

ADC Pro: Beta Results & What's Next

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ROBOTICS EDUCATION &
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SUMMIT

AERIAL DRONE PROGRAM

Agenda

- **Why ADC Pro?**
The purpose behind creating an advanced drone competition
- **The Journey So Far**
How educator feedback and industry trends shaped ADC Pro
- **What to Expect in Competition**
A preview of the game format, team roles, and challenge structure
- **Meet the MINDS-i Drone**
Introducing the new hardware powering ADC Pro
- **Insights from Beta Test Teams**
What real teams have learned and experienced so far
- **Your Voice Matters**
Open Q&A and discussion



The Why Behind ADC Pro

RECF's motivation to create ADC Pro

- Filling the gap: advancing beyond the original ADC program
- The vision behind ADC Pro (It all started with BELL AVR)
- How the concept took shape
- Influences from educational trends, industry needs, and competitive evolution
- Teachers Spoke — We Listened
 - Key feedback from coaches and educators
 - How that input shaped the design of ADC Pro
- Need for advanced, scalable, skill-building progression
- Designed to serve experienced teams and older students
- Bridge between entry-level drone learning and real-world applications
- Offers structured learning experiences that support students at all skill levels and align with a wide range of interests



The Journey So Far

How educator feedback and industry trends shaped ADC Pro

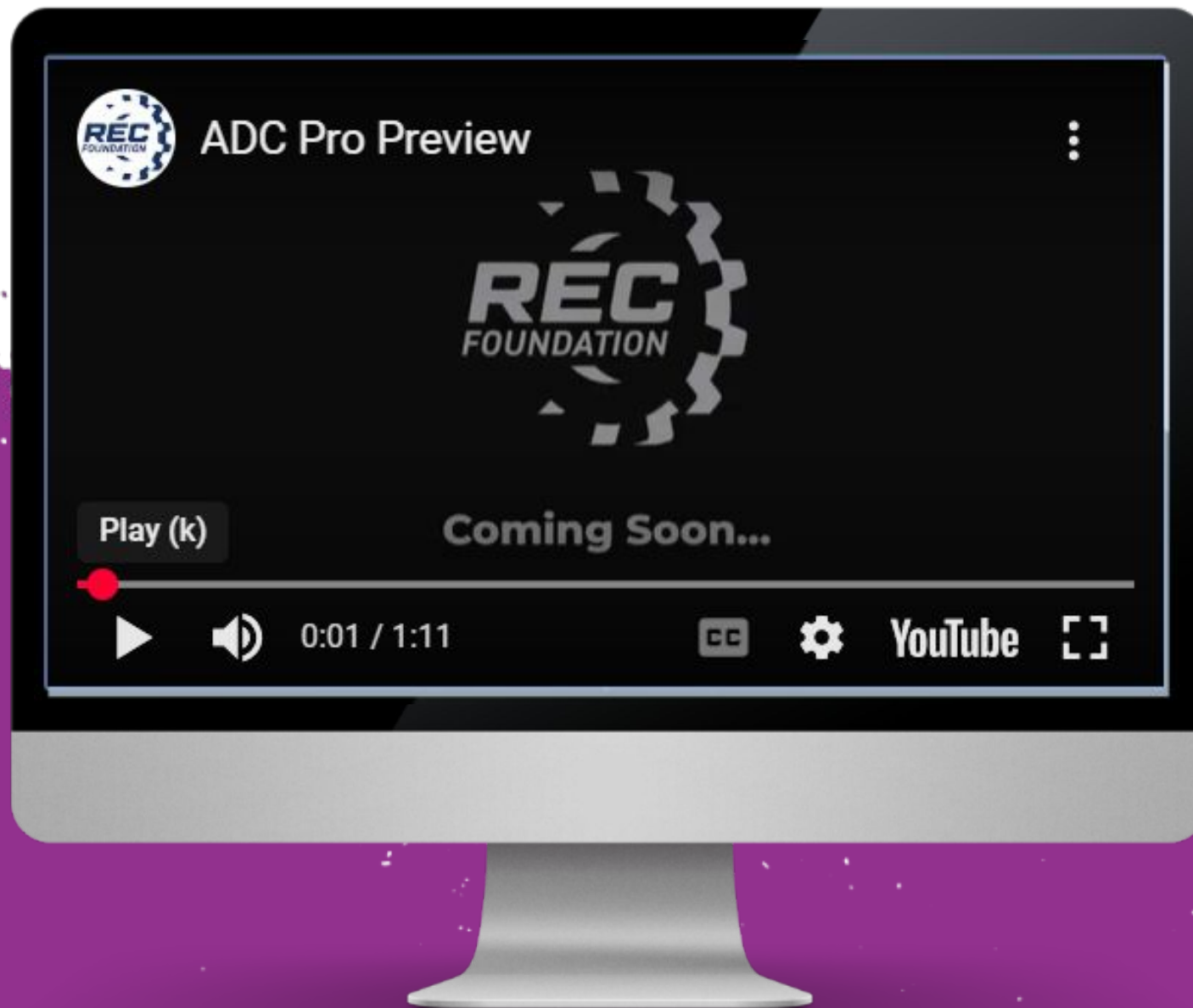


INTRODUCING AERIAL *DRONE* COMPETITION *PRO* >>>



Quick Facts

- **Target Audience:** High School Students (Ages 13+)
- **Team Size:** 3–6 students per team
- **Development:**
 - Experienced Game Design Committee
 - Over a year in development
 - Uses new RECFevents web application



Competition Vehicles



MINDS-i Competition Drone Kit

Custom kit developed for the ADC Pro competition. Kit includes assembly and programming curriculum. Used in the Teamwork Matches.



[CoDrone EDU Drone](#)

Ready-to-fly, programmable drone utilized in the Piloting and Autonomous Skills Matches.



MINDS-i Robot (or equivalent)

Custom kit designed to provide a starting point for a land vehicle design. Kit includes assembly and programming curriculum. Used in the Teamwork Matches & Skills Matches. (The 2025-26 Game Manual will include legal specifications for the land vehicle that will allow teams to utilize other options, if desired.)

The Highlights

Skill Development Focus Areas:

- Drone technology and precision flight principles
- **Engineering design and mechanical integration**
