

IMPACT MODEL from BULGARIA

Building STEM network of collaborators and science ambassadors



Main Goal:

Increase interest in Science, Technologies,
Engineering & Physics



Bulgarian High School Teachers Programs

10 years of experience in inspiring high school teachers to commit as ambassadors of modern science at school

2008

Pilot edition of the program targeting Teachers in Physics

2011

The Bulgarian Ministry of Education and Science officially supports the program - runs the selection process for the teachers and pays for their trip and stay at CERN

2014

Pilot edition of the program targeting Engineering & IT Teachers

In total 615 teachers visited CERN between 2008 – 2017

The programs are organized in a continuous collaboration with CERN's Education, Communications and Outreach Group

Each program is 5 days long and conducted in the native language (Bulgarian)

4 Modules Activity

- Lectures and discussions
- CERN visits on site
- CERN exhibitions
- S'Cool Lab workshop

Bulgarian High School Visits at CERN

Intensive 1.5 days including workshops, lectures and visits on site

2010

PILOT EDITION

~ 3 000 high school students visited CERN between 2010 and 2017

Between 10 and 12
students groups visit
CERN per year

Strong collaboration between
the bulgarian community and
the visit service office

Program Activities

- Lectures and discussions
- CERN visits on site
- CERN exhibitions
- S'Cool Lab workshop (if available)

Public & High School Video-Conference from CERN

Delivering video-conferences to remote locations is a powerful tool with a paramount importance

Dec '13

- 1 school
- Audience ~ 50

Dec

Nov '14

- 1 school
- Audience ~ 100

Nov

Oct

Oct '14

- 1 school
- Audience ~ 60

Dec

Dec '14

- 1 school
- Audience ~ 70

Public & High School Virtual Visits at CERN

Delivering virtual visit experience to remote locations is a powerful tool with a paramount importance

May '14

- 1 school
- Audience of > 70

March '15

- 4 schools
- Total number of > 250

March '16

- 11 schools
- Total number of > 600

June '17

- 1 schools
- Total number of > 65

May

Mar

Mar

June

Aug

May

Feb

Dec

Aug '14

- 1 school
- Audience of > 80

May '15

- **Sofia Science Festival**
- Audience ~ 300

Feb '16

- 4 schools
- Total number of > 300

Dec '16

- 18 schools
- Total number of > 900

Bulgarian High School Students Internship '17

Promoting science and growing younger community of CERN ambassadors

2017

Bulgaria has been selected as one of the 5 pilot countries for the new **High School Students Internship Program** at CERN

24 students winners in national and international competition in Math, Physics, Astronomy and Informatics

2 Weeks Intensive Activities

- Various visits on site: CMS, ATLAS, CCC, ISOLDE, LEIR, Data Centre, CS, SM18, AMS, AD
- Discussions with renowned scientists(John Ellis, Peter Jenni, Jim Virdee, etc.)
- S'Cool Lab workshop

24 Students & 12 Supervisors

The supervisors assigned real mini-projects so the students can feel excited while working on their projects and make them proud of the outcome in the end

12 Final Projects

The main field of the projects is Physics as well as IT and accelerators technologies

ACTIVITIES 2018

National Programs

Teachers| Students

- National High school teachers program
- High school students program

International Programs

Teachers| Students

- International Masterclasses in Physics
- BeamLine for schools
- S'Cool Lab summer program

Partnership & Collaboration

General Public

- Sofia Science Festival
- Video-Conferences from CERN
- Virtual Visits to CERN
- TEDxCERN (webcast partnership)
- Continuous collaboration with national organizations promoting science to lay public

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