

TEAM BINDER



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2. ROBOTS
3. COMPETITION
4. OUR VALUES
5. WINNER OF INNOVATION
6. INSPIRING YOUTH
7. CHARITY

WHO WE ARE

WHO ARE WE ?

We are team 5553
ROBO'LYON
founded in 2014.

It all started when Anthony Dailly,
a Notre Dame de Bellegarde's
student, discovered FRC during a
school exchange trip to North
America.

This is how we became the first
French team to take part in
FIRST® Robotics Competition.



[Team handbook](#)

TEAM 5553

25 STUDENTS

aged 15 to 18, are members of ROBO'LYON throughout their 3 years of senior high school.

100% engaged and motivated



15 MENTORS

Our mentors are devoted to the team on their free time. Mentors play a crucial role in the team, but they do not impose their vision to the students. On the contrary, their role is to encourage free thinking, initiative and communication within the team.

ALUMNI

Alumni are very important to the team. They are inspirational examples to follow, but also **MASTERS** we want to **SURPASS**.



100% alumni credit Robo'Lyon for giving them valuable skills for professional careers

100% of our alumni attended college, 82% pursued Engineering studies.

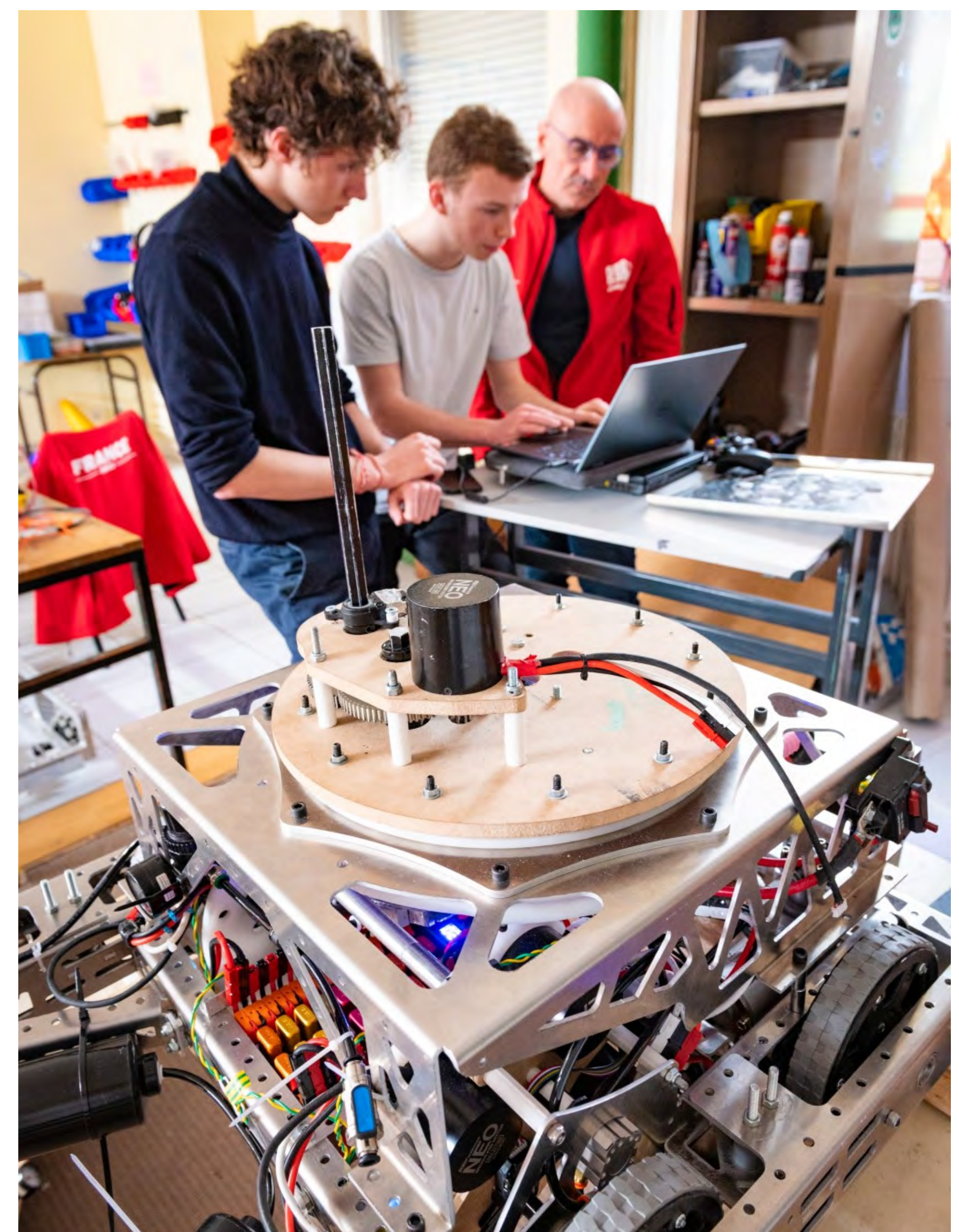
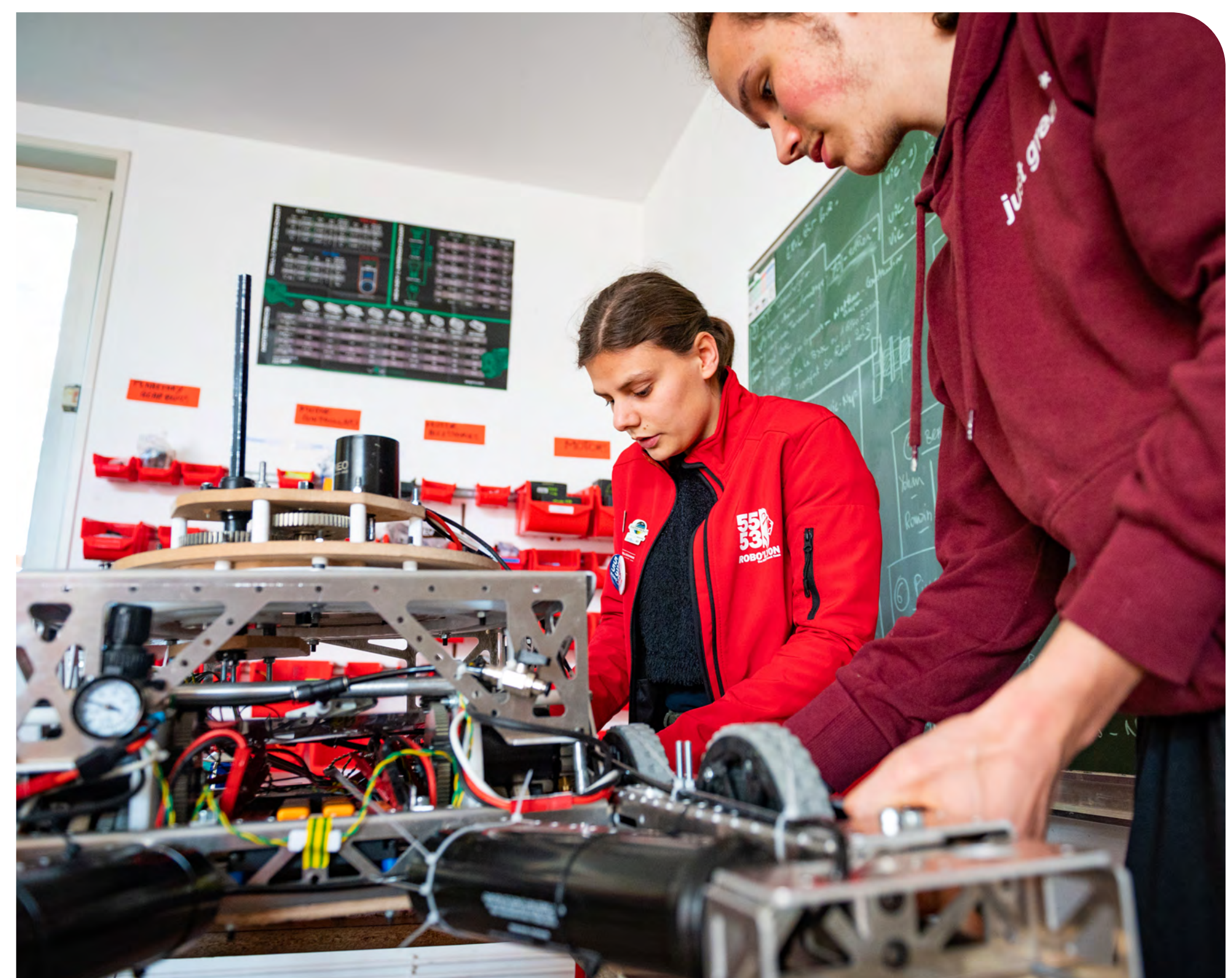
ROBOTS

At ROBO'LYON, students design robots, acquire new skills, and invest themselves with passion.

Learning new tools, developing and transferring skills are part of ROBO'LYON's DNA.

