Co-funded by the Erasmus+ Programme of the European Union

DRONE TEAM

2015-1-ES01-KA202-015925

Transnational Meeting no. 5
Sisak (Croatia)

Prepared by ZS10 Zabrze

Drone activities & dissemination activities

Dissemination

www.droneteamproject.eu/dissemination

Szukaj

DRONE TEAM

MAKING AND DESIGNING A TOY DRONE THROUGH MULTIDISCIPLINARY COLLABORATIVE WORK
Project no. 2015-1-ES01-KA202-015925

http://www.droneteamproject.eu/dissemination

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- Dissemination Tehnička škola Sisak Croatia
- Holidays workshop, Presentation of drone team project to primariy schools on technical days
- Dissemination ZS10 Poland
- Dissemination Šolski center Krško-Sevnica Slovenija
- News from ZS10 website
- Dissemination AIJU - Technological Institute for children's products & leisure Spain
- Dissemination IES la FOIA Spain

- IES la FOIA
- Šolski center Krško-Sevnica
- Tehnička škola Sisak
- Zespół Szkół nr 10
- AIJU - Technological Institute for children's products & leisure

Photo gallery:

On Drone Team website we have specoal area for dessimantion for each partners

Dissemination

Dissemination of Drone Team ZS10 on the Drone Team website

/dissemination/zespol-szkol-nr-10 Szukaj

DRONE TEAM

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Dissemination ZS10 Poland

- Same photos from the expo for younger people from middle schools of the city Zabrze on the **Drone Team ZS10 facebook** - link
- Publication **on website of ZS10** about presenatation Drone Team ZS10 on the expo for younger people from middle schools of the city Zabrze 25 of April 2017 r. link
- **Publication on ZS10 facebook** about presenatation Drone Team ZS10 on the expo for younger people from middle schools of the city Zabrze 25 of April 2017 r. link
- film about activites Drone Team ZS10 on the facebook, website of ZS10 Zabrze
- **Facebook of Drone Team ZS10 - a lot of activites of students in ZS10 Zabrze** - link
- Publication on website of ZS10 about presenatation Drone Team Project for students on the open day in ZS10 at 28.02.2017 r - link
- DroneTeam members from ZS10 Zabrze **presented the DroneTeam project to elementary school students** - films photos
- **Publication on ZS10 facebook** about presenatation Drone Team Project for students on the open day in ZS10 at 28.02.2017 r. - link
- First day the new school year 2016/2017 - information in lokal television - TVZ:

IES la FOIA
Šolski center Krško-Sevnica
Tehnička škola Sisak
Zespół Szkół nr 10
AIJU - Technological Institute for children's products & leisure

