



Erasmus+

Thanks

Friends

Benefit

Partners

Research

Drones

Problem solving in STEAM subjects

Students from Belfast, Erding and Iasi



What is problem solving?

- the **process** of finding a solution to a problem
- center of what many people do at work every day

→ **Key skill for our daily life!**

Thanks

Friends

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Research

Drones





Thanks

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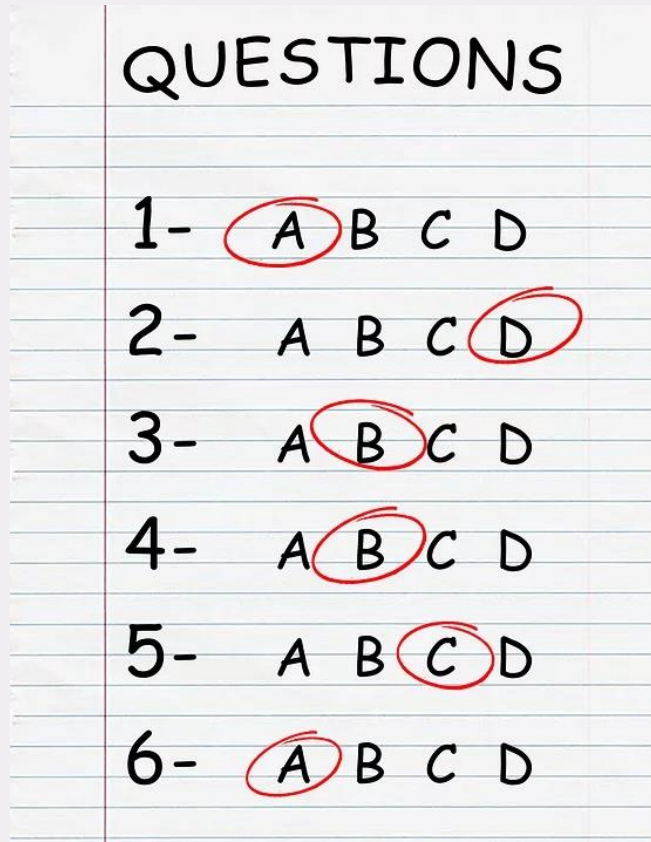
Partners

Research

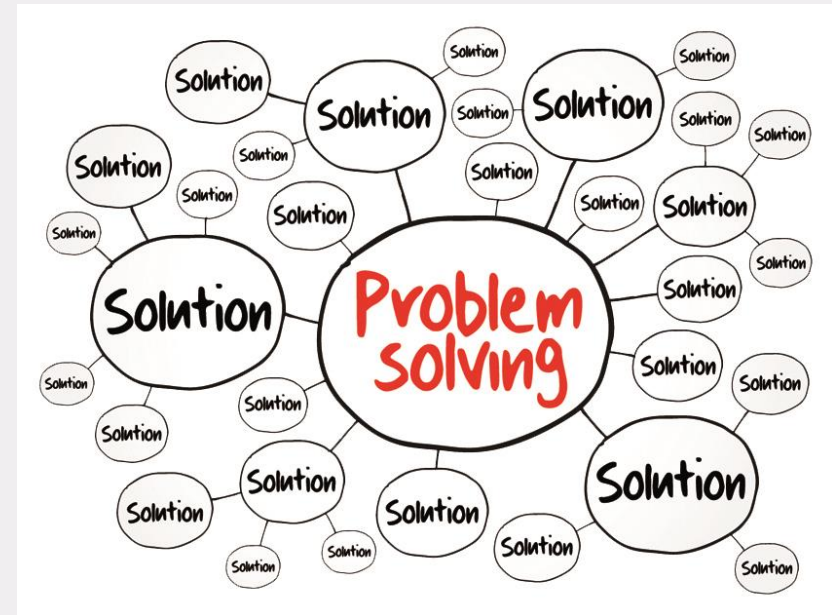
Drones

What is problem solving?

Problem solving in school



Problem solving in daily life



Thanks

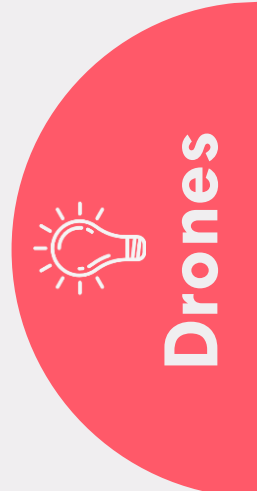
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Research

...as a hobby



Thanks

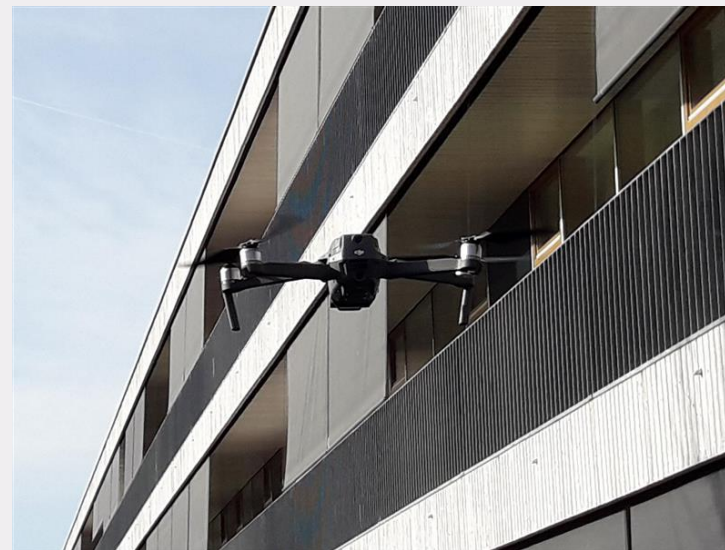
Friends

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Research

... to help and rescue



Drones

Thanks

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Research

... in nature and agriculture



Drones

Thanks

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Research

... for logistics



https://cdn.prod.www.spiegel.de/images/2cf13dd2-0001-0004-0000-000000574750_w948_r1.77_fpx42.37_fpy55.jpg



Drones

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Research based on environment

Every school was focusing on problems in their environment

↳ Three schools involved solved problems differently



Research

Drones

Saving lives

Problems: fires, earthquakes, hail, strong wind, flood
= difficulties with the weather

