

Judging

Awards and Rubrics

For



& Beyond!

Motivation

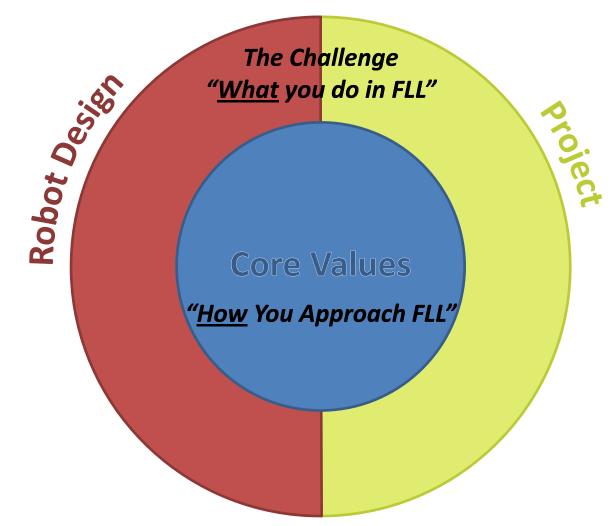


1. Align judging with FLL mission and priorities



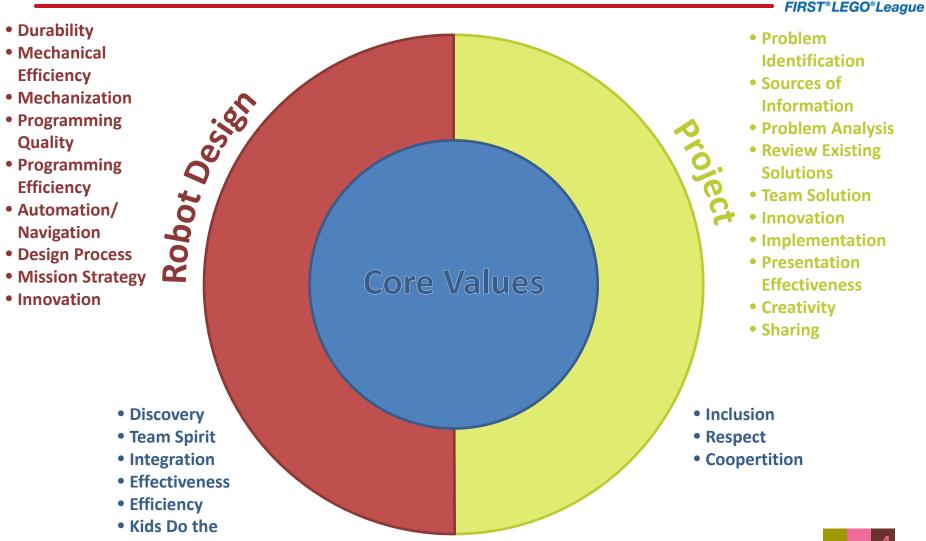
Alignment With Mission and Priorities





Match Judging to Key Takeaways from FLL





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Motivation



- 1. Align judging with FLL mission and priorities
- 2. Improve and simplify the judging experience:
 - For teams
 - For tournaments and volunteers
 - For translation needs



Pilot Feedback



Respondents Strongly Agree or Agree:

	Team Feedback (332 responses)	Judge Feedback (163 responses)	Partner/Judge Advisor Piloteer Feedback (16 responses)
Awards focus on most important things about FLL	89%	92%	81%
Award descriptions are easy to understand	94%	94%	100%
Rubrics focus on the most important things about FLL	91%	91%	88%
Rubrics are easy to understand	90%	84%	87%

