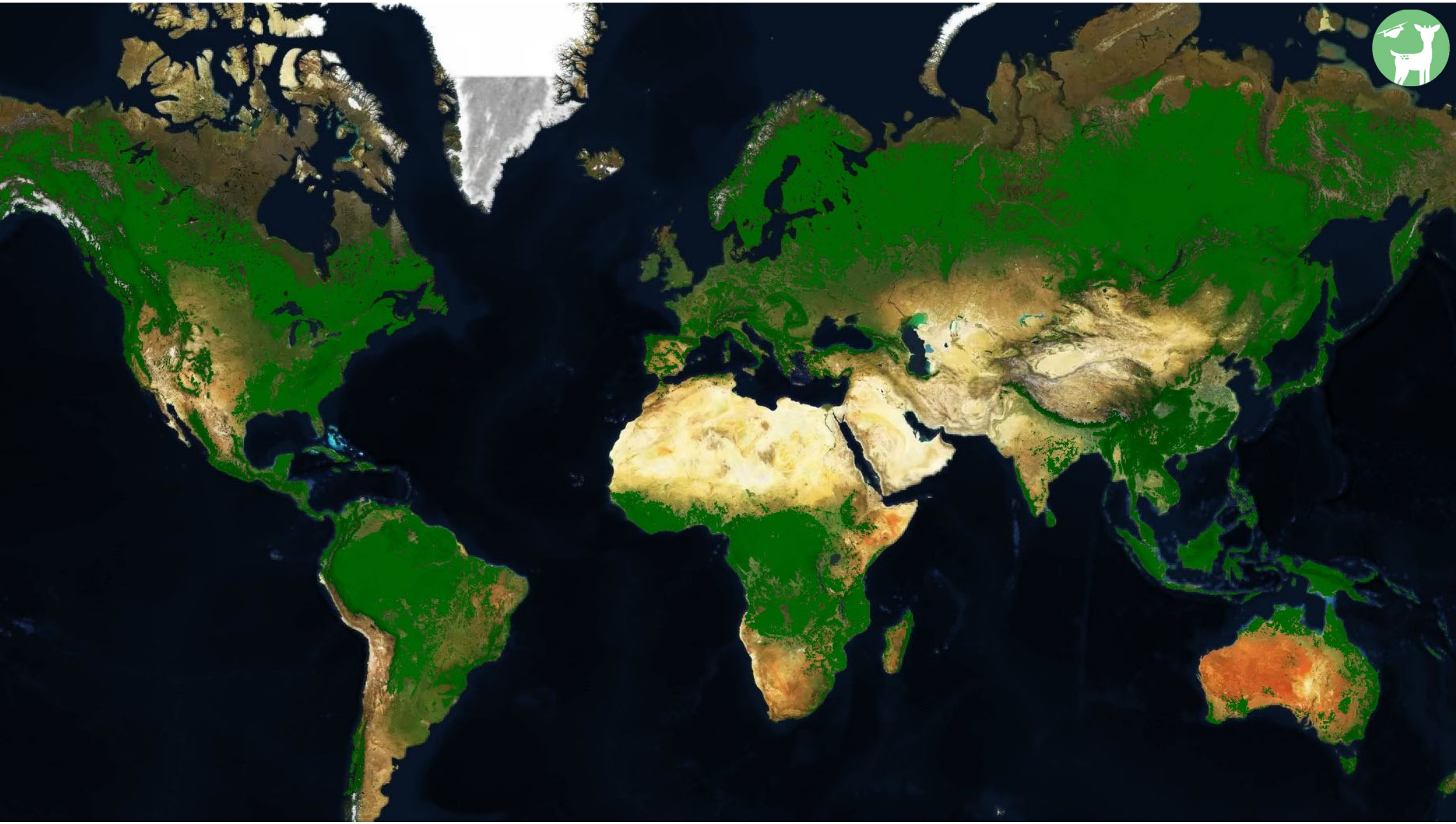
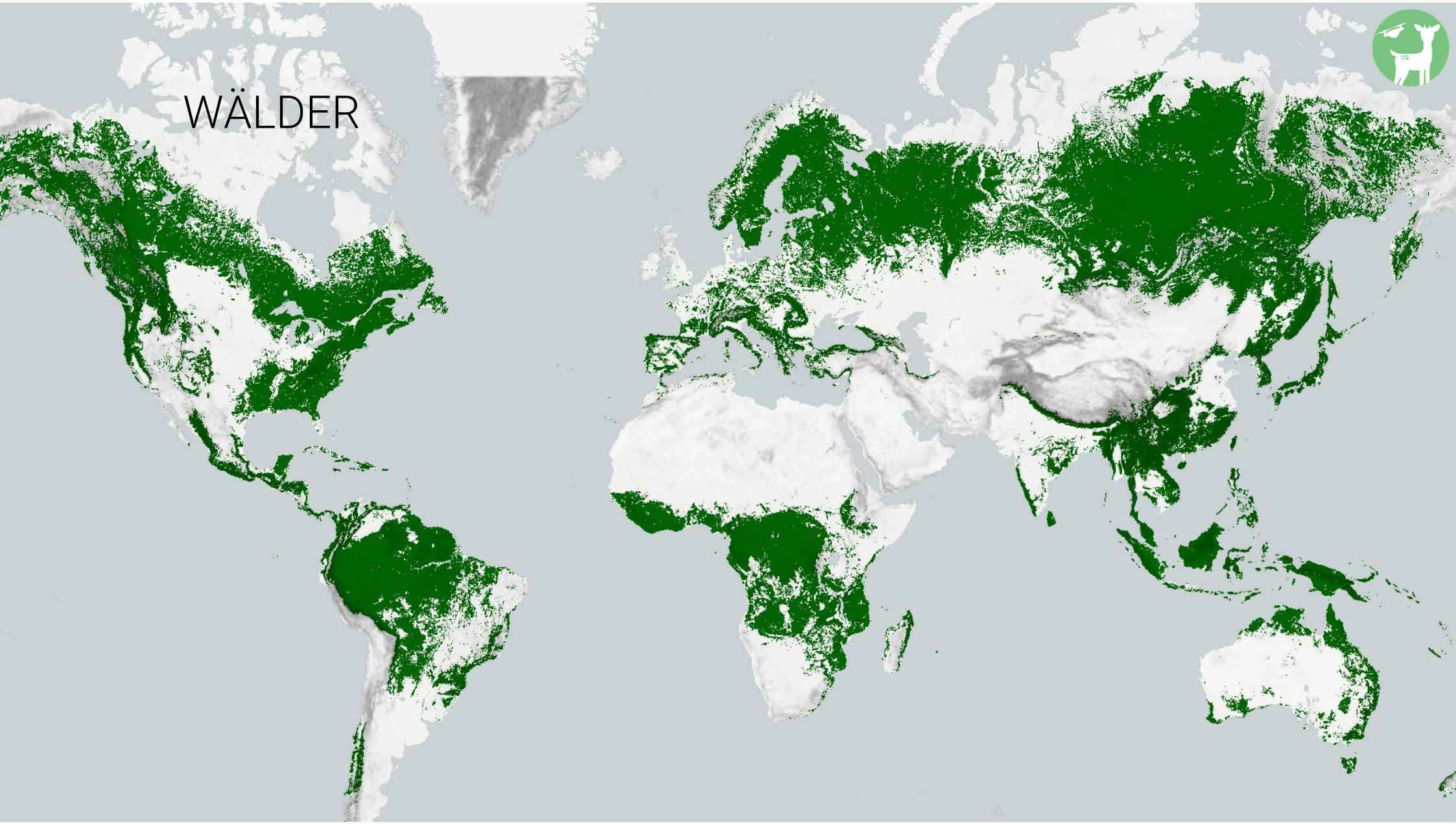