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Research

Drones

Thanks

Friends

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Partners

Saving lives



Research

Drones

Thanks

Friends

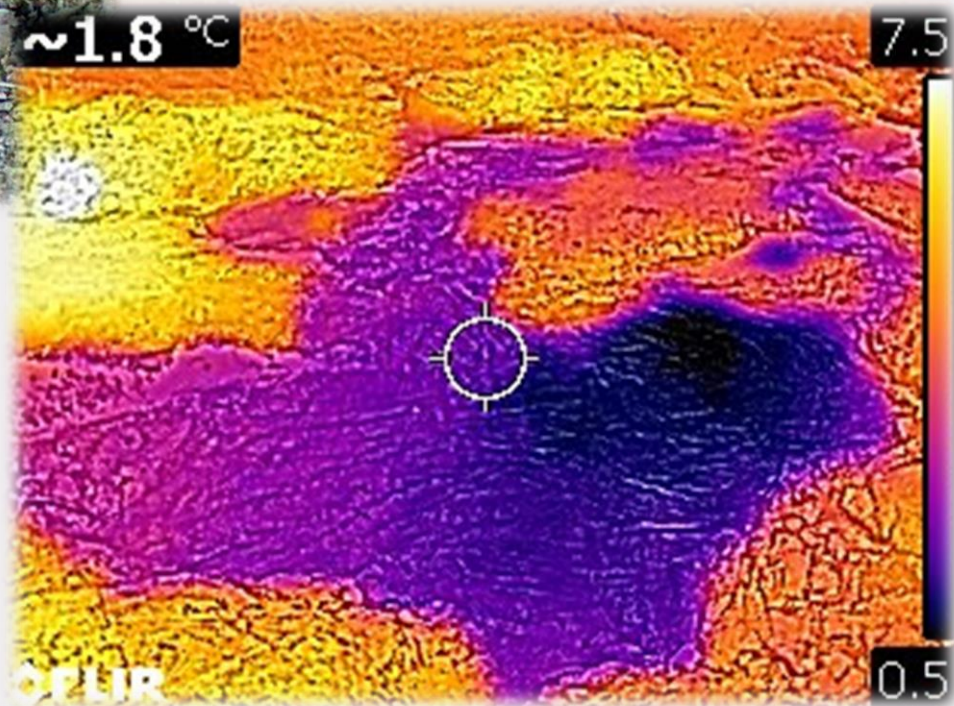
Benefit

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Saving lives



~1.8 °C



Research

Drones

Thanks

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Partners

Saving lives



Research

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Saving the city

Problems: carbon emissions, damaged buildings



Source: <https://www.lvais.ro/>

Thanks

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Research

Drones

Thanks

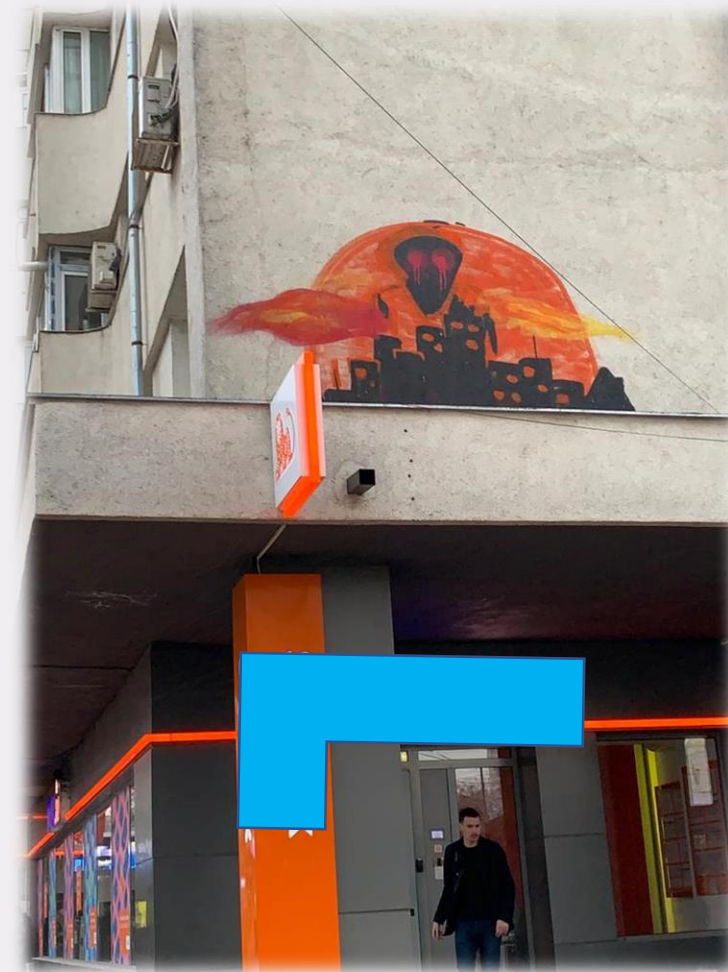
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Saving the city

Visual pollution



Research

Drones

Thanks

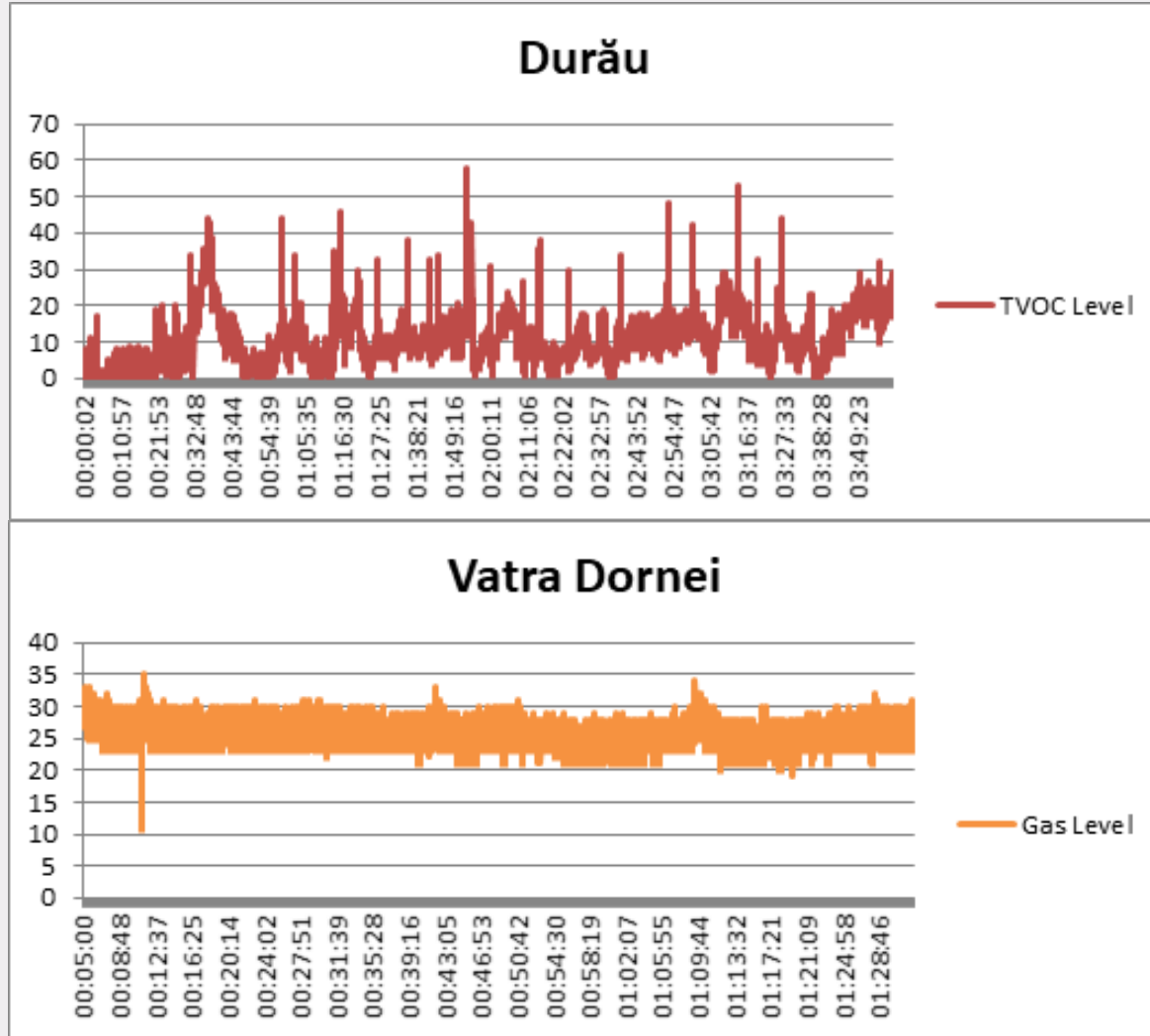
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Saving the city