TECHNICAL SKILLS & MORE

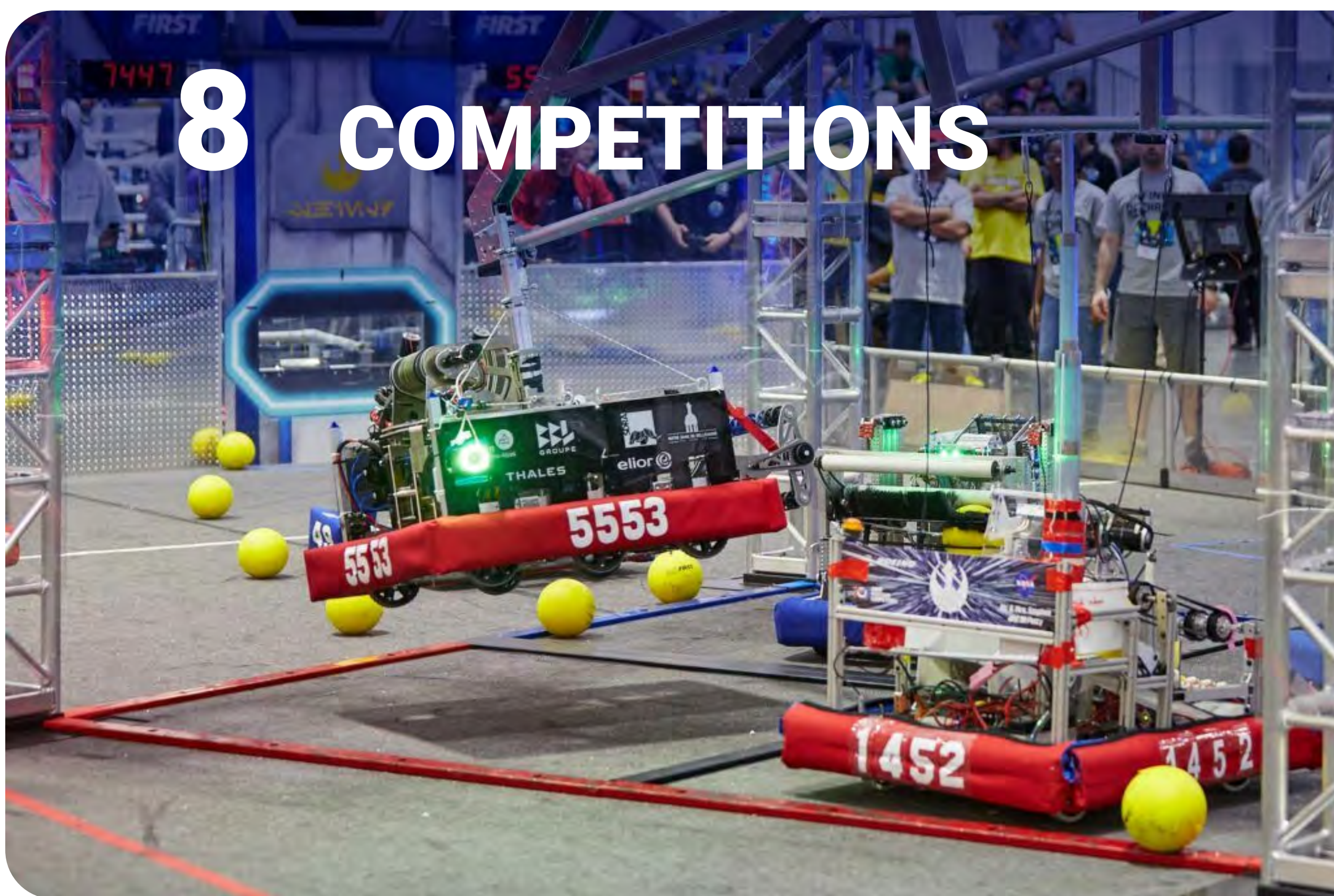
- imagine a mechanism
- design CAD prototypes
- prototype
- use electronic and pneumatic
- program
- drive the robot
- communicate
- search funding & partners



COMPETITION

Since our creation, we have never stopped innovating, evolving and growing.

Here are some of our achievements since our first competition in 2015.



**1 REGIONAL
WINNER**
2017 Montreal

**3 CHAMPIONSHIP
QUALIFICATIONS**
2017 St Louis
2018 Detroit
2020 Houston

**1 CHAIRMAN'S
AWARD**
2017 Montreal

**2 ENGINEERING
INSPIRATION
AWARD**
2018 Montreal
2020 Los Angeles

**1 INNOVATION
CHALLENGE
WINNER**
2021 at home

3 OTHER AWARDS
2015 "Entrepreneurship"
2016 "Safety"
2019 "Gracious
Professionalism"

WE ARE

OUR VALUES

**Robo'Lyon encourages young people to be
AUTONOMOUS, INVENTIVE and to GIVE
THE BEST of themselves.**

Our activities allow everyone to take part in science, mathematics and technology and but also to learn how to share, communicate and exchange knowledge.



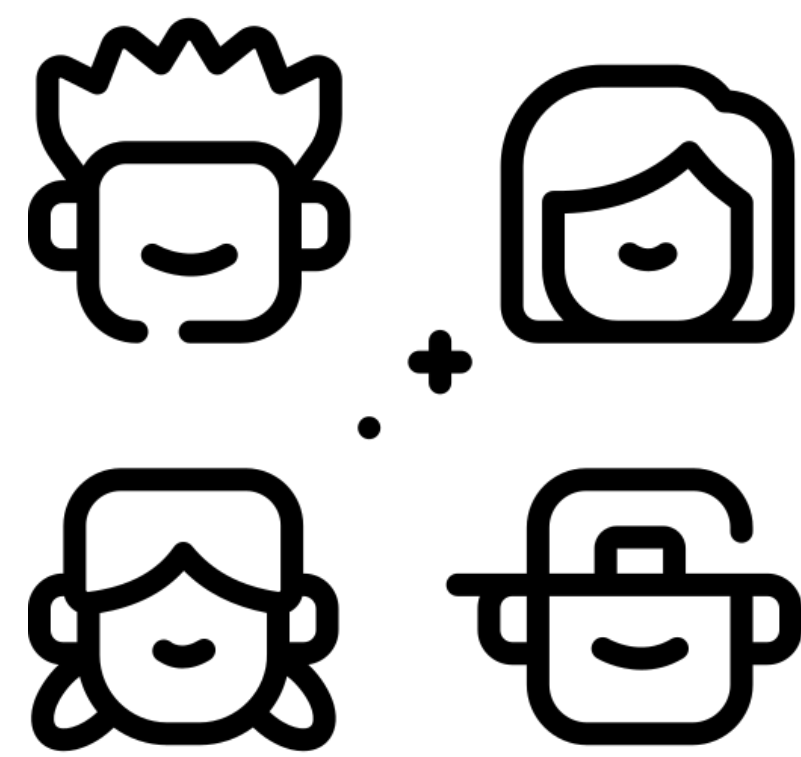
DISCOVER AND GET INSPIRED

Allow everyone to learn new skills in STEM and create career desires.



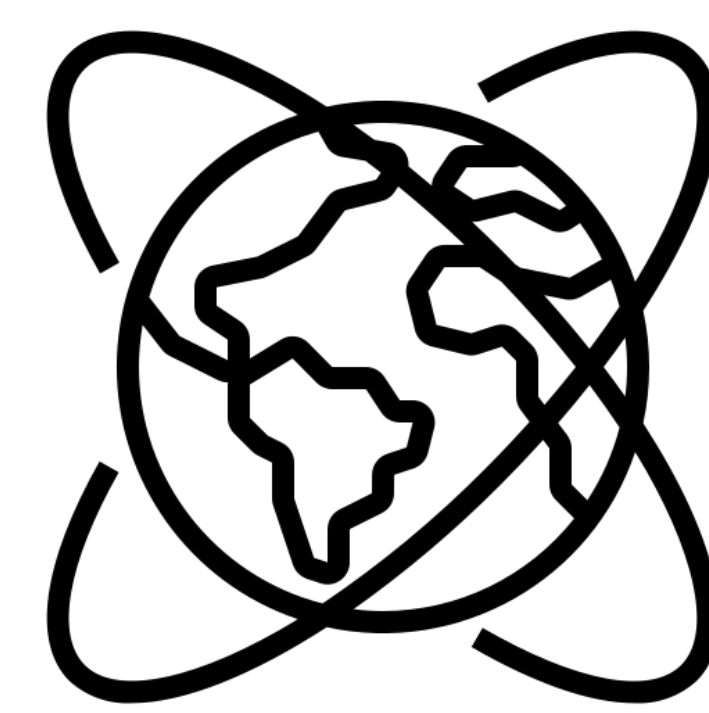
WORK TOGETHER

**Everyone's potential at the service of the team.
We are stronger and go further together.**



COOPETITION®

**Cooperate with other teams in competition and over the season
Help each other, share tools, knowledge for a common goal.**



INTERNATIONAL LINKS

Share experience with teams from all over the world.

WE ARE STRONGER TOGETHER

WINNER OF THE INNOVATION CHALLENGE

In 2021 the competition was replaced by the “Innovation Challenge”.

THE MISSION

Imagine a solution, an innovation or an invention and provide a solution to get back in motion.

OUR SOLUTION

The “WalkAssistant”



THE GOAL

Provide a walking aid for people with Parkinson's disease, through a visual stimulus.

HOW

Our team has developed an ingenious system using a laser projecting a landmark on the ground.

THE IMPACT

2021 Winner of the FIRST® ‘Innovation Challenge’

We’ve developed partnerships with hospitals, doctors, companies.

NEXT

Work on new prototypes to develop the device and make it even more efficient.
Work with our partners.
File a patent.
Enable many patients to benefit from the WalkAssistant.