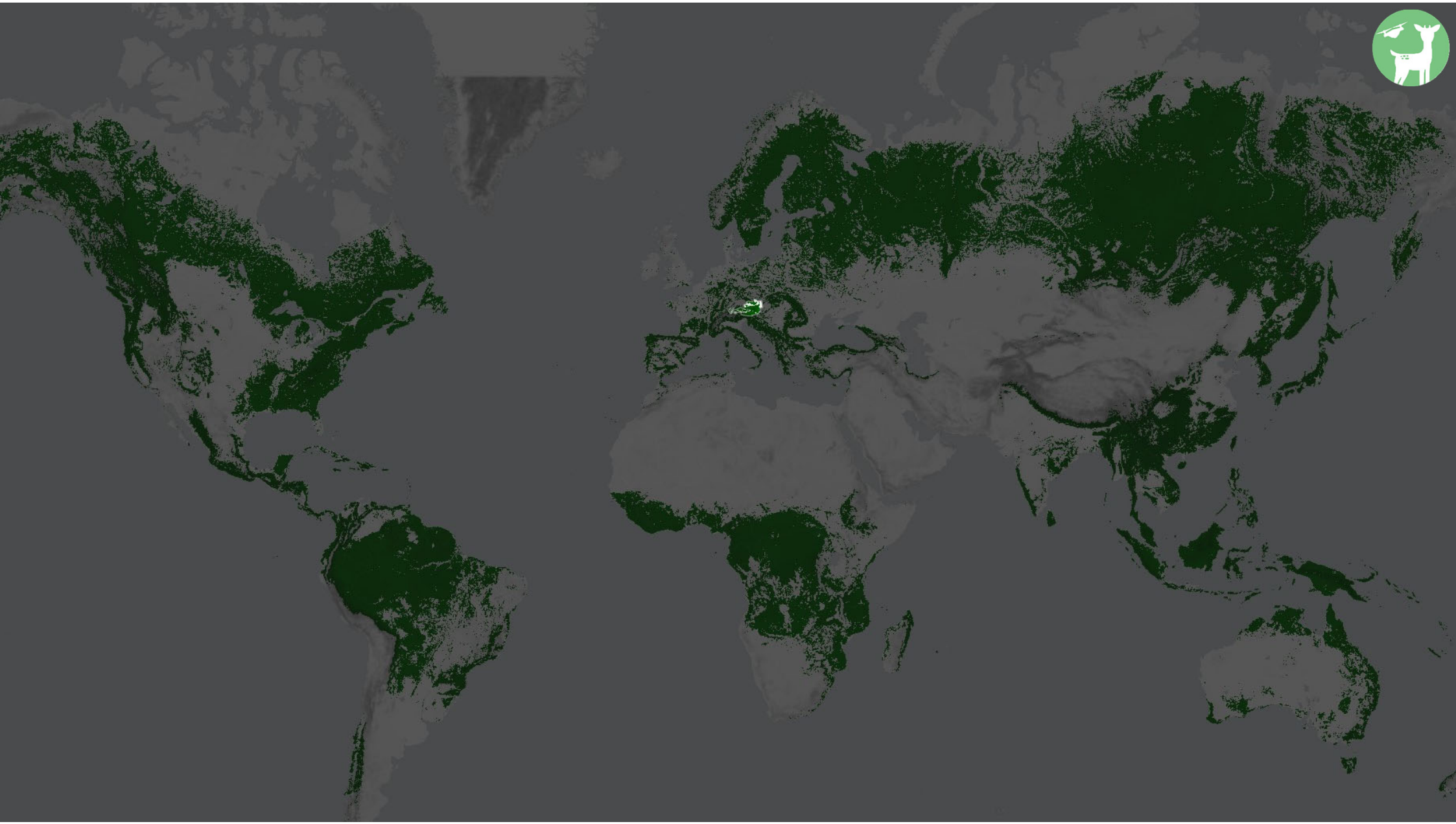
BAMBI

