## RaceJoy's

## **Predictive Tracking**

September 16, 2025







## Today's **Agenda**

#### Predictive Pace Training

- Predictive Map Experiences
- Predictive Pace Requirements
- RaceDay Scoring RaceJoy Timing Integration
  - Updated Training



#### Webinar Description:

Join us for this special Timer Tip Tuesday session as we introduce RaceJoy's new Predictive Tracking feature — designed specifically for timers using chip timing progress updates. This new capability complements RaceJoy's core GPS tracking functionality by enabling map-based tracking for all participants, even those not using a phone for live tracking.

Available exclusively to select timers with a proven history using RaceJoy, this feature leverages RFID data from timing equipment on the course to deliver real-time predictive tracking that enhances the race experience for spectators and organizers alike.

In this session, we'll cover:

- How Predictive Tracking works and how it differs from GPS tracking
- Setting up and enabling chip-timing-based tracking in RaceJoy
- How participant progress is calculated and displayed in the map view
- Best practices for implementing Predictive Tracking on race day
- Eligibility requirements and rollout details for select timers

With Predictive Tracking, your races can now offer a comprehensive tracking experience for all participants, combining the accuracy of chip timing with the dynamic RaceJoy race day experience.





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#### Similar Decks

#### **RJ Chip Timing:**

https://docs.google.com/presentation/d/1C6j-a-gEnt3oOajcCeLhmm\_nhfhRmycX\_gKegALCaWc/edit?usp=sharing

RJ Chip Timing (Advanced session at Summit)

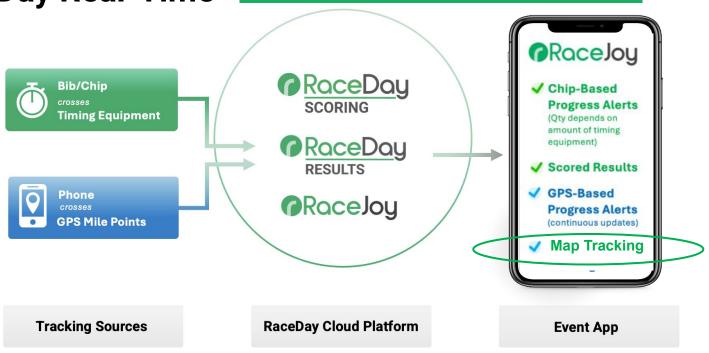
https://docs.google.com/presentation/d/10tgA9WrPCBnkKEo-UelsPWgXUpmYlyEAiiXcdFtP1Zw/edit?usp=sharing





**RaceDay Real-Time** 

RaceDay Scoring is the streaming source platform from your equipment to RaceJoy.



Timers do NOT have to score the event in RaceDay Scoring to offer alerts system.



### RaceJoy

### **RFID Bib/Chip Notifications**

- Direct streaming of timing data from RaceDay Scoring to RaceJoy users.
- The number of alerts issued depends upon the amount of timing equipment placed on the course.
- Simplified enablement for spectators.
  - No setup prior for Text Alerts or link just use RaceJoy.

Participant does NOT need to carry phone or use RaceJoy.

Revenue opportunity for timers to charge more for equipment and added staff, but still very affordable.



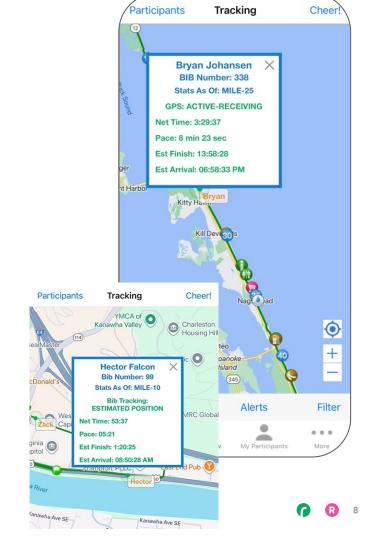




## RaceJoy Chip Timing Participant Map Tracking

#### TWO LEVELS: Chip Timing Tracking

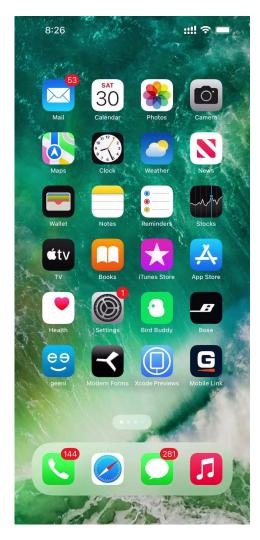
- 1. Chip/Bib-based alert notifications
  - Notifications for all participants
  - Map View ONLY shows GPS Phone Tracking participants (must opt in).
- Predictive Tracking: Map view shows all tracked participants with indicators of actual vs. estimated position
  - GPS Phone Tracking still option for those that opt in for it.



Predictive Tracking

## Predictive Map Experience – RaceJoy

- Indicators for GPS Tracked Participant
  - Pulsing Marker
  - Pop-up Detail indicates GPS Tracked
     Participant
- Indicators for Timing-Data Position Tracked Participant
  - Non-Pulsing Marker
  - Pop-up Detail indicates Estimated Location



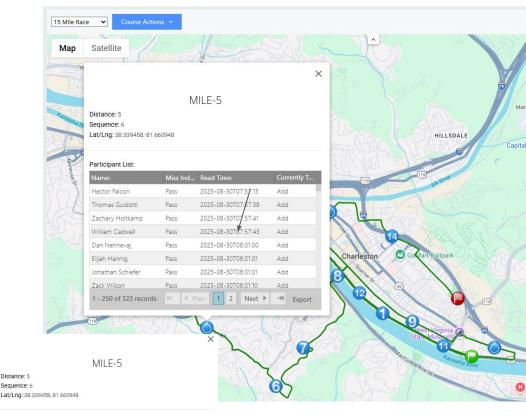




• • Predictive Tracking

## Predictive Map Experience – **Monitoring**

- Use monitoring to find first and last participants at first intermediate timing location.
  - Sort by Read Time
- Add them to your RaceJoy app using <u>Find</u>
   <u>Participants</u> if they don't immediately show on map
  - Someone has to track them in order for estimated location processing to occur for NON GPS participants



