

# Handbook

## Smart Green Island Makeathon 2023

01.03.2023 – 04.03.2023



**SMART  
GREEN**  
ISLAND

**ITQ**

competence in mechatronics  
software and systems engineering

# Project Team Members

## Smart Green Island Makeathon 2023

### ■ Marketing

- Mr. Anis Kossentini
- Mrs. Caroline Schiller

### ■ Coaching, Moderation, Technical Workshop

- Mr. Stefan Zombori
- Mr. Jonas Fischer

### ■ Team Gran Canaria

- Mr. Lars Bornecke
- Ms. Fatima Abdelfatah



Anis Kossentini



Caroline Schiller



Stefan Zombori



Jonas Fischer



Lars Bornecke



Fatima Abdelfatah

# Handbook Overview

- Locations – Overview (Las Palmas, Event Location)
- Smart Green Island Makeathon Agenda
- Corona Measurements, Support on Site, Catering, Material, MAKEATHON T-Shirts
- Communication before and during the Event
  - Latest News through our WhatsApp Group
  - All Information during the Event through our Slack Channel (Link/QR Code)
- Registration – Technical Workshops
- How to build a Team?
  - Recommended size of Teams
  - Industry Challenge Registration Process
- Social Media Channels/Publication Guidelines

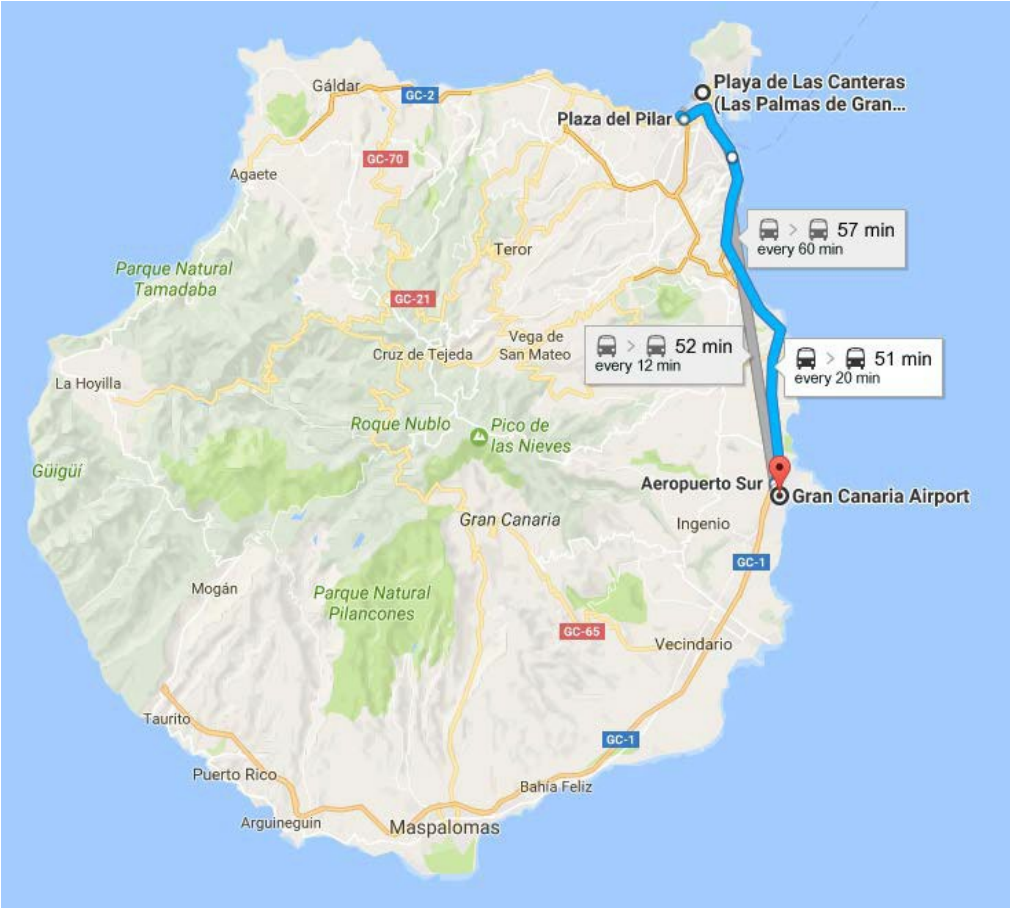
# Locations – Overview

**Location: Infecar, Av. de la Feria, I, Las Palmas, Gran Canaria**





# How to get to Las Palmas?



- You can get from the airport to Las Palmas (capital of Gran Canaria) by bus within 1 hour
- You take line 60 – the grey marked buses go to the beach area, the other buses end in oldtown
- Or you go by taxi for ~30€

