

TEAM BINDER

01. WHO ARE WE ? 03

1. TEAM 5553	05
2. ROBOTS	06
3. COMPETITION	07
4. OUR VALUES	08
5. INSPIRING YOUTH	09
6. FTC EVENT	10
7. WINNER OF INNOVATION	11
8. OUR WALK ASSISTANT	12
9. CHARITY	13

02. SUSTAINABILITY 14

1. SKILL TRANSMISSION	15
2. SUMMER CAMP & RECRUITMENT	16
3. FUNDING & SPONSORS	17

03. SPREADING FIRST® 20

1. WHY SPREAD FIRST ?	21
2. HOW WE DO IT	23
3. ACHIEVEMENTS	25

04. WHAT NEXT ? 27

- 1. TEAM 5553**
- 2. ROBOTS**
- 3. COMPETITION**
- 4. OUR VALUES**
- 5. INSPIRING YOUTH**
- 6. FTC EVENT**
- 7. WINNER OF INNOVATION**
- 8. OUR WALK ASSISTANT**
- 9. CHARITY**

Oil.

WHO WE ARE

WHO ARE WE ?



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

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

We are team 5553
ROBO'LYON
founded in 2014.



WHO ARE WE

TEAM 5553

30 STUDENTS

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

100% engaged
and motivated



12 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 inspirations, 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 and 86% pursued sciences studies.

ROBOTS

06

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
- CAD
- prototype
- use electronic and pneumatic
- program
- drive the robot
- communicate
- search funding & partners



WE ARE WHO WE ARE

COMPETITION

Since our creation, we 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
QUALIFICATION
2017 St Louis
2018 Detroit
2020 Houston

2 IMPACT
AWARD
2017 Montreal CHAIRMAN
2023 Trois-Rivières

2 ENGINEERING
INSPIRATION
AWARD
2018 Montreal
2020 Los Angeles

1 INNOVATION
CHALLENGE
WINNER
2021 at home

3 OTHER PRIZES
2015 Entrepreneurship Award
2016 Safety and Security Award
2019 Gracious Professionalism

WHO 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.



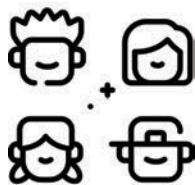
DISCOVER AND GET INSPIRED

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.

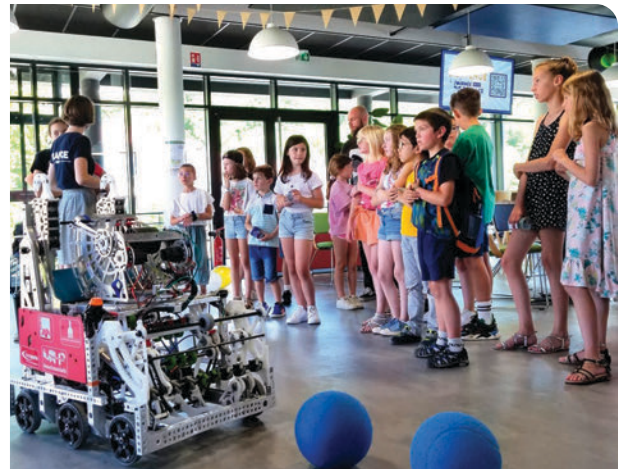
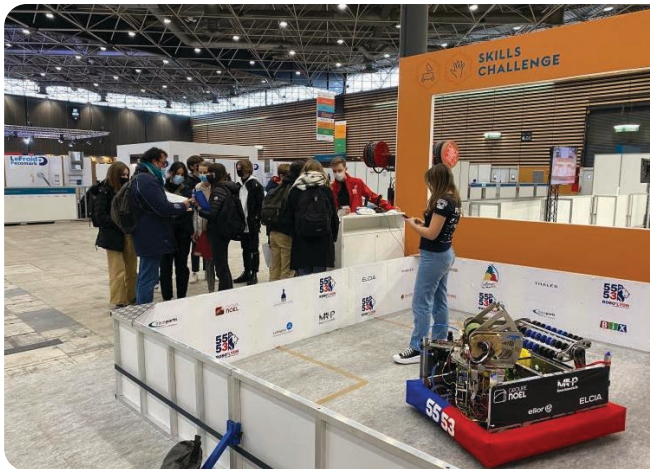
INSPIRING YOUTH



MENTORING KIDS

Members of our team mentor FLL teams and FTC teams

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



PRESENTATIONS

We want to inspire the largest amount of students. Therefore, we often give presentations.