2021

“ If winning the Challenge was an amazing reward, the thought of helping people suffering from Parkinson’s disease is our greatest victory ! ”

WALK ASSISTANT

PARKINSON'S DISEASE

Gérard, one of our team member's grandfather suffers from Parkinson's disease. He is the starting point of our innovation.

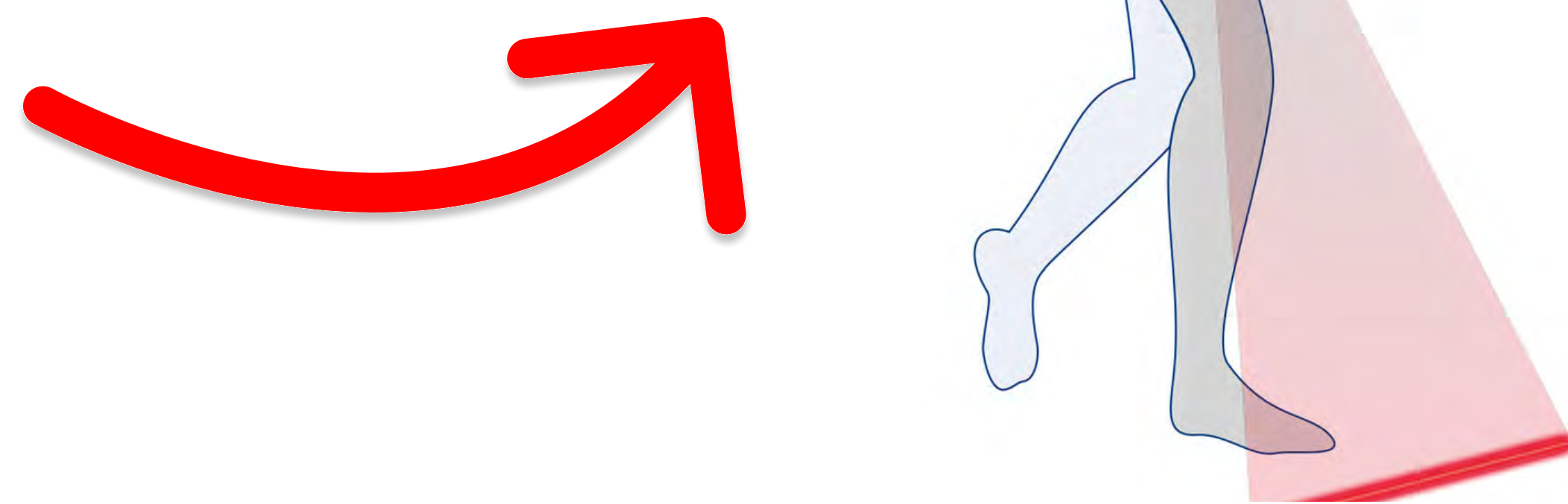


With our device, Gérard can walk again. It is our biggest success.

OUR INNOVATION

To restore Gérard's mobility, we came up with the idea of lasers, fixed on a belt, that throw lines on the floor.

We created many prototypes and tested them on Gérard.



EMMANUEL MACRON, OUR PRESIDENT

“The Head of State congratulates you for your commitment to the inclusion of people with disabilities, through your project which was internationally awarded. He also sends you all his encouragements, wishing your creation meets the success it deserves.”

Emmanuel Macron, 2022

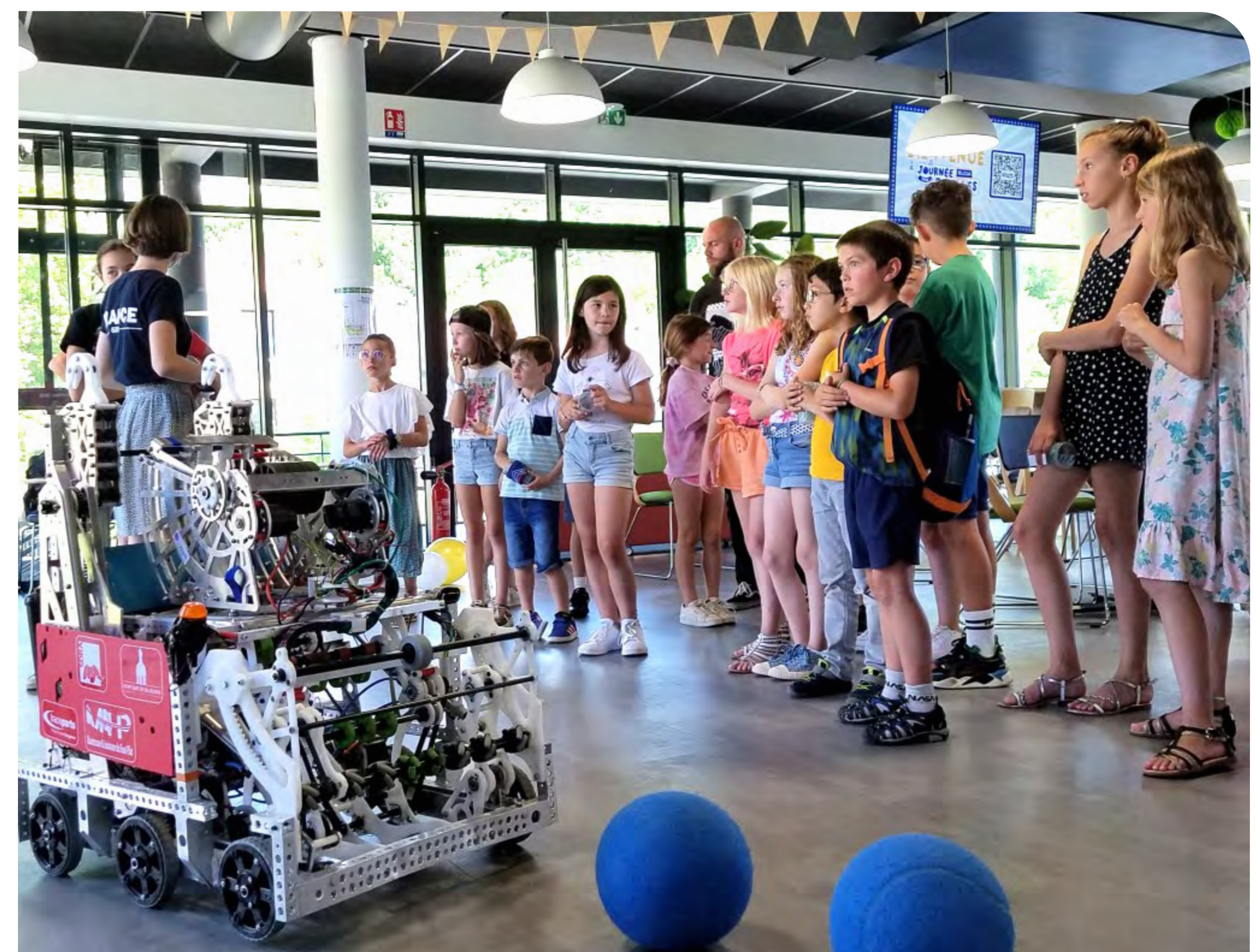
INSPIRING YOUTH



MENTORING KIDS

Members of our team mentor FLL teams.

We give great importance to the transmission of what we learned from the FRC.



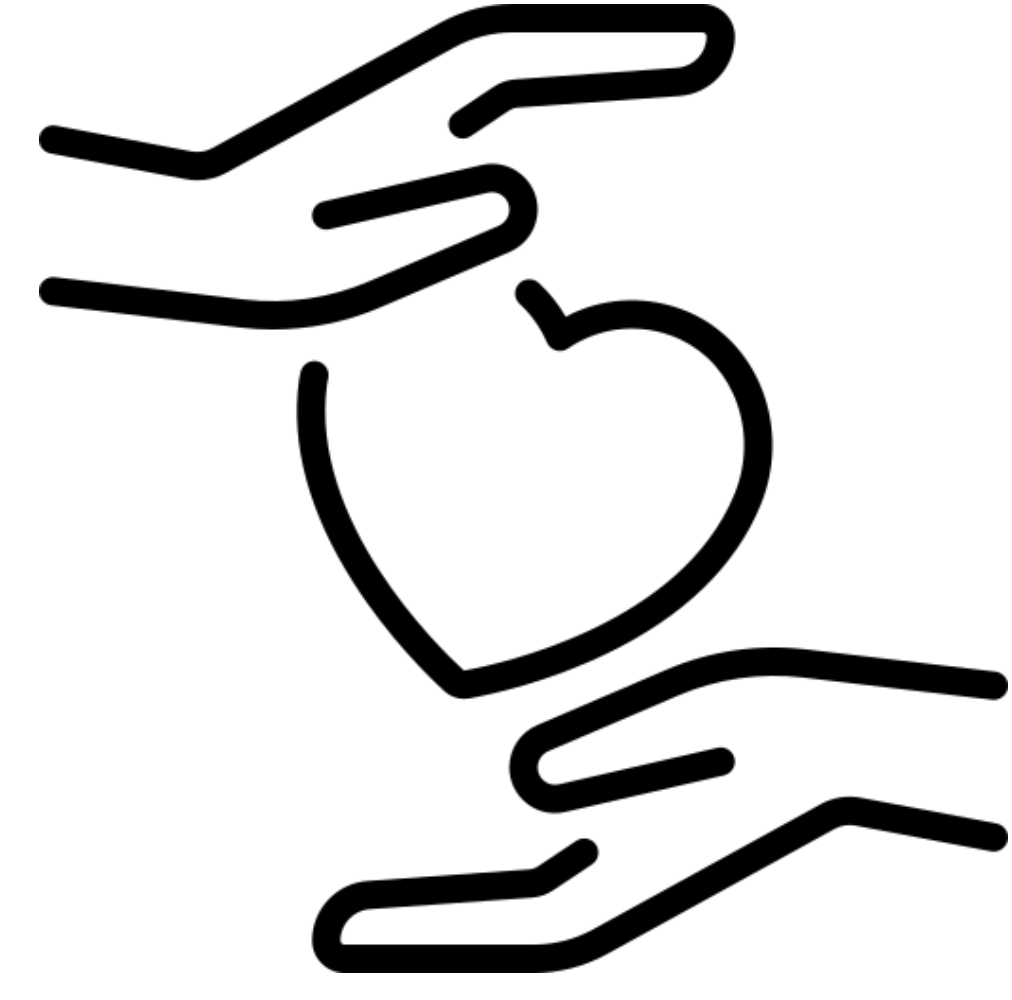
PRESENTATIONS

We want to inspire the largest amount of students. Therefore, we often give presentations. For example, a member of our team gave a TedX conference in front of hundreds of people.



