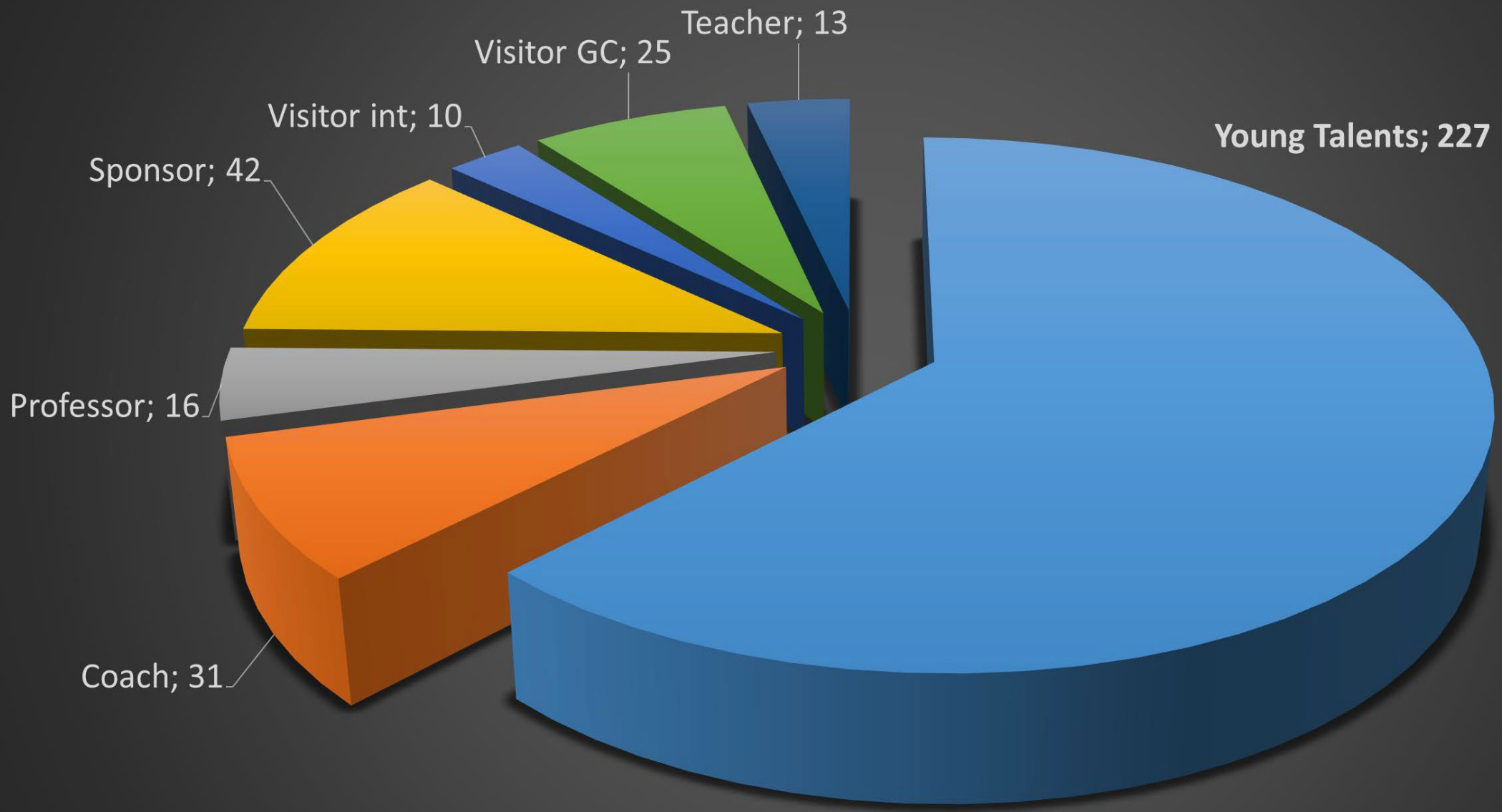
228

Young Talents

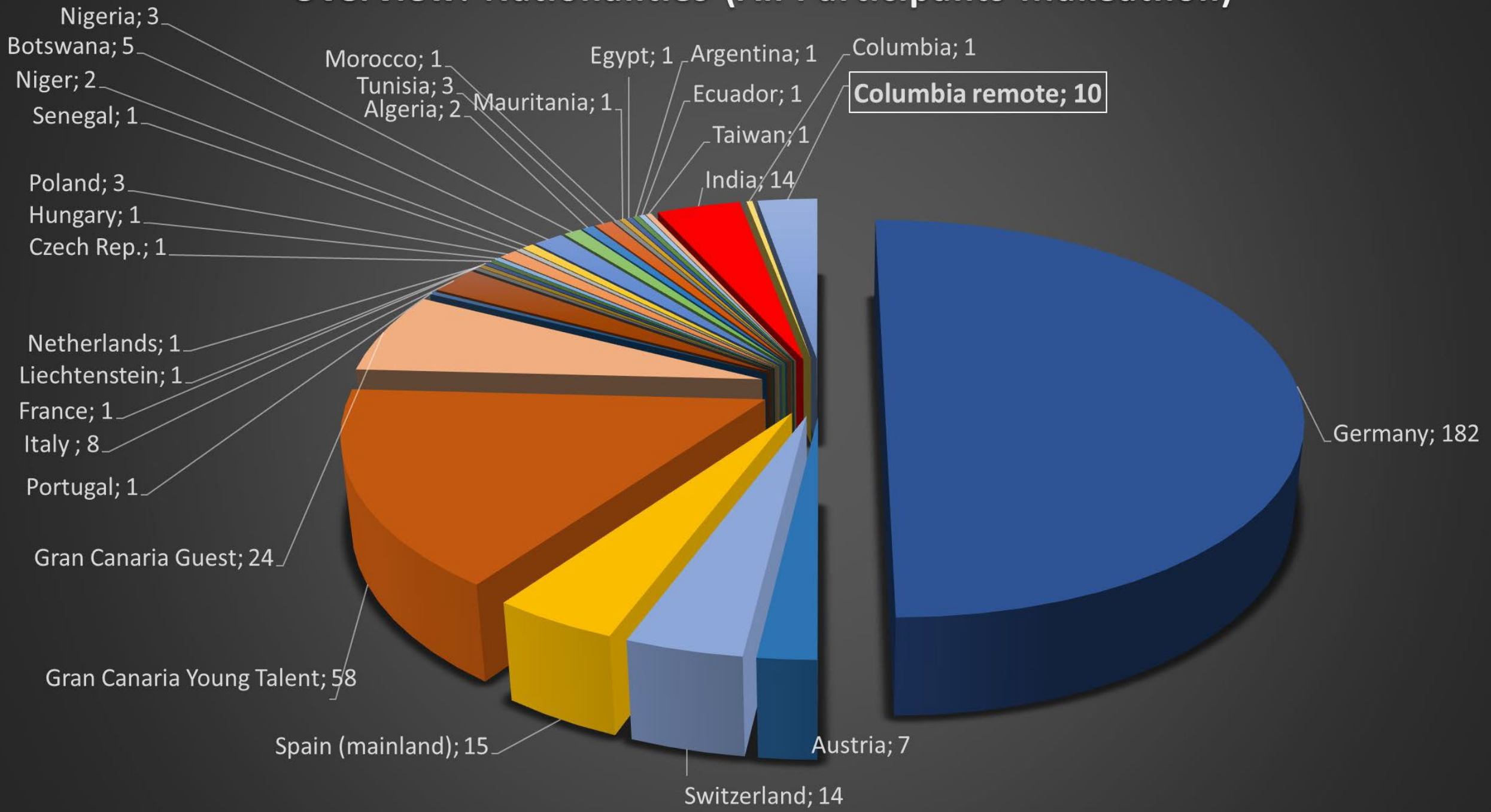