Biodiversity Airborne Monitoring
Based on Intelligent UAV sampling

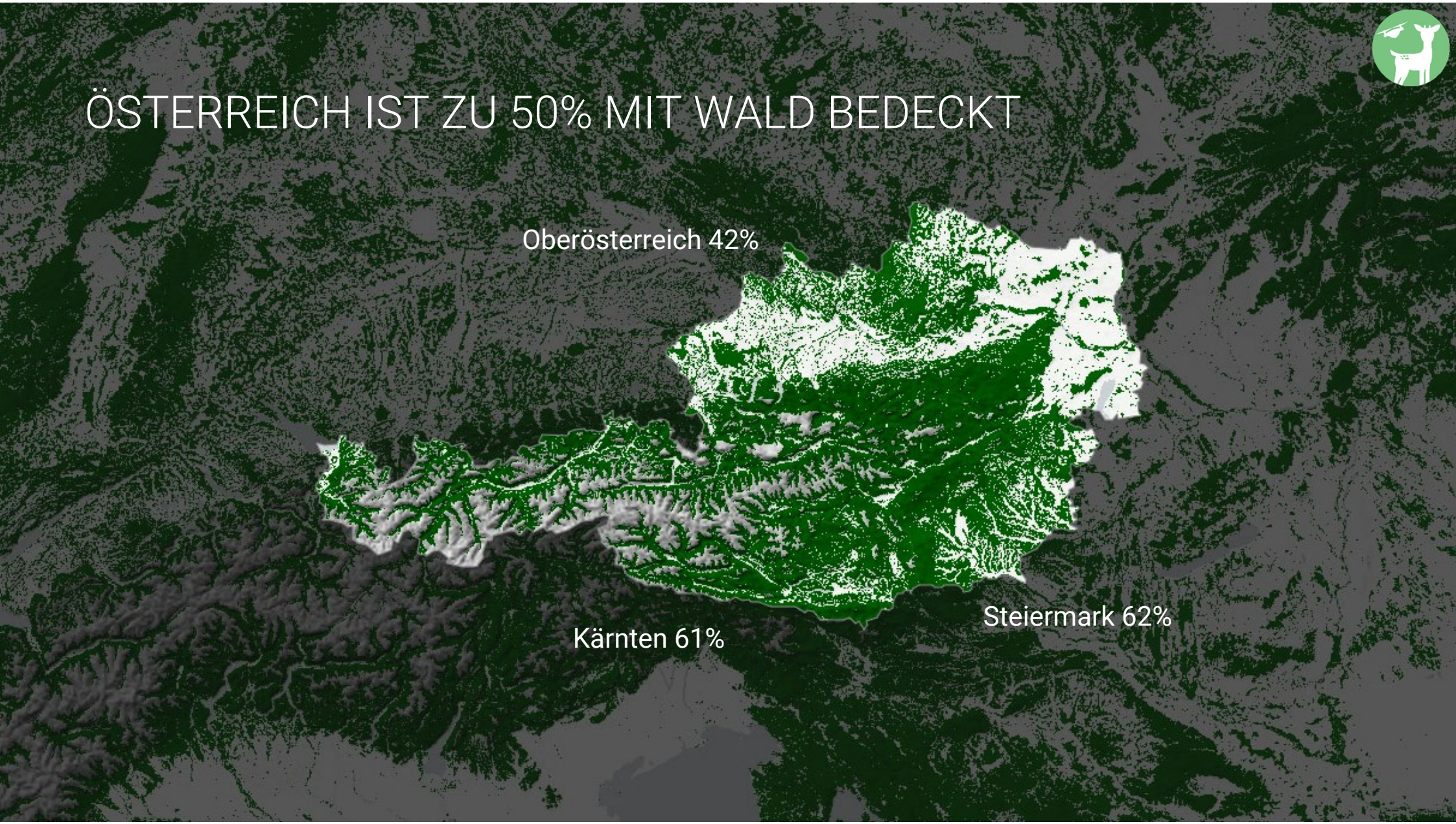


WÄLDER





ÖSTERREICH IST ZU 50% MIT WALD BEDECKT



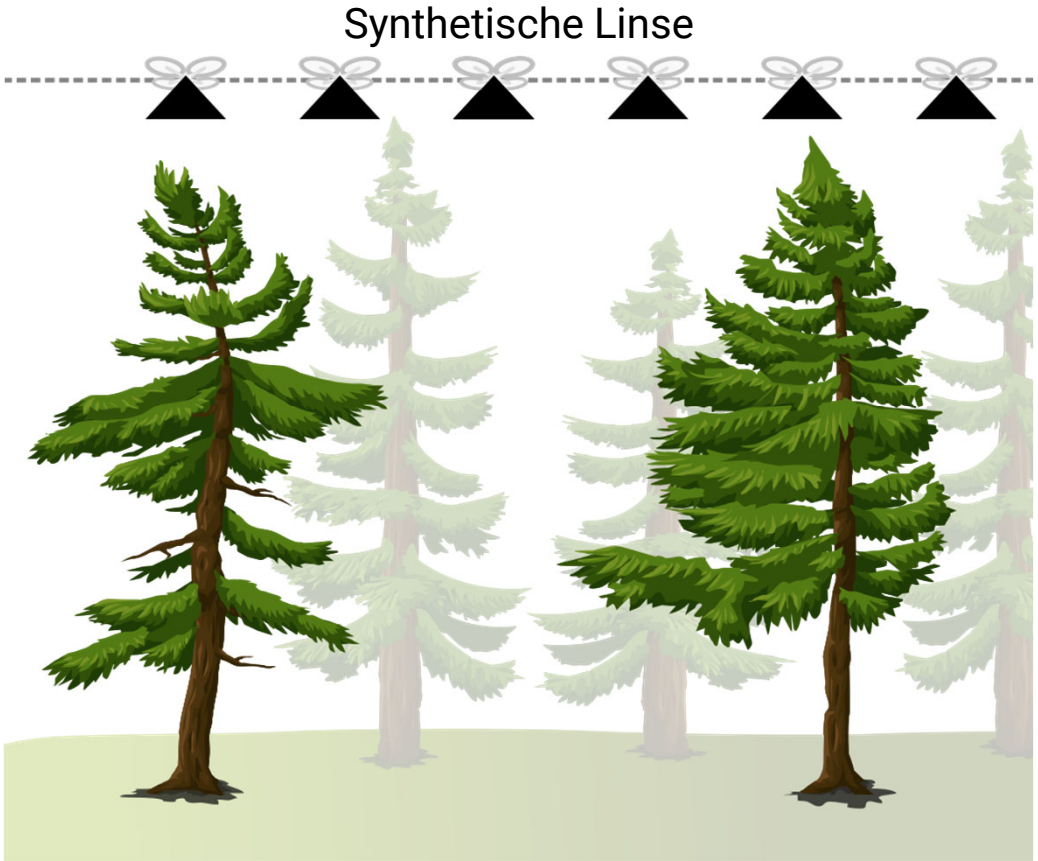
IST DER WALD GESUND?