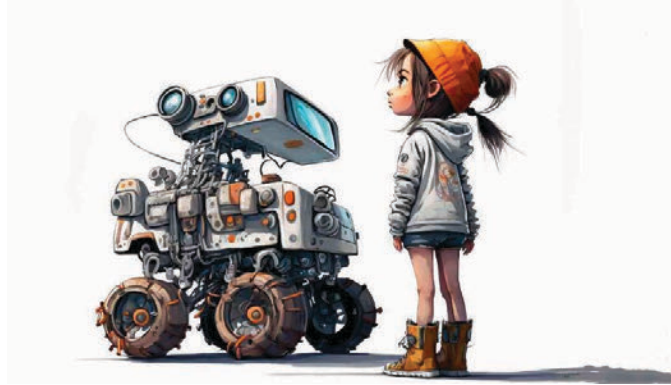
WE ARE WHO WE ARE

FTC EVENTS

“LE DÉFI ROBOTIQUE”

2023

We helped organize and we volunteered at the FIRST FTC off-season event in France in May



2024

We help organize and we will volunteer at the FTC off-season event in France on April 5th & 6th



WHO WE ARE

WINNER OF THE “INNOVATION CHALLENGE”

In 2021 the competition was replaced by the “Innovation Challenge”.
Victor, one of our alumni decided to continue this project for his end of studies project !

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 and companies



CentraleSupélec

NEXT

This year, our alumni Victor Desreumaux who worked on the first prototype is taking the project further with CentraleSupélec and 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 ! ”

WE ARE WHO WE ARE

OUR WALK ASSISTANT¹²

PARKINSON'S DISEASE

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

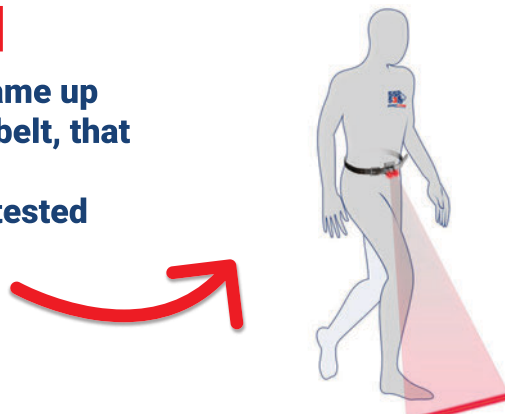


With our device, Gérard walks again. It is our biggest success.

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.

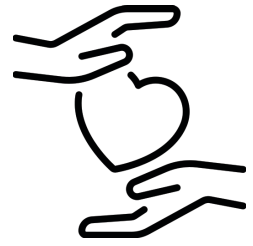
We created many prototypes and tested them on Gérard.



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

CHARITY



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

For example, we coordinated a glasses collect in our school for people in need. We also helped the Lions Club collecting baby food and hygiene products.

PARTNERSHIPS

Lions Club and Rotary

 **1500**
GLASSES
COLLECTED

Every year we help "secours populaire", a french solidarity organisation who's mission is to help the victims of poverty, war or natural incidents.



CHRISTMAS COLLECT FOR "SECOURS POPULAIRE"

We collected toys, hygiene products and food for disadvantaged people.



WE ARE WHO WE ARE

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

02. **SUSTAINABILITY**

OUR ORGANIZATION

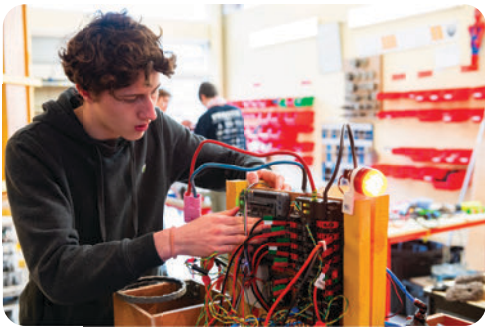
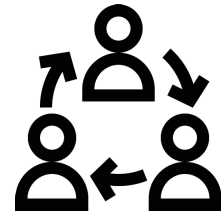
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Robo'Lyon has built a **sustainable pipeline** to keep the team up and running.



YEAR 1

Learn as much as you can



YEAR 2

Do as much as you can



YEAR 3

Teach as much as you can

OUR ROBOTICS PROGRAM

To ensure student renewal, we have created a sustainable pipeline to recruit and train students from the younger age: they can join our robotics workshops in primary school, then one of our 2 FLL inspired teams in 6th grade, 1 FTC team in 9th grade until they are old enough to join our FRC team.



