

Rocky Mountain BEST



José M. López / Executive Director

2010	2011	2012	2013	2014	2015	2016	2017
TOTAL RECALL	BUGS!	Warp XX	GATE- KEEPER	BLADE RUNNER	PAY DIRT	BET THE FARM	CROSS- FIRE

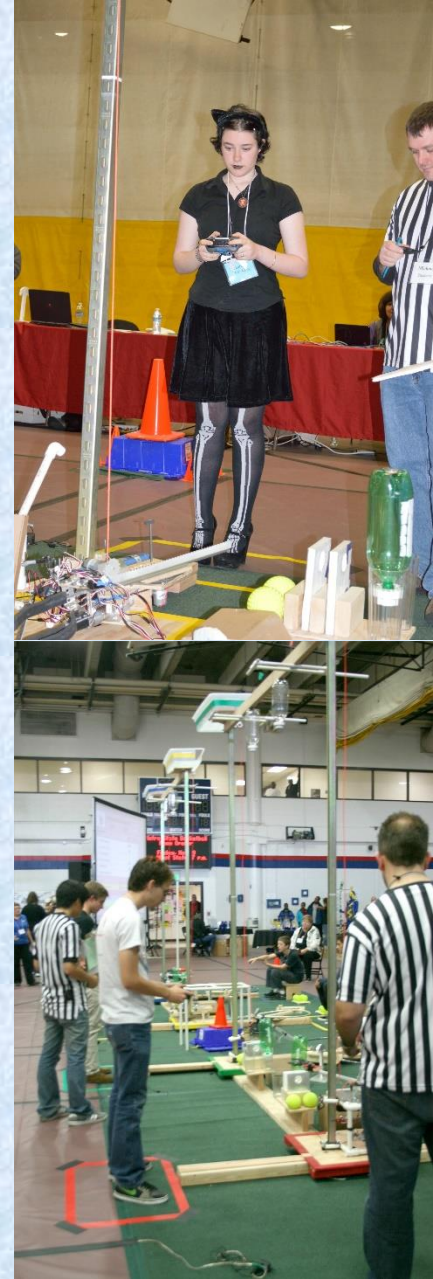
BEST is...

a non-profit, volunteer-based organization whose mission is to inspire students to pursue careers in engineering, science, technology, and math through participation in a sports-like, hands-on, real-world, engineering-based robotics competition.



BEST is ...

- ☐ BEST is not just about robotics.
- ☐ It's more about teaching students to analyze and solve problems.
- ☐ These are the students we need in our engineering programs and workforce!



How BEST Works



Students are the sole participants and primary decision-makers, designers, and builders

- Coaches guide the teams through the Engineering Design Process

Any student may participate

- BEST is an equal opportunity program

Schools participate at no cost

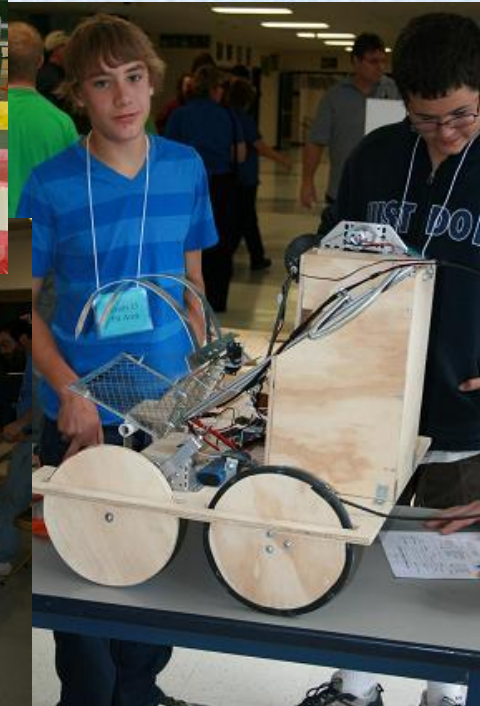
- Equipment and materials are provided at no cost
- Schools only fund their T-shirts and travel



The BEST process makes learning FUN!

BEST Features

BEST is very cost effective. One hub of ten teams start up cost is about \$30,000. An established 32 team hub yearly sustainability is about \$40,000.