60	Las Palmas de G.C. San Telmo - Aeropuerto Gran Canaria																					
	Aeropuerto Gran Canaria – Las Palmas de G.C. San Telmo																					
	Horas																					
Diario / Daily / Täglich	minutos																					
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						45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
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[More Information at GuaguasGlobal Airport Bus](#)

# How to get to the event location?

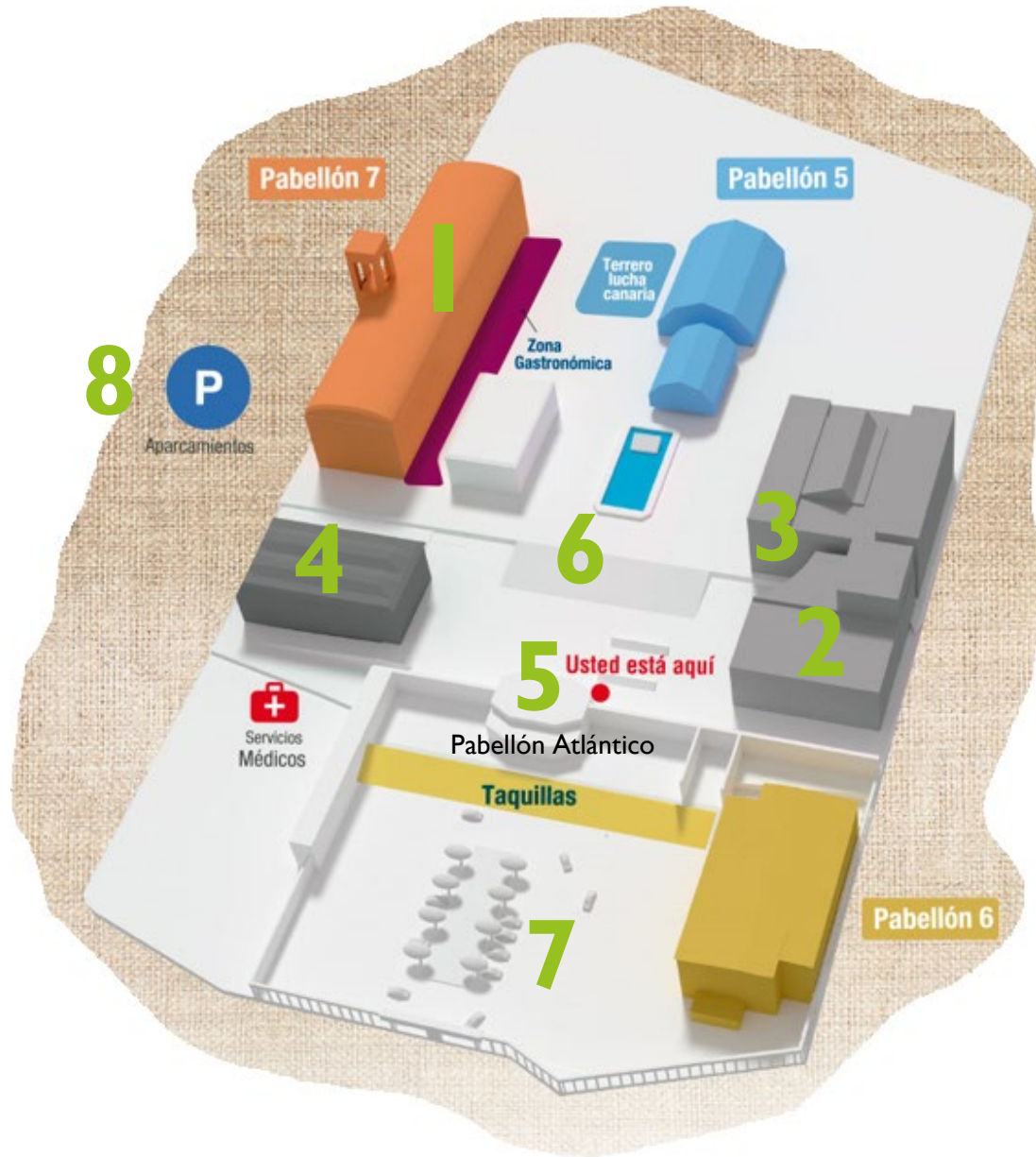
Address of the Event: **Infecar**, Avenida de la Feria I, Las Palmas de Gran Canaria