48

Universities

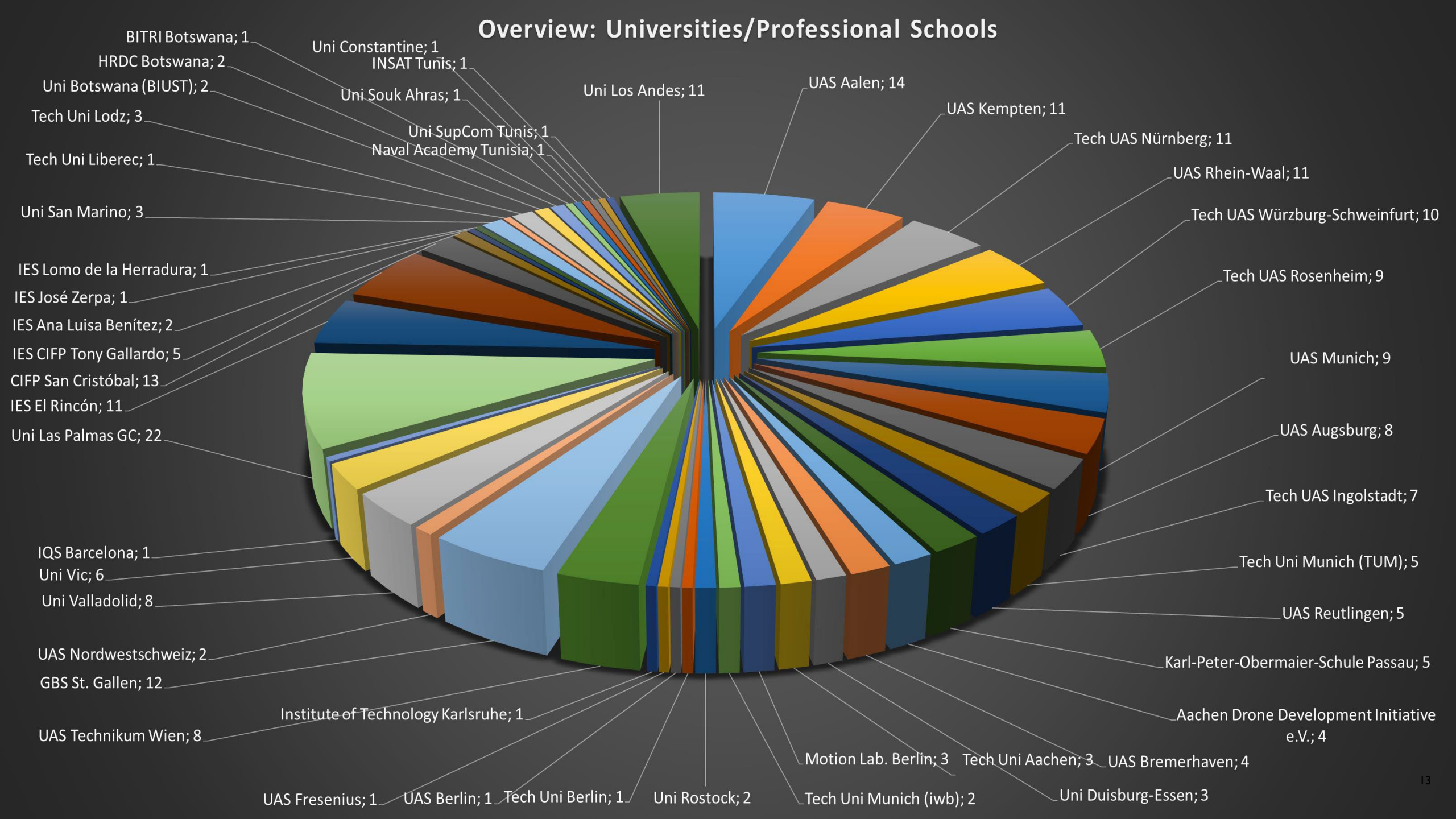
Overview: Makeathon (All categories)