Hub Competition



- **Student Teams have six weeks to develop a strategy & design, develop, and test a robot that can outperform their competitors**
- **Each team receives identical parts kit, but the resulting robots are each ingeniously unique**
- **Student teams are guided by professional mentor and school coaches**
- **Winning teams from each Hub compete at a Regional Championship**
- **BEST award is optional competition focused on business skills**

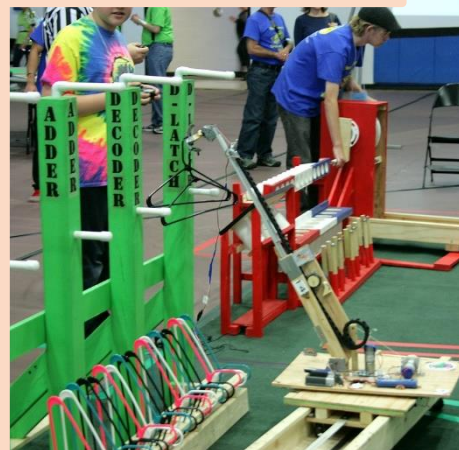


BEST Features

*Teams have six weeks to develop a game strategy, design, build and test a robot, using **ONLY** the materials we provide.*



From two boxes with the same materials, many robots..



Game Day!

BEST is like a basketball game, chess match, and science fair all rolled into one day, with cheerleaders, mascots, pep bands, and wildly cheering adults and kids mixed in.



Robotics Game Competition

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✓ There is always an educational theme!

- Total Recall – 6 Sigma
- BUGS! – Bug capture
- WarpXX – Space Elevator
- Gatekeeper – Computer build
- Blade Runner – Renewable Energy Windmill
- Pay Dirt – Mining and Economics
- Bet the Farm – 2016 Game
- Crossfire – 2017 Game

Robotics Game Competition

- ✓ Game design & Rules from BEST Robotics Inc. (BRI)
- ✓ Scoring & Controlling software from BRI



Total Recall 2010

Robotics Game Competition



- ✓ Four competition quadrants in 4 colors (red, blue, yellow, green)

Robotics Game Competition

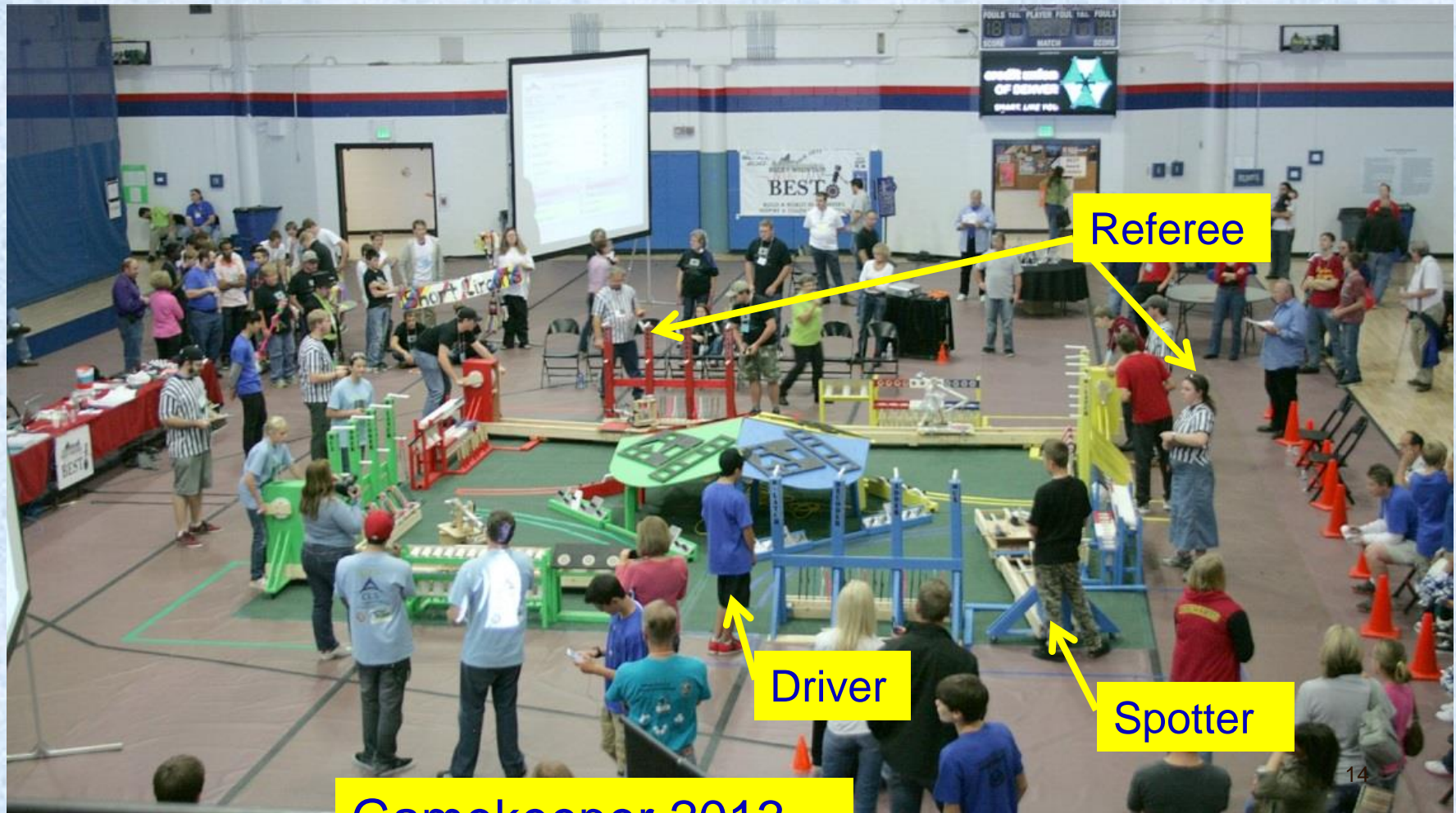
- ✓ Scoring based on grabbing items and placing them in designated areas.

