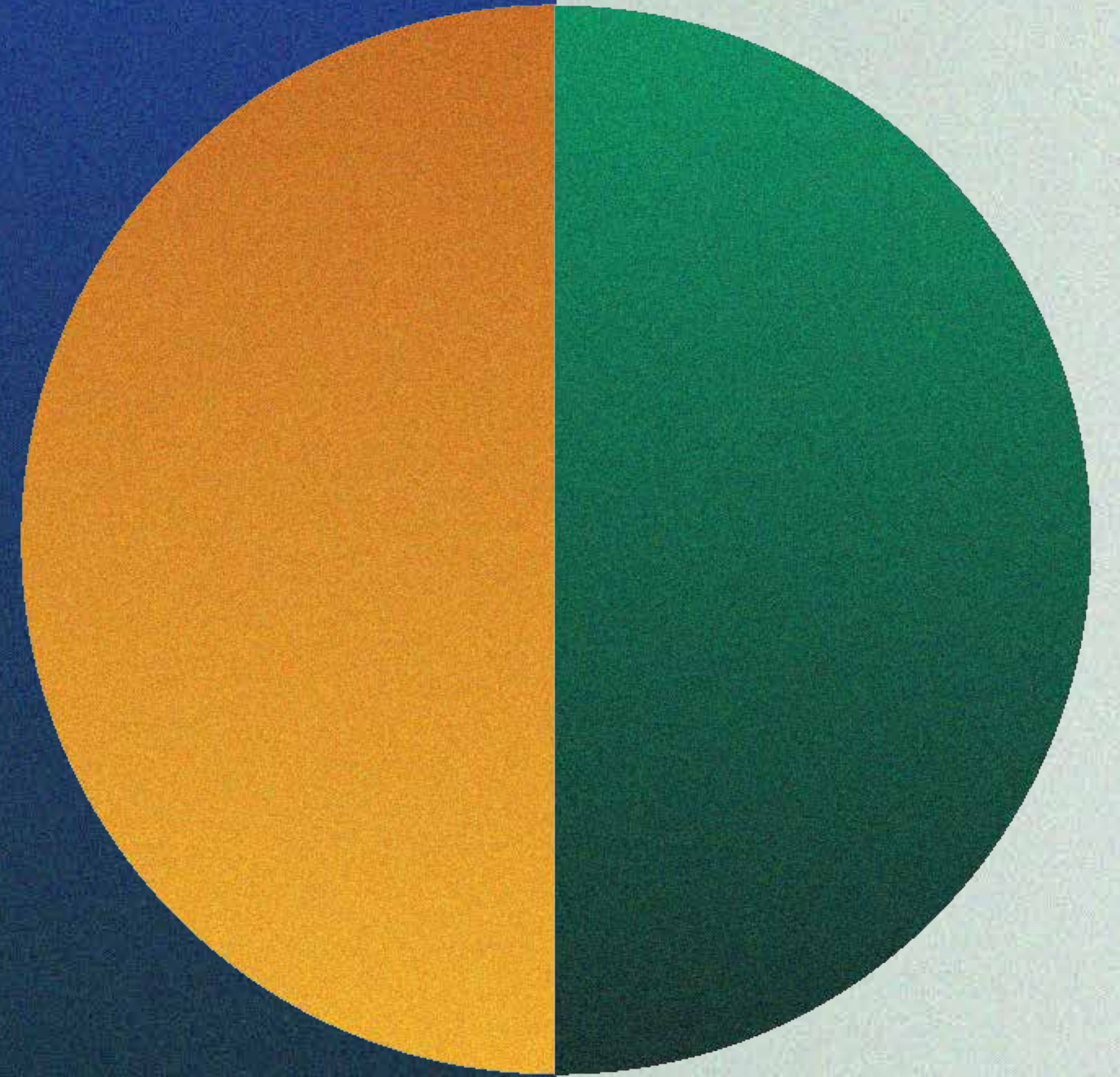# CODEGREEN

AI HACKATHON 2021

Computer Vision for Forestry and Agriculture in Indonesia

by Earthling Indonesia e.V.
& Techbros GmbH

A 3 weeks hackathon with mentoring session for young Indonesians to create the next breakthrough in forestry and agriculture to achieve a sustainable future, with up to 10,000€ prizes and possibility for further idea development.