WE
ARE
WITH
YOU

CHARITY

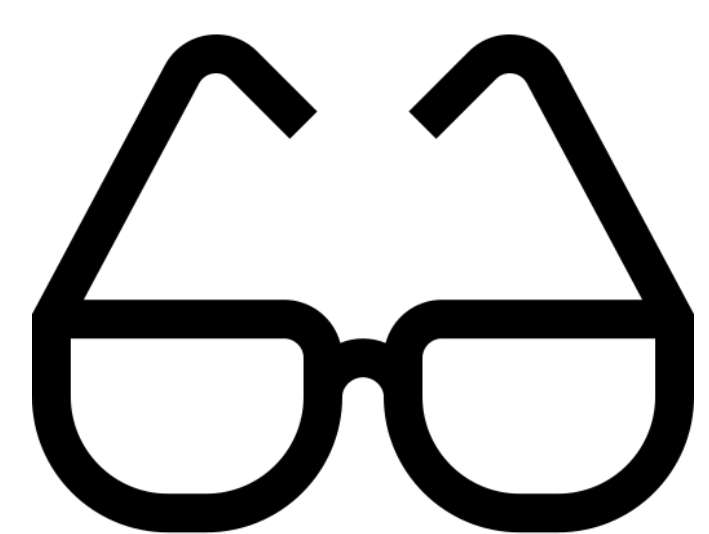


We have a partnership with the Lions Club and the Rotary. Together, we organize several actions.

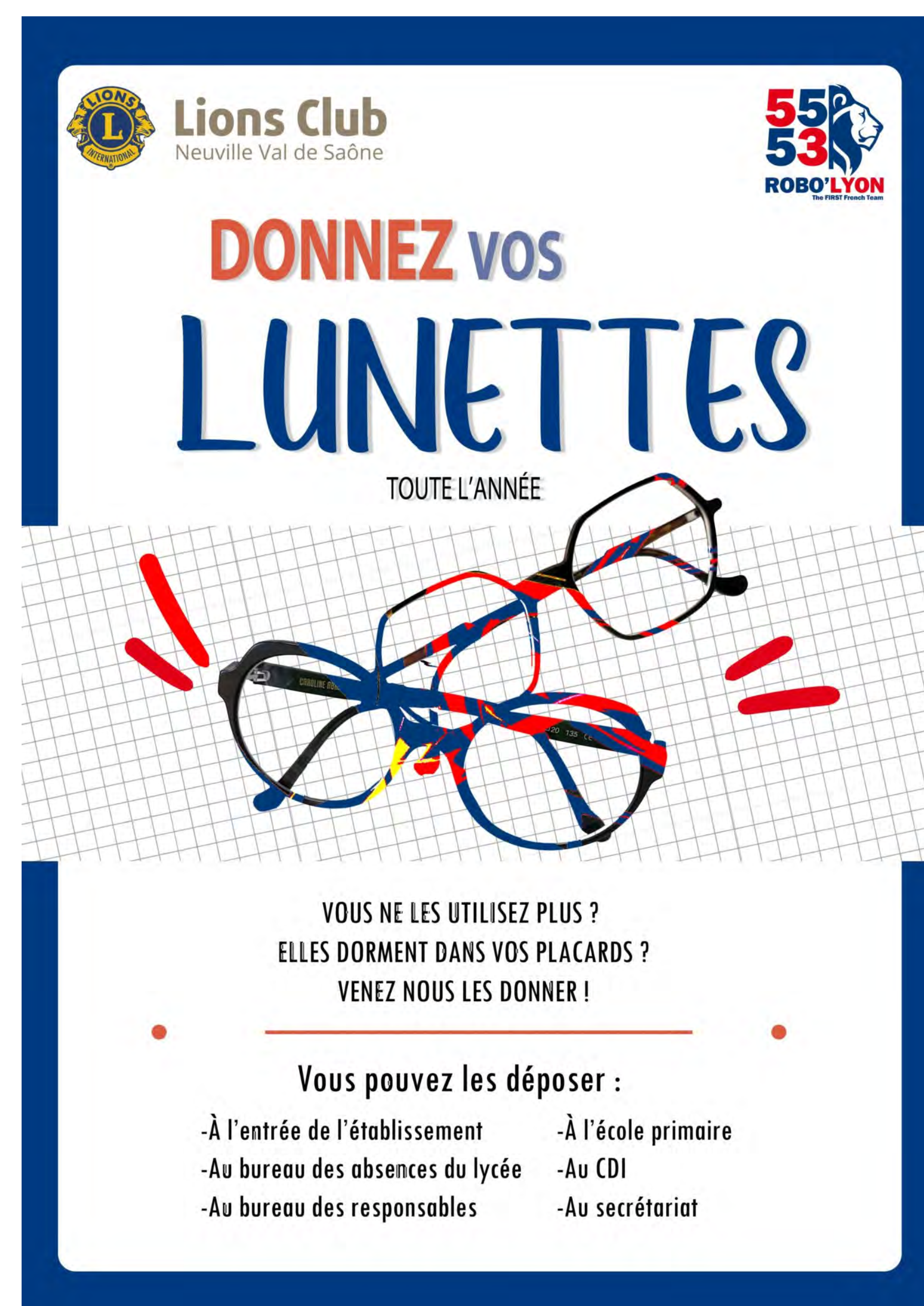
For example, we coordinated a glasses collection in our school for people in need.

PARTNERSHIPS

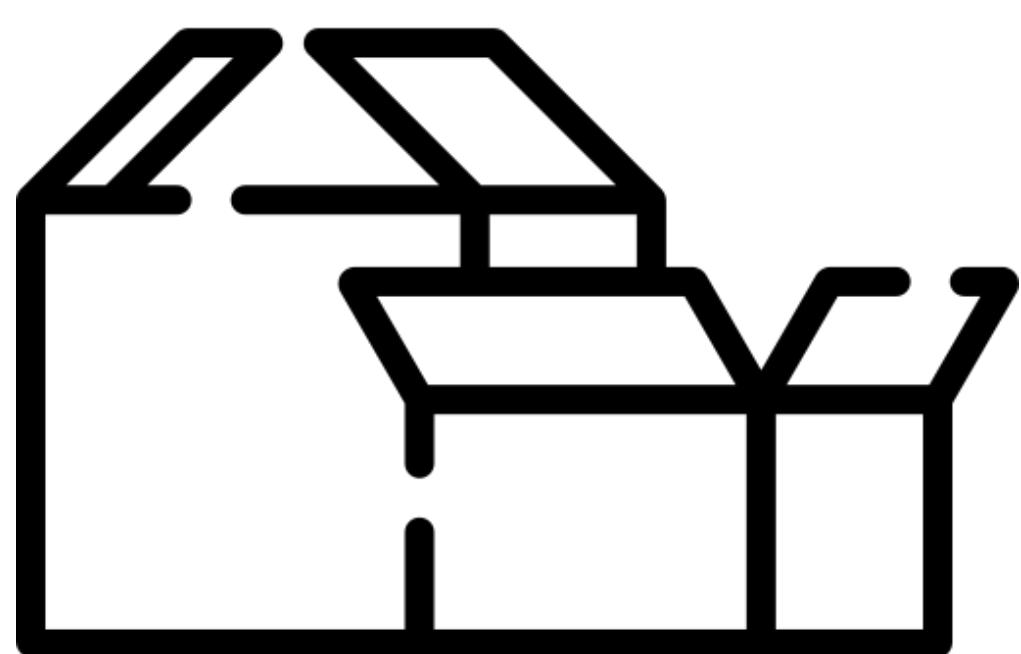
Lions Club and Rotary



1500
GLASSES
COLLECTED



Every year we help the "Secours Populaire", a French charity whose mission is to help the victims of poverty, war or natural incidents.



CHRISTMAS
COLLECTION FOR
"SECOURS POPULAIRE"
toys, hygiene products and food



02.