Warp XX 2012



Robotics Game Competition

- ✓ Designated areas for robot driver & spotter



Gamekeeper 2013

Robotics Game Competition

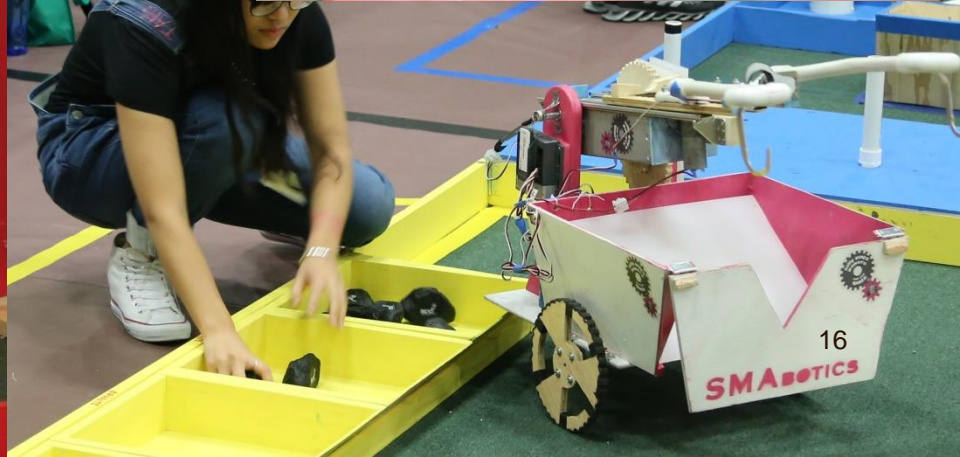
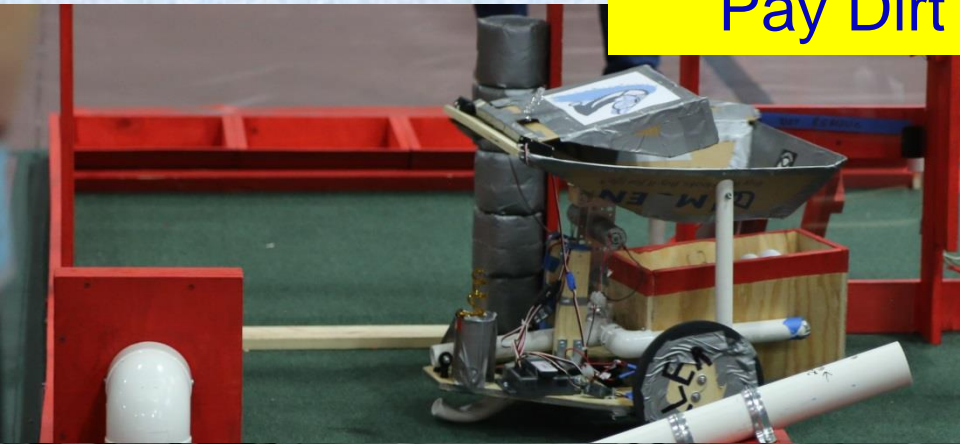
- ✓ Three minute competition rounds