MONITORING AUS DER LUFT

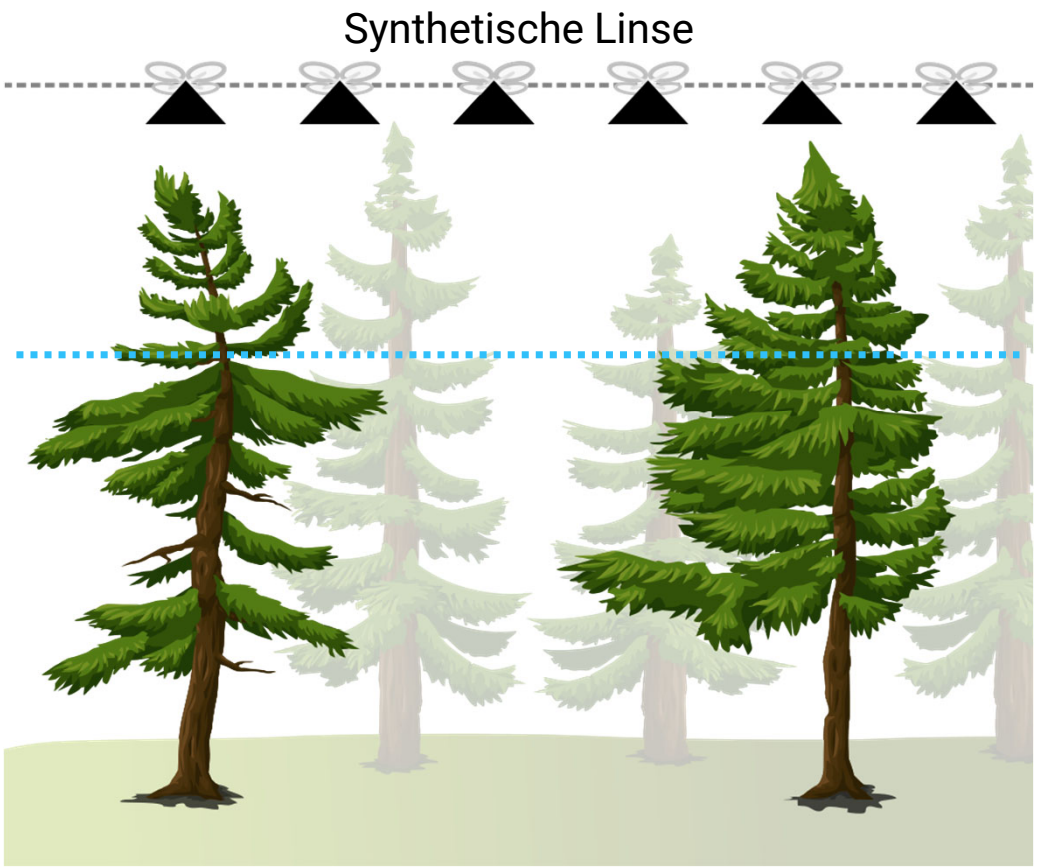
Thermal

LICHTFELD TECHNOLOGIE

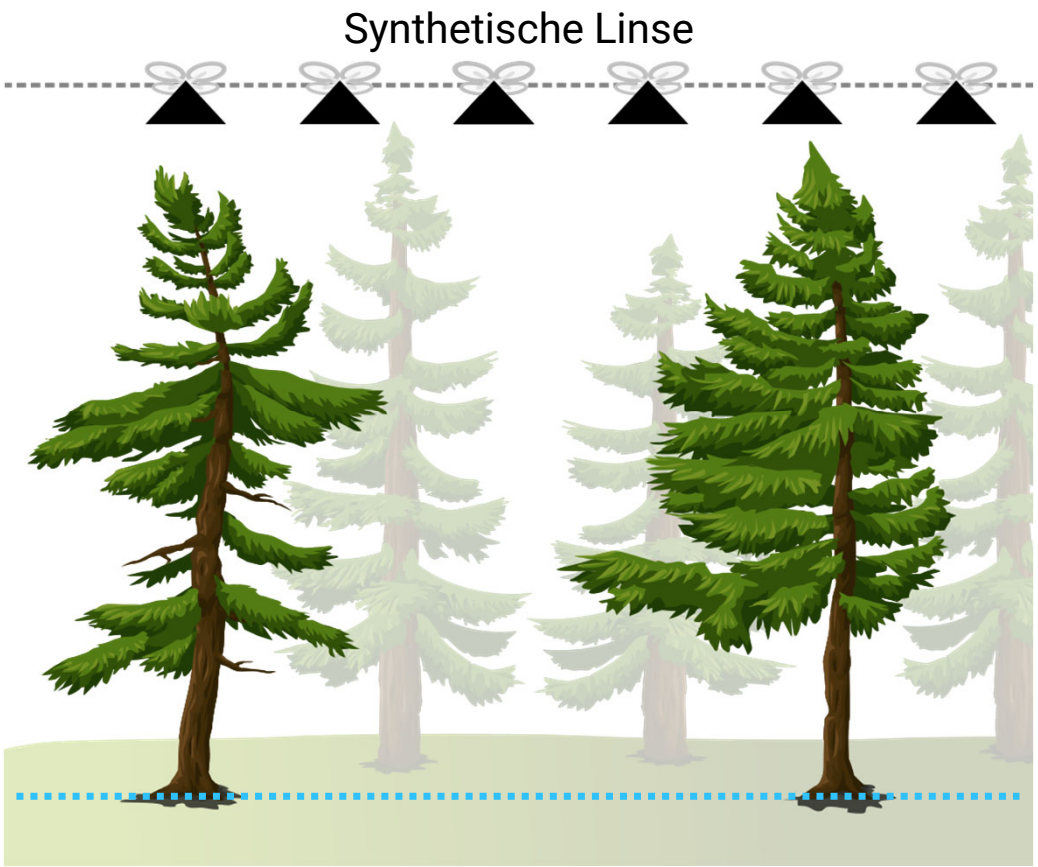
LICHTFELD TECHNOLOGIE



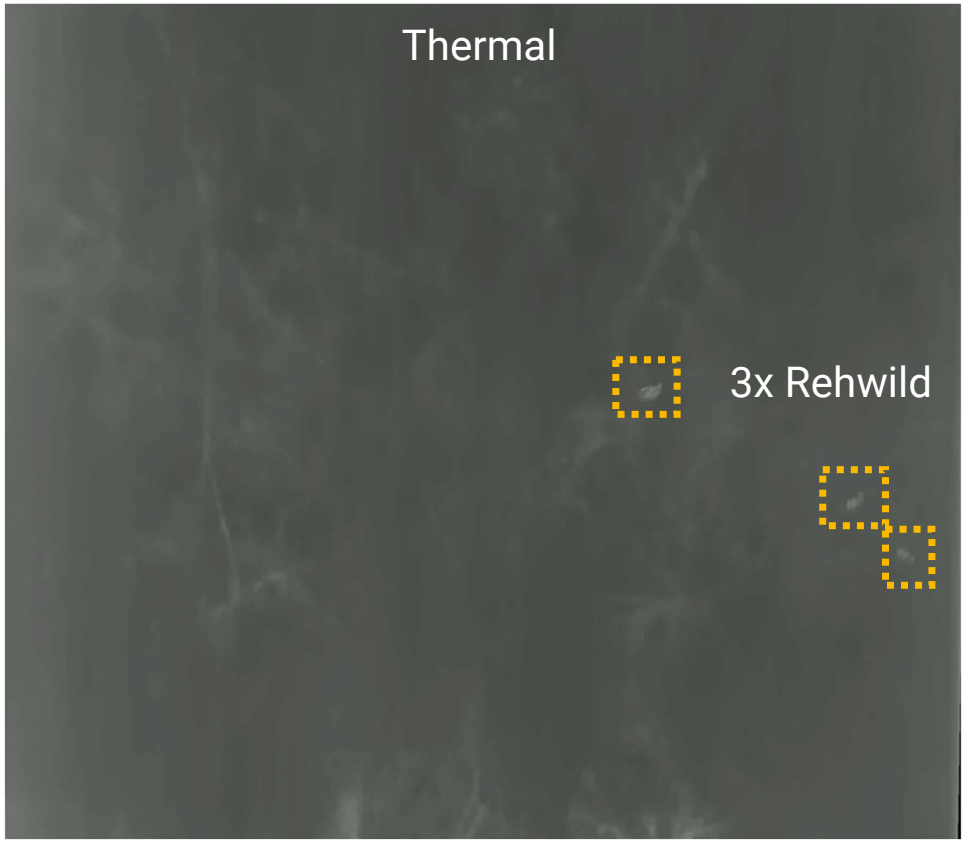
LICHTFELD TECHNOLOGIE