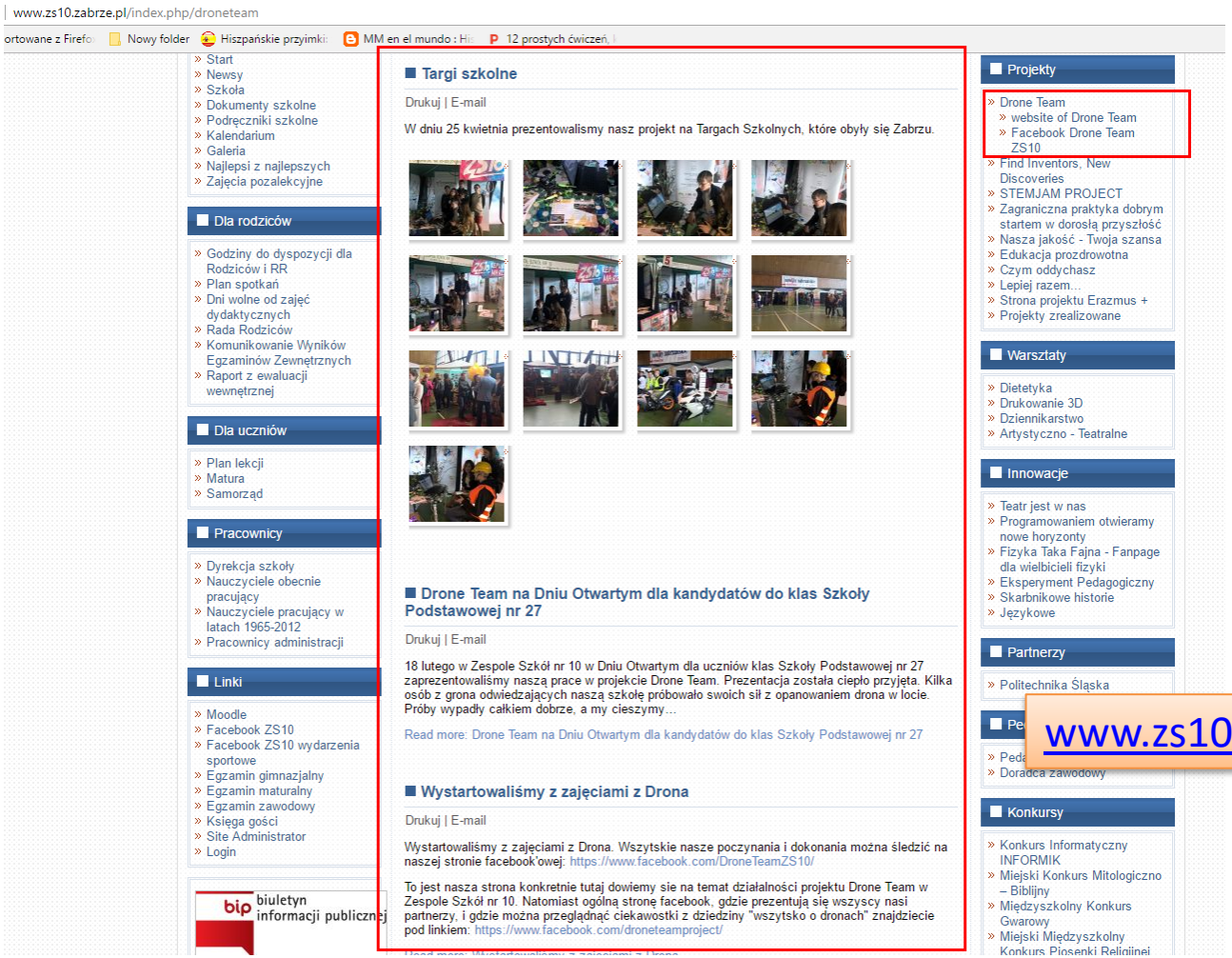
http://www.droneteamproject.eu/dissemination/zespol-szkol-nr-10

Dissemination

On the head of Zs10 website there is information about Drone Team Projekt

We have special area for same news and activites about Drone Team Project and - links to drone team website and facebook of Drone Team ZS10

