

## Knowledge, Education and Research

### School Stage

Promotion of equal opportunity. Our projects aim to ensure that every child has an opportunity and is not left behind, at the same time we give the most talented the opportunity to access demanding programs where they can develop their skills and ability. We work with very prestigious institutions to ensure that schools can initiate innovative projects that make a difference in the learning process of their students and that push an interest for learning more. We have a program called Tandem Schools where we create a partnership between prestigious institutions and schools, between this schemes we have Museums, Music Institutions, theatres, and Research Centers. The Scientific tandems are making interest for science flourish in the centers.

Our projects ensure differentiation, pedagogical innovation and teacher's professional development that will impact the learning process of the students. At the same time we offer, through different organizations around the country, a scholarship scheme that aims to give every child access to education, no matter their origin, their condition, their personal situation. Our scholarships cover everything that facilitates access to knowledge and therefore gives them an opportunity for the future. Actions like giving them a room to study, to do their homework, tutor supervision, a pair of glasses or a laptop to make sure they follow the pace of the class.

### Research

High quality research is done in Catalan universities and Research centers. Our foundation promotes its growth with the aim to attract and develop talent in our country. The Research centers and groups that we work with are drivers of the country development and will have an impact in all citizen's life.

## Critical Thinking

Along with their knowledge our Young people need to develop their thinking skills, they need to be able to assess, analyses, criticize, reflect, propose, discuss and they need to be able to do this in different languages. Actions like “Converses” are evolving as a project and will conform the skeleton of the others. Critical thinking forms part of all our programs, catalan young people need to be able to articulate and develop this skill no matter what area they want to explore, no matter what level.

## Higher Education

We support students in their access to university and those accessing postgraduate programs with the aim of promoting talent and recognizing excellence. Several actions of the area will distinguish effort, reward well done work, and encourage interest for knowledge in any area. Different programs like awards, completions, contests, or scholarships will help Catalan young people to have access to their university studies, master of PhD programs.

The economic situation, the raise of the university taxes are starting to put in risk the access of the Catalan students to university. The future of the country a country with a future is a country that supports knowledge and from this area we want to do our bit to build the Catalunya of the future, and these programs addressed to our youngsters will allow this.

## Making STEM attractive to Young Students

Programs to attract talent are an important part of the work of this area. The lack of scientific vocation among young people is a problem that has been identified by the European Union, and Catalunya keeps failing in Maths and Science according to the Pisa report.

Innovative programs that promote the scientific and research subjects are a priority of our area. We have different projects designed to attract and give high level opportunities to young students:

- Youth & Science

- Crazy about Science
- Teaching Science
- The Barcelona International Youth Science Challenge (BIYSC)
- Global Teaching Lab. Collaboration with MIT
- Physics Tournament. In co-operation with Weizmann Institute