1. SKILL TRANSMISSION
2. SUMMER CAMP & RECRUITMENT
3. FUNDING & SPONSORS

SUSTAINABILITY

SKILL

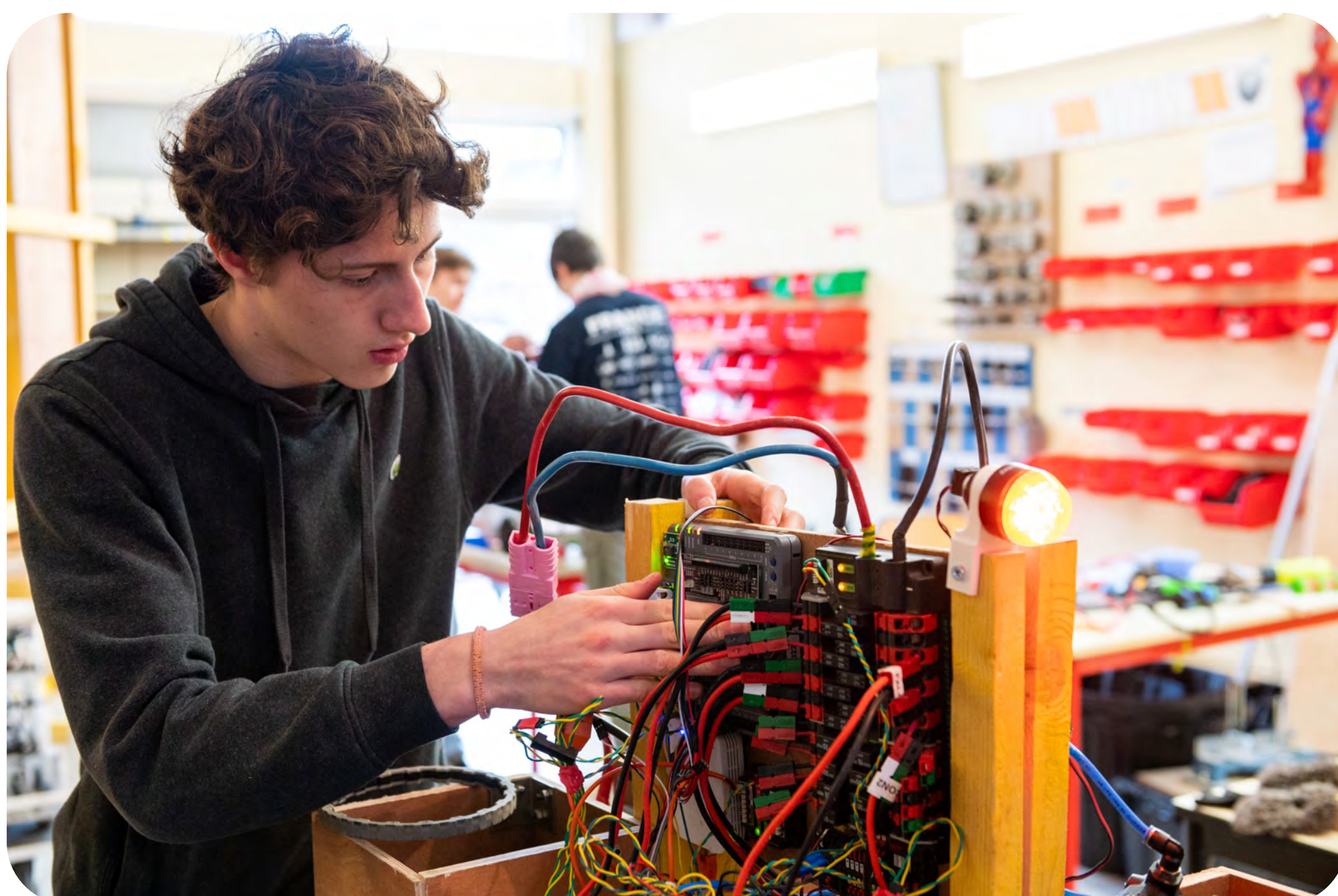
Robo'Lyon has built a sustainable pipeline to keep the team up and running.