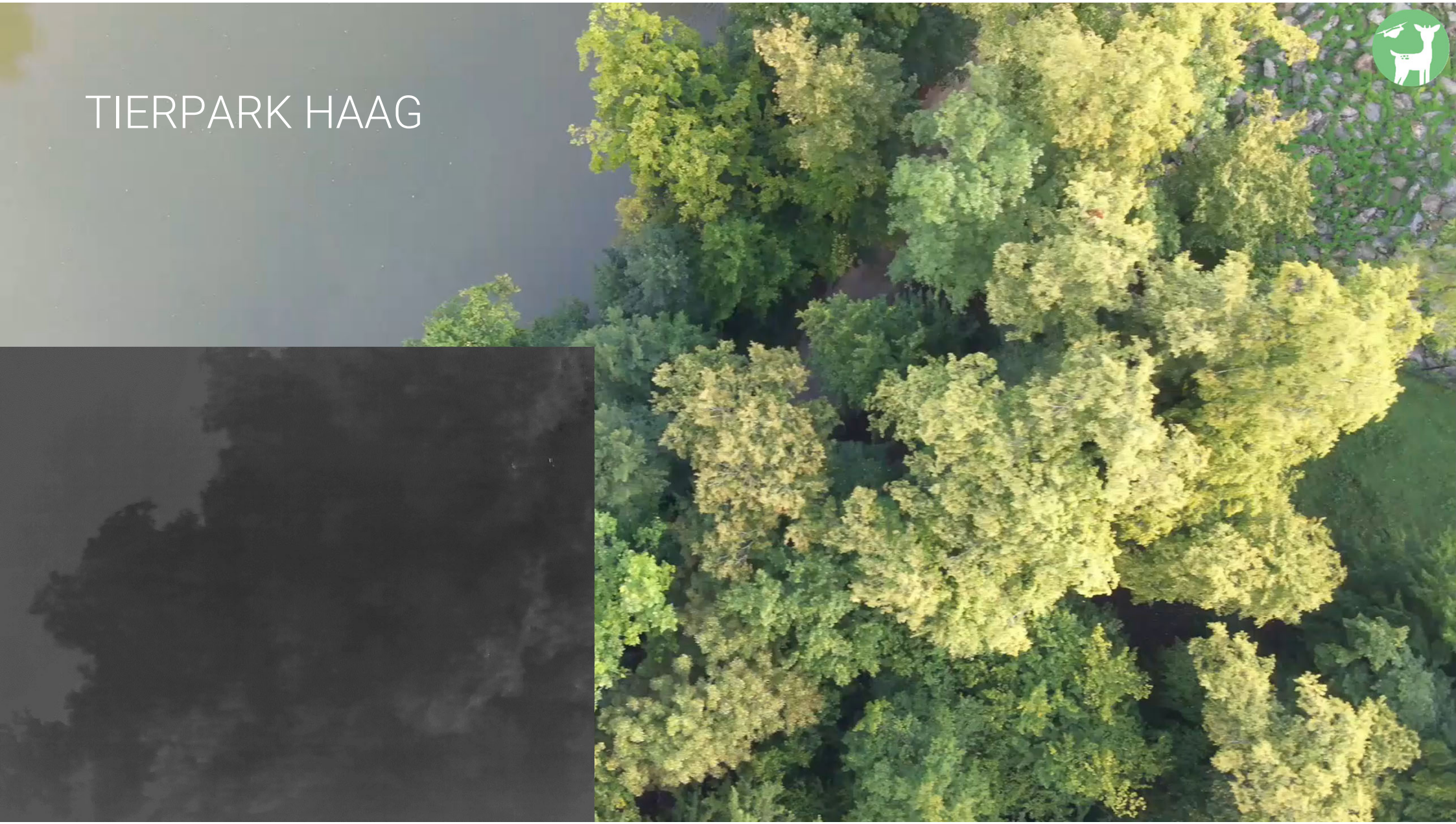
LICHTFELD TECHNOLOGIE



FARB- UND INFRAROTAUFNAHMEN



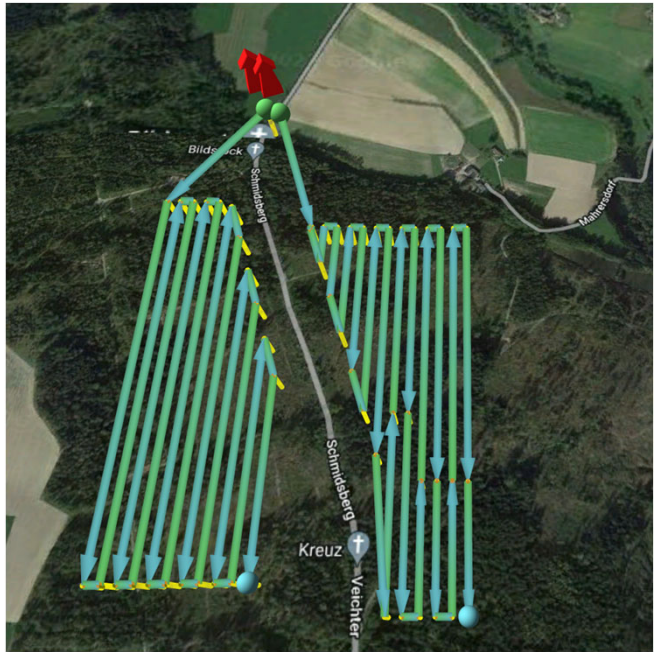
TIERPARK HAAG



KAUNERTAL TIROL

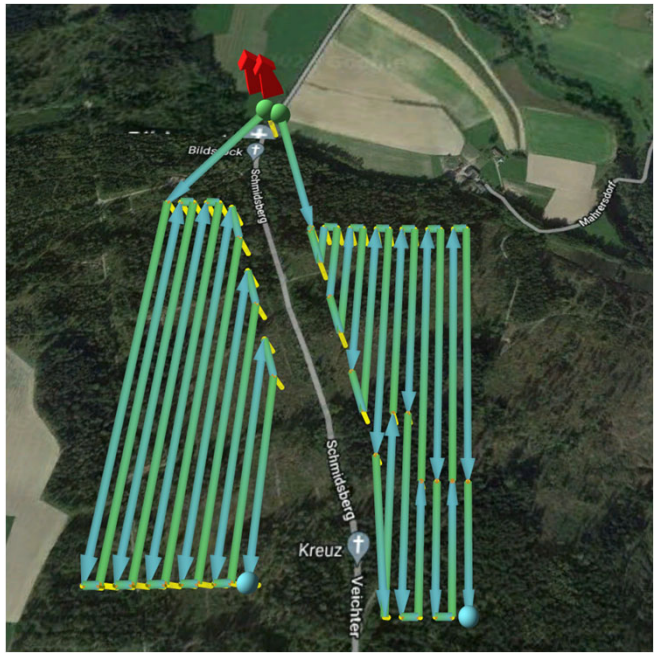
FLÜGE IM PROJEKT

- Videoaufnahmen: Farb und Infrarot (White Hot)
