CREDO AND SCHOOLS

Presented by Sławomir Stuglik (IFJ PAN)
CREDO Visegrad Workshop 2019

TODAY'S SESSION

TOPICS TO BE DISCUSSED

"Particle Hunters" Competition

Filter in the competition and CIR_003

CREDO user interface

"PARTICLE HUNTERS" COMPETITION

DEDICATED TO

Institutions of education (schools, university)

ASSUMPTIONS / GOALS

Increasing the activity of (young) people through team detection of cosmic rays using the CREDO Detector application

MONITORING AND ANALYSIS

Daily update of results using filters created in the first edition of the competition (2018/2019)

"Particle Hanters" statistics (I edition)
3.10.2018 - 31.06.2019

ACTIVE TEAMS

60 teams

WORKING TIME

In the CREDO Detector application,
from 3/10/2018 to 30/06/2019
286 126 hours ~ 32.3 years

ACTIVE USERS

1203

GOOD / ALL DETECTION

450 386 / 1 791 078
25.15%

"Particle Hanters" statistics (II edition) 1.10.2019 - 20.11.2019

ACTIVE TEAMS

55 teams

WORKING TIME

In the CREDO Detector application, from 1/10/2019 to 20/11/2019 46 710 hours ~ 5.5 years
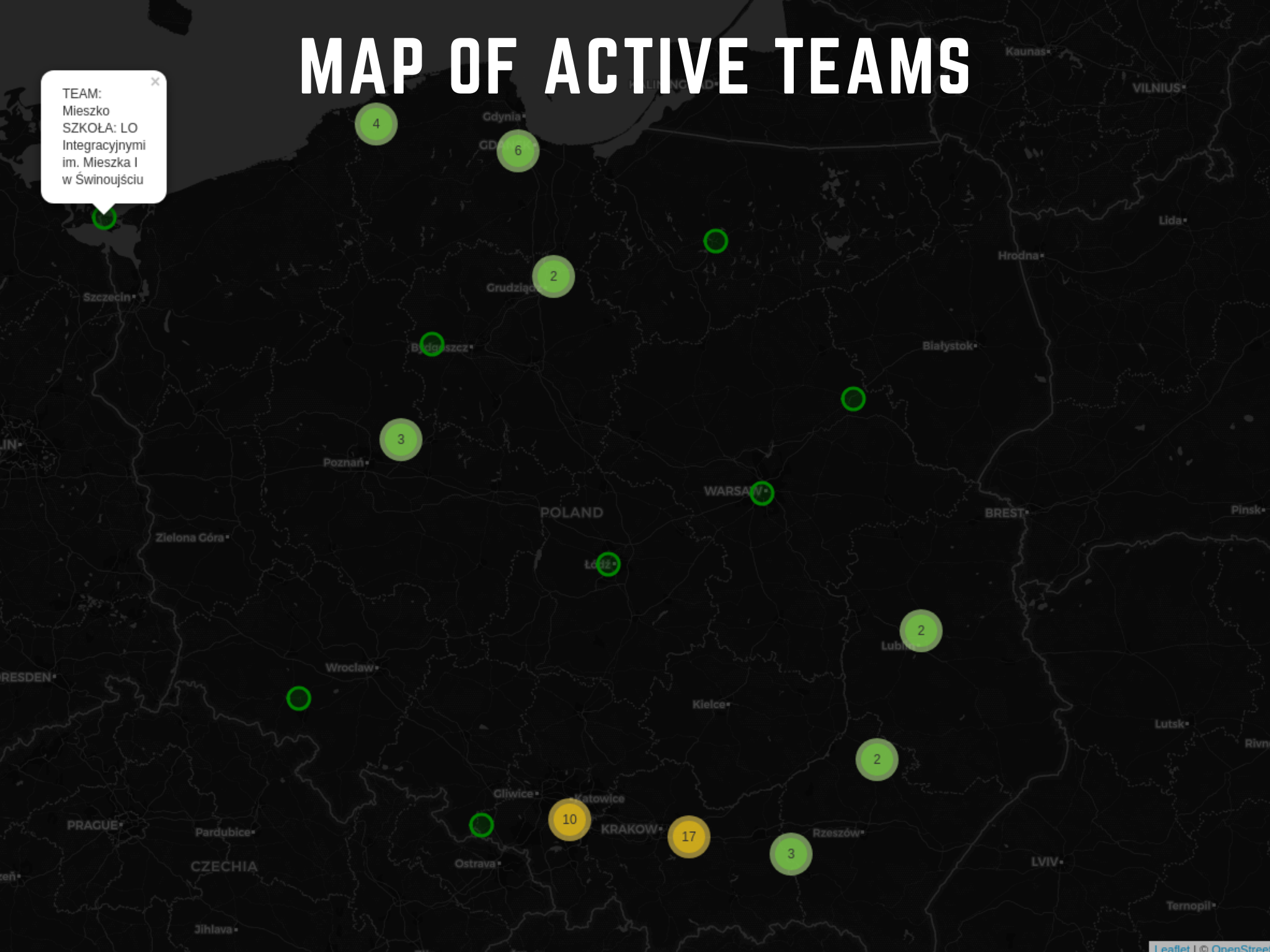
ACTIVE USERS