- From the beach area you can use the bus lines 24 or 21 to **Infecar**
- From Vegueta you can take the buses 11 or 91 to **Infecar**





# INFECAR Location



1. **Pabellón 7**
  - Making & Hacking
2. **Palacio de Congresos**
  - Opening & Final Presentations
3. **INCUBE Building**
  - Company meets Gran Canaria
4. **CDTIC**
  - Sponsor Technical Workshops
  - Daily Presentations
  - Meet & Greet
  - LEGO, Brush Robot, Robot & 3D Printing Workshops
5. **Pabellón Atlántico**
  - Check-in
6. **Outside Area**
  - Relaxing & Come Together
7. **Parking**
8. **Parking (external)**

# AGENDA

**01.-04.03.2023, Las Palmas | Gran Canaria**

**Location: Av. de la Feria, 1, 35012 Las Palmas de Gran Canaria**

# Agenda – Tuesday, 28.02.2023

## Smart Green Island Makeathon 2023

Time	Topic	Where
18:00 – 20:00	Early Check-in	Pabellón Atlántico

**Please Pay Attention:**

**Because of the large number of participants, “Early Check-in” on the previous evening would be very helpful**

# Agenda – Wednesday, 01.03.2023



## Smart Green Island Makeathon 2023

Time	Topic	Who	Where
08:30 – 10:00	Check in	All	Pabellón Atlántico
10:00 – 10:30	Opening Speech: <ul style="list-style-type: none"><li>▪ Cabildo de Gran Canaria</li><li>▪ Fundación Sergio Alonso</li><li>▪ Fundación Sergio Alonso</li></ul>	Raul Garcia Brink (Cabildo) Claudio Alonso Rohner (FSA) Nayra Moreno Morales (FSA)	Palacio de Congresos
10:30 – 10:50	Why we do Makeathons?	Dr. Rainer Stetter (ITQ)	Palacio de Congresos
10:50 – 11:15	Welcome & Industry Challenges Platinum Sponsors: <ul style="list-style-type: none"><li>▪ B&amp;R</li><li>▪ Beckhoff</li><li>▪ igus</li><li>▪ Murrelektronik</li></ul>	Patrick Haberstroh (B&R) Stefan Lorenz (Beckhoff) Alexander Muehlens (igus) Sebastian Pfestorf (Murrelektronik)	Palacio de Congresos
11:15 – 11:30	Industry Challenges Gold Sponsors	Dr. Rainer Stetter (ITQ)	Palacio de Congresos
11:30 – 11:45	Makeathon Introduction	Jonas Fischer & Stefan Zombori	Palacio de Congresos
11:45 – 12:00	Introduction Social Media Approach	Anis Kossentini	Palacio de Congresos
12:00 – 12:30	<b>Group Foto with all Participants and Partners</b>	<b>All</b>	<b>Palacio de Congresos</b>



# Agenda – Wednesday, 01.03.2023

## Smart Green Island Makeathon 2023

Time	Topic	Who	Where
12:30 – 13:30	Speed Dating with Partners and Teams	All	Pabellón 7
<b>13:30 – 14:15</b>	<b>Lunch</b>	<b>All</b>	<b>Pabellón 7 and Outside Area</b>
14:15 – 18:30	Brainstorming/Teambuilding	All	Pabellón 7
14:30 – 18:15	Workshops	(Voluntary)	CDTIC
<b>18:30 – 19:15</b>	<b>Team Status Presentations &amp; Day Overview – Part I</b>	<b>Teams Part I</b>	<b>CDTIC</b>
<b>19:15 – 20:00</b>	<b>Team Status Presentations &amp; Day Overview – Part II</b>	<b>Teams Part II</b>	<b>CDTIC</b>