SUSTAINABILITY

SUMMER CAMP & RECRUITMENT

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



50% girls
**ATTENDING
SUMMER CAMP**

This year, we've 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. 17

We now have a special team dedicated to sponsorship to strengthen and sustain our relationship with our sponsors.

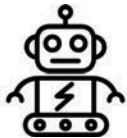
HOW WE CREATE A BOND



we send them our Newsletter at least once a month



we invite them to visit us regularly



we visit our sponsors with our robot



HOW THEY SUPPORT US

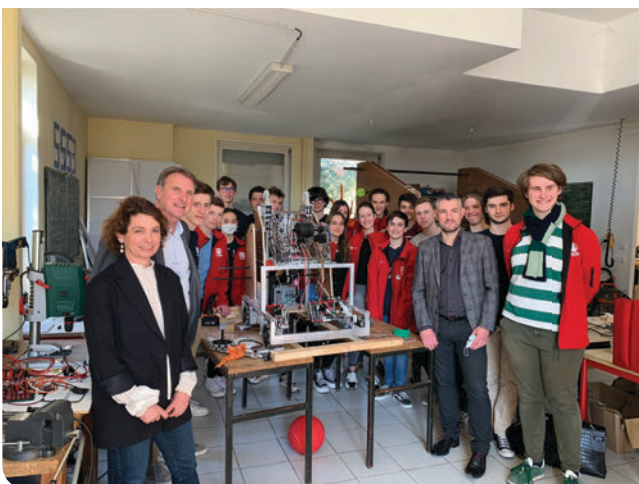
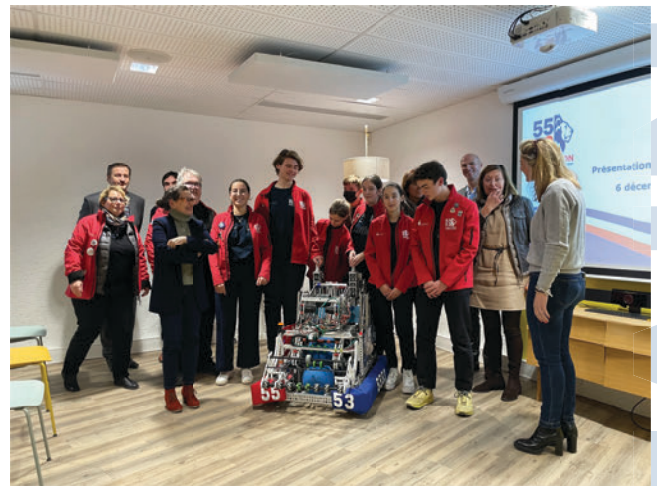
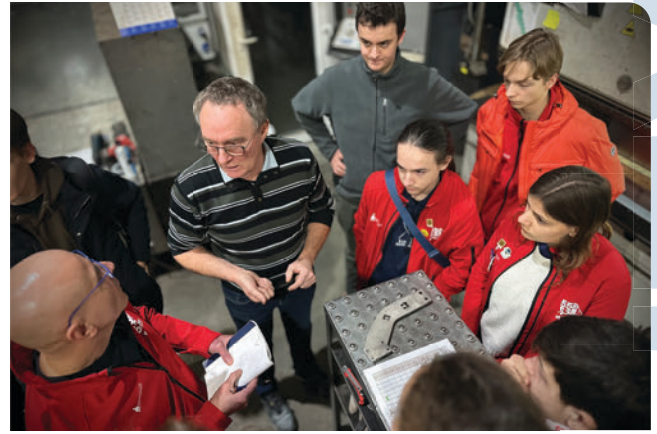
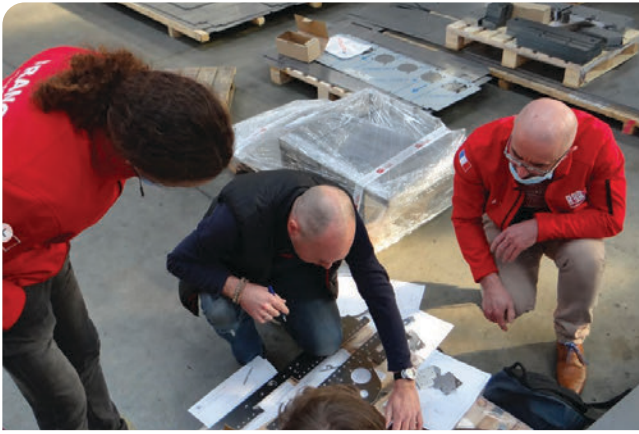
- Providing technical means
- Producing parts
- Transporting robot
- Providing workspace
- By donations of materials
- Through mentoring
- By a financial donation
- By inviting our team on events and fairs ...