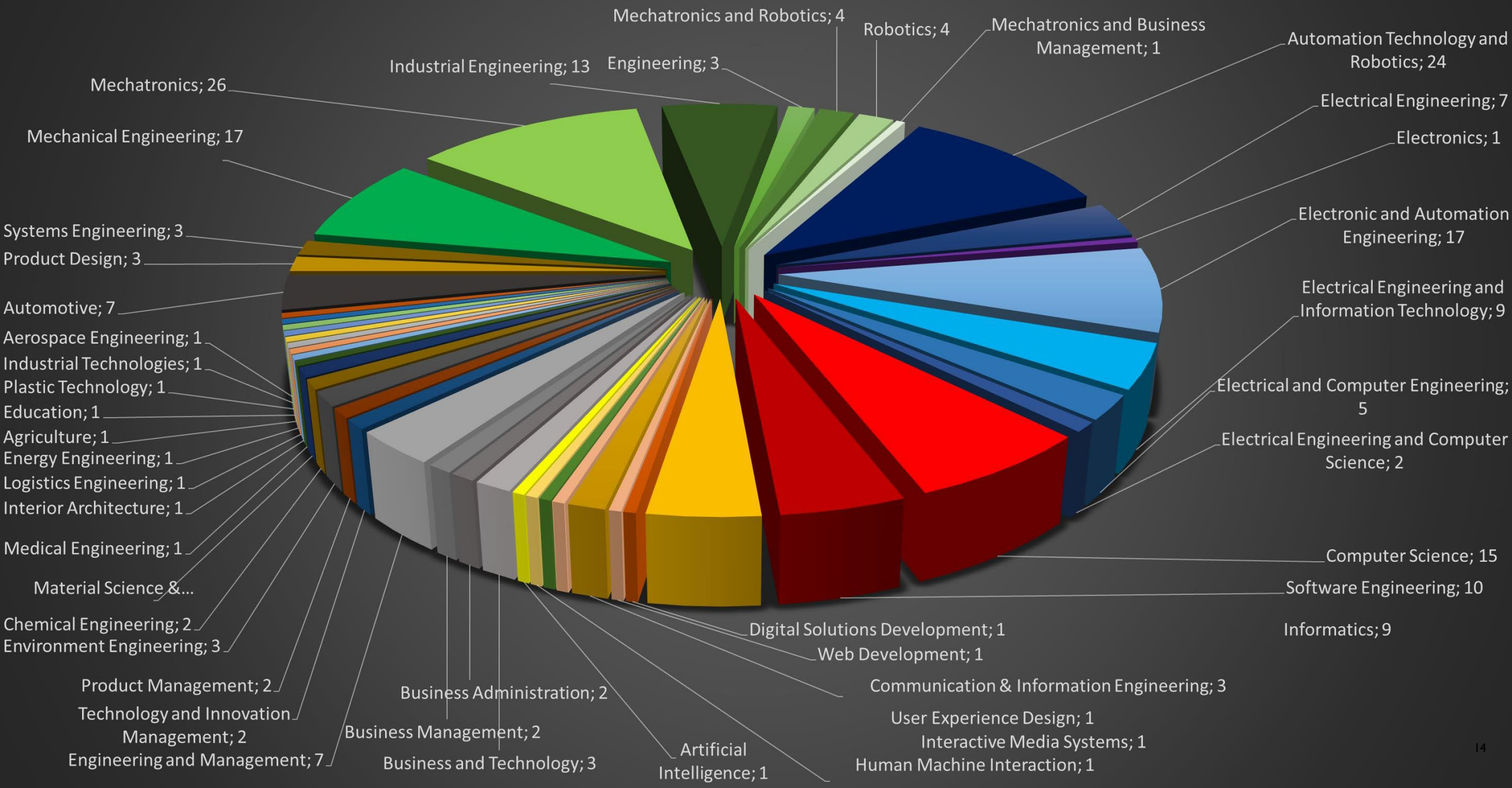
Overview: Nationalities (All Participants Makeathon)



Overview: Universities/Professional Schools



Overview: Field of Studies



29 Countries

Smart Green Island Makeathon 2023

Facts & Figures

Smart Green Island Makeathon 2023

Facts & Figures

Smart Green Island Makeathon 2023

- 611 Participants
  - 228 Young Talents coming from 48 Universities, Vocational & Professional Schools of 29 Countries
  - 68 Guests from Industry, Institutions, Research, Politics
  - 25 Local Visitors

- Visit of High Ranking Guests
  - President of Gran Canaria, Mr. Antonio Morales Méndez
  - Technical Coordinator of Environment and Energy on Gran Canaria, Mr. Raúl García Brink
  - Family of Domingo Alonso Group

- 42 Representatives of 17 Companies
  - Managers, Senior Engineers, Consultants

- Sponsors
  - 21 Companies – Europe
  - 6 Local Canarian Sponsors

Facts & Figures

Smart Green Island Makeathon 2023

- 24 Teams were working on different Challenges like
  - Smart Recycling & Circular Manufacturing, Smart Farming
  - Smart Watering & Green Energy, Safer Workplace, Smart Mobility…