TRANSMISSION



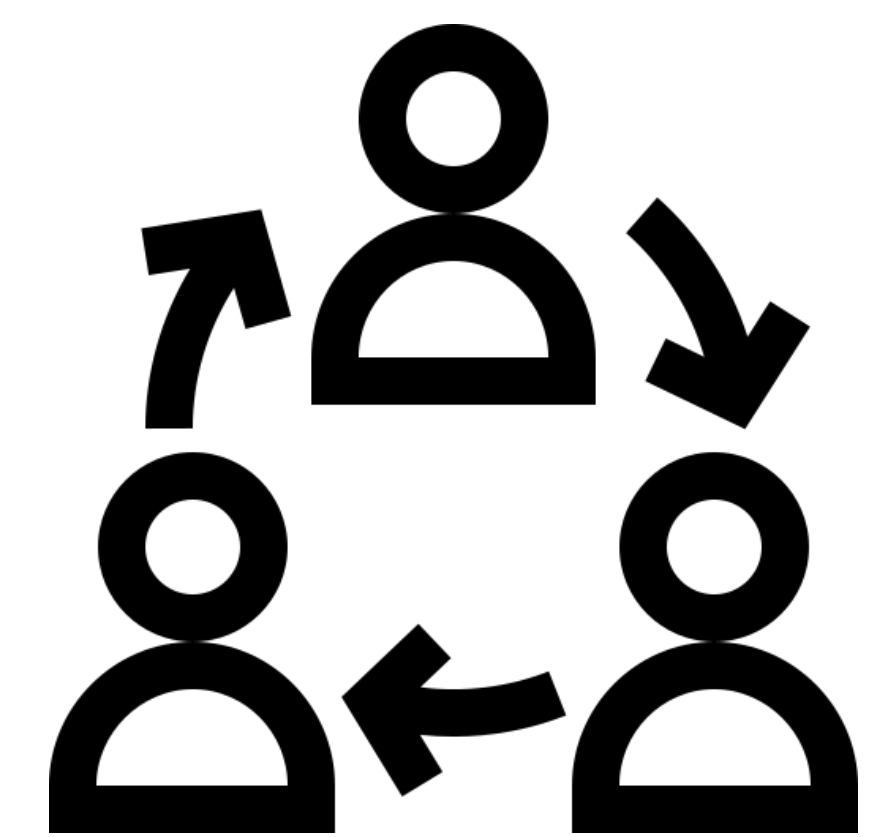
YEAR 1

Learn as much as you can



YEAR 2

Do as much as you can

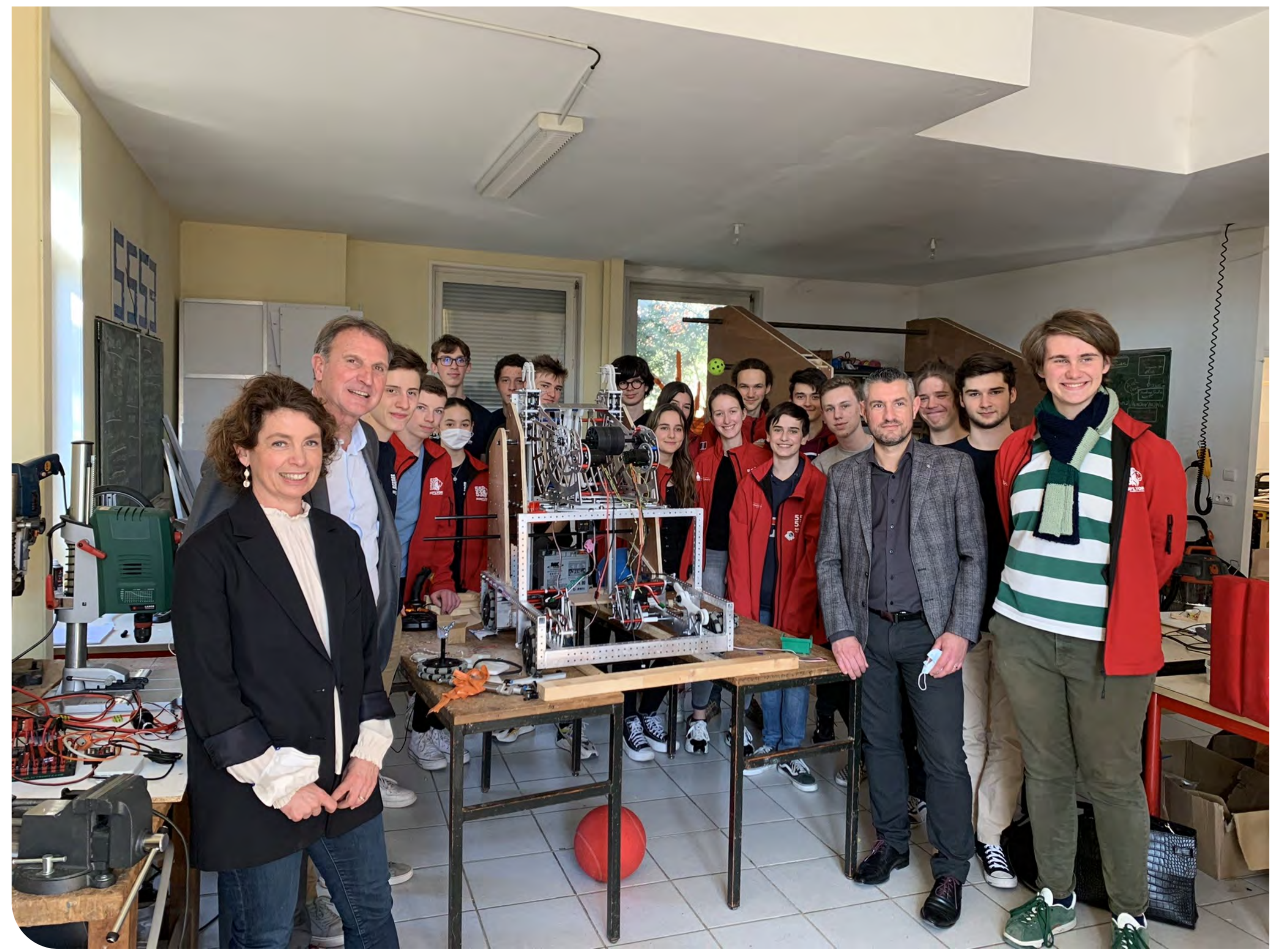
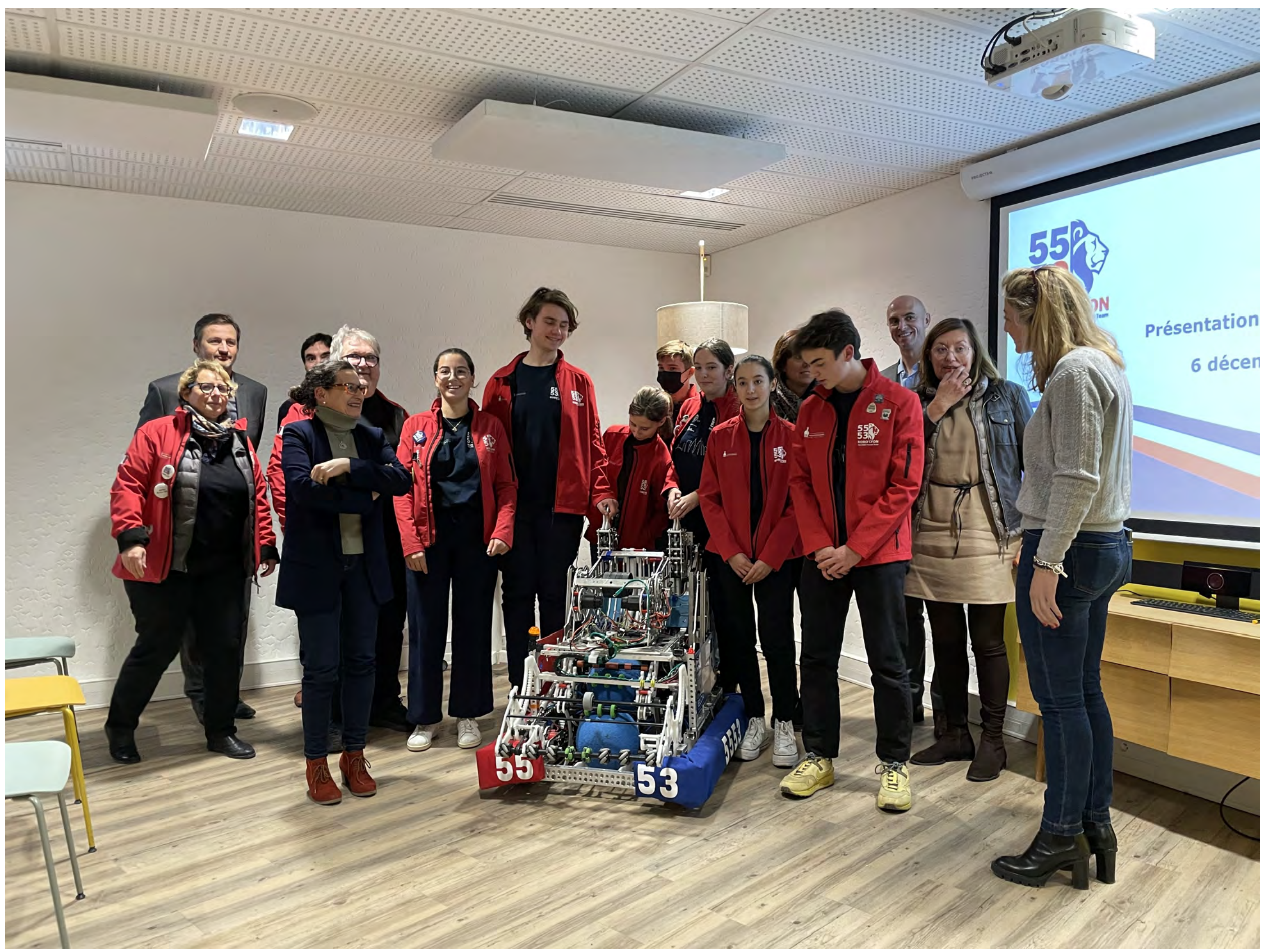


YEAR 3

Teach as much as you can

To ensure student renewal, we have created a sustainable pipeline to recruit and train students from the younger age: they can join our 2 non-official FLL teams in 6th grade, 1 newly created FTC team in 8th grade until they are old enough to join our FRC team.

2 UNOFFICIAL FFL TEAMS
1 NEW FTC TEAM
1 FRC TEAM



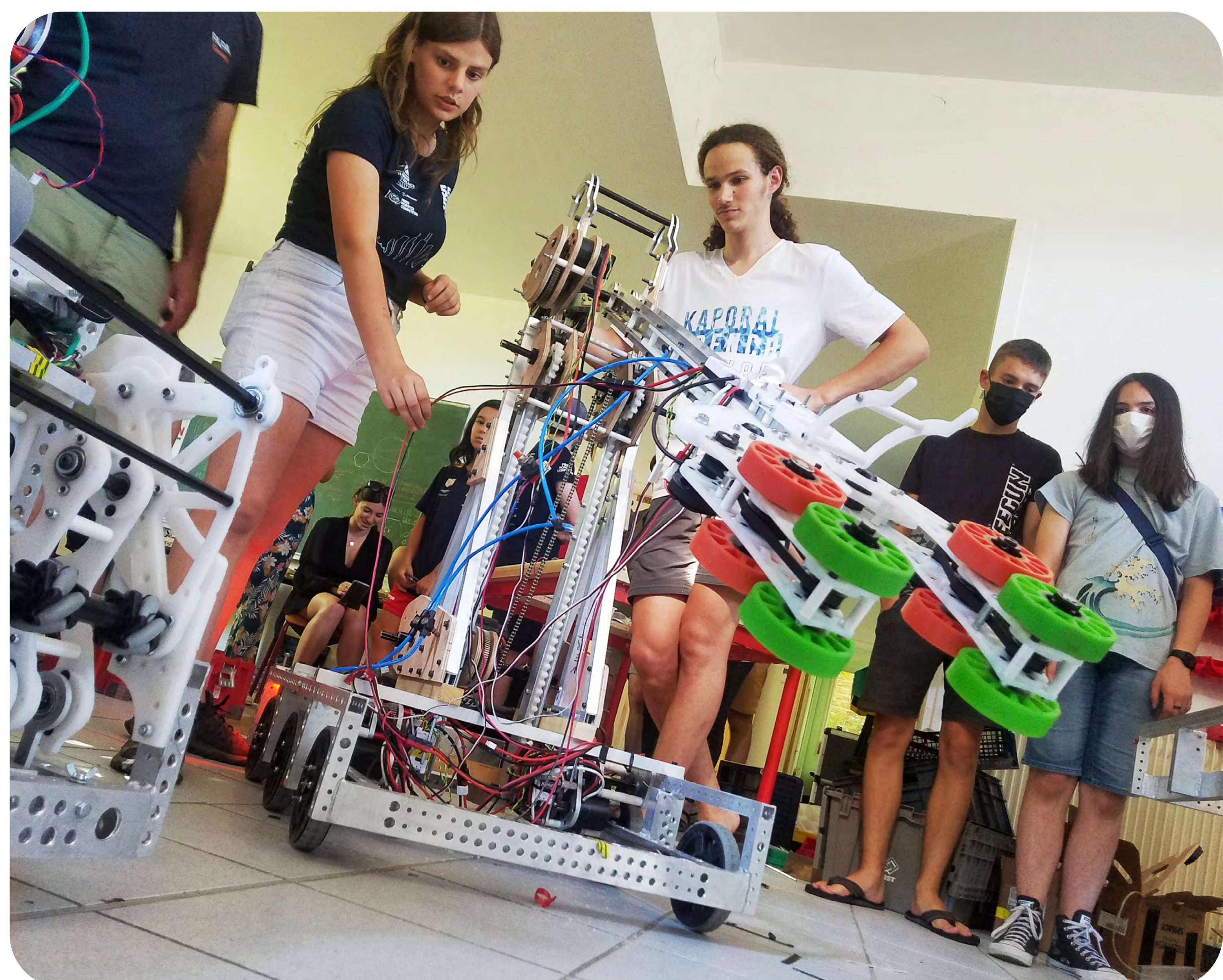
SUMMER CAMP & RECRUITMENT

Students applying to ROBO'LYON are interviewed and selected to take part in a summer program which takes place at the beginning of July. In one week of training, they experiment an accelerated FRC season .



50% of **GIRLS**
AT OUR
SUMMER CAMP

This year, we created a special game : the students had to create a grabber that could catch balls. This allowed them to discover CAD, programming, strategy, communication, and to get ready for the real season!





FUNDING & SPONSORS

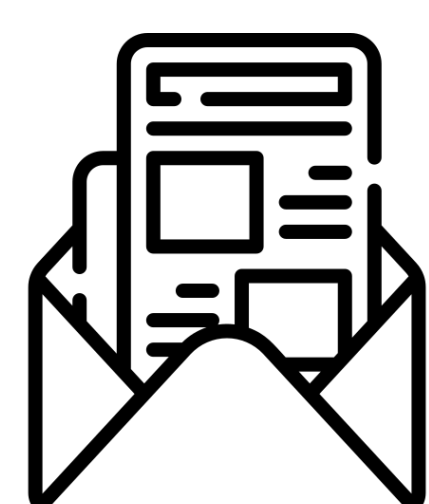
We are lucky to be supported by many **partners**. They help us financially and technically.