Motivation



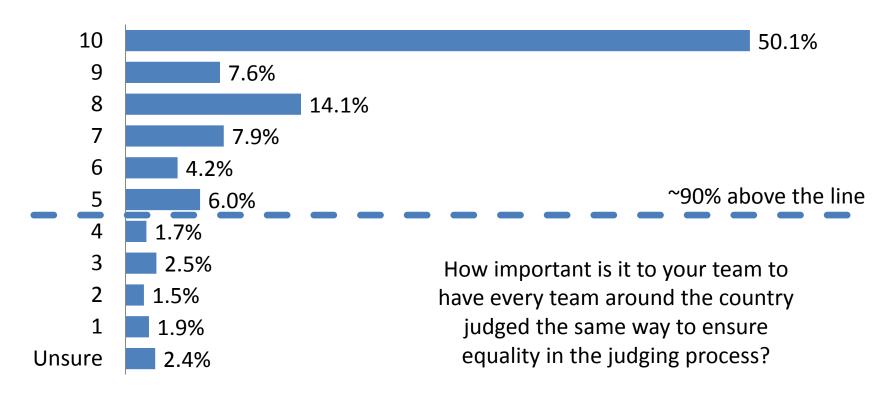
- 1. Align judging with FLL mission and priorities
- 2. Improve and simplify the judging experience
 - For teams
 - For tournaments and volunteers
 - For translation needs
- 3. Address global consistency



Global Consistency



Team expectations, especially with global event participation





Global Consistency



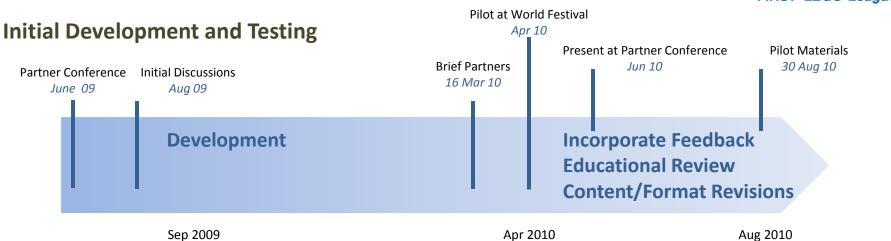
- FLL Program Needs
 - Sustainable growth
 - Ease of Replication
- Pre-requisite for:
 - Empowered Judge Advisors
 - Effective Training and Tools
 - Effective Time Management

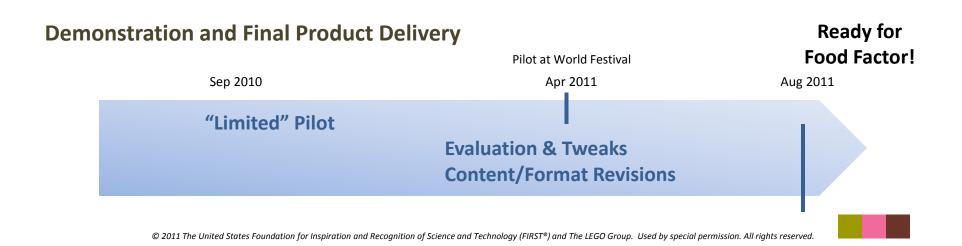




Rollout Schedule







Ready for Food Factor



- New Rubrics
- New Awards
- New Award structures for events
- New Deliberations process
- New Tools
- New Materials