- 9 Educational Technology Workshops for 150 Pupils & Kids
  - Robot & 3D Printing – 3 Workshops with a collaborative Robot
  - LEGO Mindstorms – 4 Workshops half a day
  - Brush Robots – 2 Workshops half a day

- 228 Young Talents, 24 Teams
  - 4 Long Working days almost ***>10.000 Hours of Engineering***
  - 24 Presentations every day ***> 96 Presentations, Pitches***
  - Stand up Meetings every morning
  - Prototyping

Facts & Figures

Smart Green Island Makeathon 2023

- 1 Livestream with over 50 Participants in Live Audience
  - Interviews on the Subject – MAKEATHON & EDUCATION 4.0
    "How to secure Young Talents for the Future?"

- 3 Network Events with more than 100 Participants
  - National & International Professors as well as Companies meet Gran Canaria
  - National & International Professors meet Professors and Companies
  - VIP Network Event for Companies, Professors, Institutions as well as local VIPs
  - Visit of a Delegation from Botswana

- 450 kg of Hardware
  - 9 3D Printers
  - 6 Robots
  - And much more…

Large Variety of Material

Smart Green Island Makeathon 2023

1. Kits

- 6 x Various Robots
- 3 x Maker Beams
- 1 x Drone
- And much more…

2. Tools

- 9 x 3 D Printers
- 4 x Workbenches
- And much more…

3. Construction

- 20 x Motors
- 20 KG x Filament
- 5 x Drives
- 2 x Solar Panels
- And much more…

4. Developer Boards

- 33 x ESP 8266/ESP 32
- 15 x Various Arduino Boards
- 15 x Raspberry Pies
- 8 x PLCs
- And much more…

Overview of our Events

Smart Green Island Makeathon 2023

Visit of Gran Canarian President

VIP Event

Remote Team in Bogota

Brush Robot Workshops

LEGO Mindstorms Workshops

Robot & 3D Printing Workshops

Teams Overview – 24 Teams

Smart Green Island Makeathon 2023

Teams Overview

1. Smart Recycling & Circular Manufacturing

BottleCut

Fila Pet

Sandstorm

Seaweed Sorters

weSeaWeed

Garbage Detection & Collection

Teams Overview

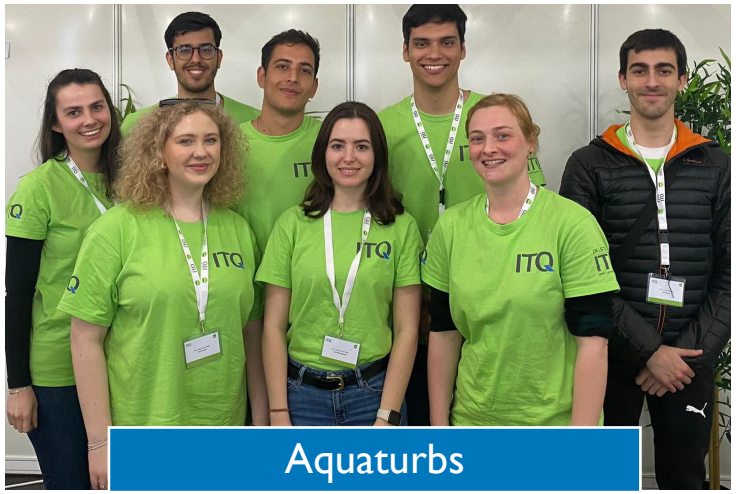
1. Smart Recycling & Circular Manufacturing