About Us

earthling

Earthling Indonesia e.V.

Earthling Indonesia is a registered non-profit organisation in Germany that aims to increase awareness of the importance of sustainability as a measure to counteract climate change.

The organisation is powered by young Indonesian in Europe and Indonesia. Since 2020, Earthling Indonesia is recognised by the German Commission for UNESCO as an actor for sustainable development education.
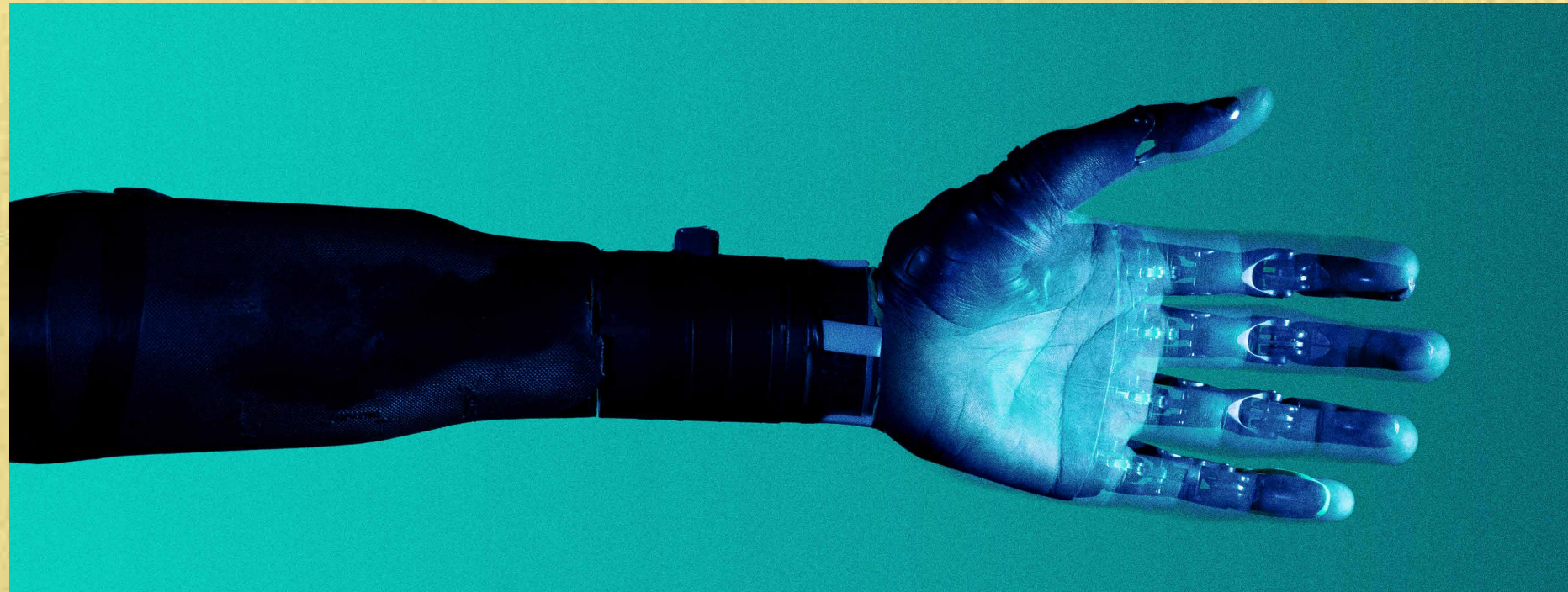
Techbros
Your Digital Innovation Expert