RUBRICS & PRIMERS

Key Rubric Format Changes



RST	"LEG	Projec	t	Team Num	ber	
der wri	mons	trate skill in a particular area comments as you can to ack	y mark the box that best descr a, then put an 'X' in the first bo nowledge each team's hard w ards for which you would like t	x for Not Demonstrated (ND). ork and to help teams improve	Please provide as many	
		Beginning	Developing	Accomplished	Exemplary	
	Pro	Problem Identification Clear definition of the problem being studied				
	N D	unclear; few details	somewhat clear; details	clear; detailed	very clear; very detaile	
	Sources of Information Types (e.g. books, magazines, websites, reports and other resources) and number of quality sources cited, including professionals in the field					
	N D	one type of information cited; minimal sources	two types of information cited; several sources	three types of information cited;	four(+) types of information cite	
-			oth to which the problem was	many sources, including professionals	extensive sources, incl. profession	
ě	N D	minimal study; no team analysis	minimal study; some team analysis	sufficient study and analysis by team	extensive study and analy	
		view Existing Solutions Ext	ent to which existing theories a ort to verify the originality of th	and solutions were analyzed by		
	N D	minimal review; no team analysis	minimal review; some team analysis	sufficient review and analysis by team	extensive review and anal by team	
		entermon parameters and the state	ar explanation of the proposed			
	N D	difficult to understand	some parts confusing	understandable	easy to understand by a	
The source of th	Innovation Degree to which the team's solution makes life better by improving existing options, developing a new application of existing ideas, or solving the problem in a completely new Way					
	N D	existing solution/application	solution/application contains some original element(s)	original solution/application	original solution/application with potential to add significant valu	
	lm	Implementation Consideration of factors for implementation (cost, ease of manufacturing, etc.)				
	N D	minimal factors considered	some factors considered	fectors well considered; some question about proposed solution	fectors well considered and feasi solution proposed	
comments:	Dre	scantistion Effectivances MA	essage delivery and organization	o of the presentation		
tion	N	unclear OR disorganized	somewhat clear; minimal	mostly clear; mostly	very clear AND well organ	
	D	and a series	organization	organized		
		eativity Im	agination used to develop and o	seliver the presentation		
	Cre	minimally engaging OR	agination used to develop and o	deliver the presentation engaging AND imaginative	very engaging AND	
1000	Cre N D	minimally engaging OR unimaginative aring De	engaging OR imaginative gree to which the team shared	engaging AND imaginative	exceptionally imagination	
riesellation	Cre N D Shi	minimally engaging OR unimaginative aring De, ber	engaging OR imaginative gree to which the team shared nefit from the team's efforts	engaging AND imaginative their Project before the tourna shared with one individual or	exceptionally imagination ment with others who mig shared with multiple individuo	
Comments:	Cre N D Shi	minimally engaging OR unimaginative aring De	engaging OR imaginative gree to which the team shared	engaging AND imaginative their Project before the tourna	exceptionally imaginati ment with others who mig	

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- Shorter list of criteria matched to Key FLL Takeaways
- More focus on comments (teams crave feedback!)
- Criteria linked to specific awards
- Streamlined text
 - Ease of use; translation
- Emphasis on team demonstration of all criteria
 - Note "ND" option
- Includes award considerations (more feedback!)

Criteria Block



		Beginning	Developing	Accomplished	Exemplary
	Disc	•	nnced emphasis on all three asp ning awards	pects (Robot, Project, Core Valu	ues) of FLL; it's not just about
ے	N D	emphasis on only one aspect; others neglected	emphasis on two aspects; one aspect neglected	emphasis on all three aspects	balanced emphasis on all three aspects
ation	Team Spirit Enthusiastic and fun expression of the team identity				
ē	N	minimal enthusiasm AND	minimal enthusiasm OR	team is enthusiastic and fun;	team engages others in their
ns	D	minimal identity	minimal identity	clear identity	enthusiasm & fun; clear identity
-	Integration Application of FLL values and skills outside FLL (ability to describe current and examples from daily life)		current and potential		
	N D	team does not apply FLL values and skills outside FLL	team able to describe at least one example	team able to describe multiple examples	team able to describe multiple examples, incl. individual stories

Awards Consideration Block



Awards Consideration:

Mechanical Design

Programming

Strategy & Innovation

2011 World Festival Judge Survey "One thing that worked well..."



- "The new Rubrics made judging simple, fast and efficient"
- "The new Rubric was a significant improvement over past versions"
- "New Judging Forms were very easy to work with; provided much better feedback to teams...quick to read and understand"



Global Standards Rubrics



- Global judging tool; must be utilized as provided
- All rubric criteria shall be weighted equally
- Each Rubric item shall be evaluated

Rubric Primers



- Short clarifications and examples to orient judges to new rubrics
- Address common questions
- Give judges common frame of reference for evaluations



