



REGISTERED CHARITY CC51421

A QUICK GUIDE

TO THE EV PROGRAMME
CHANGING FUTURES



DESIGN. BUILD. RACE.



EVelocity is the EV programme inspiring young Kiwis into sustainable engineering while fast forwarding New Zealand's clean tech future.

At the start of the school year, high school and intermediate age teams are given electric motor kits, some guidelines to follow, a bunch of inspiration, and free creative rein. Alongside their teachers and mentors, teams plan, engineer and manufacture electric karts or bikes – all with sustainability (and race day) in mind.

Regional Final events happen at the end of the year where vehicles take part in drag races, slalom, endurance and efficiency competitions.

Teams can enter as a school, club or organisation. The programme can be run as an extra-curricular project or integrated into the school curriculum, with students earning credits and completing their project during school hours.

The programme is currently available in Auckland, Waikato, Bay of Plenty, Taranaki, Manawatu & Wellington, Christchurch/Otago & Nelson.



WHAT YOU'LL NEED



A LEADER

This is usually a teacher or parent who can guide you through the build process. They need to have practical skills.



A TEAM

Ideally you will have 3-6 members to a team, but individuals can also enter and have even won competitions!



TIME

This is a big project that requires commitment throughout the year, and it can be challenging. Make sure you have the hours to set aside to keep your build moving forward. The programme can be run as part of the school curriculum – with students earning credits and completing projects during school hours.



FUNDING

Vehicle materials must be sourced by teams themselves, and you need to consider the cost of your electrics. These do not need to be expensive, and are often gifted to teams as donations or sponsorships. Many of our teams have upcycled materials such as bike parts and storage drums.



A SUPPORT NETWORK

EVelocity has an awesome tech team and mentor network available to teams for advice and practical help. However, it also helps to have connections for when the going gets tough, and to source materials cheaply and efficiently.

EVENTS AND AWARDS

WORKSHOPS

Throughout the year, EVelocity run a series of workshops to provide hands-on support, expert knowledge and practical skills for students. Events include Build Days, Arduino / CAD workshops and welding workshops.

REGIONAL FINALS

At the end of the year, teams go head-to-head in races and competitions at Regional Finals. As well as performance events, awards are given for innovation, sustainability, presentation, and documentation. Panels of expert judges evaluate each challenge.



DRAG RACE

Race head-to-head in a 50m drag for the fastest time.



GYMKHANA (AGILITY)

Compete against the clock in a 3-lap time-trial through a slalom.



ENDURANCE/EFFICIENCY

Race against others using the full track in a test of vehicle endurance and efficiency.



ENGINEERING DESIGN PRESENTATION

Show off your build to a panel of judges.



TEAM PRESENTATION

You will have a scheduled 5-10 minute time slot to share your team's EVelocity journey. You get to decide how you want to present.





SPECIAL AWARDS



EARTH CARE

Demonstrate good use of features and recycled/sustainable materials that reduce environmental impact.



SHOW STOPPER

Be the best looking team & vehicle combo.

COMPETITION CLASSES

STANDARD

350W

2+ wheels

Uses an unaltered EVelocity standard motor kit. This class is most common for teams in their first few years of competing

OPEN

< 2kW

2+ wheels

Teams bring their own motor and batteries. For more experienced teams looking for a challenge.

EVOLOCITY

**OUR RANGATAHI
FUTURE READY >>**

“

EVelocity was one of the best experiences ever it was so cool and fun to design and use teamwork.

- Year 7, Wellington

“

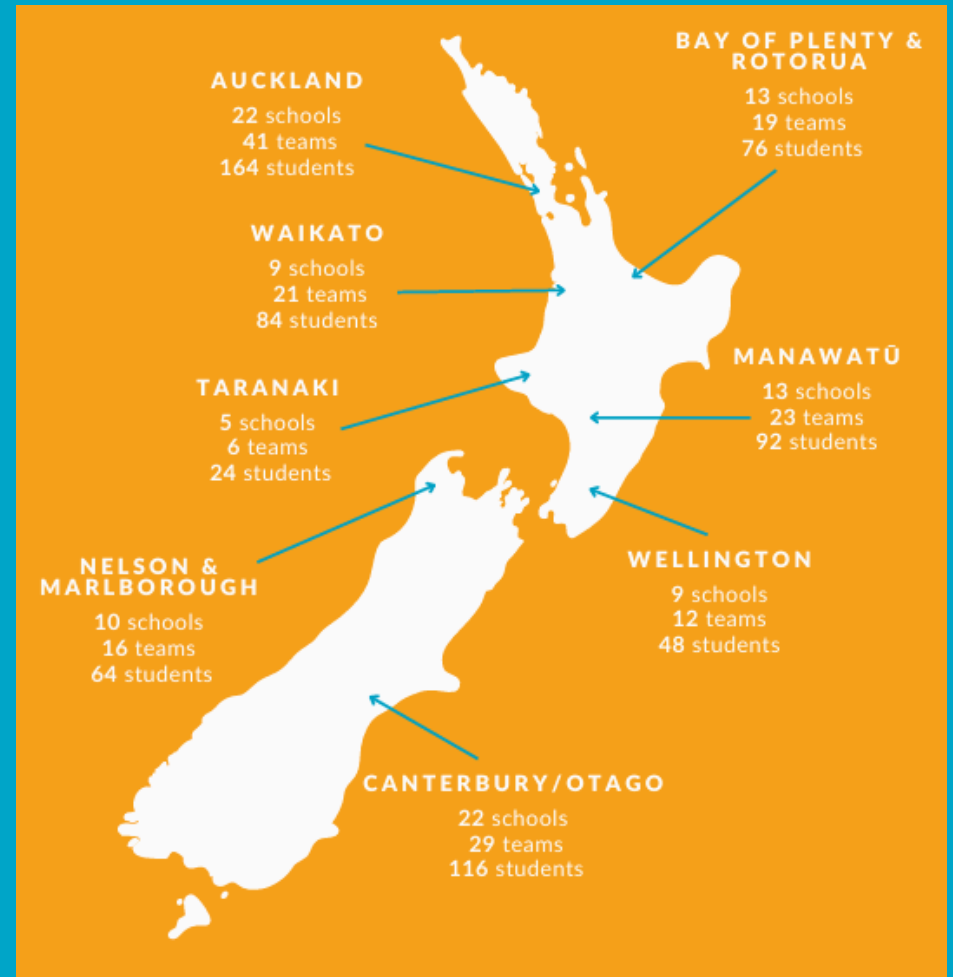
EVelocity was thrilling and amazing, seeing our hard work come to life was really the best thing I could've ever asked for.

- Year 8, Auckland





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