Air quality -
examination of how clean the air in some cities places



Research

Drones

Thanks

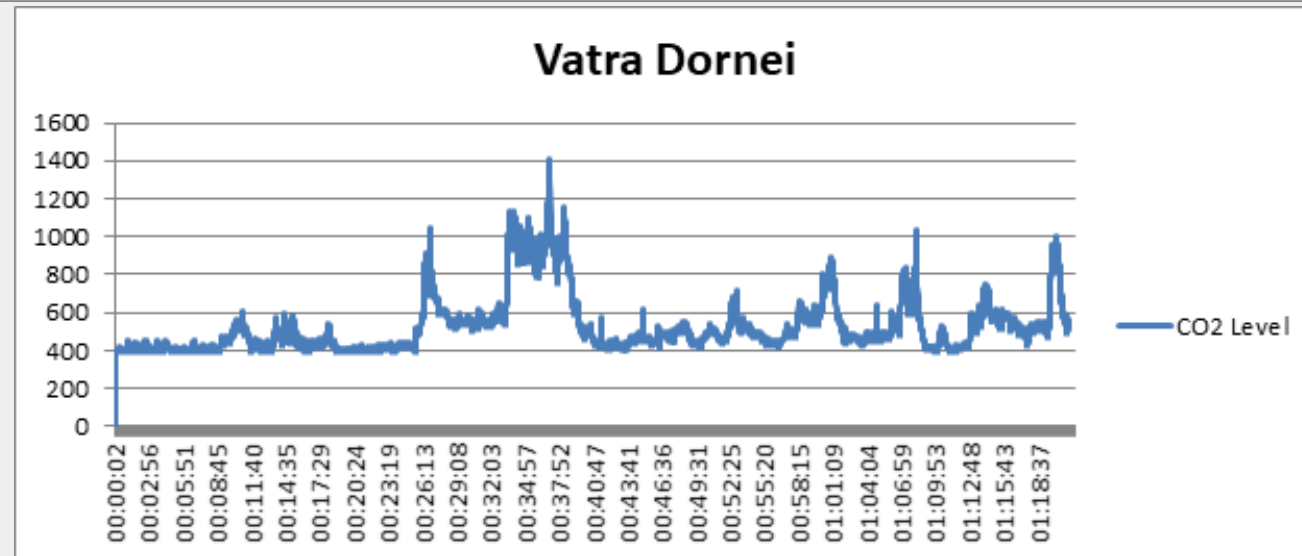
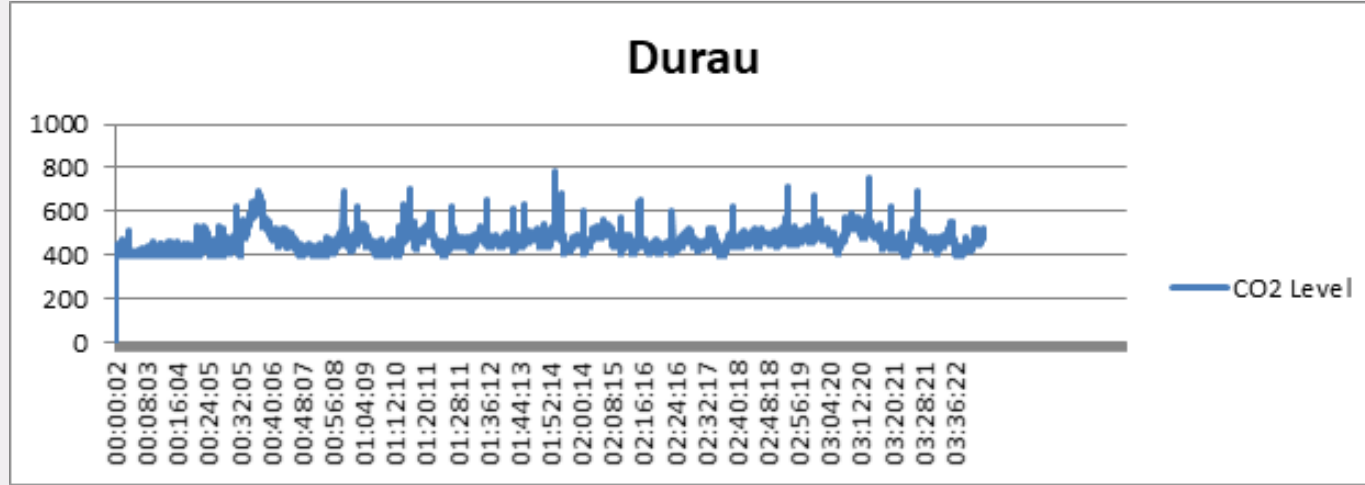
Friends

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Saving the city

Air quality -
examination of how clean the air far from the city is



Research

Drones

Thanks

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Saving the city

Air quality



Research

Drones

Thanks

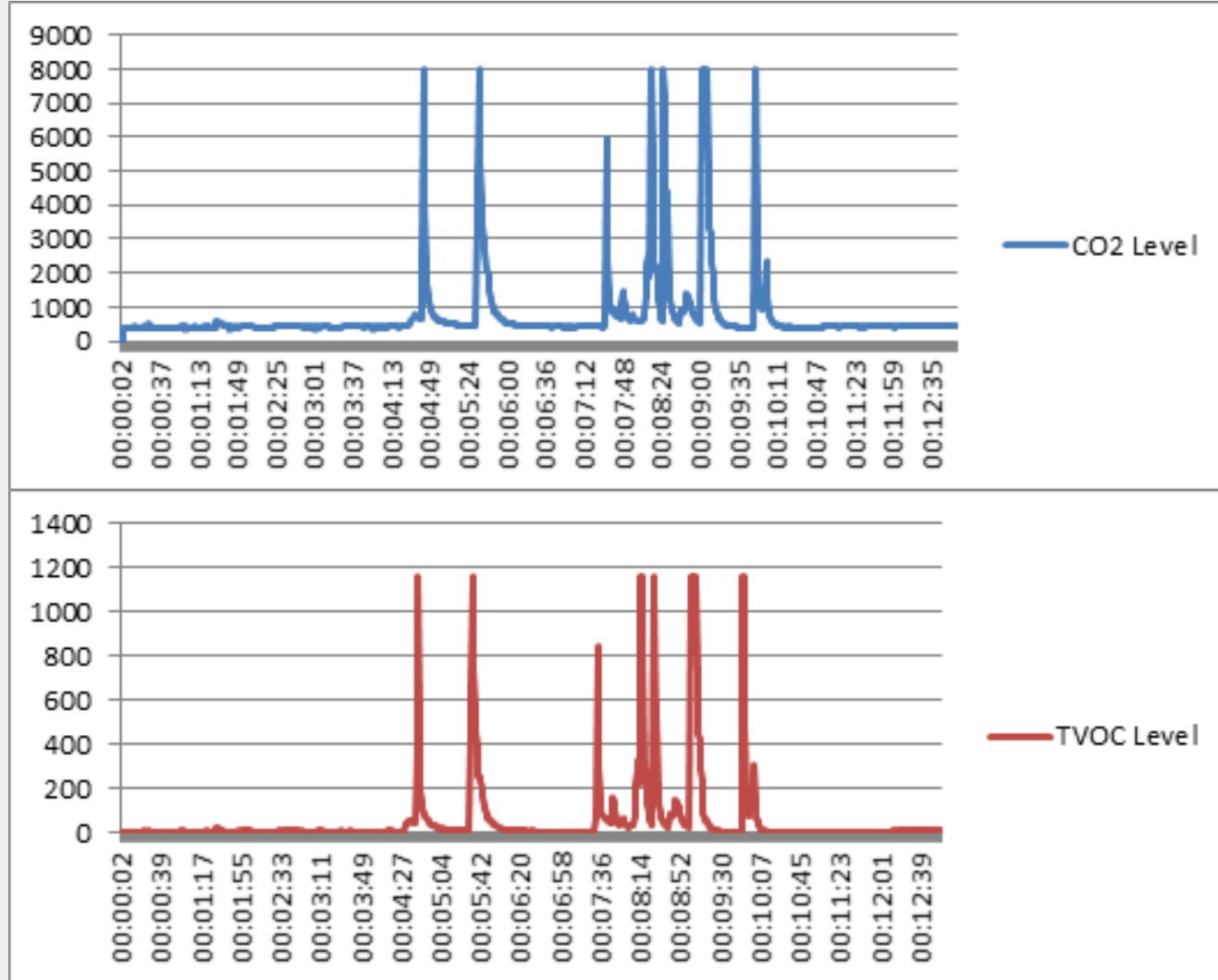
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Saving the city

Air quality - examination of chemical substances



Research

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Saving the city

Finding solutions for pollution – by spreading awareness



Thanks

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Saving the city

A for Art in STEAM



Research

Drones

Saving the flora and fauna

Problems:

- damaged wood, destroyed forests through the bark beetle
- the decline in insect population