EVENT STRUCTURE & AWARDS

Event Structure



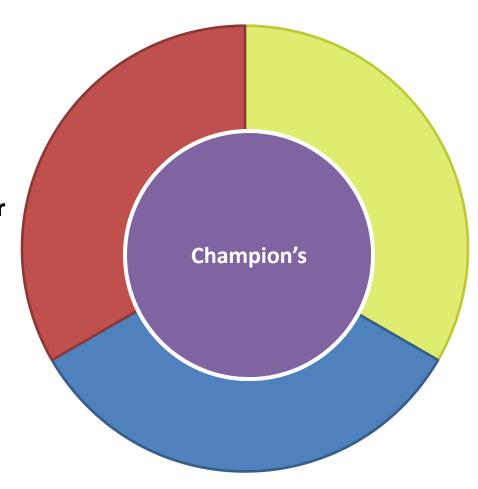
	Champion's			
<u>s</u>	Inspiration Mechanical Design		Research	
Core Awards	Teamwork	Programming	Innovative Solution	
Core A	Gracious Professionalism	Strategy & Innovation	Presentation	
	+			
	R	Robot Performance	е	
		+		
	Judges		Local	
		+		
	Outstanding Volunteer	Adult Coach/ Mentor	Youth Mentor	

- Specifies set of required awards
 - Core awards all of equal weight, except
 Champion's
- Event size and type define requirements
- Champion's award required at all official events

Core Awards Champion's Award

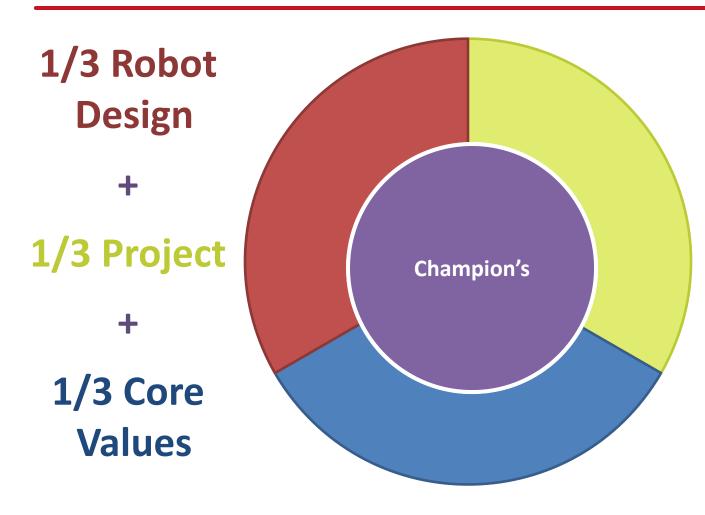


This award recognizes a team that embodies the FLL experience, by fully embracing our Core Values while achieving excellence and innovation in both the Robot Game and Project.



Champion's Award Weighting and Requirements





Based on strong performance across all three <u>judged</u> areas AND additional requirements:

Robot

 Robot Game score in top 40% of teams

Project

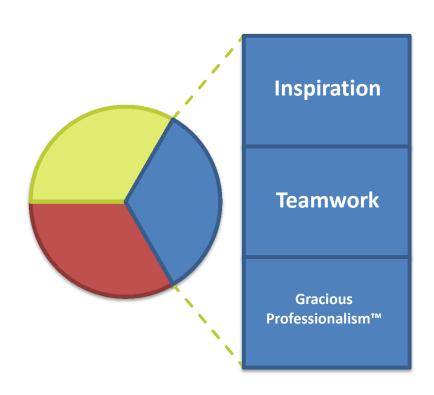
Team must complete all 3 parts

Core Values

 Team must adhere to all Core Values

Core Awards Core Values

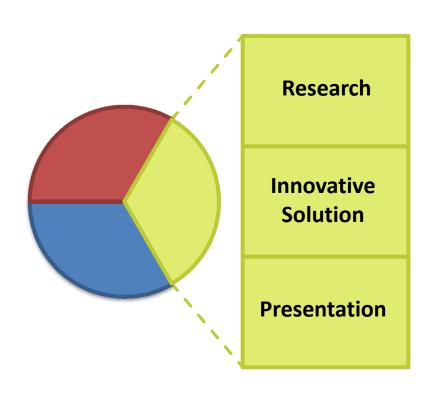




- This award celebrates a team that is empowered by their FLL experience and displays extraordinary enthusiasm and spirit.
- This award recognizes a team that is able to accomplish more together than they could as individuals through shared goals, strong communication, effective problem solving and excellent time management.
- This award recognizes a team whose members show each other and other teams respect at all times. They recognize that both friendly competition and mutual gain are possible, on and off the playing field.