Flying Fish

Taburiente

Teams Overview

2. Smart Farming


Aquaturbs

Bogota

Duck Norris

Farming

Fish Farm

Mushroom Cultivation

Teams Overview

2. Smart Farming

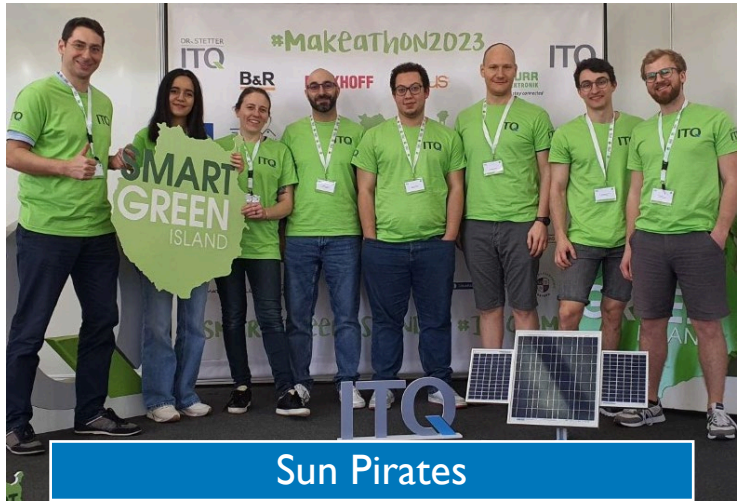
Soil Production

Teams Overview

3. Smart Watering & Green Energy

GBT Watering

OHM



Sun Pirates

The Enginerds

Watering Smart

Teams Overview

4. Safe Workplace

Cable Kitchen

Exolutions

Lyft Up

Teams Overview

5. Smart Mobility

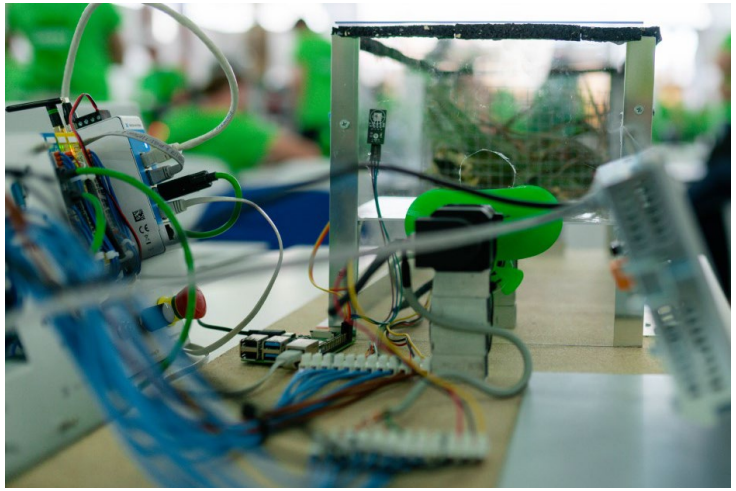
Solar Scooter

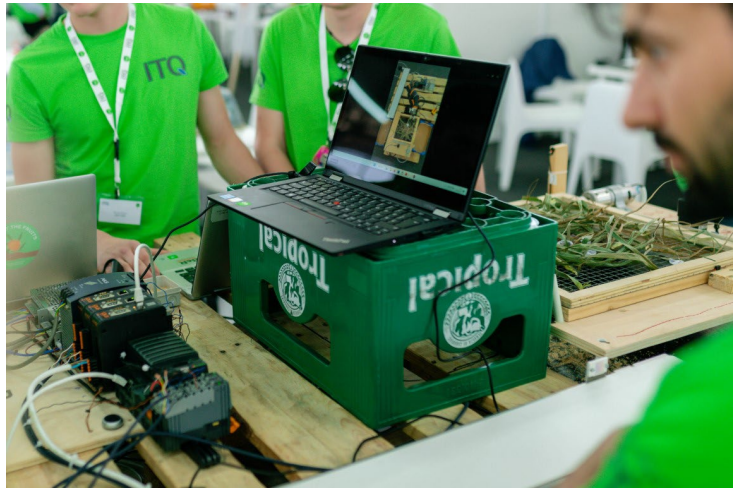
Prototypes Overview – 24 Teams

Smart Green Island Makeathon 2023

1. Smart Recycling & Circular Manufacturing

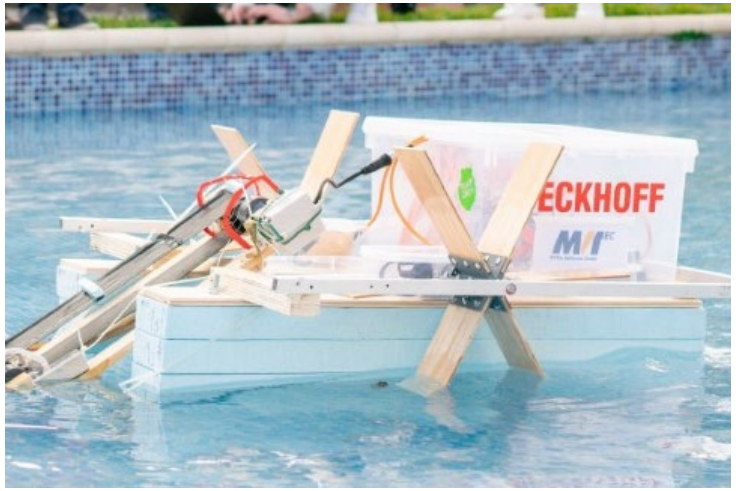
Prototypes





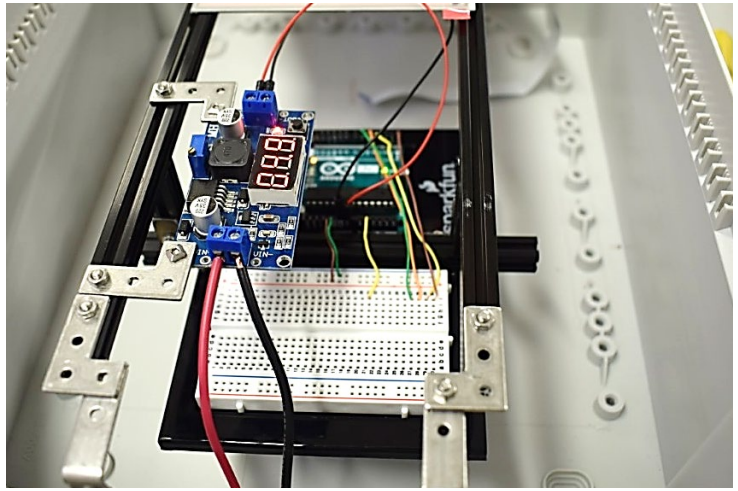
1. Smart Recycling & Circular Manufacturing