Thanks

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Drones

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Saving the flora

The bark beetle



Source: https://en.wikipedia.org/wiki/Bark_beetle



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Saving the flora

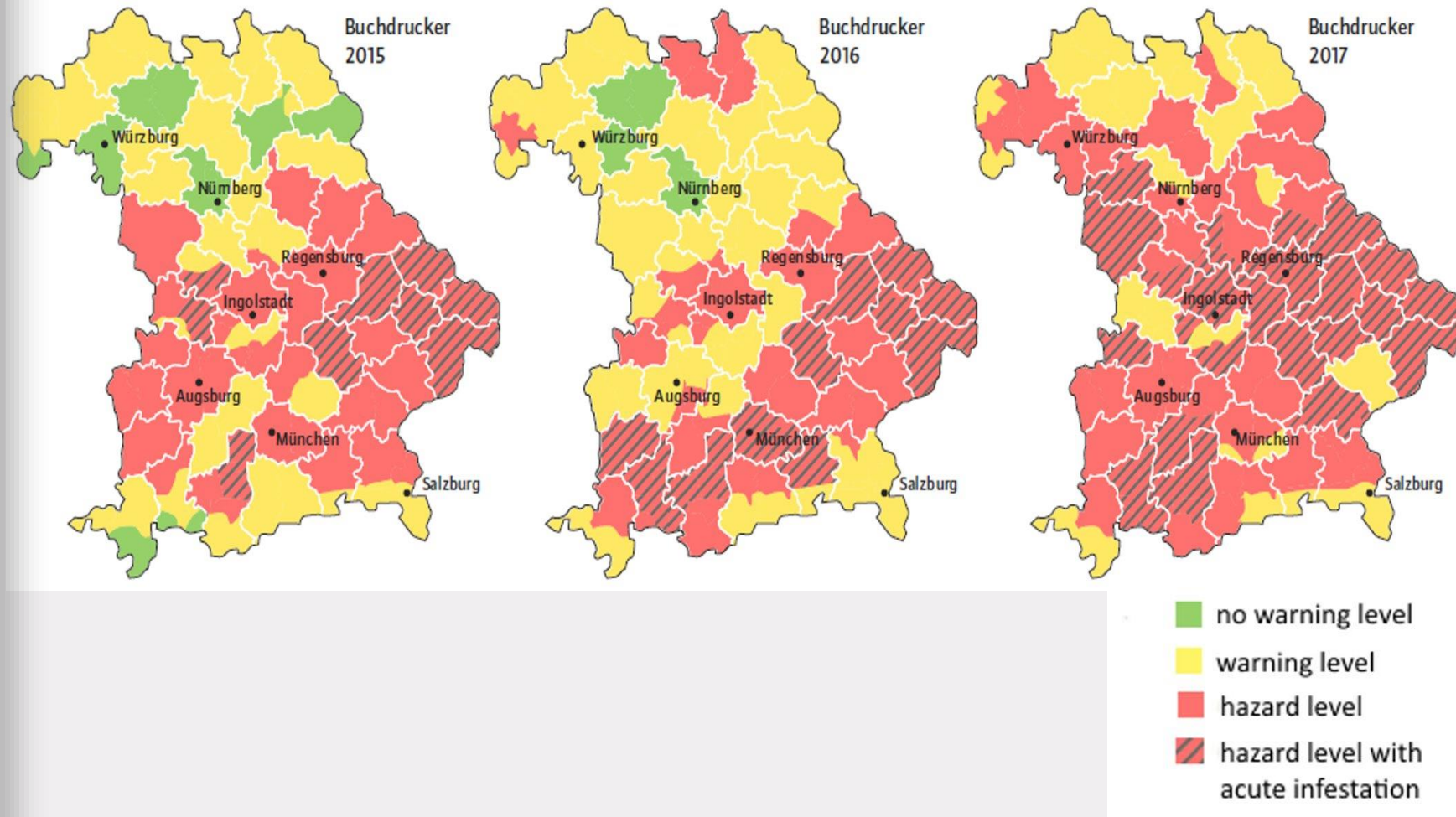


Research

Drones

Saving the flora

Warning levels of the bark beetle



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Saving the flora



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Drones

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Saving the flora



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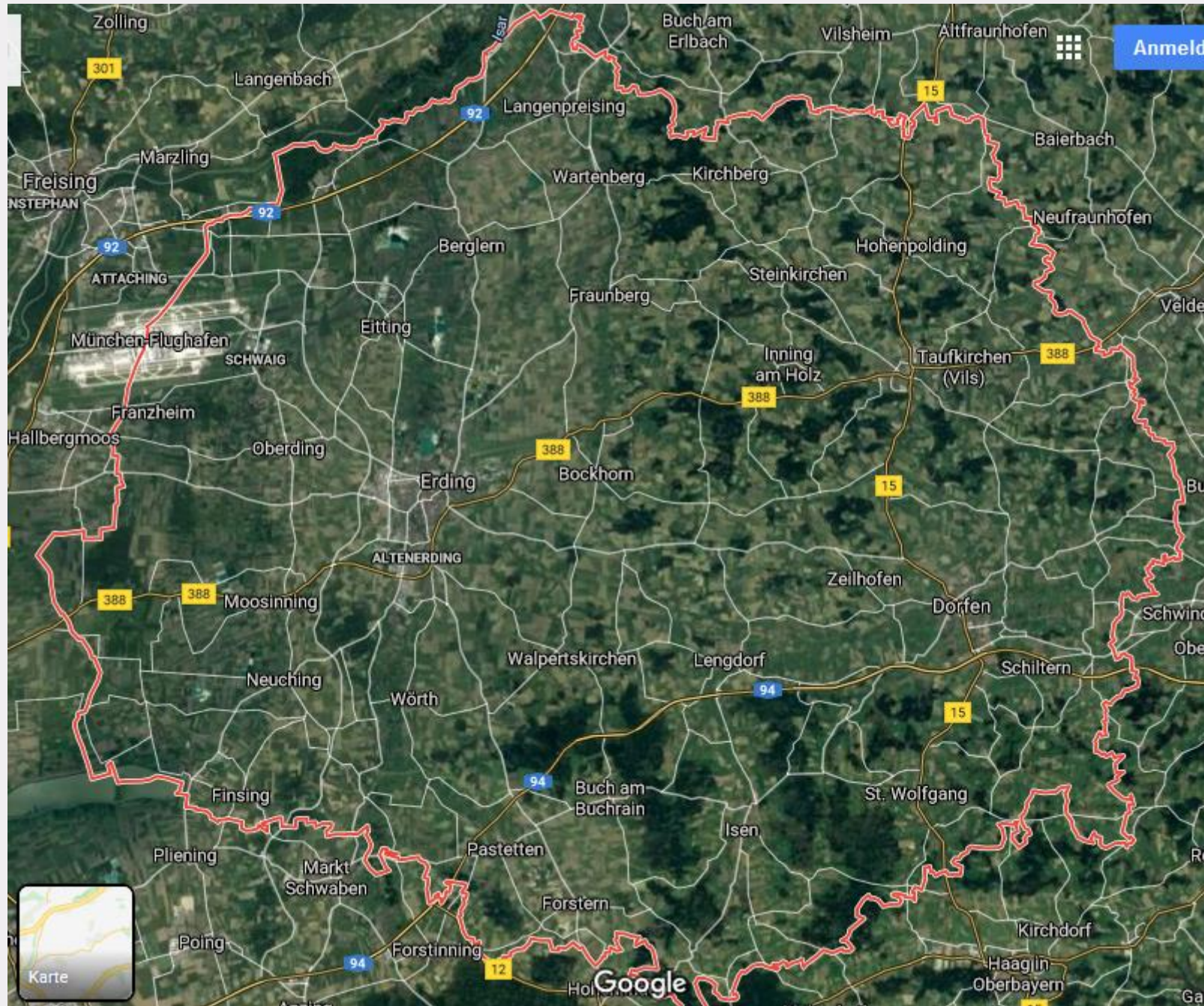
Drones