SPECIAL SALES

We make food sales:
(Pain au chocolat,
Christmas trees,
salmon, raclette...)

And sell clothes on our online shop







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

03. SPREADING FIRST

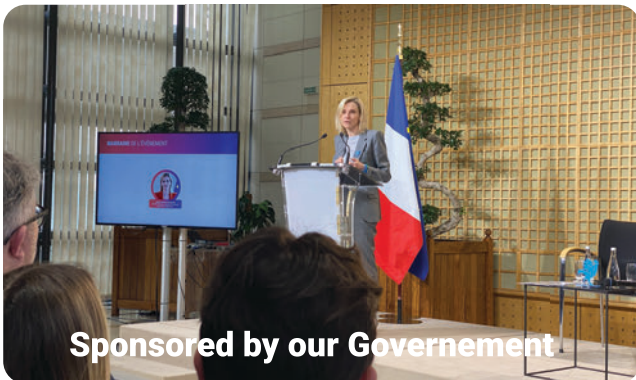
WHY SPREAD FIRST® ?

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 need 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 15th, 2022 in PARIS,
Ministry of Industry



**ROBO'LYON IS 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

2014

SPONSORED BY OUR GOVERNMENT

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



ENCOURAGED BY FIRST® 2021

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



FIRST FTC OFF-SEASON

event in France, May 13th

17 teams with 10 French teams

2023

SECOND FTC OFF-SEASON event in France, April 5th & 6th

55 teams with 37 new French teams



2024

FIRST
FINDING
SPREADING

HOW WE DO IT

WE MAKE IT LOUD!

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

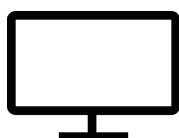


ROBO'LYON has always focused on spreading FIRST® thanks to social media and events. A whole part of our team is entirely dedicated to marketing and communication.



SOCIAL MEDIA & INFLUENCERS

With over **6,7K** 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

+480,000

professionals, schools,
and young people impacted.



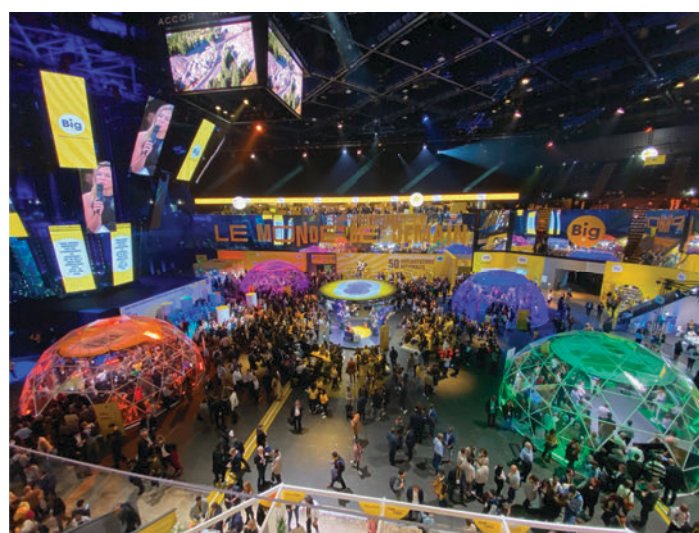
NEWSPAPERS

LE PROGRES PHOSPHORE✓
LE MAGAZINE DES ÉCOLES

7 Million

Our actions have reached more than 7 million people in our country and worldwide.

FIRST
SPREADING



Check out our Media Binder

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.

April 5th & 6th 2024

France's 2nd off-season FTC event
**55 teams from
all over Europe**

will compete, discover FIRST® and
exchange with other teams and
professionals.



2 FRC TEAMS

1 team started and mentored
1 team assisted



48 FTC TEAMS

We created and mentored 1 team.
We have assisted 5 teams and
provided published resources to
48 teams

We were proud to be able to be part of the First French alliance
allong with team 9102 CyborgBulls and team 9220 Geekos during the
Trois Rivières Regional last year.

1. WHAT'S NEXT ?

04. WHAT 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 work hard to hold a Regional in
France! In 2023, we participated, as
volunteers, in the organization of the
unofficial competition that brought
together 17 FTC teams in Lyon. This
year the event will receive 55 teams
from all over Europe.

OUR WALK ASSISTANT

Our "Walk Assistant" Innovation has
evolved 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...

This year, our alumni Victor
Desreumaux who worked on the first
prototype is taking the project further
with CentraleSupélec one of the best
engineering schools in France.

WHAT'S
NEXT ?