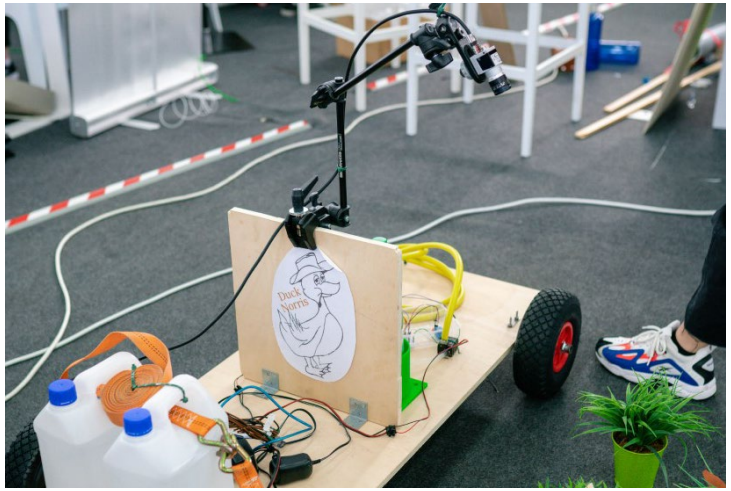
Prototypes

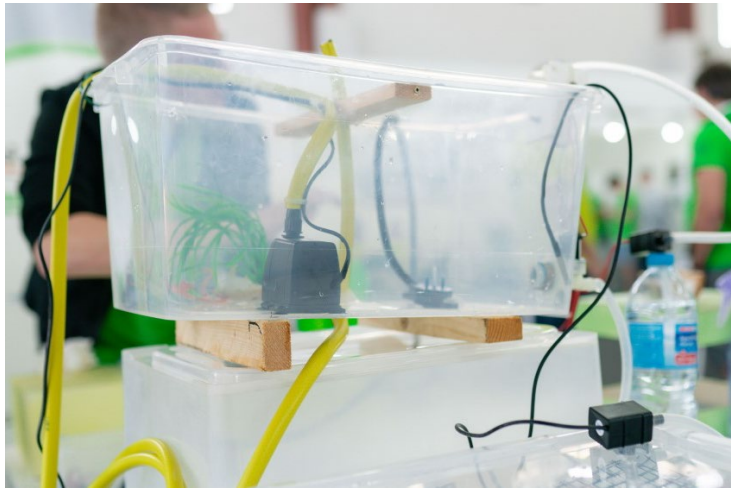


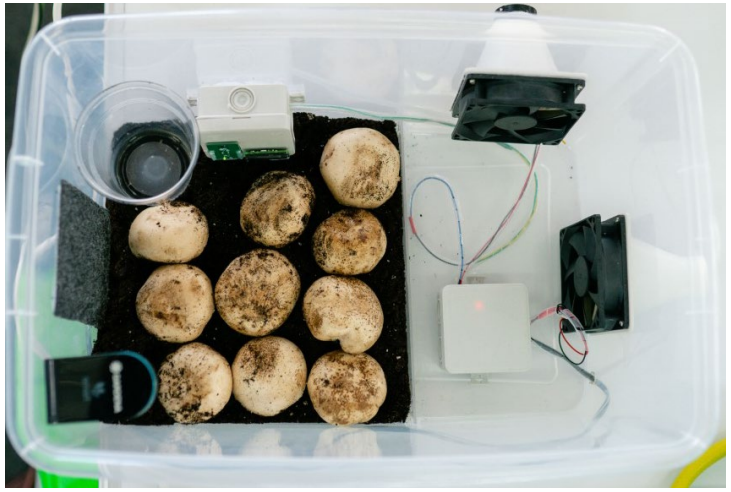
2. Smart Farming

Prototypes



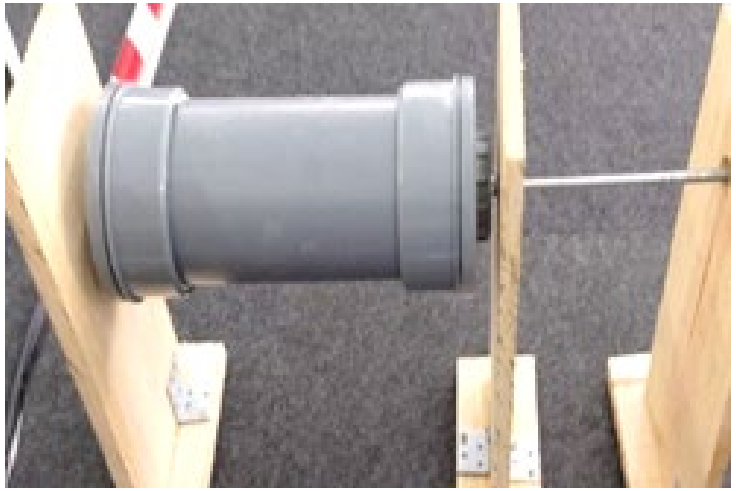


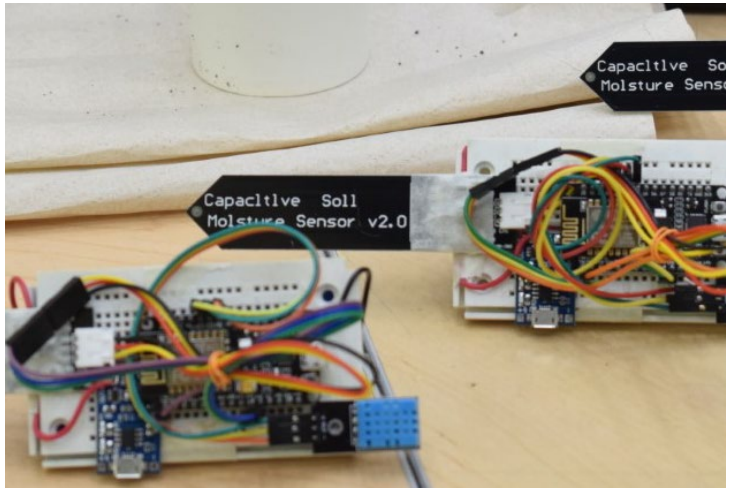




2. Smart Farming

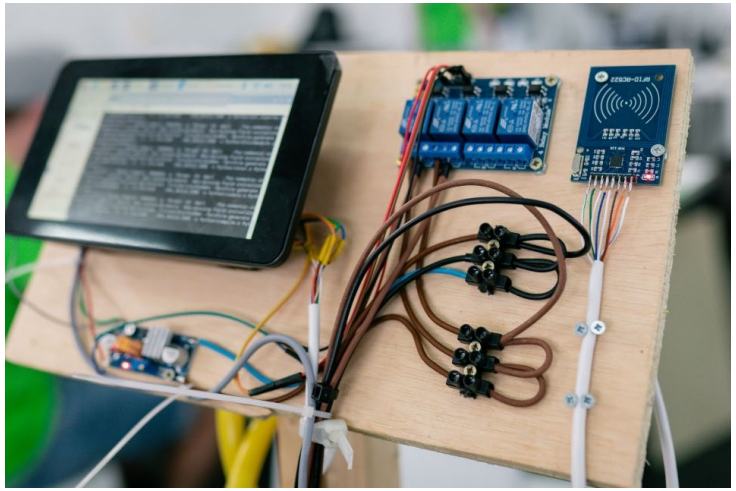
Prototypes

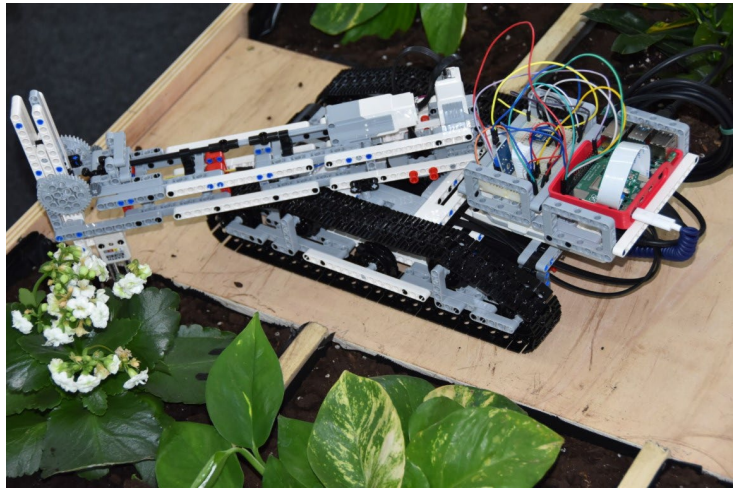


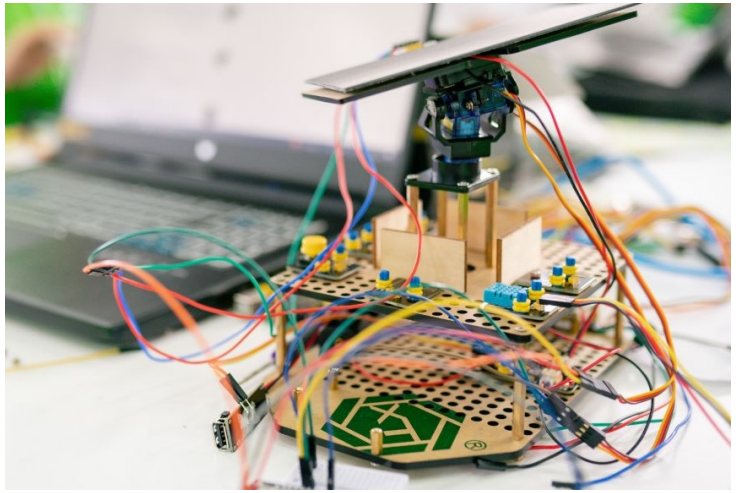


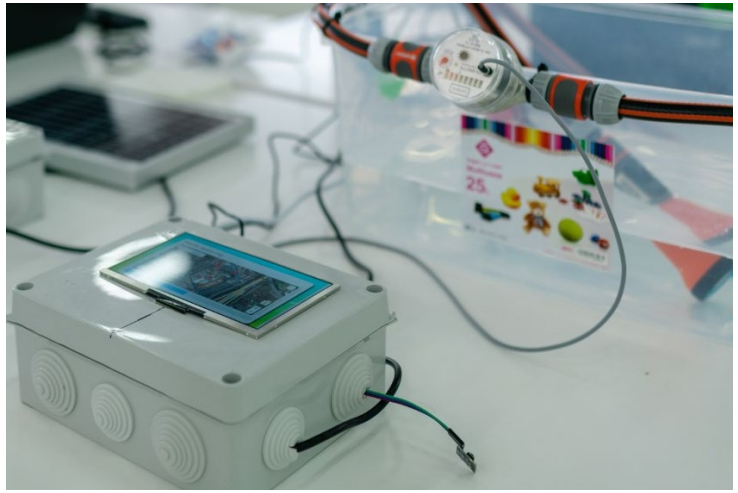
3. Smart Watering & Green Energy