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Saving the fauna



**Connection between decline in insect population
and agricultural use of the environment?**



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Saving the fauna



insect trap



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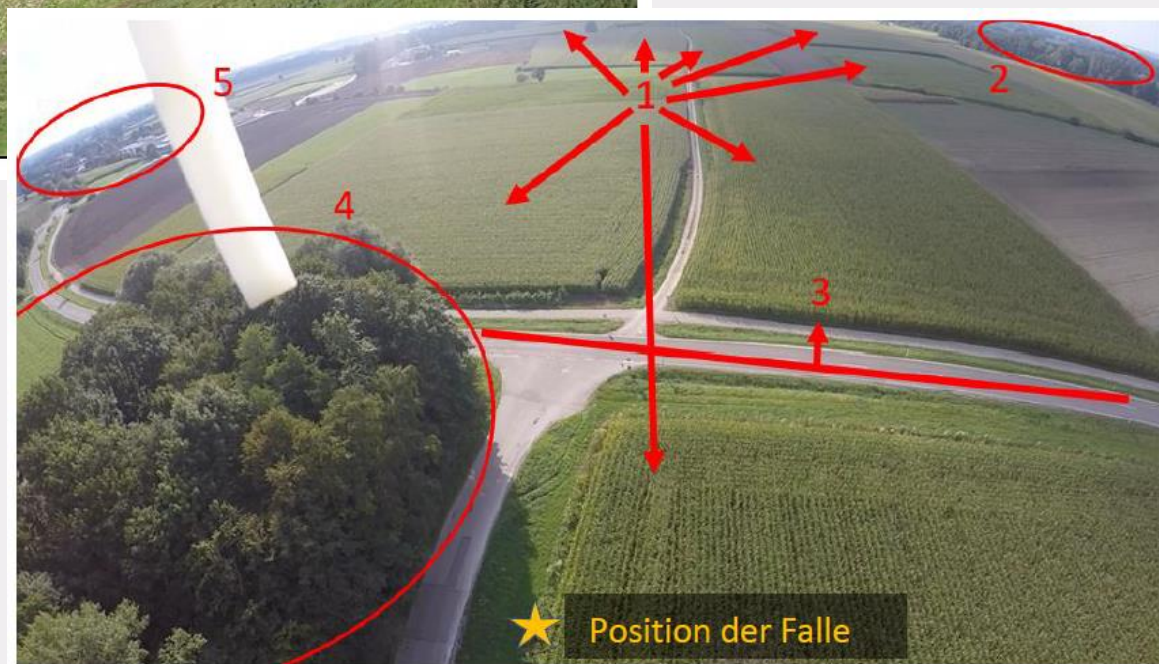
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Saving the fauna



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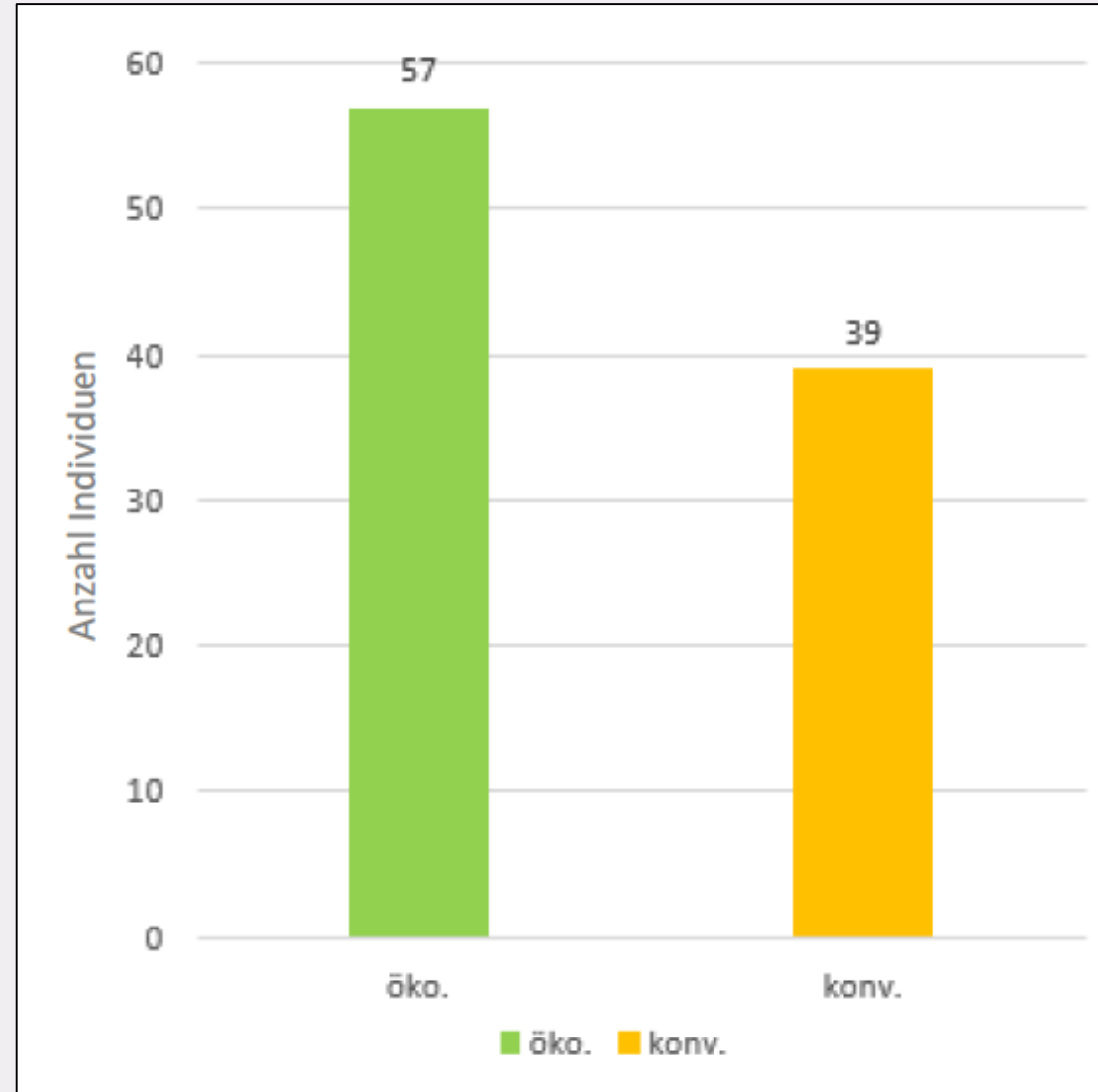
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Partners

Saving the fauna



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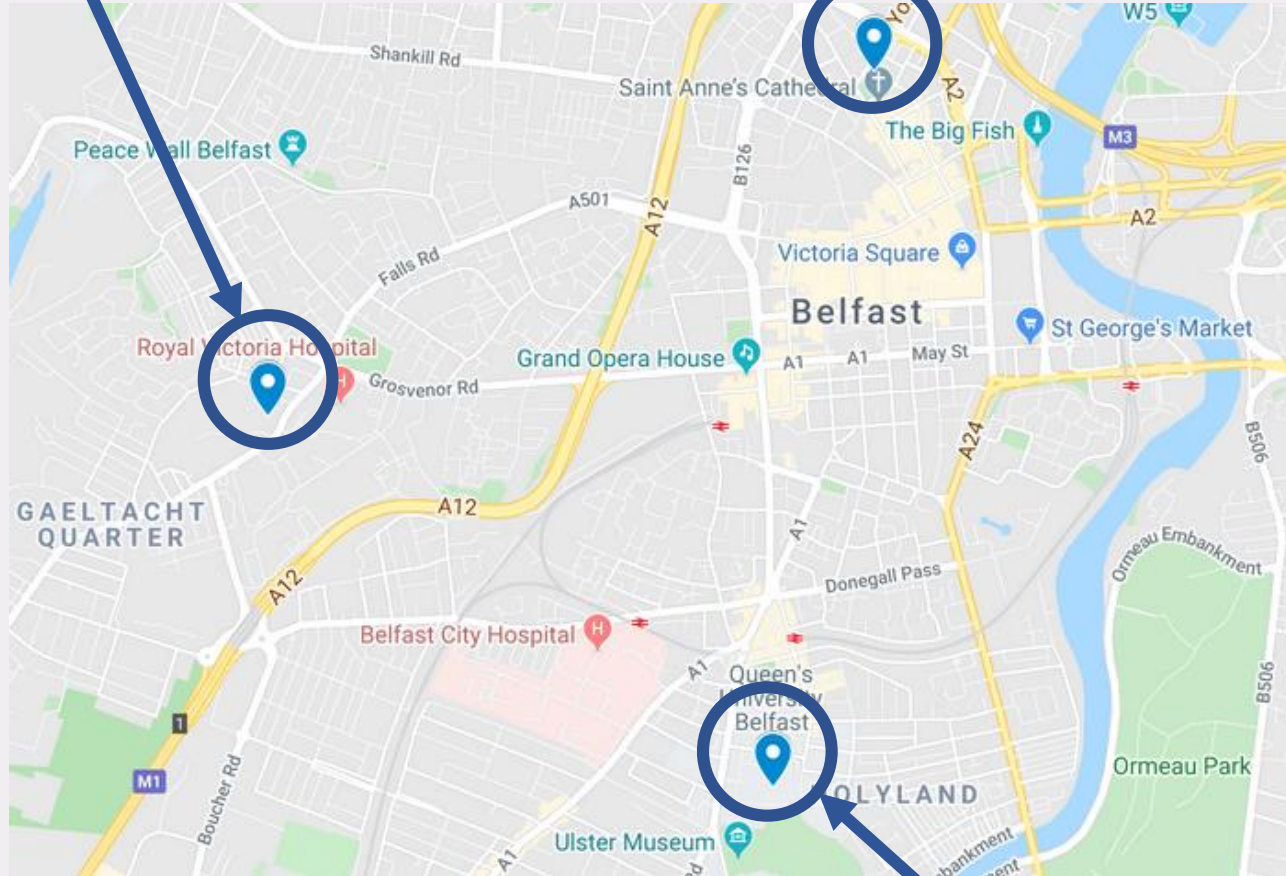
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St. Dominic's Grammar School