Core Awards Project

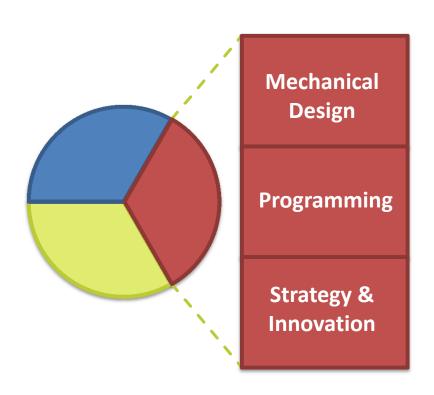




- This award recognizes a team that utilizes diverse resources to formulate an in-depth and comprehensive understanding of the problem they have identified.
- This award recognizes a team's solution that is exceptionally wellconsidered and creative, with good potential to solve the problem researched.
- This award recognizes a team that effectively communicates the problem they have identified and their proposed solution to both the judges and other potential supporters.

Core Awards Robot Design





- This award recognizes a team that designs and develops a mechanically sound robot that is durable, efficient and highly capable of performing challenge missions.
- This award recognizes a team that utilizes outstanding programming principles, including clear, concise and reusable code that allows their robot to perform challenge missions autonomously and consistently.
- This award recognizes a team that uses solid engineering practices and a well-developed strategy to design and build an innovative, high performing robot.

Core Awards Robot Performance



Robot Performance

 This award recognizes a team that scores the most points during the Robot Game. Teams have a chance to compete in at least three 2.5 minute matches and their highest score counts.

- Determined on the field, NOT JUDGED
- If a tie, go to second highest, then third highest runs
- Robot Performance remains the only exception to one (team) award per team

Optional Awards



Judges Awards

Examples:

- Rising Star
- Perseverance
- Aesthetics/Style

During the course of competition the judges may encounter teams whose unique efforts, performance or dynamics merit recognition. Some teams have a story that sets them apart in a noteworthy way. Sometimes a team is so close to winning an award that the judges choose to give special recognition to the team. Judges Awards allow the freedom to recognize remarkable teams that stand out for reasons other than the **Core Award categories.**

Optional Awards



Local Awards

Locally defined

Examples:

- Highest Average (consistency)
- Special Sponsor Awards

Special Recognition Awards



Outstanding Volunteer

Adult Coach/Mentor

Young Adult Mentor

Outstanding Volunteer Award

• The FLL program would not exist without its volunteers. This award honors an extraordinary volunteer(s) whose dedication to the FLL program has a positive impact on the team experience.

Adult Coach/Mentor Award

 Many teams reach significant milestones thanks to their close relationship with an adult mentor. This award goes to the coach or mentor whose wisdom, guidance, and devotion are most clearly evident in the team's discussion with the judges.

Young Adult Mentor Award

 FLL presents this award to the young adult, high school or college mentor whose support, impact, inspiration, and guidance are most clearly evident in the team's discussion with the judges.

Award StructureChampionships & Qualifiers > 20 teams



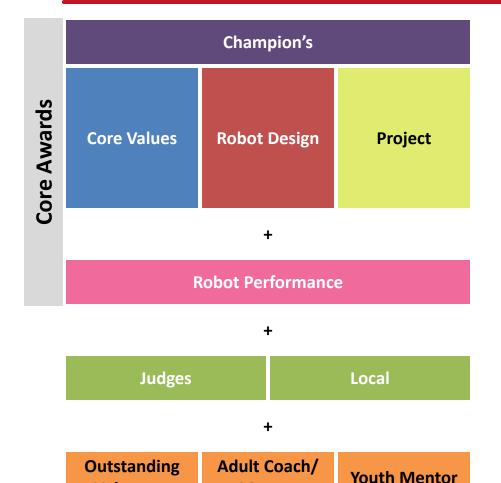
	Champion's				
<u>s</u>	Inspiration Mechanical Design		Research		
Core Awards	Teamwork	Programming	Innovative Solution		
	Gracious Professionalism	Strategy & Innovation	Presentation		
	+				
	Robot Performance				
	+				
	Judges		Local		
	+				
	Outstanding Volunteer	Adult Coach/ Mentor	Youth Mentor		