Dissemination

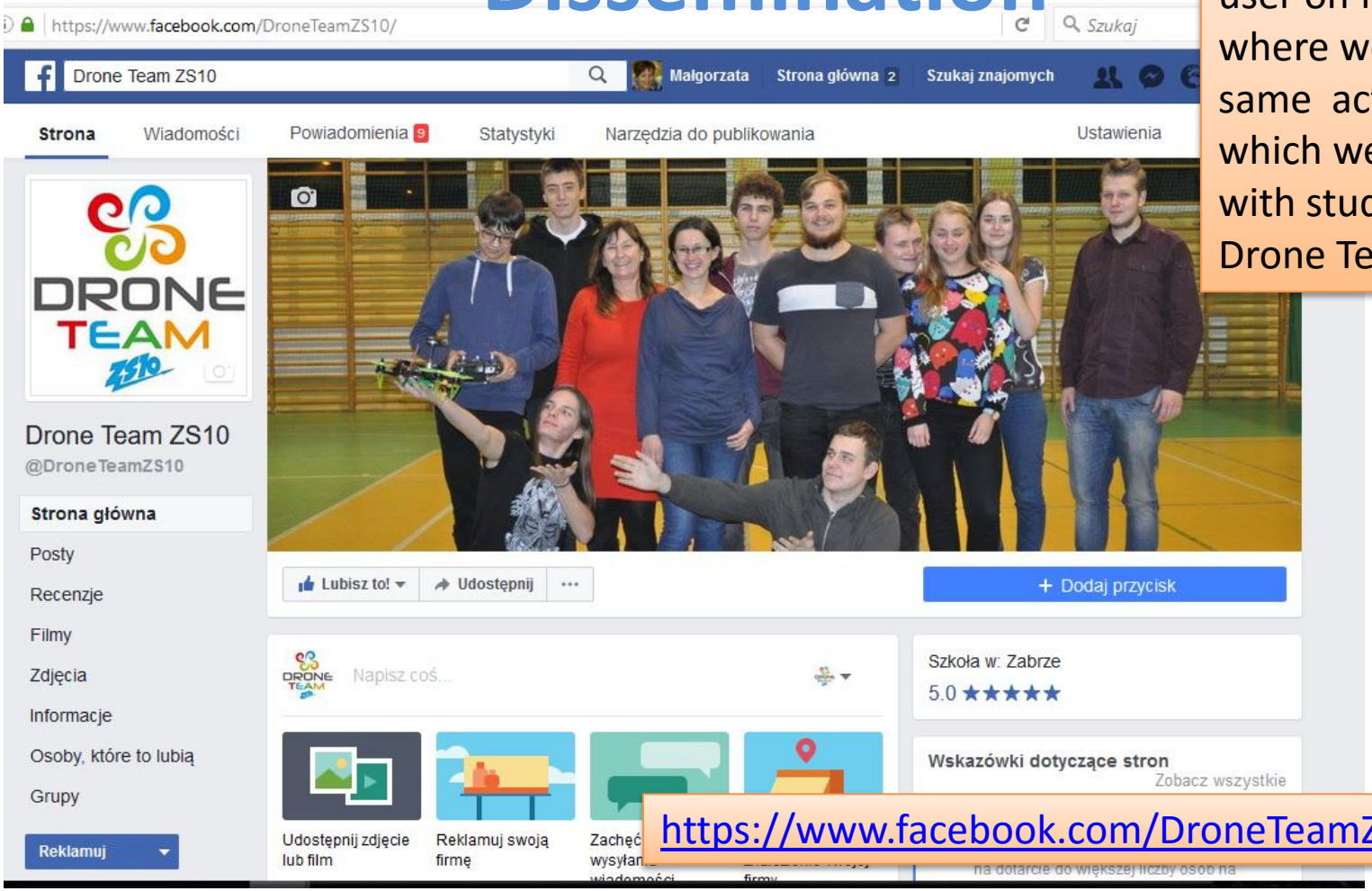


...and some news and activites about Drone Team Project

www.zs10.zabrze.pl/droneTeam

Dissemination

We created special user on facebook , where we put only same activites which we realized with students of Drone Team ZS10