Ulster University



Sky Watch Northern Ireland

Queens University



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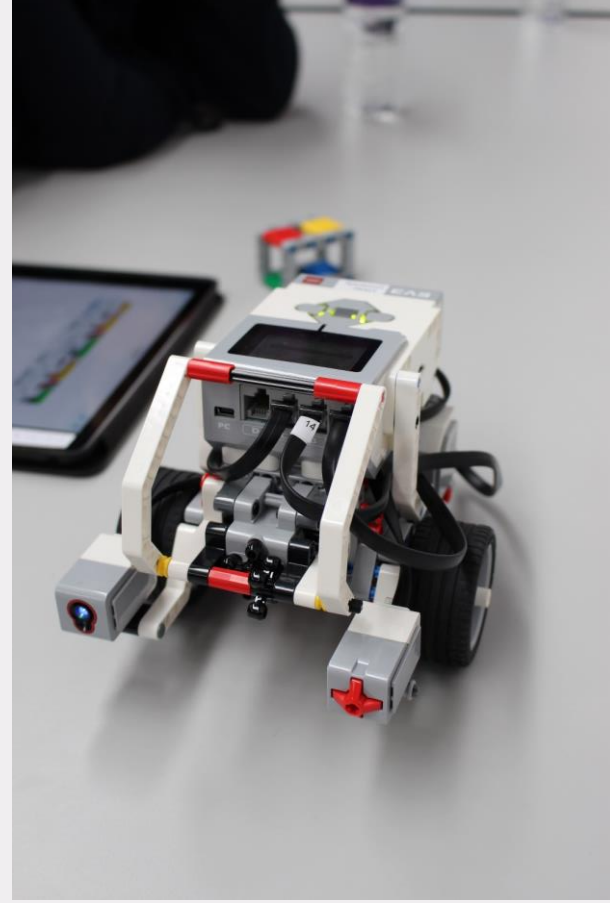
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Drones

Thanks

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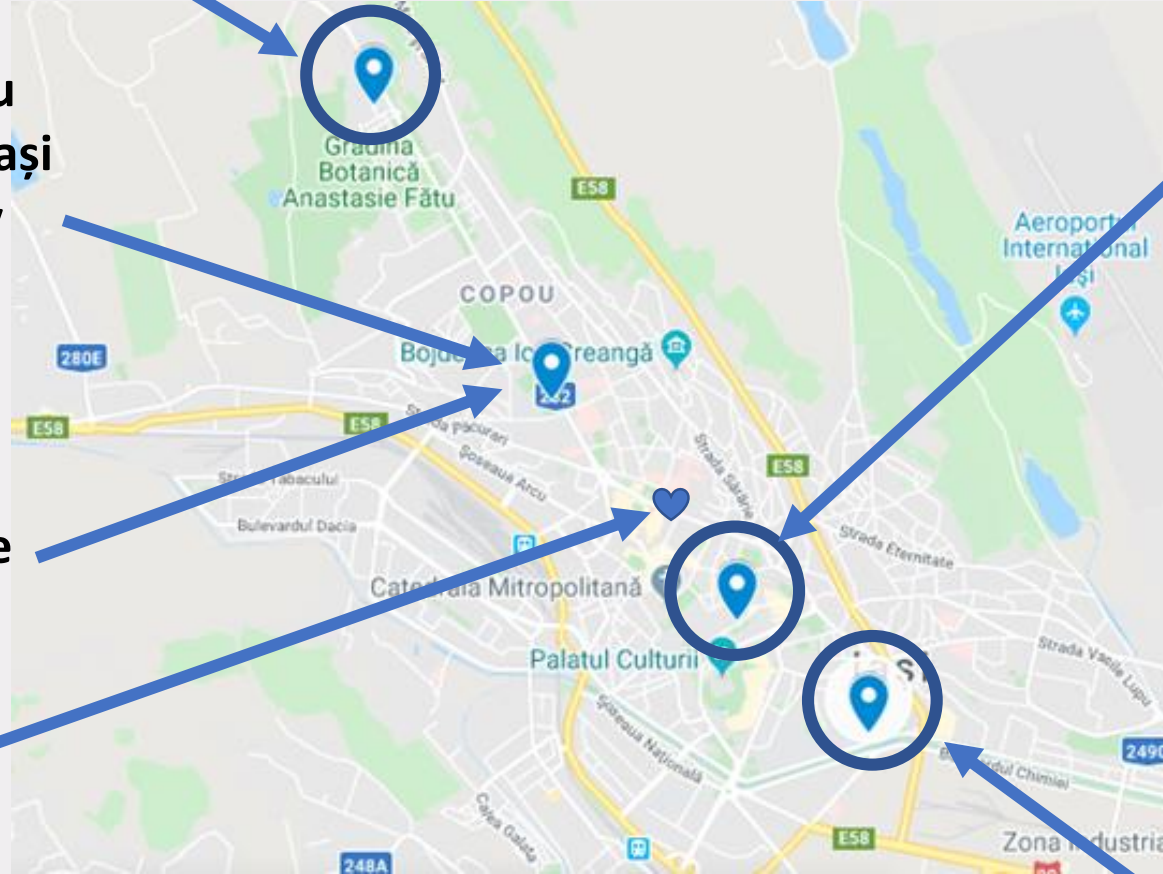
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University of Agricultural
Sciences and Veterinary
Medicine

National University of
Arts "George Enescu"

"Vasile
Alecsandri"
Highschool

"Alexandru
Ioan Cuza" Iași
University



ESTEEM Alliance

Iași City Hall

Technical University
"Gheorghe Asachi" Iași



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"Alexandru Ioan Cuza" Iași University

University of Agricultural
Sciences and Veterinary
Medicine



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**National University of Arts
"George Enescu"**