- Communication, collaboration, and strategy
- Real-world workforce skills related to drone industries

Integrated Multi-Vehicle Strategy:

- **Teams will use multiple drones and a land-based robot**
- Collaboration and coordination is required to complete tasks and outperform opponents
- Strategy, adaptability, and teamwork are key



What Makes This Program Different?

- **Higher-level competition (2v2)**
- **Opportunities for mechanical design & 3D printing**
- Advanced coding and autonomous programming, **including Machine Learning**
- Multi-vehicle coordination: aerial + land
- **Fall* & Spring Championships**
- **Industry Theme**

FUTURE INNOVATORS ON THE RISE

Raising the bar through competition

4 Missions - 1 Competition

Students compete in local and national events. Competitions are recommended for high school students ages 13+.



Teamwork Mission

Two Alliances composed of **two Teams each**, compete to attain a higher score than the opposing Alliance in matches on a divided field **using the MINDS-i Competition Drone and Land Vehicle**.



Autonomous Flight Skills Mission

The **CoDrone EDU drone and the Land Vehicle** are programmed by students to operate entirely autonomously. Each team competes alone to score as many points as possible.



Piloting Skills Mission

The **CoDrone EDU drone is piloted by students to fly through an obstacle course in coordination with the Land Vehicle**. Each team competes alone to score as many points as possible.



Communications Mission

Teams interview with Judges about their Drones, Programming, Design, Strategy, Careers. and Competition Notebook.

Estimated Program Costs

The ADC Pro program costs below are estimates to assist teams in budgeting for the upcoming season. Team Registration will be similar to the other REC Foundation Programs (\$200 per team), and Event Registrations will be at the discretion of the Event Partner (~\$50 - \$100 per team).

| Competition Vehicles & Field Equipment | Cost | Purchase from Distributors |
|--|--|----------------------------|
| MINDS-i Competition Drone | \$1350* | Ships August 2025 |
| CoDrone EDU Drone | \$249* | Available now |
| MINDS-i Competition Robot (or equivalent) | \$900* | Ships August 2025 |
| Teamwork Field Perimeter Kit - 10'x20' Half Field (PVC, netting, bungees, tote bags) | \$1000 (with PVC) or \$400 (without PVC) | Ships September 2025 |
| Teamwork Game Element Kit (half-field) | \$400 | Ships September 2025 |
| Skills Game Elements Kit (full-field) | \$400 | Ships September 2025 |

*Note: Prices are estimates only and subject to change. Shipping charges are extra.