https://www.facebook.com/DroneTeamZS10/

Dissemination

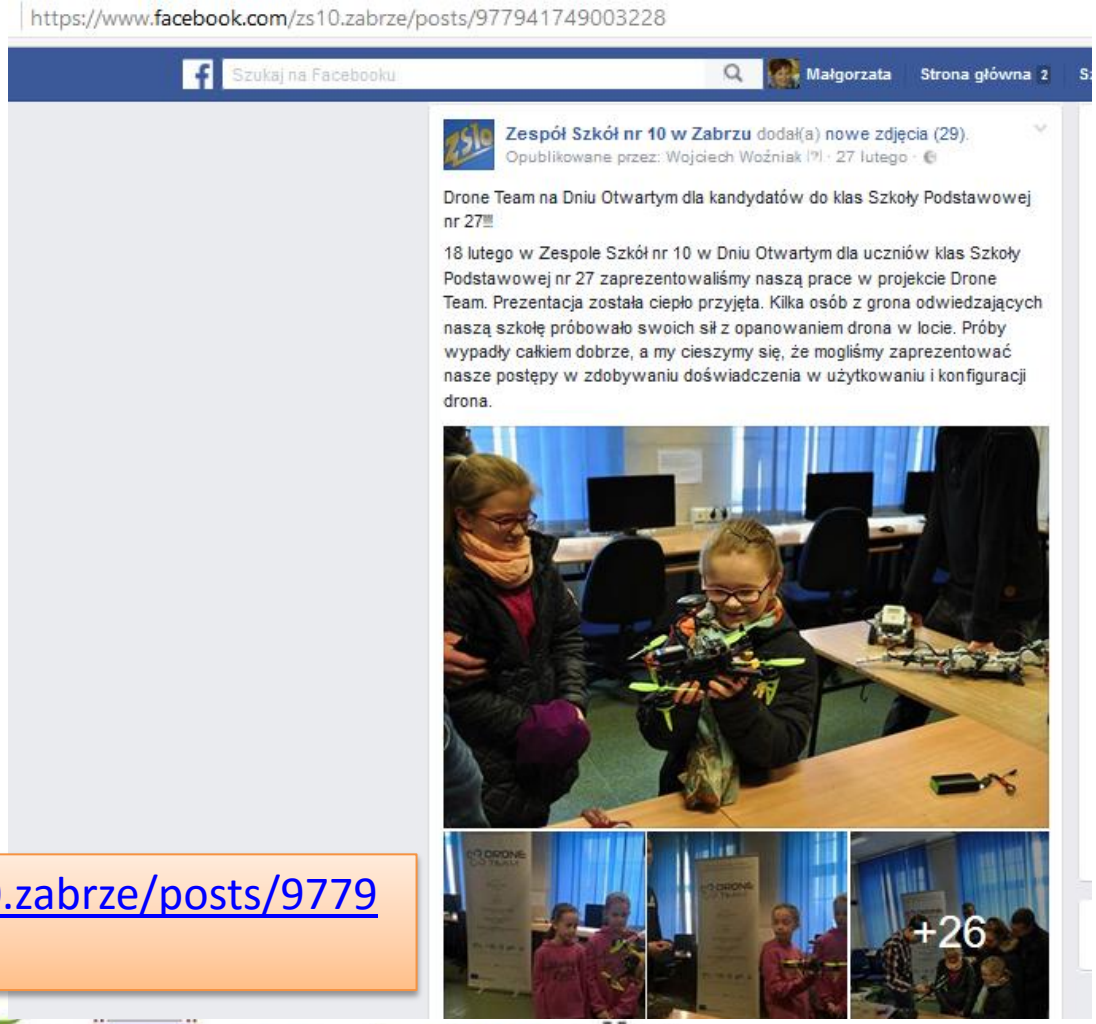
At 28 of february 2017 r. we presented Drone Team Project to elementary school students.
We published this acivites on the website of ZS10, facebook of ZS10 and facebook of Drone Team Project

http://www.zs10.zabrze.pl/index.php/droneteam/1335-drone-team-na-dniu-otwartym-dla-kandydatow-do-klas-szkoly-podstawowej-nr-27

Dissemination

Publication on **ZS10 facebook** about presenatation Drone Team Project on the open day in ZS10 at 28.02.2017 r.