Robotics Game Competition

- ✓ Seeding round, followed by semi-finals and finals matches.

Pay Dirt 2015



Robotics Game Competition

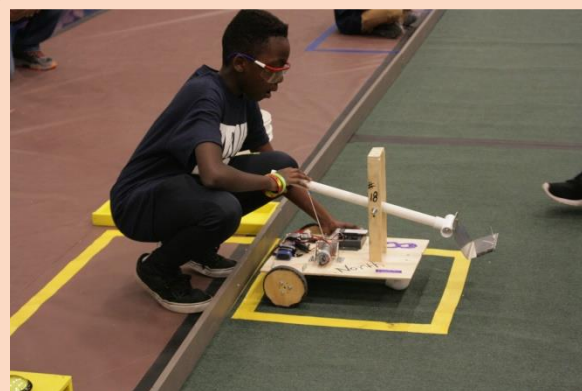


Bet the Farm 2016



Robotics Game Competition

Crossfire 2017





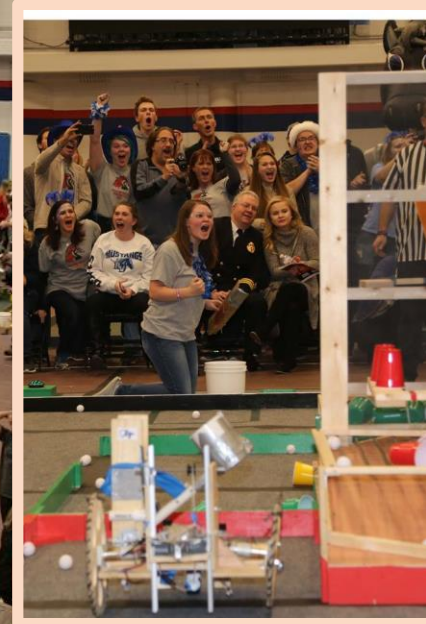
First

BEST ROBOTICS

DENVER BEST

REGIONAL CHAMPIONSHIP

METROPOLITAN STATE UNIVERSITY OF DENVER



BEST Growth



1993:

- Created by two Texas Instrument engineers
- 221 students from 14 schools competed in 1 hub competition in Texas

2017:

- More than 15,000 students from 850 schools competed in 44 hubs in 16 states



Colorado Hubs in 2017:

- Rocky Mountain BEST in Denver Metro
- Front Range BEST in Denver Metro
- SoCo BEST @Trinidad State Jr College
- Golden Plains BEST in Julesburg
- Pikes Peak BEST in Colorado Springs