570

GOOD / ALL DETECTION

58 659 / 292 638
20.04%

MAP OF ACTIVE TEAMS

TEAM: Mieszko
SZKOŁA: LO Integracyjnymi
im. Mieszka I
w Świnoujściu

ANTI-ARTIFACT FILTER

HOW DOES IT WORK?

KNOWLEDGE

Camera matrix size: 20 mm ^ 2
Chance to detect muon with such a matrix size: one in six min
Size of ocal radiation:
50 times more

FREQUENCY

Max muons per hour: 10
Max local radiation: 10x50 = 500
Detection per minute: <10

BRIGHTNESS

Good detections cannot be too dark or too bright.
_____

Minimum brightness of the brightest pixel: 70
Minimum bright pixels: 1
Maximum bright pixels: 70

ANTI-ARTIFACT FILTER

WHERE FIND?

1 GO TO OUR PROJECTS IN INTERNAL (REDMINE) HTTPS://CRED02.CYFRONET.PL/REDMINE/PROJECTS

2 CLICK IN CIR REPOSITORY (CREDO INTERNAL REPORTS)

3 GO TO OPTION "DOCUMENTS" AND CHOOSE: CIR_003_2019 - HISTOGRAM ANALYSIS OF DETECTIONS ..

4 OR GO TO DIRECT LINK HTTPS://CRED02.CYFRONET.PL/REDMINE/DOCUMENTS/28

THE FUTURE BEGINS WITH US

CREDO USER INTERFACE

CREDO USER INTERFEJS
Goals and purpose

DETECTION

All information and items you
need will be here

GAMIFICATION

Using game elements to
motivate users

EDUCATION

A place where there will be
various educational materials

CREDO
THE QUEST FOR THE UNEXPECTED

Publiczne menu

START ▶▲

   Strona informacyja ⓘ

   Strona Główna 🏠

PROJEKT CREDO ▲

   O projekcie

   Oficjalna strona

CREDO MEDIA 🖼▲

   Logo

   Publikacje 📰

   Filmy ▶️

FAQ ❓▲

   Aplikacja

   Konkurs

   Interfejs

REJESTRACJA ®

✕

The interface has two drop-down menus.

The menu on the left is public and does not require logging in

nym miejscu.