https://www.facebook.com/zs10.zabrze/posts/977941749003228



https://www.facebook.com/zs10.zabrze/posts/977941749003228

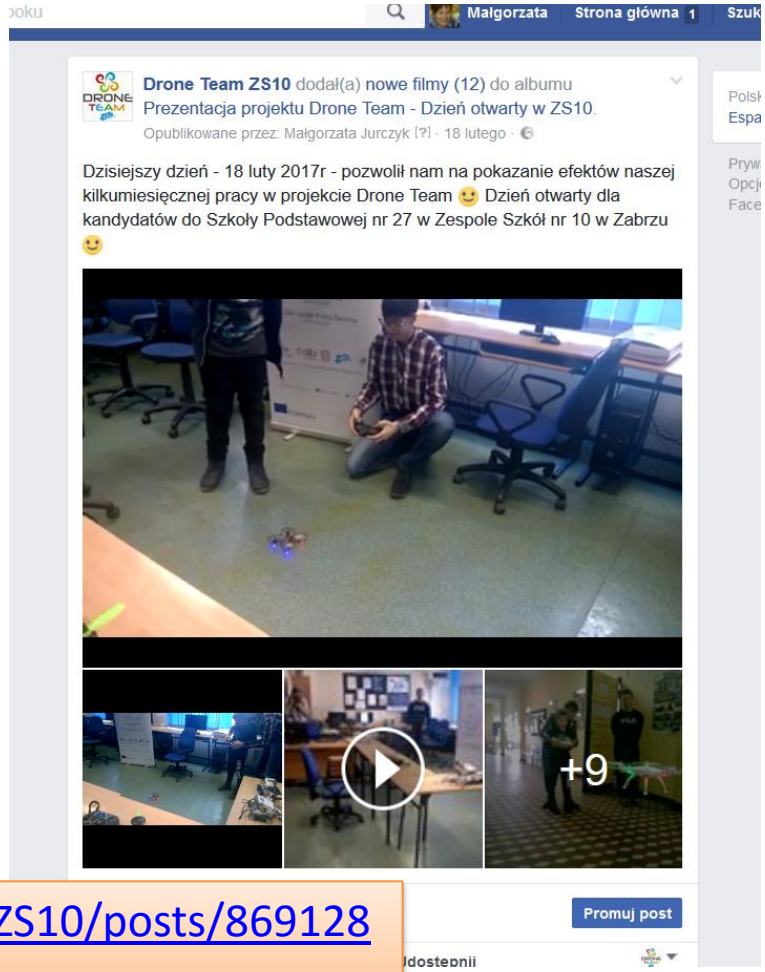
Dissemination

Publication on **Drone Team ZS10 facebook** about presenatation Drone Team Project on the open day in ZS10 at 28.02.2017 r. **same photos**

https://www.facebook.com/DroneTeamZS10/posts/871103649699579

Dissemination

Publication on **Drone Team ZS10 facebook** about presenatation Drone Team Project on the open day in ZS10 at 28.02.2017 r.
- **some films**