BEST Hubs & Regionals

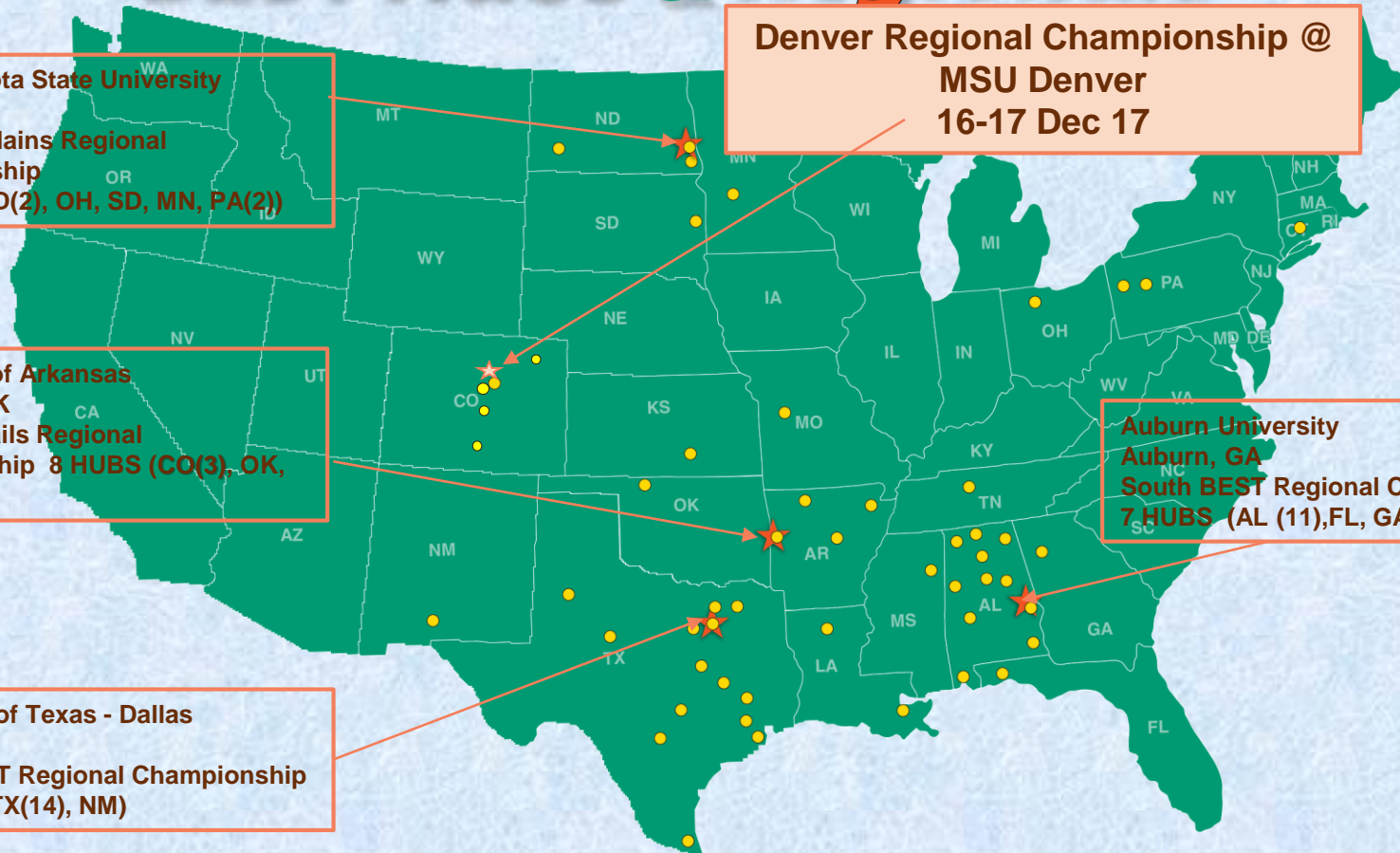
North Dakota State University
Fargo, ND
Northern Plains Regional
Championship
7 HUBS (ND(2), OH, SD, MN, PA(2))