Teams may also want to budget additional funds for spare parts, 3D Printing supplies, and event registrations.

Budget Calculator

ADC Pro team start-up budget calculator

Enter numbers to estimate your annual budget

| | |
|--|-------|
| # of Team(s) | 2 |
| # of competitions team(s) will attend | 3 |
| Average cost of event registration in my region* | \$75 |
| Transportation, snacks, etc | \$100 |

Equipment Costs as of 2025-2026 season

| | |
|--|---------|
| MINDS-i Competition Drone Kit | \$1,350 |
| CoDrone EDU Drone Kit | \$249 |
| MINDs-i Competition Robot Kit | \$900 |
| Teamwork Game Element Kit (half-field) | \$400 |
| Skills Game Element Kit (full field) | \$400 |
| Teamwork 10'x20' Field Perimeter Kit (includes PVC Frame, netting, bungees, tote bags) | \$1,000 |

To use this sheet, please make a copy for yourself.

First year cost

| | |
|--------------------------------------|---------|
| MINDS-i Competition Drone Kit | \$2,700 |
| CoDrone EDU Drone Kit | \$498 |
| MINDS-i Competition Robot Kit | \$1,800 |
| Teamwork Game Element Kit Half-Field | \$400 |
| Skills Game Element Kit Full Field | \$400 |
| Shipping Cost & Taxes (est)** | \$500 |

| | |
|---|---------|
| Teamwork Field Perimeter Kit Half Field | \$1,000 |
| RECF ADC Pro Season Registration | \$400 |
| ADC Event Registration | \$450 |
| Transportation, snacks, etc | \$100 |

First season total **\$8,248**

Following year costs

| | |
|---|-------|
| MINDS-i Competition Drone Replacement Parts | \$200 |
| CoDrone EDU Kit Replacement Parts | \$50 |
| MINDS-i Competition Robot Replacement Parts | \$200 |
| Teamwork Game Element Kit Half-Field | \$400 |
| Skills Game Element Kit Full Field*** | \$400 |
| Shipping Cost & Taxes (est)** | \$200 |

| | |
|---|-------|
| Teamwork Field Perimeter Kit Half Field | -- |
| RECF ADC Pro Season Registration | \$400 |
| ADC Event Registration | \$450 |
| Transportation, snacks, etc | \$100 |

Following season total **\$2,400**

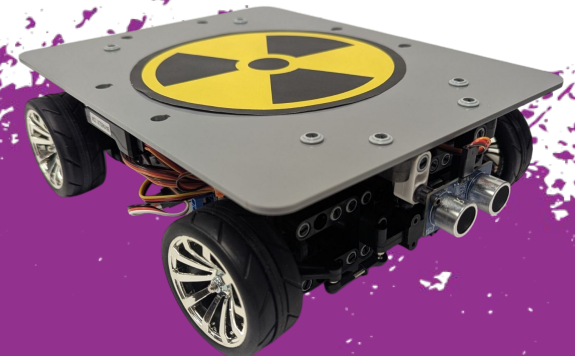
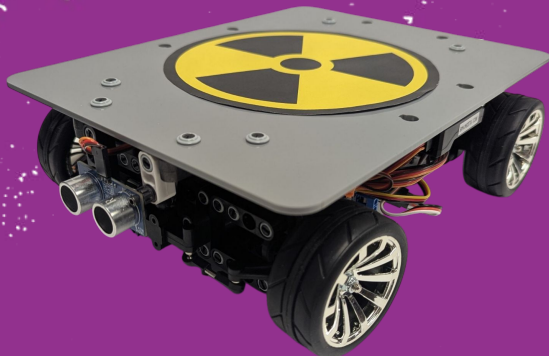
*To find the approximate event registration fee, go to RECFEvents.org's event listings.