https://www.facebook.com/DroneTeamZS10/posts/869128353230442

Dissemination

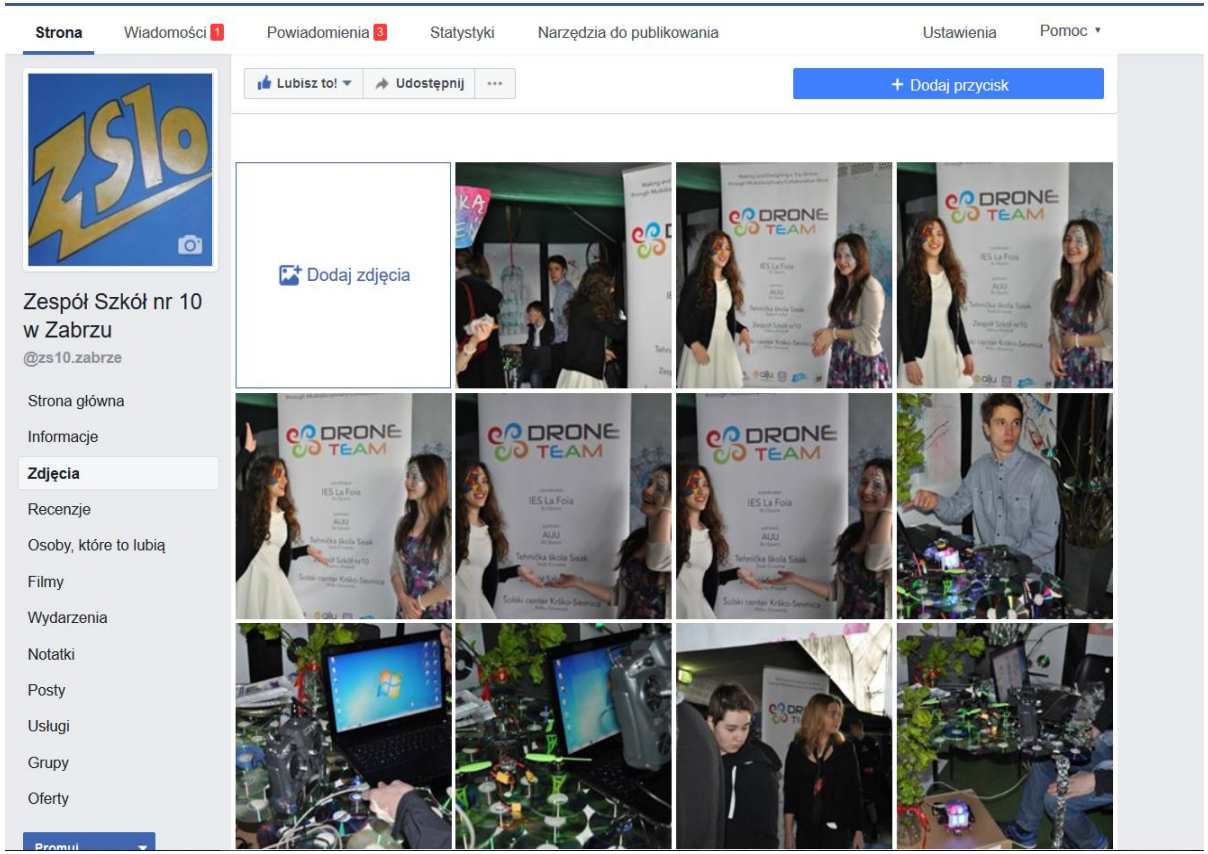
At 25 of April 2017 r. we presented Drone Team Project on the expo for younger people from middle schools of the city Zabrze
We published this acivites on the website of ZS10, facebook of ZS10 and facebook of Drone Team Project

On this sreen you see print screen from Publication this activites **on the ZS10 website.**