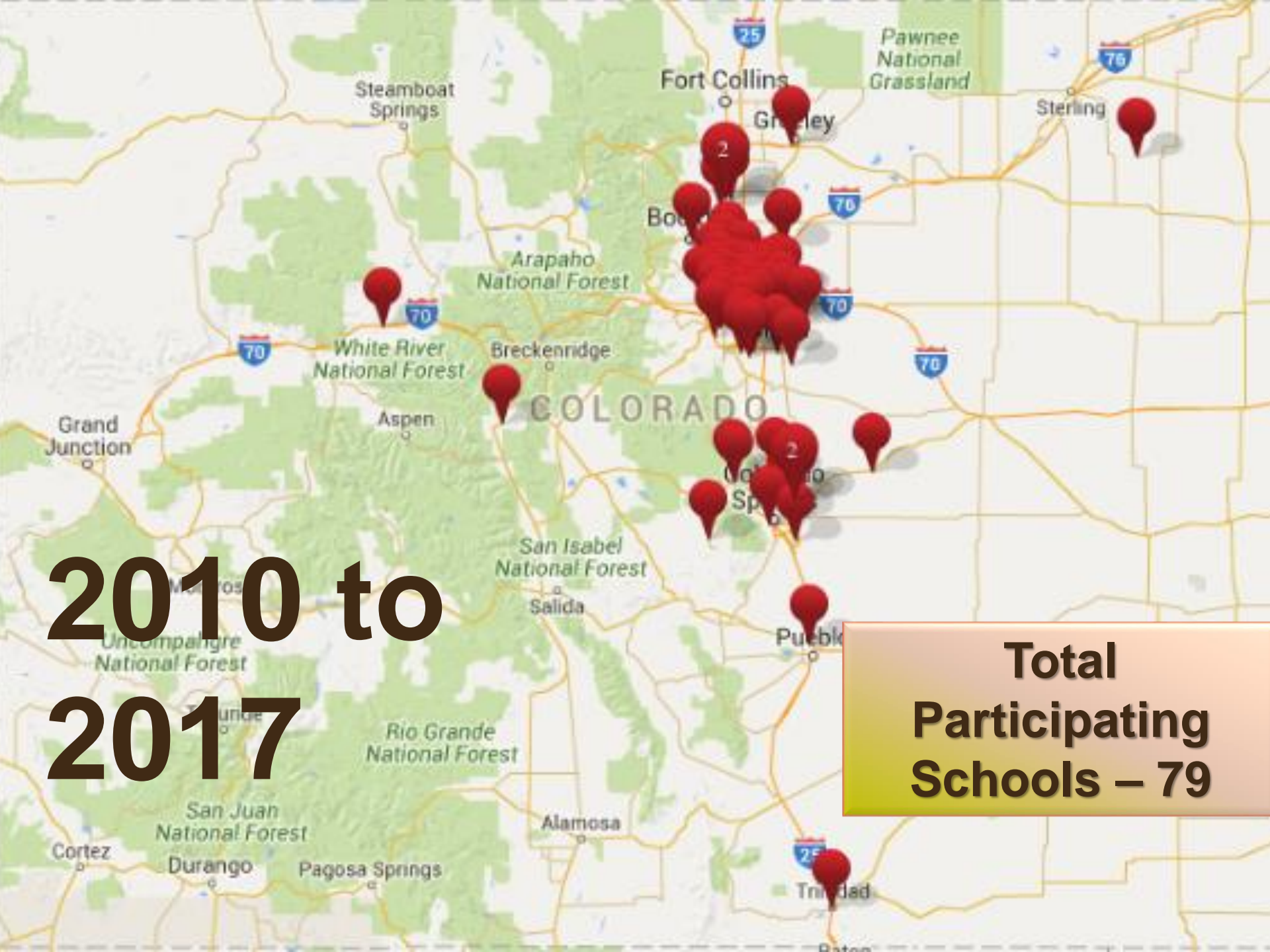
University of Arkansas
Ft Smith, AK
Frontier Trails Regional
Championship 8 HUBS (CO(3), OK,
AR (3))

University of Texas - Dallas
Dallas, TX
Texas BEST Regional Championship
15 HUBS (TX(14), NM)

Denver Regional Championship @
MSU Denver
16-17 Dec 17

Auburn University
Auburn, GA
South BEST Regional Championship
7 HUBS (AL (11), FL, GA, MS, TN)





2010 to
2017

**Total
Participating
Schools – 79**



Build a robot in six weeks; inspire a youth for a lifetime.

- ✓ **Teachers/Mentors Institute (TMI) July 2018 @ MSU Denver**
- ✓ **Kick Off – Saturday, 2018**
- ✓ **Practice Day is Saturday (one week before game day), 2018**
- ✓ **Game Day competition will be held on Saturday, October 2018**
- ✓ **2nd Denver regional Championship @ MSU Denver**

National Website: www.bestinc.org

**Rocky Mountain BEST Website:
www.rockymountainbest.org**

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2018 Game Teaser

<http://www.bestinc.org/>