✕

Menu dla zalogowanych

UŻYTKOWNIK 👤▲

Dane

Detekcje

Stan konta

Tutorial

Strefa Osiągnięć

Mapa

Ciekawostki i cytaty

RANKINGI 🏆▲

Użytkowników

Zespołowe

KONKURS 👥▲

Mój zespół

LIGA

MARATON

Obecny sezon

UWAGI 💬

EDUKACJA 🎓▲

Filmy
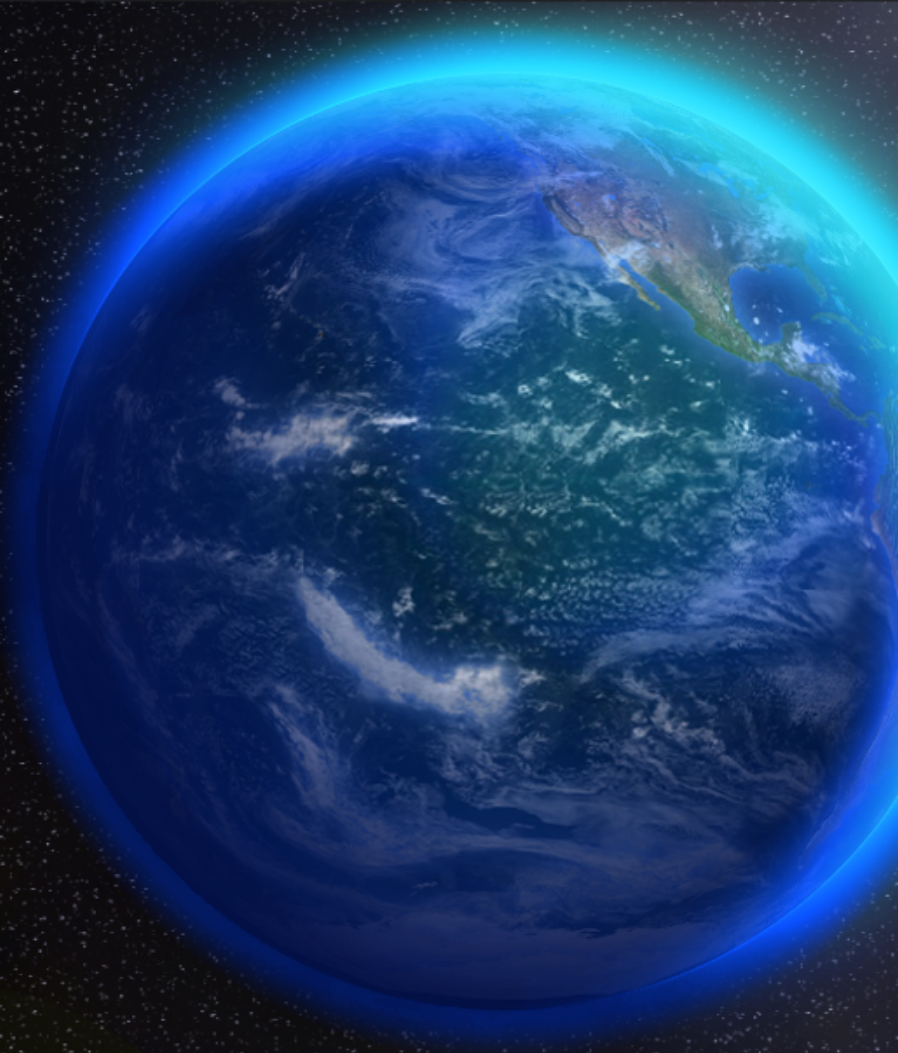
The menu on the right is only for logged in users and contains all the elements presented earlier (education, gamification, detection)

STATUS OF USER INTERFACE

TEST PHASES

The interface is still being tested and the modules are being improved.

ADRES

https://user.credo.science/user-interface

LANGUAGE

At the moment is only Polish, but there are plans to add English, maybe other languages.

LET'S GO SEE THE USER INTERFACE

WANT HELP?
CONTACT US

EMAIL

contact@credo.science
slawekstu@gmail.com

"People working together as one group can make things, the achievement of which not dreamed anyone individually"