# Agenda – Thursday, 02.03.2023

## Smart Green Island Makeathon 2023

Time	Topic	Who	Where
<b>09:00 – 10:00</b>	<b>Day Planning &amp; Coffee</b>	<b>All</b>	<b>Pabellón 7</b>
10:00 – 10:30	Standup	Representative of the Teams	Outside Area
10:00 – 13:00	Making & Hacking	All	Pabellón 7
10:30 – 12:00	Workshops	(Voluntary)	CDTIC
<b>12:00 – 13:00</b>	<b>On Site Visit – President of Cabildo de Gran Canaria</b>	<b>Antonio Morales</b>	<b>Pabellón 7</b>
<b>13:00 – 14:00</b>	<b>Lunch</b>	<b>All</b>	<b>Pabellón 7 and Outside Area</b>
14:00 – 19:00	Making & Hacking	All	Pabellón 7
14:00 – 15:00	Companies meets Gran Canaria	Companies (Sponsors, SPEGC, Cabildo GC)	INCUBE Building
16:15 – 17:15	Livestream & Discussion: Interviews on the Subject – <i>MAKEATHON &amp; EDUCATION 4.0</i> “How to secure Young Talents for the Future?”	team:mt (Martina Manich, Dr. Rainer Stetter & Friends)	CDTIC
<b>19:00 – 19:30</b>	<b>Team Status Presentations &amp; Day Overview – Part I</b>	<b>Teams Part I</b>	<b>CDTIC</b>
<b>19:30 – 20:00</b>	<b>Team Status Presentations &amp; Day Overview – Part II</b>	<b>Teams Part II</b>	<b>CDTIC</b>

# Agenda – Friday, 03.03.2023

## Smart Green Island Makeathon 2023

Time	Topic	Who	Where
09:00 – 10:00	<b>Day Planning &amp; Coffee</b>	<b>All</b>	<b>Pabellón 7</b>
10:00 – 10:30	Standup	Representative of the Team	Outside Area
10:00 – 13:00	Making & Hacking	All	Pabellón 7
13:00 – 14:00	<b>Lunch</b>	<b>All</b>	<b>Pabellón 7 and Outside Area</b>
14:00 – 19:00	Making and Hacking	All	Pabellón 7
14:00 – 15:00	Professors meets Professors & Companies: „Indo Euro Synchronization introducing cooperation opportunities with India“	Local/Int. Professors & Companies Raj Vangapandu	CDTIC





# Agenda – Friday, 03.03.2023

## Smart Green Island Makeathon 2023

Time	Topic	Who	Where
17:00 – 17:30	Workshop – How to structure your Pitch?	Representative of the Team	CDTIC
19:00 – 19:30	<b>Team Status Presentations &amp; Day Overview – Part I</b>	<b>Teams Part I</b>	<b>CDTIC</b>
19:30 – 20:00	<b>Team Status Presentations &amp; Day Overview – Part II</b>	<b>Teams Part II</b>	<b>CDTIC</b>



# Agenda – Saturday, 04.03.2023

## Smart Green Island Makeathon 2023

Time	Topic	Who	Where
<b>09:00 – 10:00</b>	<b>Day Planning &amp; Coffee</b>	<b>All</b>	<b>Pabellón 7</b>
10:00 – 10:30	Standup	Representative of the Team	Outside Area
10:00 – 13:00	Making & Hacking	All	Pabellón 7
13:00	Deadline for uploading Presentations	All	Pabellón 7
<b>13:00 – 14:00</b>	<b>Lunch</b>	<b>All</b>	<b>Pabellón 7 and Outside Area</b>
14:00 – 15:00	Exhibition Tour of Demonstrators	All	Pabellón 7
<b>15:00 – 15:30</b>	<b>Group Foto with all Participants and Partners</b>	<b>All</b>	<b>Parking 6</b>
15:30 – 18:00	Final Pitches	All	Palacio de Congresos
<b>18:00 – open</b>	<b>Get Together</b>	<b>All</b>	<b>Pabellón 7 and Outside Area</b>



# Event Summary – 4 days

## Smart Green Island Makeathon 2023

- **Tuesday 28.02.2023 from 18:00 – 20:00 pm**
  - Pre-Registration at Event Location  
**Pabellón Atlántico – Infecar, Av. de la Feria I, Las Palmas de Gran Canaria**
- **Start Event: Wednesday, 01.03.2023 – 8:30 am**
  - Infecar, Av. de la Feria I, Las Palmas de Gran Canaria
- Make, Create and Have Fun during 4 days!
- Coffee, Lunch and Drinks are provided during the day
- Material (Latest Technologies) available and Technical Workshops held by Experts
- **End Event: Saturday, 04.03.2023 – 20:00 pm**