- Kein Zoom bei Kameras (speziell M3T)
- Keine Drehung (Kamera und Drohne) im Flug
- Möglichst geradlinige Flüge

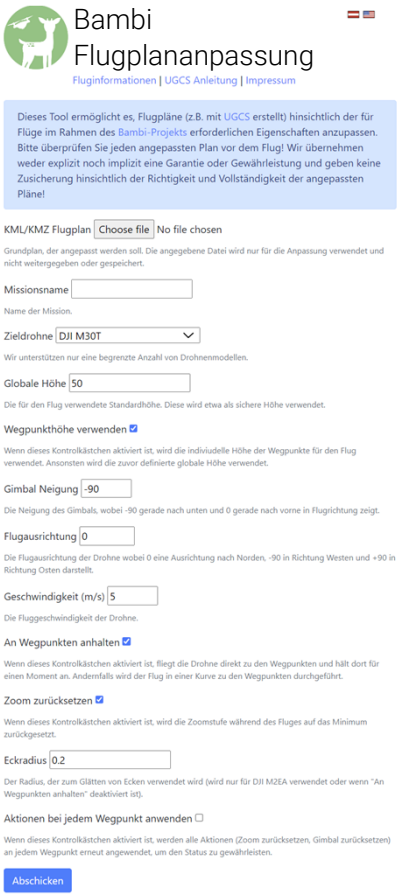


Flughöhe
30 – 90 m

FLUGROUTEN



Planung mit UgCS
(andere Tools möglich)