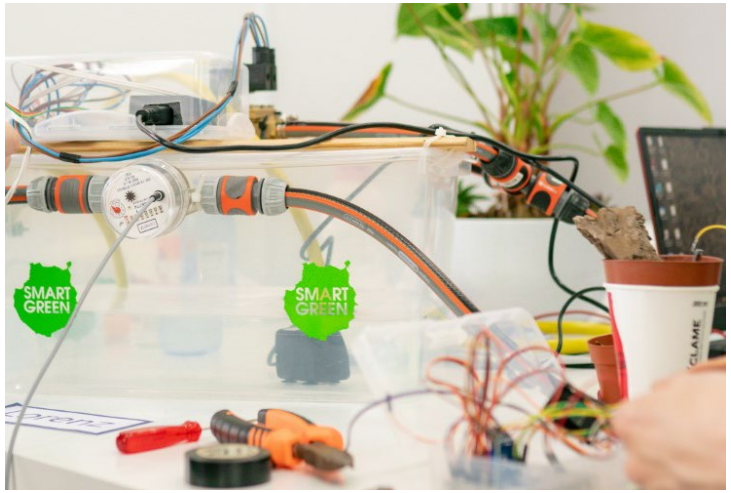
Prototypes





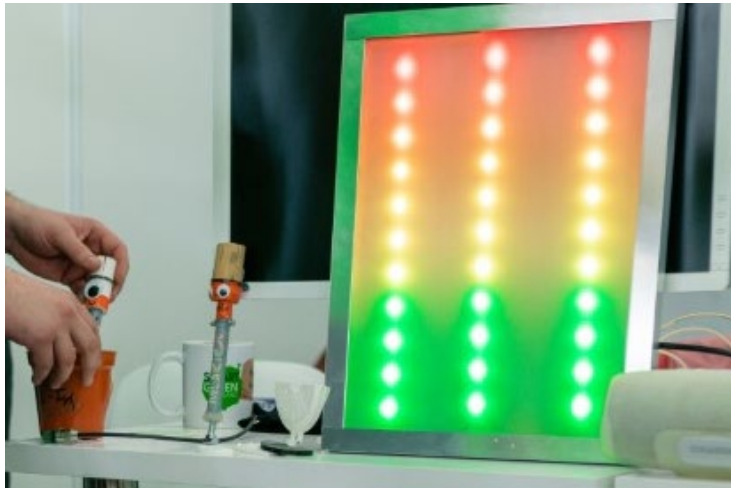






4. Safer Workplace

Prototypes



5. Smart Mobility

Prototypes

Impressions

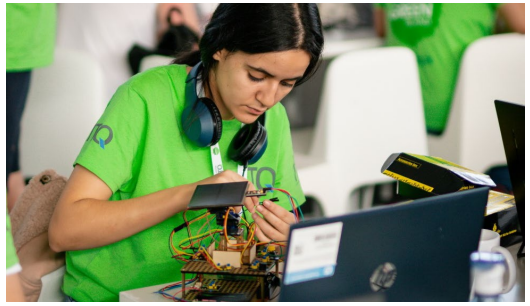
Smart Green Island Makeathon 2023

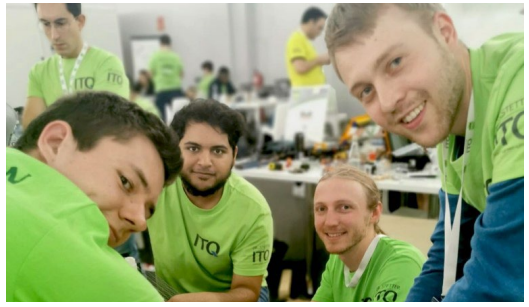
1st Day: Opening

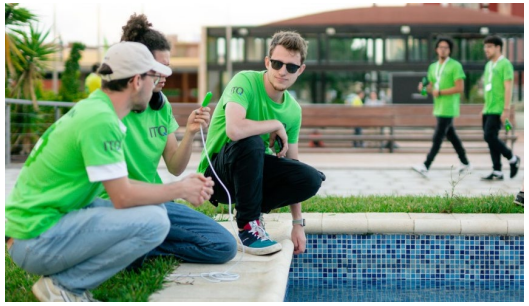
Smart Green Island Makeathon 2023

2nd Day: Making

Smart Green Island Makeathon 2023





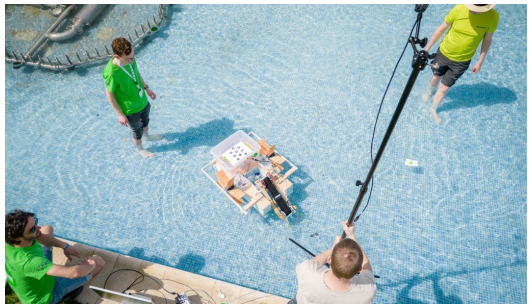