# Overview Technical Workshops

Smart Green Island Makeathon 2023

# Technical Workshops

## Smart Green Island Makeathon 2023

Wednesday March 1th 2023

Time	Topic	Who	Where
14:30 – 15:15	How to create innovative Ideas – Methods and Examples	Murrelektronik (Sebastian Pfestorf)	CDTIC
15:15 – 16:00	How to use Stepper Drives	B&R (Markus Straßer)	CDTIC
16:00 – 16:45	TwinCAT – State of Automation Software	Beckhoff (Karsten Schätzle)	CDTIC
16:45 – 17:15	Programming an igus robot in 15 minutes	igus (Niklas Schröder)	CDTIC
17:15 – 17:45	Vishay Sensors for Water Quality Detection	Vishay (Tassilo Gernandt & Jürgen Gewinner)	CDTIC
17:45 – 18:15	Machine Vision as an important Enabler for Smart Solutions	MVTec (Michael Bellmann & Lukas Ranftl)	CDTIC

# Technical Workshops

## Smart Green Island Makeathon 2023

Thursday March 2 th 2023

Time	Topic	Who	Where
10:30 – 11:15	Fast prototyping using Model-Based Design to integrate AI on (low-cost) hardware	MathWorks (Rainer Mümmeler & Conrado Ramirez Garcia)	CDTIC (Remote)
11:15 – 12:00	3D Printing Workflow	ITQ (Leon Hostlowsky)	CDTIC (Large Screen)



# Corona Measurements, Support On Site, Catering, Material, T-Shirts

Smart Green Island Makeathon 2023

# Corona Hygiene Measures

## Prevent Corona and other Diseases

- Hygiene Concept must not be neglected today!
- ITQ will provide Masks and Disinfectants on Site
- All Participants are asked to test themselves before Departure and every other Morning
- Participants should not come to the MAKEATHON if they have Symptoms of Illness!

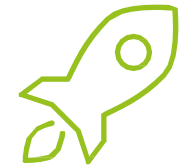
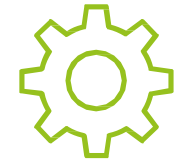
**We rely on the Personal Responsibility of the Participants!**



# ONSITE SUPPORT

## Smart Green Island Makeathon 2023

- All our ITQ staff will be there to support you with any questions and needs.  
Please feel free to contact us!
- Please make sure to download the APP Slack –  
which will be our main Communication Platform
- Make sure to be part of our Smart Green Island WhatsApp Group  
to get latest information!
- Make sure to be part of our Social Media Community!
- **Let's show the WORLD, what we are DOING during these 4 days...**





# Checklist

## Smart Green Island Makeathon 2023

**Please bring the following things on your trip to Gran Canaria:**

- Motivation
- Laptop
- (European) Health Insurance Card
- Ready Cash for your own Coffee Cups – 5 € Deposit
- Swimsuit



# Checklist

## Smart Green Island Makeathon 2023



### You will receive for free during MAKEATHON working hours:

- Coffee & Drinks
- Various Lunches (*No Breakfast*)
- Vegetarian and Vegan Lunch also available
- Enough Sweets & Cakes
- MAKEATHON T-Shirts to wear during the Event
- Support from Staff Members and Sponsoring Companies
- All the Technical tools you need



# Checklist

## Smart Green Island Makeathon 2023



**You will receive for free during MAKEATHON working hours:**

- A lot of Hardware
- Different MAKEATHON Industry Challenges
- Free Wi-Fi
- Be creative during the days, fun time in the nights
- Meet students from different countries and disciplines
- Networking around the MAKEATHON



# Overview of available Hardware

## Smart Green Island Makeathon 2023

### 1. Construction/Kits

- Various Robots
- Maker Beams
- Robot Kits
- And much more...