**University of Agricultural
Sciences and Veterinary
Medicine**



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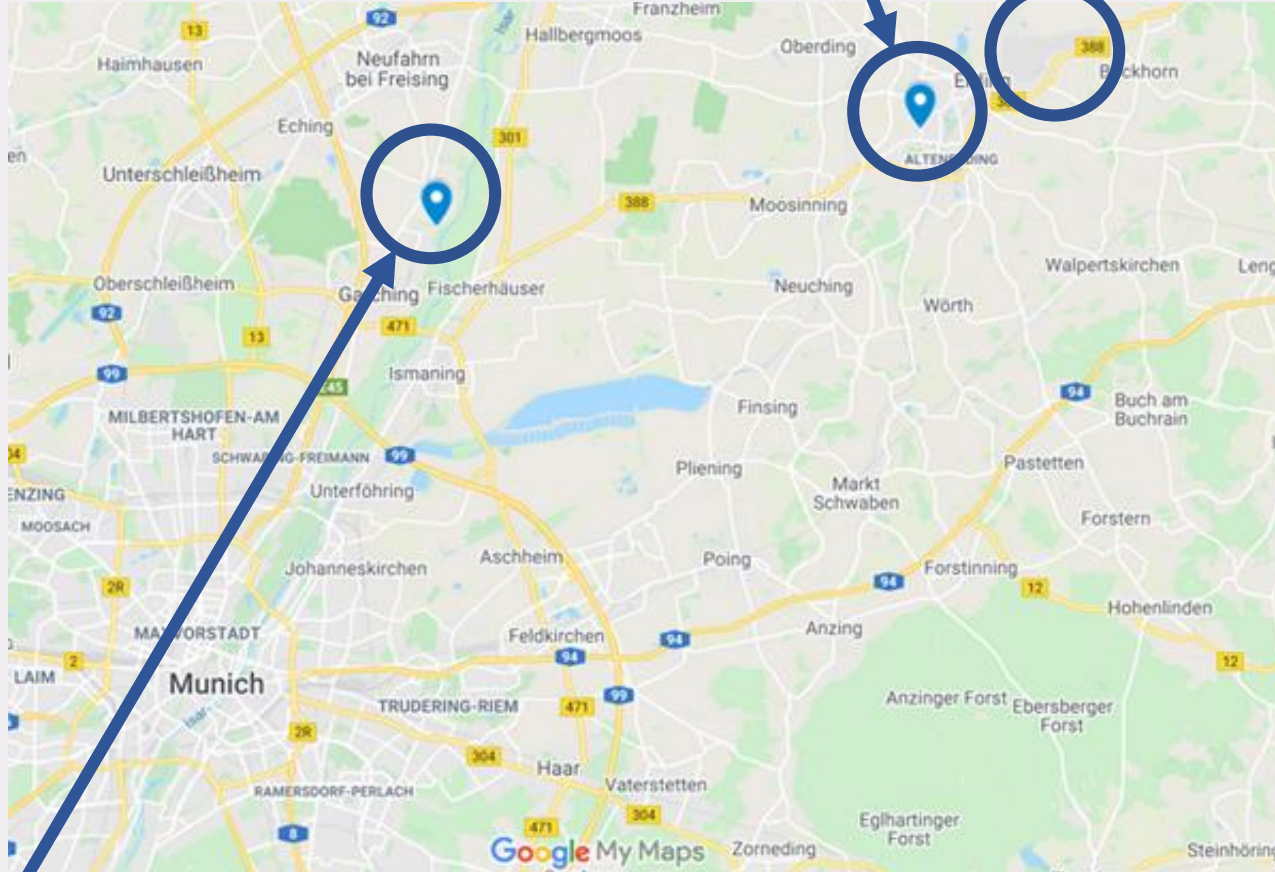
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Korbinian-Aigner-Gymnasium

AELF Erding



Technical University of Munich

Sparkasse Erding
VR Bank Erding



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Visiting the TU Munich



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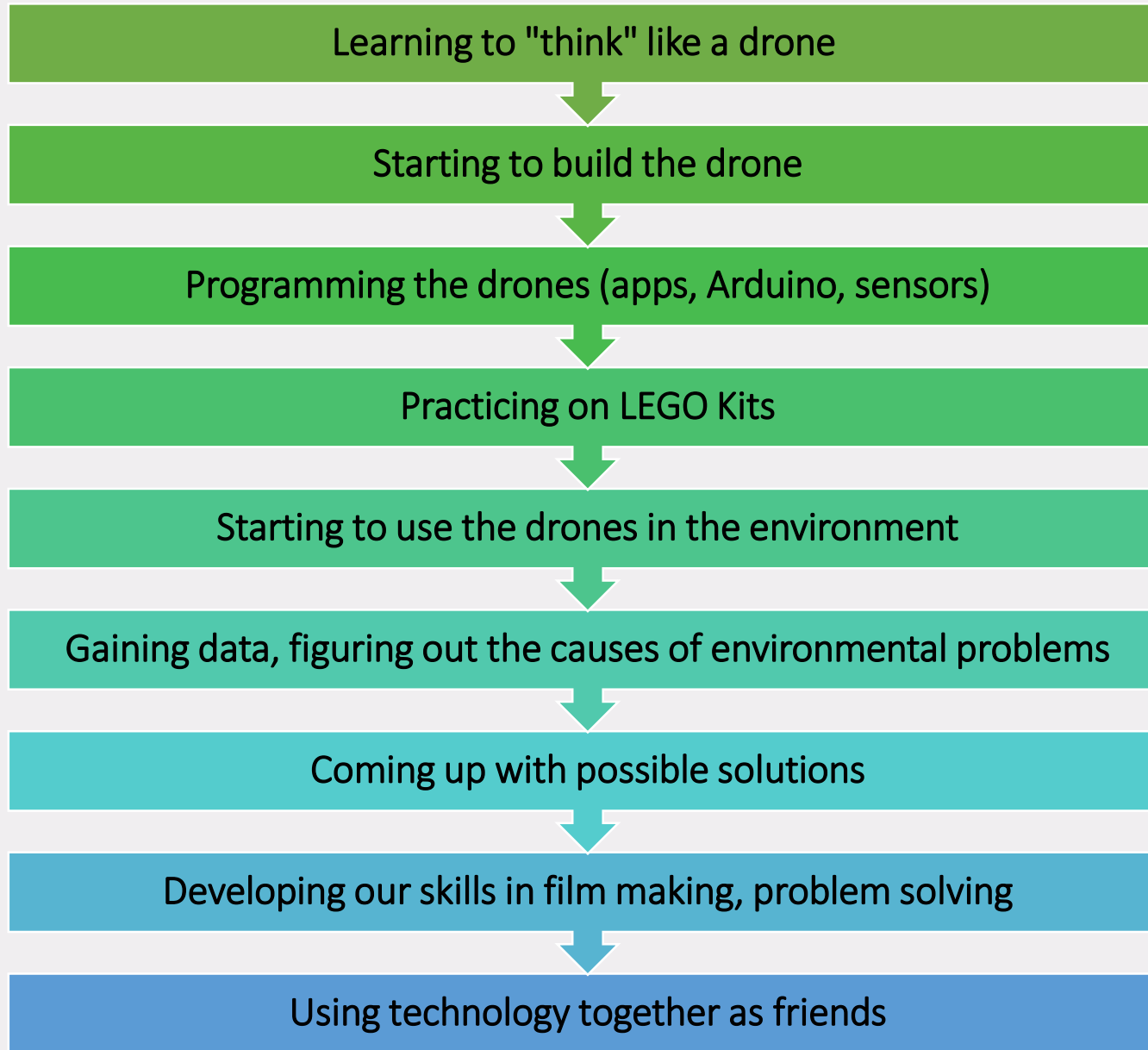
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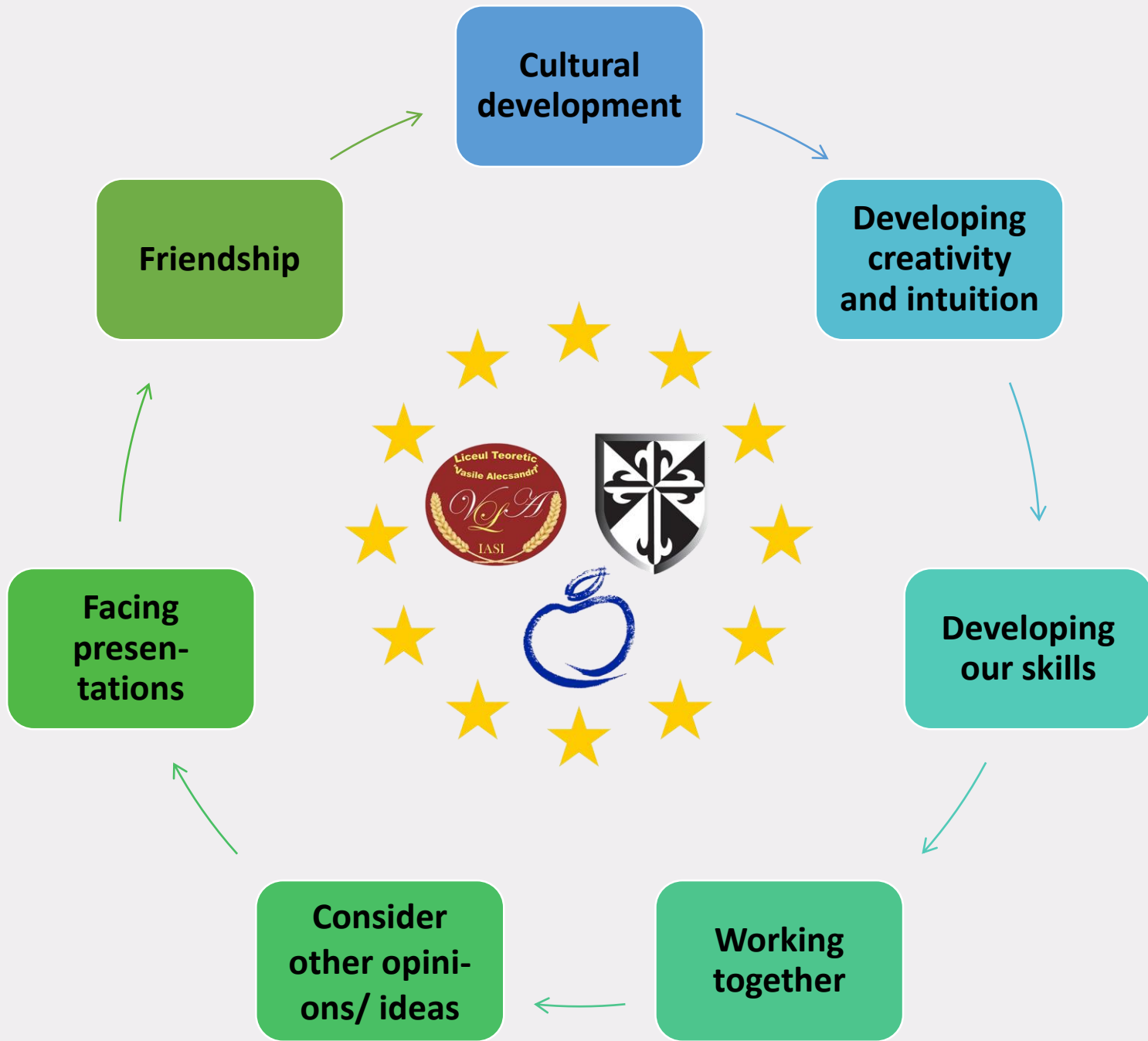
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Drones