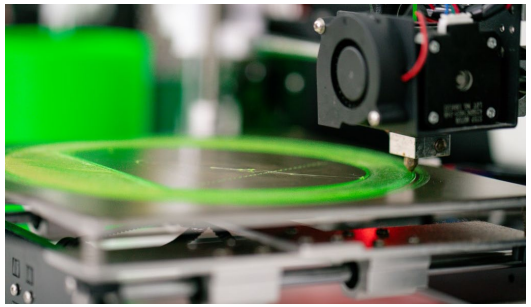
2nd Day: Visit of Gran Canarian President

Smart Green Island Makeathon 2023

3rd Day: Making

Smart Green Island Makeathon 2023





3rd Day: VIP Event@Smart Villa

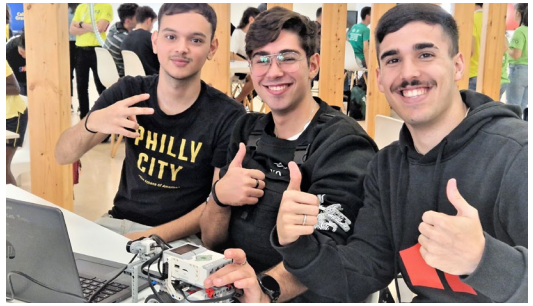
Smart Green Island Makeathon 2023

4th Day: Results and Presentations

Smart Green Island Makeathon 2023

Highlights of Educational Technology Workshops

Smart Green Island Makeathon 2023



Highlights

Smart Green Island Makeathon 2023

SMART GREEN ISLAND MAKEATHON 2023