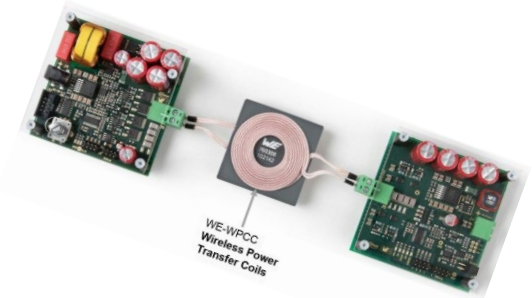
### 3. Sensors

- Large variety of Sensors and Actors
- Magnets, LEDs, Switches, Bearing Balls
- Digital Solder Stations
- And much more...



### 2. Programming

- MATLAB
- Simulink
- TwinCAT, Automation Studio
- DAVE, Halcon
- And much more...



### 4. Developer Boards

- Various Arduino Boards
- ESP 8266/ESP 32
- PLC
- Raspberry Pi 3/4
- And much more...



# Café Recommendation – La Tremenda

## Smart Green Island Makeathon 2023

- For the little hunger in between!!
- The café is located very close to the Infecar – Av. de la Feria 18, Las Palmas de Gran Canaria
  - The participants pay on their own!!





# Communication

Before and during the Event





# The Event – 4 Full Days of MAKEATHON

## Smart Green Island Makeathon 2023

- Communication
  - Use our Slack Channel for the whole communication



[www.bit.ly/3kmPB4I](https://www.bit.ly/3kmPB4I)



JOIN US NOW!

# The Event – 4 Full Days of MAKEATHON

## Smart Green Island Makeathon 2023

- Communication
  - Who accepted to be informed via our WhatsApp Group will get Messages/Latest News through this Channel



[www.bit.ly/3ZhJkpH](http://www.bit.ly/3ZhJkpH)



JOIN US NOW!

# Registration – Technical Workshops



# Registration Link for Technical Workshops

## Smart Green Island Makeathon 2023

- Register here for Technical Workshops

[www.bit.ly/3EwJ66h](http://www.bit.ly/3EwJ66h)



# How to build a Team ?

- Recommended size of Teams, Disciplines etc.
- Industry Challenge Registration Process



# How to build a Team?

- Recommended Team size 5-10 persons
  - Special requests could be discussed
- It would be good, that persons from different universities/disciplines work in a Team
- Our Platinum and Gold Sponsors will provide following Ideas/Industry Challenges
  - For these Industry Challenges there will be the right material and experts to coach you!
- Further Ideas or Challenges also possible
  - Special requests could be discussed

# 10:50 – Presentation Industry Challenges

## Platinum sponsors introduce their Company and Challenges

In addition: Presentation of the subject areas for your own ideas



# From 12:30 Speed Dating with Participants

First Contact Sponsors  $\leftrightarrow$  Participants





# Exchange of Ideas – Participants and Sponsors

## Brainstorming/Teambuilding



# Discussing the Idea

## Brainstorming/Teambuilding

- Sponsor (Mentor) discusses the idea with the Team and gives them tips/assistance and asks questions
- For “Free Idea” (no Industry Challenge)
  - Brief discussion of the Idea with a Sponsor/Professor/Coach (Mentor)
  - Evaluation of the Idea based on criteria, not whether the Sponsor’s Hardware/Software is used

Innovative/creativity

→ Is it something new/amazing?

Technical difficulty

→ Is it ambitious/easy?

Sustainable

→ Is it smart and green?

Practicability

→ Is it realistic/useful?





# Elaboration of Presentation of Ideas

## Online Team Registration

- Preparation of the Idea/Team Presentation
- Completion of Online Team Form
  - Teamname
  - Team Project Leader (Contact Person)
  - Team Members
  - Team Photo
  - Brief Description of the Idea/Project
  - (Optional) required Materials (for Purchasing Planning)

**REGISTER YOUR INDUSTRY CHALLENGE**

Choose your **Industry Challenge** and work on it with your team. Develop an **innovative prototype** in a short time of period.

Team Name \*

Your Team Name

Industry Challenge \*

Other

Other

First Name of Project Leader \*

Please write your First Name not in capital letters e. g. Max!