HOW THEY SUPPORT US

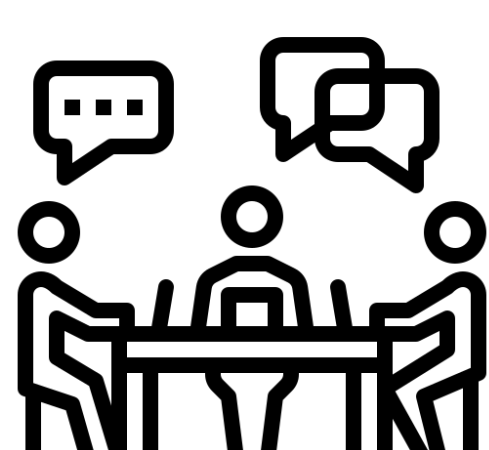
- Providing technical means
- Producing parts
- Transporting robot
- Providing workspace
- By donations of materials
- Through mentoring
- With a financial donation
- By inviting our team to events and fairs ...



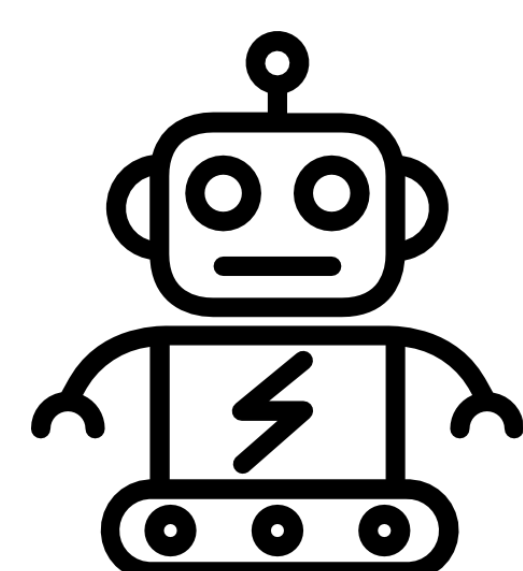
HOW WE CREATE A BOND



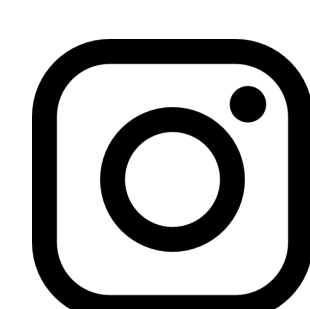
We send them our Newsletter at least once a month



We invite them to visit us regularly



We visit our sponsors with our robot



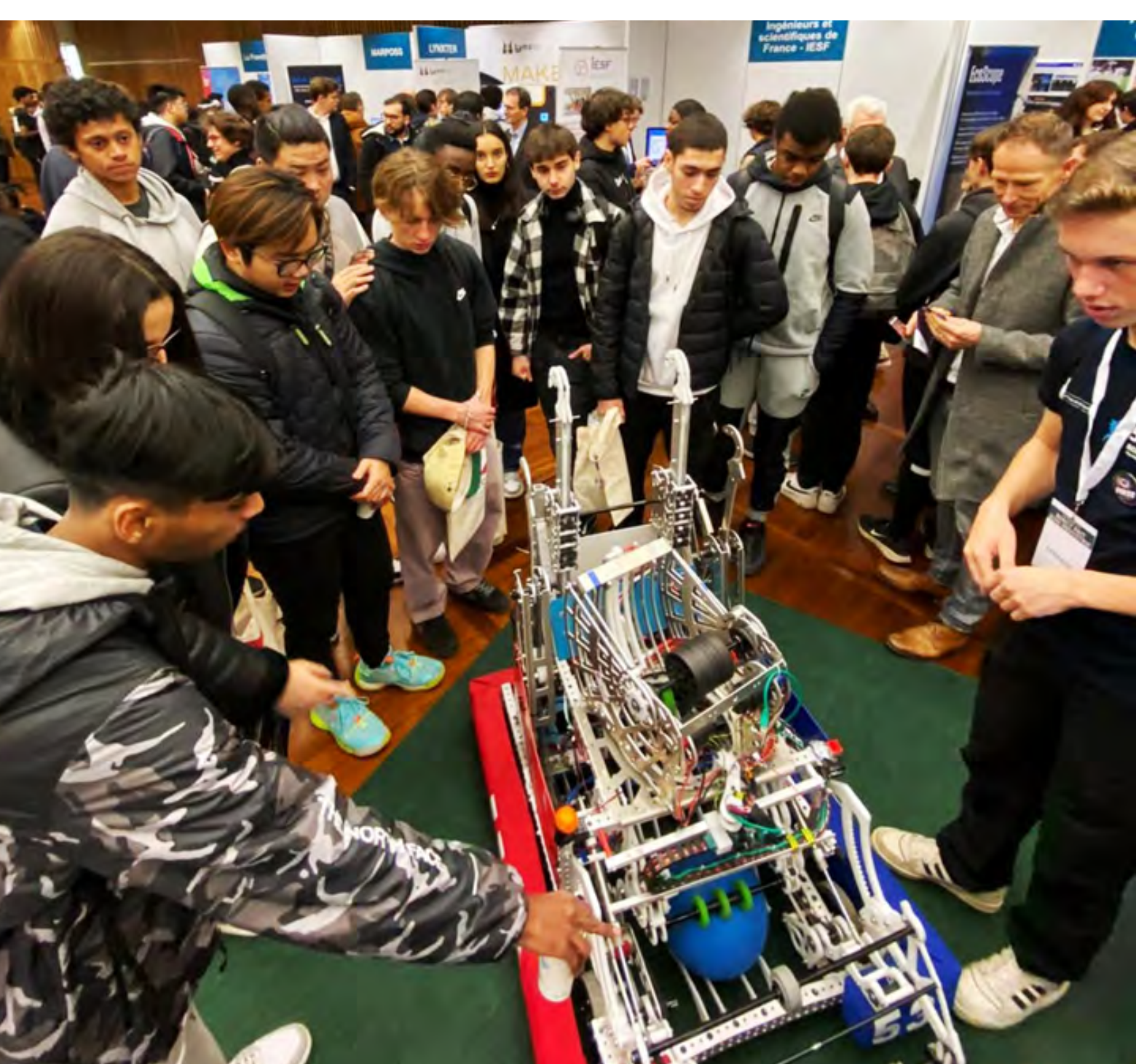
SPECIAL SALES

We organize food sales: (Pain au chocolat, Christmas trees, salmon, raclette...) and sell clothes on our online shop





[Check out our Media Binder](#)



03.

1. WHY SPREAD FIRST®?
2. HOW WE DO IT
3. ACHIEVEMENTS

SPREADING FIRST

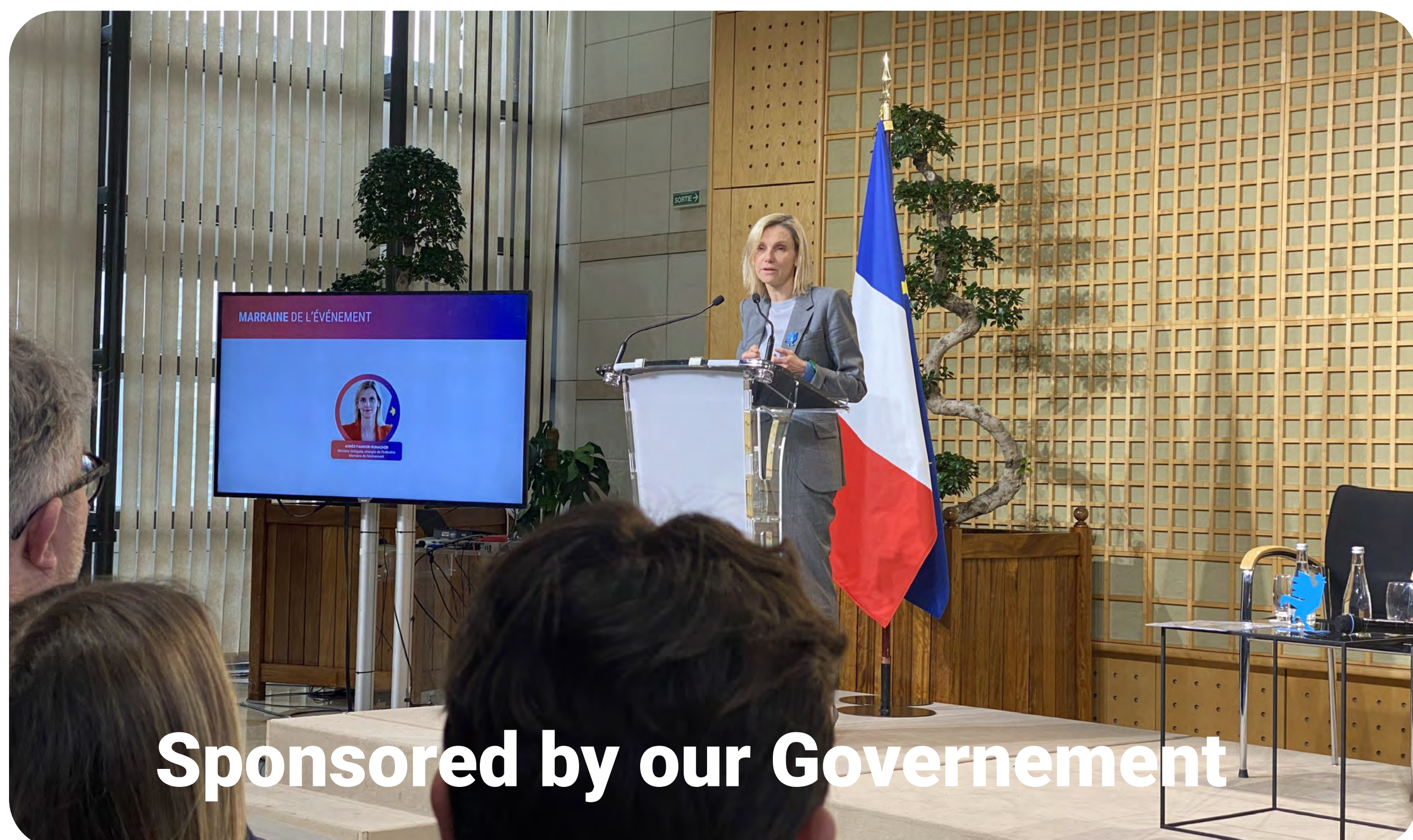
WHY SPREAD FIRST® ?