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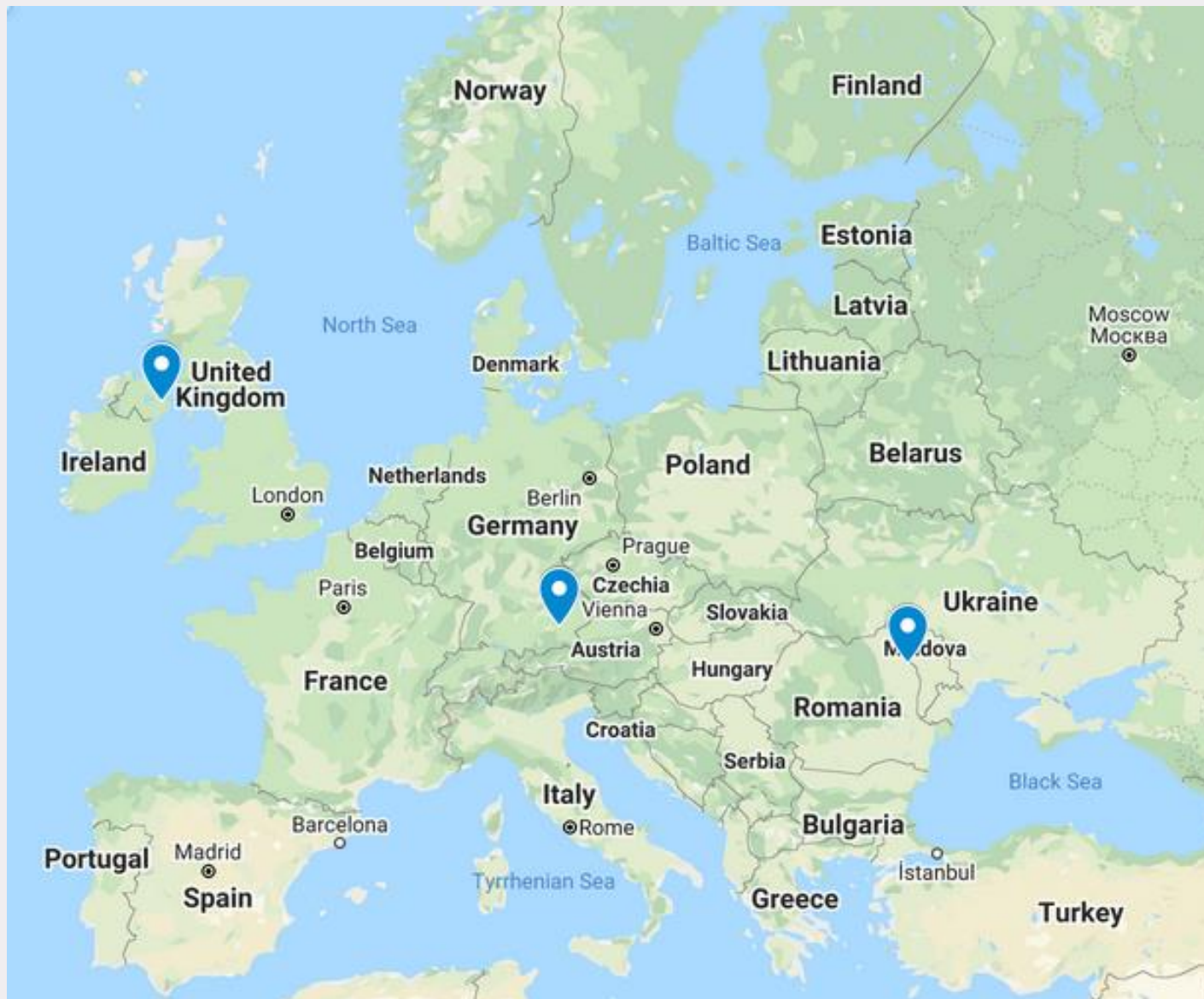
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Partners

Research

Drones

Thanks



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Thanks



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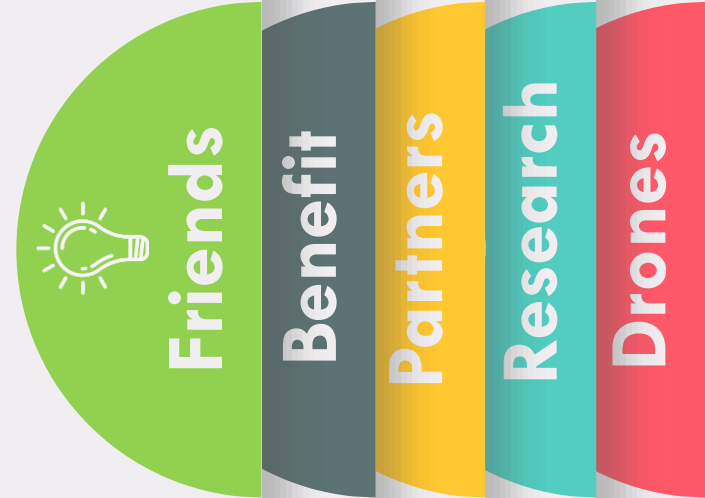
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Partners

Research

Drones

Thanks



Thanks



Friends

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Research

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Thank You!