Techbros GmbH

Techbros is a company based in Düsseldorf, with 2 other branches, which are located in Indonesia, Sweden and Romania. The company main focus and expertise are on telecommunication consulting, development of AI and Machine Learning, Data Science and Analytics consulting, Internet of things, and talent development.
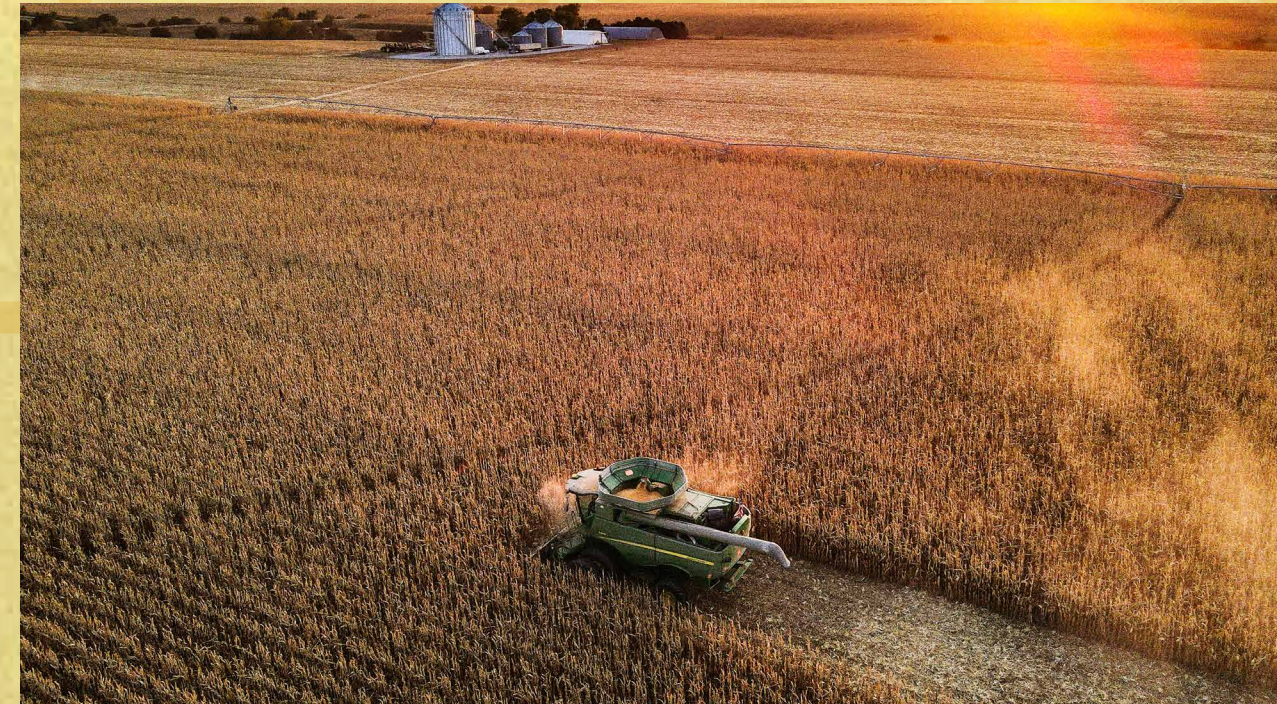
2021's Theme

AI and Computer Vision

Artificial intelligence (AI) and machine learning are growing exponentially and are quickly becoming essential tools for growth across a wide range of industries. These technology are expected to be able to cope with the pressures of increasing food demand and climate change.

Computer vision is a field that involves making a machine "see". The machine can accurately identify and detect objects, analyze and make meaningful interpretations of image sequences.

Agriculture & Farming

With increasing world population, how do we ensure that our current and future generation have access towards nutritious food all year round?

As an agrarian country, Indonesian's local communities rely on agricultural activity for their livelihood. How do we balance economical productivity and holistic prosperity?

Forestry

Forest contain 80% the world's terrestrial biodiversity and provide for variety of ecosystem services. How do we maintain and protect forest's vast biodiversity?

With forest's important role as carbon reservoir, how do we maximize forest's potential as one of the biggest tool to conserve the carbon sinks and to mitigate climate change?