# In the End

## Material Output

- Team submits Registration to an ITQ Coach/Material Issue
- The Team is now officially registered



# Media Activities on Site

- Social Media Agency endlosmedia
- Social Media Instagram Challenge
- Network Community
- team:mt Live-Stream



# Our Social Media Agency

## Smart Green Island Makeathon 2023

- We and our agency endlosMedia will produce Photos & Videos on Site every day
- Creation of 2 Aftermovies (Short/Long Version) for the Final Presentation and afterwards



**Jacob Summa**  
**Movie Maker**



**Fidel Kazmann**  
**Photographer**

# Social Media Instagram Challenge

## Smart Green Island Makeathon 2023

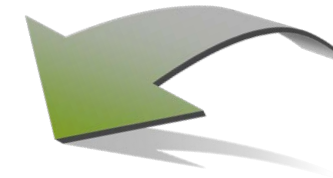
- ITQ calls on all Participants to the Social Media Instagram Challenge
- Whoever has the **MOST LIKES** on a **SMART GREEN ISLAND MAKEATHON Post** wins
  - Pictures
  - Videos/Reels
- Winners will be announced on Saturday
- Winner receives free Participation in the next SMART GREEN ISLAND MAKEATHON
  - 1. Place – 250 Euro Special MAKEATHON Voucher
  - 2. Place – 100 Euro Special MAKEATHON Voucher
  - 3. Place – 50 Euro Special MAKEATHON Voucher



# Social Media Instagram Challenge

## Smart Green Island Makeathon 2023

- All Participants are **WELCOME** to **PARTICIPATE** actively
- Requirements:
  - Main Hashtags:
    - #smartgreenisland #makeathon2023 #itqgmbh
  - Set the Account to Public
  - Link to ITQ GmbH
  - Link to Sponsors



**SATURDAY**



# Network

## VDMA as supporter of the Smart Green Island Makeathon

- On Site available:
- Richard Clemens, Managing Director of the NuV Association
  - Association of Food and Packaging Machines
  - Supporters of new Education Approaches
- Dr. Norbert Voelker
  - Management of an international Team to set up a skilled Labor development in Africa
  - Market entry Support
  - Networking with African and German Actors



# Social Media – team:mt Live Stream

Powered by team:mt, Marketing Specialist

- Live-Stream of team:mt on Thursday, 02.03.23, 16:15-17:15 (GC Time), CDTIC Location
  - Martina Manich, CEO interviews on the subject of MAKEATHON & EDUCATION 4.0
    - Dr. Stetter, Prof. Eichinger, Mr. Fleige, Dr. Viethen present how to secure Young Talents of the Future!
  - Live-Stream at [www.team-mt.de](http://www.team-mt.de), LinkedIn und YouTube
  - Feel free to watch in Pabellón 7 or Stream, Share and Like Online!



**Link: team:stream Nr. 25**



# Social Media Channels



# Social Media

## Communication Channels

- **Be up-to-date** through our **Social Media Channels**
- **Like, share and post** what you are doing to the world!
- Use our **ITQ GmbH Communication Channels**
- Are you already a **Fan or Member of our Social Media World????**
- **Join us! Like us!** And be part of our **SOCIAL MEDIA NETWORK COMMUNITY**



# Social Media

## ITQ GmbH Communication Channels



[@facebook.com/ITQGmbH](https://facebook.com/ITQGmbH)



[@instagram.com/itqgmbh](https://instagram.com/itqgmbh)



[@twitter.com/itq\\_gmbh](https://twitter.com/itq_gmbh)



[@linkedin.com/company/itq-gmbh](https://linkedin.com/company/itq-gmbh)



[@youtube.com/user/ITQGmbH](https://youtube.com/user/ITQGmbH)



[@www.itq.de](https://www.itq.de)

# Social Media

## Communication Channels

Please **USE ALWAYS** these **HASHTAGS** to get most **ATTENTION**:

**#makeathon2023   #smartgreenisland   #itqgmbh**

**Additionally use:**

**#innovation #dosomething #socialentrepreneurship #engineeringstudent**

Use the Links of our Sponsors and Partners as well!!

# Publication Guidelines

## Communication

- **USE ONLY ROYALTY-FREE IMAGES & MUSIC**
- **STATE** any **IMAGE RIGHTS** in your **Presentation or Movies**
- **ALL** Presentations – submitted to ITQ/Sponsors –  
**Need full Author Permission** as will be used in our **Communication!**

# Universities, Institutions and Vocational Schools



# Smart Green Island Makeathon Sponsors



Platinum



Gold



Silver



Bronze





See you soon...