The French education system is known for its rigorousness, standardized tests, and focus on student performance. However, it is considered by many as too traditional and not adaptable enough to the needs of the students. FRC is the perfect balance for our educational system.

With a pedagogy emphasizing EXPERIMENTAL LEARNING rather than passively receiving information, FIRST® can help French students DEVELOP TECHNICAL and CRITICAL SOFT SKILLS. We strive to bring this complementarity to as many French students as possible to advocate and promote STEM in French schools.

LAUNCHED

March 15, 2022 in PARIS, Ministry of Industry



ROBO'LYON IS A CO-FOUNDER
OF ROBOTIQUE FIRST® FRANCE



For the past two years, Robo'Lyon has helped RFF grow and create foundational partnerships with Fusion Jeunesse, BPI France, Auvergne Rhône Alpes region, Dassaults Systems, Visiativ, Gene Haas Foundation and many more.



INITIATED BY ROBO'LYON
To extend the FIRST experience to the largest amount of students.

2014

2020

2021

SUPPORTED BY FRENCH INDUSTRY

Strategic partners:
DASSAULT SYSTEM, UBISOFT, STAUBLI, GONZALES...

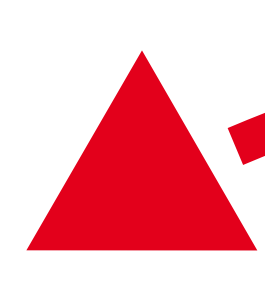
SPONSORED BY OUR GOVERNMENT

We have our government support and are SPONSORED by our Minister of Industry.

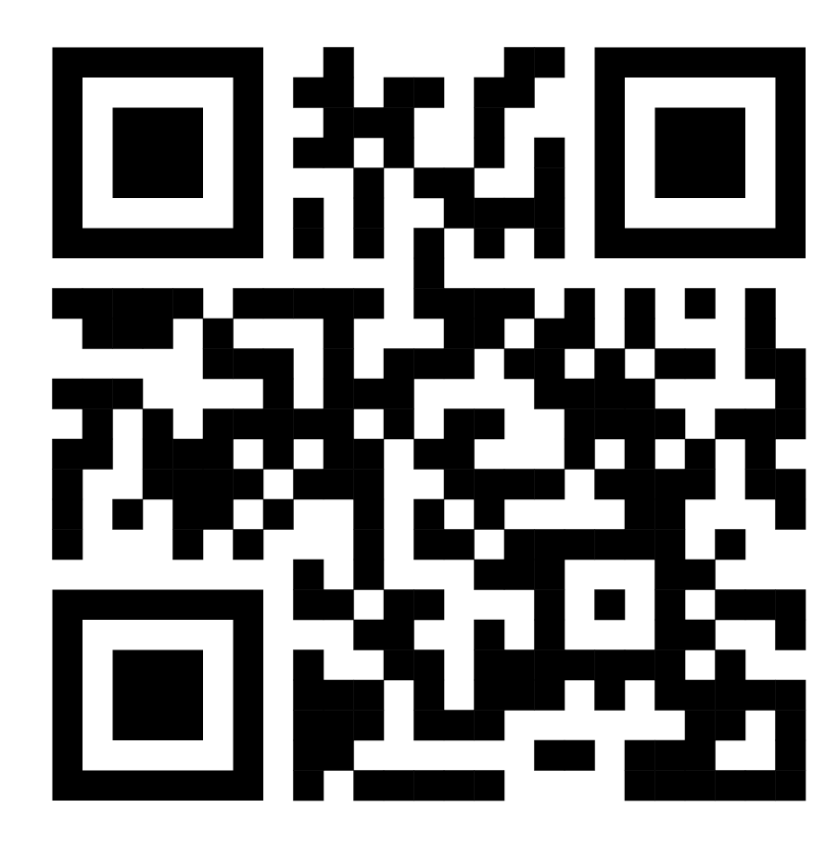
ENCOURAGED BY FIRST®

2022

Dean Kamen and Chris Moore encouraged us to continue this conquest of Europe.



Video of launch :



THE FIRST GENERATION

HOW WE DO IT

WE MAKE IT LOUD !

Our strategy is directly inspired by the FIRST® "make it loud" principle.

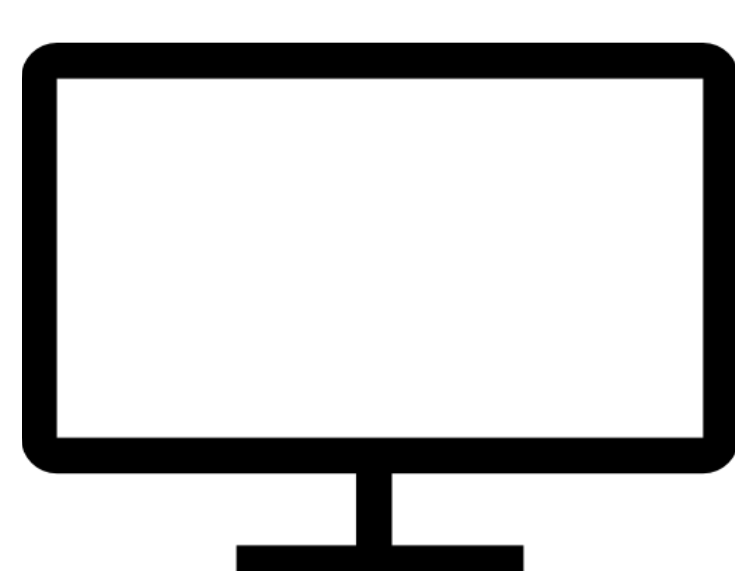


Robo'Lyon has always focused on spreading FIRST® thanks to social media and events. A whole part of our team is entirely dedicated to marketing and communication.



SOCIAL MEDIA & INFLUENCERS

With over **6K** subscribers spread across our social media, our online community grows yearly.



FRENCH TV

france•3 BFM TV franceinfo:
france•2



RADIO



BIGGEST FAIRS

BIG
WORLDSKILLS
VIVA TECH
BERCY FAIT SON INDUSTRIE
ENTREPRISES DU FUTUR

450,000

professionals, schools,
and young people impacted



NEWSPAPERS

LE PROGRES PHOSPHOREY
LE MAG QUI T'ÉCLAIRE

4 Million

Our actions have reached more than 4 million people in our country and worldwide

ACHIEVEMENTS

We have met our two Industry Ministers, Agnès Pannier-Runacher and Roland Lescure. We are collaborating with them to make STEM more accessible before the year 2030 as part of the “France 2030” government program.

MAY 13th 2023

France's first off-season FTC event

10 French teams

6 European teams

compete, discover FIRST®
and exchange with partners
and other teams



2 FRC TEAMS

1 started and mentored
1 assisted



10 FTC TEAMS

We have assisted 3 FTC teams
and provided published
resources to more than 10 FTC

We are proud to say that this year,
there will be **3 French FRC teams** attending
the competition in **Trois-Rivières**.

04.

1. WHAT'S NEXT ?

WHAT'S NEXT ?

WHAT'S NEXT ?

COMPETE & WIN

Attend many more FIRST®
Robotics Competitions.
Win a regional with a robot
"made in France".

DEVELOP FIRST®

We will continue promoting
the FIRST® program.
We are committed to
developing new teams in
France to enable as many
students as possible to
acquire skills for their future
professional lives.

INSPIRE YOUTH

We will continue to encourage
students to grow and inspire them
to become tomorrow's leaders.

CREATE A FRENCH REGIONAL

We hope to see the birth of a regional
in France ; this year, we participate, as
volunteers, in the organization of an
unofficial competition that will bring
together over 40 FTC teams in Lyon.

DEVELOP OUR WALK ASSISTANT

We will continue to develop our "Walk
Assistant" innovation, with the help of
our partners: the hospitals of Lille,
Lyon and Neuville sur Saône, the
France Parkinson's association, the
Robur company, Crédit Agricole...
We want to develop a new version of
our prototype that would be available
in the form of a jacket including
different stimuli (visual stimulus,
vibration and sound).

WHAT'S
NEXT ?