Anpassung mit
Webtool

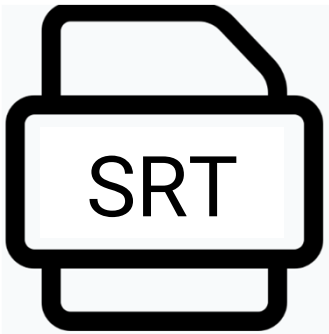
[https://bambi.projekte.fh-hagenberg.at/plan/]

Upload auf
Drohne(n)

DATEN VON DEN FLÜGEN

Videos (Thermal, Farbe)

Zusatzdaten



Untertiteldateien (pro Video)
- Einstellung auf der Fernbedienung

Flight-Logs von der Fernbedienung
- AirData (kostenfrei) zur Decodierung
[https://airdata.com/]

AIRDATA UAV

HOME PLAN MY LOGS EQUIPMENT MANAGE MEDIA HELP

My Account
Ent Logout

1 Actions

UPLOAD FLIGHTS MY BADGE REPORTS

All

1 2 3 4 5 ... 9

OVERVIEW
- Apr 20th, 2023 11:36:04
- Apr 20th, 2023 11:02:22
- Apr 20th, 2023 10:22:21
- Apr 20th, 2023 09:50:49
- Apr 19th, 2023 18:47:21
- Apr 19th, 2023 18:44:41
- Apr 19th, 2023 18:42:35
- Apr 19th, 2023 18:41:29
- Apr 19th, 2023 18:41:02
- Apr 19th, 2023 18:07:52
- Apr 19th, 2023 18:07:48
- Apr 19th, 2023 17:43:36
- Apr 19th, 2023 15:12:46
- Apr 17th, 2023 12:58:20
- Apr 17th, 2023 12:56:37
- Apr 17th, 2023 11:57:11
- Apr 17th, 2023 11:40:14
- Apr 12th, 2023 12:06:08
- Apr 4th, 2023 08:58:49
- Apr 4th, 2023 08:51:30
- Apr 4th, 2023 08:50:47
- Apr 4th, 2023 08:11:38
- Apr 4th, 2023 07:31:09
- Apr 3rd, 2023 16:43:37
- Mar 16th, 2023 13:47:20
- Mar 16th, 2023 13:42:42
- Mar 9th, 2023 12:27:06
- Mar 2nd, 2023 08:29:52
- Mar 2nd, 2023 08:14:16

Metric / Imperial
Settings

Overview | Details | Equipment | Notifications | Documents | Checklists

GENERAL

POWER

SENSORS

CONTROLS

WEATHER

MEDIA

Apr 4th, 2023 08:58:49 Edit

Apr 4th, 2023 08:58:49 (+02:00)