- Champion's Award given to 1st and 2nd place (or more if desired)
 - Only 1st place required for large Qualifier
- All other Core Awards given to equal depth

Award Structure

Qualifiers < or = 20 teams





Mentor

Volunteer

Required Awards:

- 1st place Champion's Award (at a minimum)
- One overall Core Award given in each category
 - Determined by overall rank in that area
- Robot Performance

Must use Championship structure rather than additional placements



AWARDS CONSIDERATIONS

Overall



- We continue to recommend that a minimum of 30% of participating teams receive awards
- Robot Performance remains the one exception to one (team) award per team
- Qualifier advancement standard policy based on Champion's Award criteria
 - Consider ceremony recognition strategies



Overall



- FLL Championship trophies are reserved for Championships
 - Alternative forms of recognition must be used for Qualifiers and may be used for Special Recognition Awards
- Judges and/or Local Awards may be used in addition to Core Awards or to "fill in" award counts if desired
 - These MUST be used only to recognize teams for an accomplishment not addressed by a Core Award category



Team Participation



- Only eligible for awards at the first official event of each qualifying level attended during season
- Teams must participate in all 3 Judged areas and the Robot Game to be eligible for any Core Awards
- All team members expected to participate in each judged session
 - Specialization is okay, but must be able to direct Q & A
 - Encourage parents of students with special needs to share successful participation strategies prior to the event
- Monitor 10 person team limit:
 - A team of 30 with a 10 person competition team is not okay



Project Judging



- Ongoing constant requirements:
 - Identify a Real-World Problem
 - Create an Innovative Solution
 - Share your research and solution
- Season-specific Requirements:
 - Can vary e.g. Power Puzzle Energy Audit
- Presentation time of 5 minutes, including any setup
- Team must demonstrate completion of all requirements during presentation portion
- Live presenter; A/V as enhancement only



Core Values Judging



- Non-adherence to FLL Core Values (team members, coaches, parents) disqualifies teams from receiving any awards
- Core Values input form for all volunteers; increased awareness of policies and consequences:
 - Adult Intervention
 - Gracious Professionalism
- World Festival Core Values nominees may be selected from among any team winning any Core Values award at any event, or by a process determined by the Partner in their region



Robot Design Judging



- Allowable Parts, software and all rules must be followed on the table to win Robot Performance or any Robot Design awards
 - May use additional parts in Robot Design Judging when clearly identified



Robot Performance



- Award ALWAYS goes to the highest score after a minimum of 3 official rounds
- May use Local Awards to recognize:
 - Elimination Rounds
 - Alliance Rounds





OTHER JUDGING CHANGES

Core Values Judging



- Minimum 10 minute session; dedicated room
 - No longer an option to do in pits or combine with other judging sessions
- Teamwork Activity remains optional but strongly encouraged
 - Help us expand the Wiki Activity Library



Core Values Judging Poster



- Used as a tool to jumpstart discussion
 - 3 hour preparation maximum suggested
 - 2 minute presentation maximum
 - followed by Q & A
- Focuses on more complex/abstract rubric criteria:
 - Discovery, Inclusion, Integration, Coopertition
- Increased Pit/Event Visibility
- World Festival videos available
- Looking for Food Factor Pilot Regions



Robot Design Judging



- Robot Design Executive Summary format
 - Looking for Food Factor Pilot Regions





DISCUSSION TOPICS

Additional Topics for Discussion



- Is the Champion's requirement of 40% workable for Qualifiers?
- 1. Any modification needed to <u>Award</u> requirement for small qualifiers?
- 2. Any modification needed to <u>qualifier advancement</u> policy?



Additional Topics for Discussion



- Individual Awards (Coach Mentor, Youth Mentor, Outstanding Volunteer)
 - Should each of these be mandatory or recommended only?
 - Best practices for process?

Additional Topics for Discussion



- 15 minute Judging Sessions: Pros and Cons
 - Event Impact
 - Team Impact