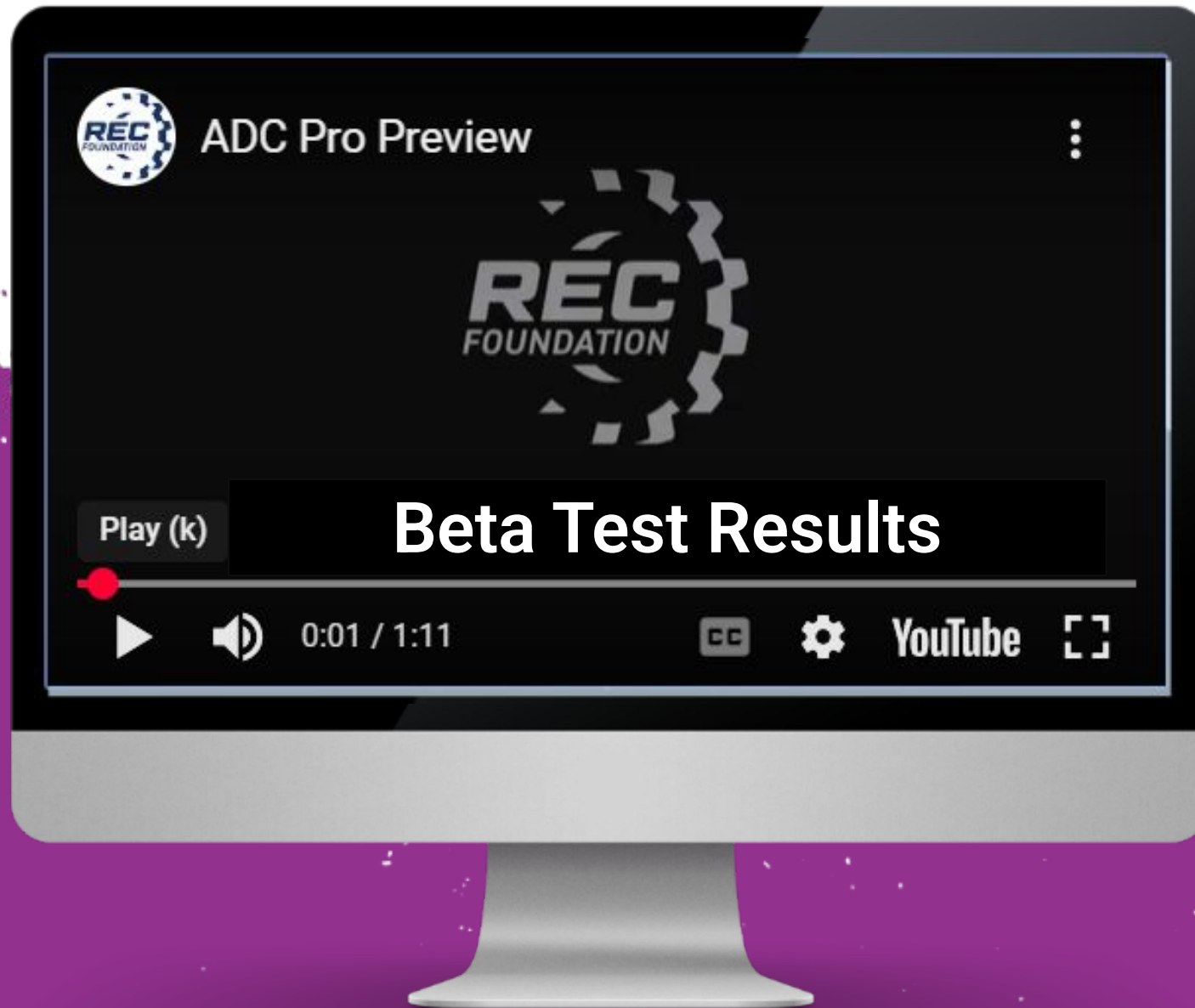
**Prices do not include shipping or taxes. Please contact the suppliers for a quote.

*** Skills Game Element Kits may be less for future seasons - TBD.

Replacement part are estimates only and may vary based upon the needed modifications to complete tasks. Competition vehicles can be used from season to season.







Contact

We are here for you

If you need any further information about our drone program, one of our staff members will be able to assist you. You can contact us via email or phone, and our team will be happy to help. Additionally, you can visit our website for more details.

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Resources