http://www.zs10.zabrze.pl/index.php/droneteam/1386-targi-szkolne

Dissemination

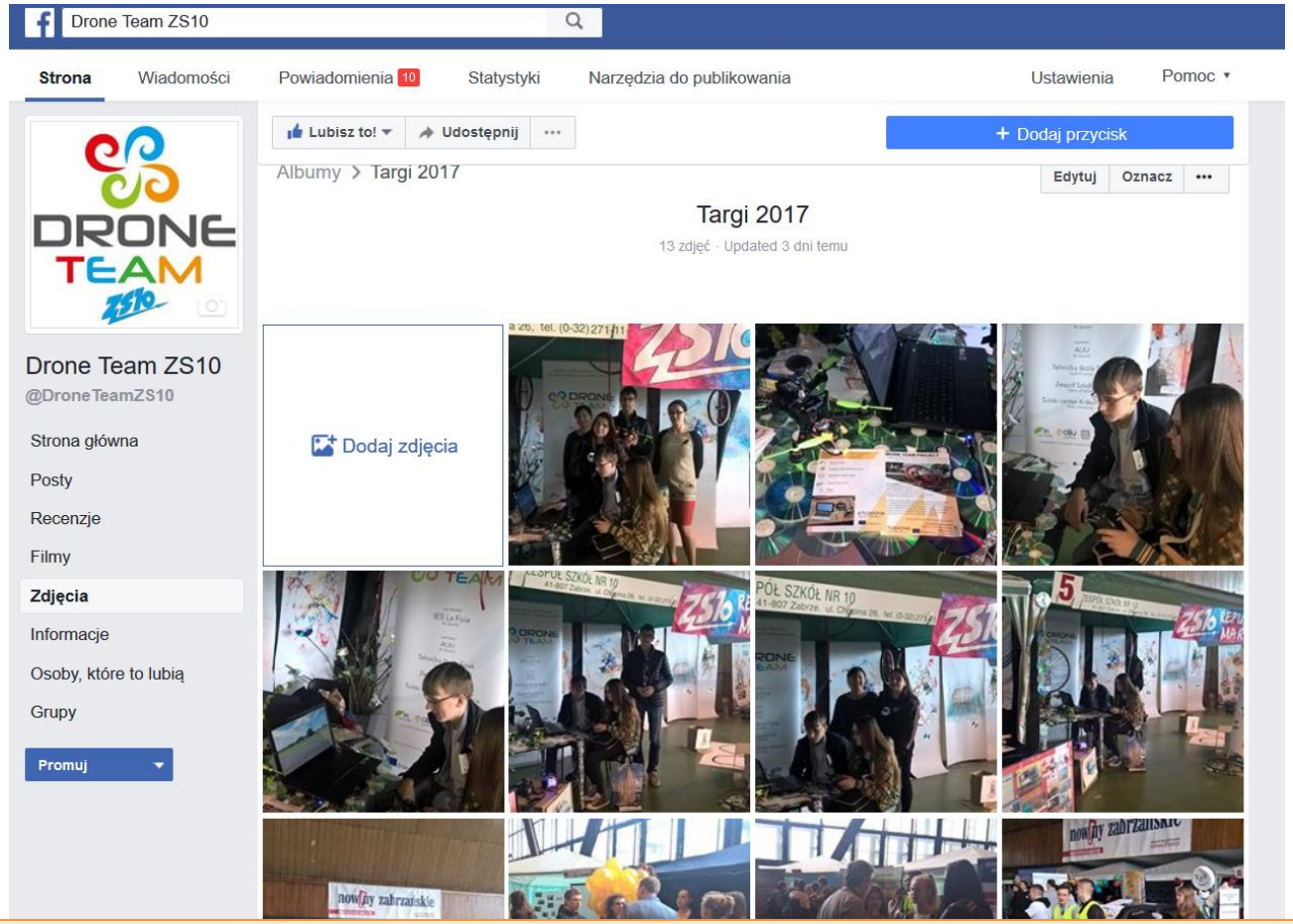
Publication on ZS10 facebook about presenatation Drone Team ZS10 on the expo.



https://www.facebook.com/pg/zs10.zabrze/photos/?tab=album&album_id=1029368583860544

Dissemination

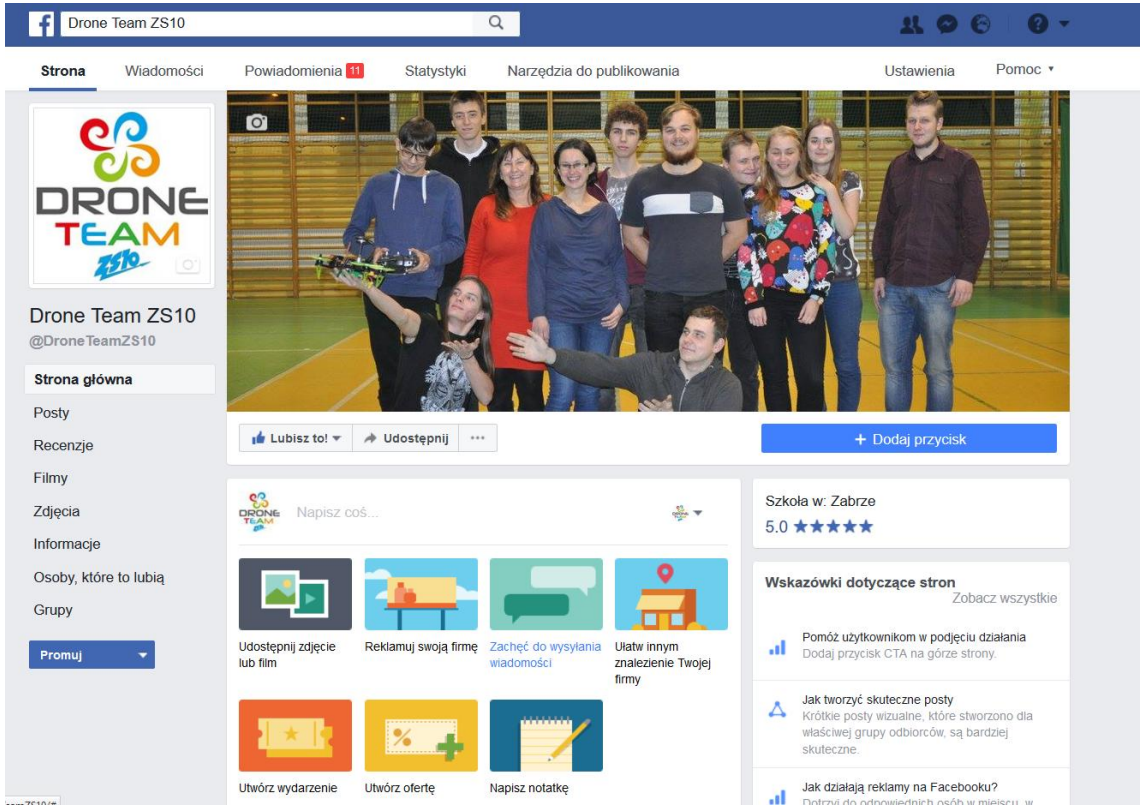
Publication on Drone Team ZS10 about presenatation Drone Team ZS10 on the expo.