Focus Points

Biodiversity Maintenance

Population mapping, behaviour analysis, species's information completion and computation.

Life Environment Analysis

Forest precipitation or forest fire prediction, assessment of water quality, air quality analysis, natural disaster detection.

Worker's Wellbeing

Exceeded work duration detection, child labor prevention, worker's safety control.

Conservation and Carbon Reserve Assessment

Capacity and growth of carbon reserve measurement, loss prevention from illegal logging or forest fire.

Precision Agriculture

Pest recognition, crop health and growth monitoring, field performance analysis.

Event Concept

- Eligible for everyone above the age of 18 in EU Countries, EEA, UK and Indonesia

- Match Making Event

- Webinar Pre-Event: Design Thinking, Computer Vision, Smart Forest, Smart Farming & Agriculture

- Hackathon with intensive individual mentoring

- Award ceremony

- After Event

Awards

1st
4,500€
Elang AI
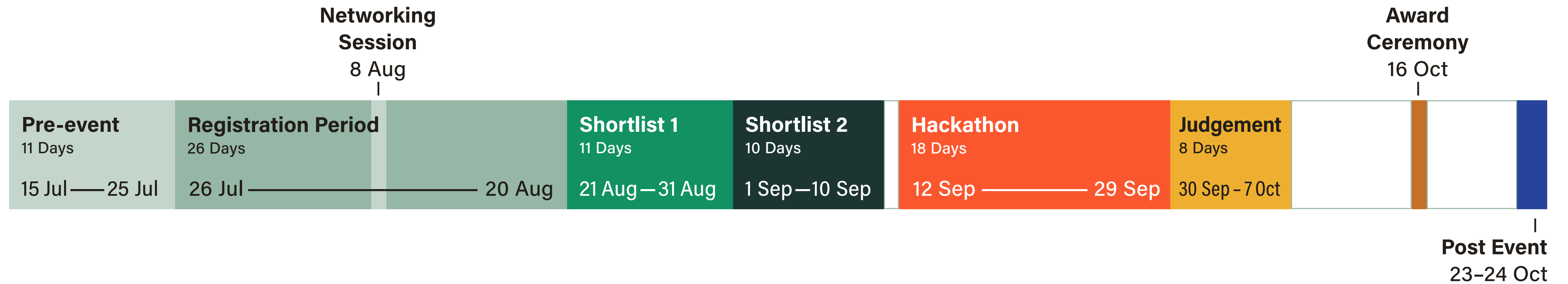AWS Credit

2nd
2,500€
Elang AI
AWS Credit

3rd
1,000€
Elang AI
AWS Credit

4th **600€** + Elang AI
5th **400€** + Elang AI

* +30 days developer support from Techbros GmbH

Timeline

Networking Session
8 Aug

Award Ceremony
16 Oct

Pre-event
11 Days

15 Jul —— 25 Jul

Registration Period
26 Days

26 Jul ——————— 20 Aug

Shortlist 1
11 Days

21 Aug — 31 Aug

Shortlist 2
10 Days

1 Sep — 10 Sep

Hackathon
18 Days

12 Sep ———————— 29 Sep

Judgement
8 Days

30 Sep - 7 Oct

Post Event
23–24 Oct

Media Partner Offering

What We Offer:

Logo Exposure on KV of Code Green (Instagram and LinkedIn)

Media Exposure at the End of Webinar (Zoom and Youtube)

Background Webinar

Logo Exposure Mailing List

1× Logo Exposure on Earthling's IG Story

What We Expect:

2× IG Feed Post (H-7 and H-1 webinar)

2× IG Story Post (H-7 and H-1 webinar)

Thank You!

✉ info@codegreen.events

🗔 codegreen.events

📷 @earthling_id

📞 (+49)1744245882 (Anindya)

in https://www.linkedin.com/in/earthling-indonesia/

📷 @techbros.io

📞 (+49)1747592338 (Fanny Yudris)

in https://www.linkedin.com/company/techbrosgmbh/