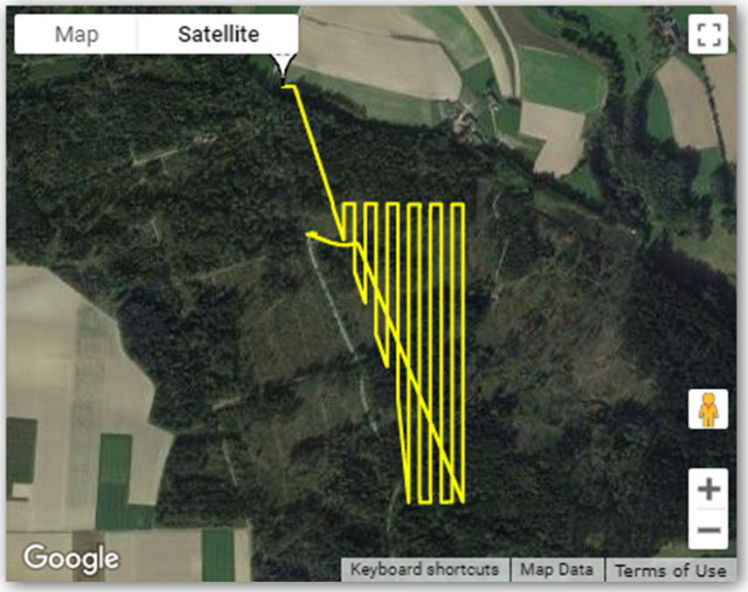
Plane Name **M30T_02**

Flight Air Time **23m 09s**

Takeoff Battery **97%** 25.6v

Landing Battery **46%** 21.4v

M30/Android DJI Pilot



Total Kilometrage **6,015 m**

Max Distance **835 m**

Max Altitude **70.1 m**

Max Speed **14.21 m/s**

Max Bat Temp **22.70°c**

Tips: 3
Warnings: 10

Download: KML GPX (?) CSV Original

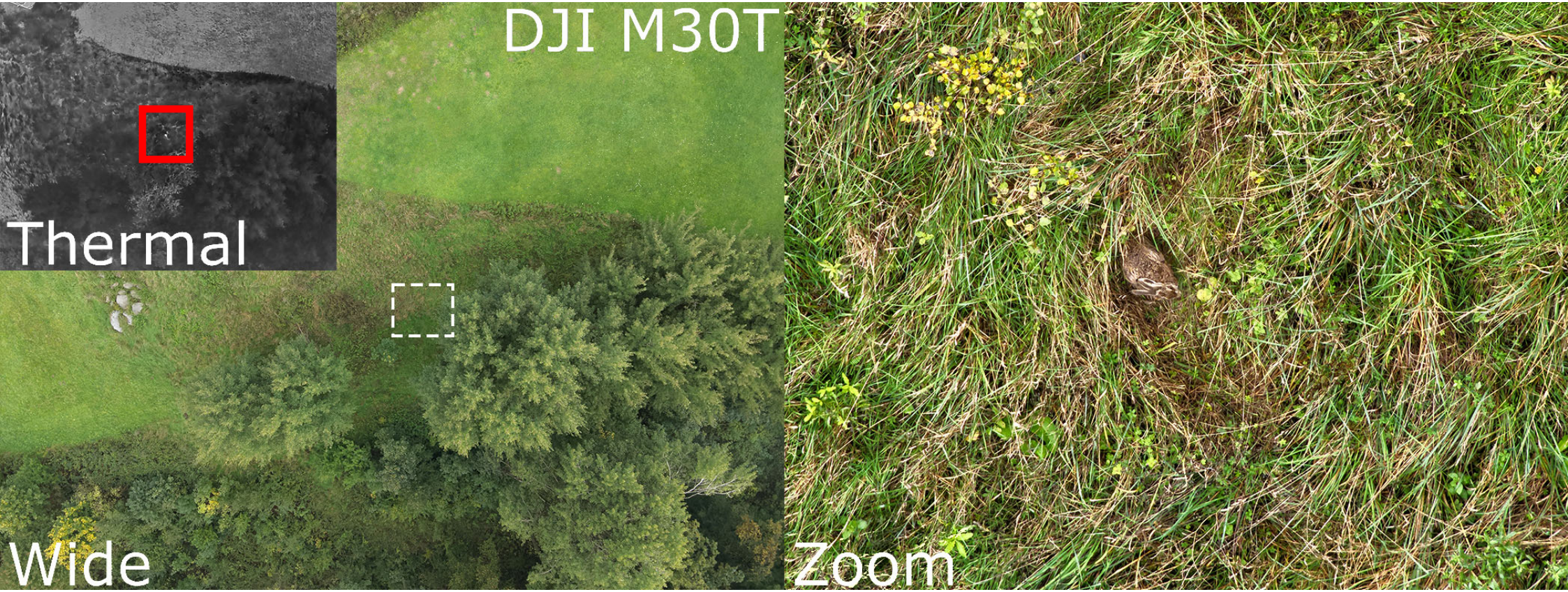
Add tag

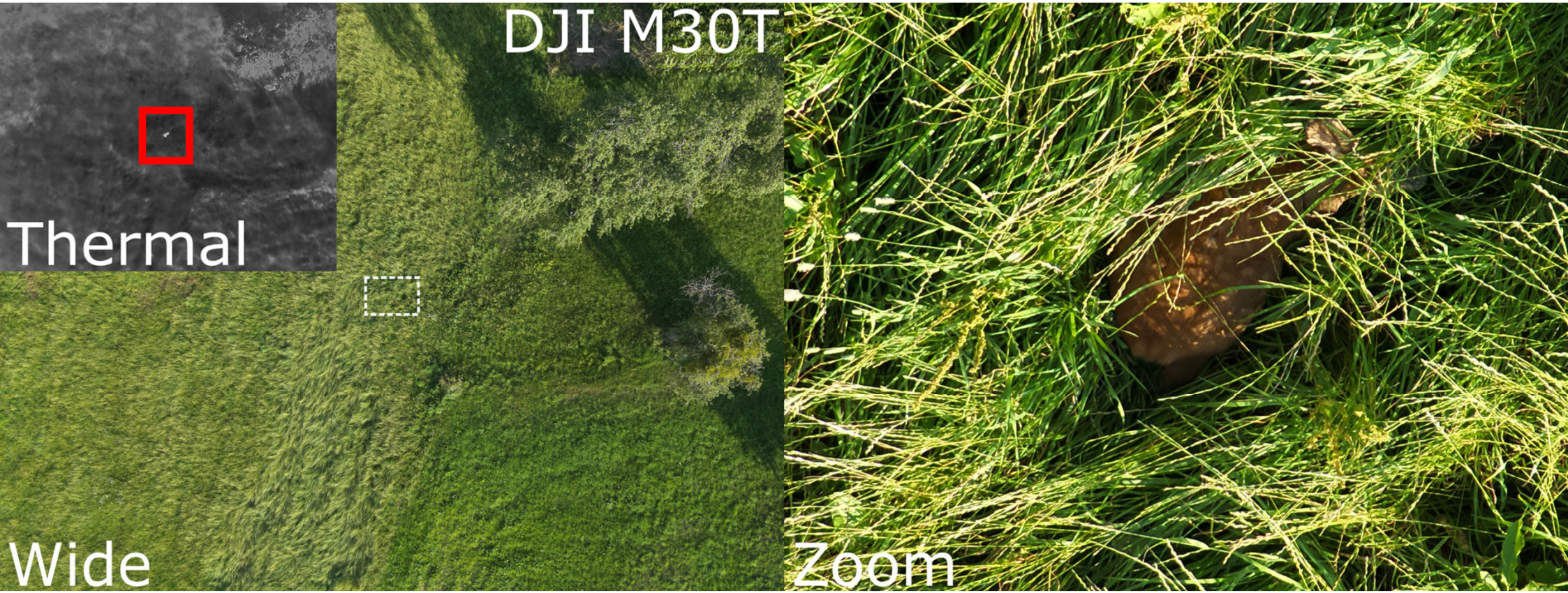
Add Flight Description

BAMBI FÜR DIE REHKITZRETTUNG?

- Das System soll:
  - ☐ in Wald und offenen Flächen (Wiese) funktionieren,
  - ☐ verschiedene Tiere erkennen (inkl. Reh und Rehkitze),
  - ☐ öffentlich verfügbar sein.

- Verarbeitung ist derzeit offline
  - ☐ Für Rehkitzrettung live notwendig?


DJI M30T
Thermal
Wide
Zoom


DJI M30T
Thermal
Wide
Zoom

BAMBI

Biodiversity Airborne Monitoring
Based on Intelligent UAV sampling

FFG
Forschung wirkt.

www.bambi.eco

Projekt-Laufzeit:
April 2022 – März 2025

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FH OBERÖSTERREICH

BÜRO FÜR WILDÖKOLOGIE & FORSTWIRTSCHAFT
DI HORST LEITNER
www.wildoekologie.at

umwelt data

Drone Competence Center
ic ViewCopter GmbH

JAGD ÖSTERREICH
NÖ
OÖ
Tirol