https://www.facebook.com/pg/DroneTeamZS10/photos/?tab=album&album_id=924338771042733

Drone activities

All of our drone activites you can find on the drone team ZS10 facebook



https://www.facebook.com/DroneTeamZS10/

Drone activities

Last school year in June we did rekrutacion students for Drone Team projekt. We have about thirty students, but active is only about twelve.

From september 2016 r we have started regular meeting, on this meeting we:

- Our students knows safety rolls when they wont use drone outsite.
- Students dismount drone, and again assemble. They had occasion to practice it.
- Students lernt about built of each componet.
- When we wanted to connect GPS module we had to check that integrate modul of GPS in APM is disconect. In the case when it is not disconect our additional modul couldn't well work.
- During working with hardware students used Mission Planer to configurate and check it.
- After instalation GPS it is obligatory to calibrate compas and we did it.

Drone activities

- Students changes configuration of trnasmiter , calibration and change inside position of stiks.
- We have installed program **to learn how to flight drone**, comfigurated, and students have taken transmiter to home and did exercise with simulator.
- After exercise on symulator students trying to fly drone inside the building and outsite.
- Students have learnt how to **connect drone with Mission Planer** and read in most important date collected during the flight.
- Students learnt **how to check battery** in Mission Planer and they know **how important is to control level of power**.

Drone Team ZS10 experience

- When one from our legs got broken, we had to print new legs on our 3d printer. First we printed legs using different colors material for example abs red, utrat green. But when we mounted the ultrat legs on our drone, and we started to fly drone, we noticed that it was not good material because it was not transparent, and we didn't see the color of light in our drone during the flight. So, we didn't know where was the front of our drone. So we had to printed second pair of legs using transparent material – glass, but after our experiences, we decides that **glass is too fragile**. So, we think the **best material** for legs of drone is **abs, becouse it is transparent and less fragile.**

Drone Team ZS10 experience

- Last our activitis on the day before travel to Croatia we tried to make **autonomic flight**. We managet to do three mission, but the fourth one finished with crash. After then we analized why it happened. We checked logs, and we think that our battery is not well work. One time battery showed that is full, after maybe a few seconds battery showed not enought power to flight. Now we think that **one of our regulator is not well works**.
- It is important keep in mind about **configuration transmiter.** Before flight you must **check yours settings** of your transmiter in Mission Planer. When you want use **manual flight** you need **setting switch on stabilize and althold or loighter .**

About setting of switch

- **Stabilize** mode allows you to fly your drone manually, but self-levels the roll and pitch axis.
- When **AltHold mode** is selected, the throttle is automatically controlled to maintain the current **altitude**. Roll, Pitch and Yaw operate the same as in **Stabilize mode.**
- **Loiter Mode** automatically attempts to maintain the **current location**, **heading** and **altitude**.