Participant List:							
Name:	Miss Ind	Read Time:	Currently T				
Tiffany Peters	Miss	2025-08-30T09:59:50	Add				
Monica Spencer	Pass	2025-08-30T08:54:23	Add				
Donna Akers	Pass	2025-08-30T08:47:12	Add				
Vivian Workman	Pass	2025-08-30T08:46:16	Add				
Amy Jo Riffee	Pass	2025-08-30T08:42:39	Add				
Irene Lanz	Pass	2025-08-30T08:42:09	Add				
John Palmer	Pass	2025-08-30T08:39:54	Add				
	_	2025 20 20702 20 27	4				





## Predictive Pace Algorithm - Current Version

- Actual GUNTIME from Scoring
  - Non-GPS tracked participants do not show on map until we get the actual scored event start time streamed from Scoring.
- Actual Participant Start PASSING
  - Very important to get this in real-time otherwise scored event start time is being used in calculations.
- Participant's estimated pace for event captured from custom question "or" if they come into RaceJoy prior to event and update estimated pace.
  - This is used in weighting algorithm and becomes less important once a couple intermediate timing PASSINGS occur for a given participant.
- Age/Gender Graded Typical Pace Table
  - Used if NO user-provided value from registration or RaceJoy setup.
- Average and Last Split Pace calculations are based on Timing Equipment Passings.

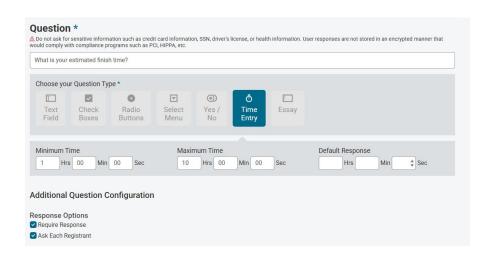


## Predictive Pace - **Future Considerations**

- Previous participant race performance found through RunSignup user profile.
- Segment Pace Adjustment Factor
  - Timer knows the course and provides +/- adjustment factor for a given segment

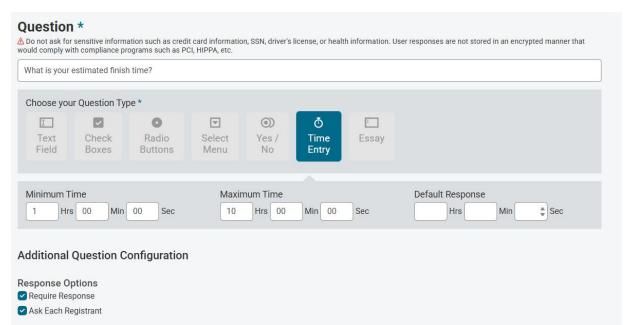
### Requirements for Enabling Predictive Mapping

- RaceJoy Certified Timer whose has demonstrated successful 'Real-time' timing integration with RaceDay Scoring - RaceJoy
- Timing Integration setup on course indicates minimum number of intermediate points for given course
  - a. < Half Marathon</li>
    - i. 2 or more
  - b. > Half Marathon
    - i. 3 or more
- 3. Estimated Finish Time Question exists in registration.
- 4. Email <a href="mailto:info@racejoy.com">info@racejoy.com</a> and request estimated position processing for given courses.



### Requirements for Enabling Predictive Mapping

- Estimated Finish Time Custom Question
  - a. Setup per event (i.e. course) that will provide predictive pace mapping.
- <u>IMPORTANT</u>: Start planning ahead now with your Race Directors and add question for next year!



RaceDay Scoring/RaceJoy Timing Integration

**Updated Training** 

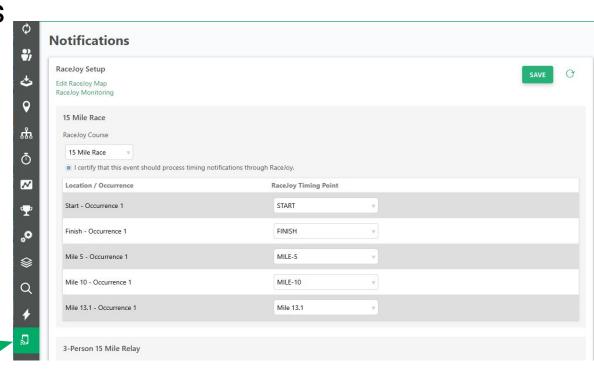






## RaceJoy Timing Alerts **Setup**

- Enable RaceJoy for your Event Courses
- Add Timing Points to the Course Map
- Setup Mapping of RJ Course
   Timing Points to RDS Timing
   Location-Occurrence in RDS for
   Streaming
- 4. Start Streaming



Notifications Area in RaceDay Scoring



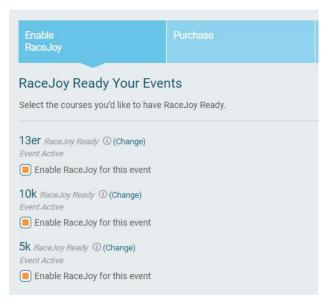
### RaceJoy **Enablement**

#### **Step 1:** Enable the Courses

- Requires RaceJoy Timer Certification
  - Activation is free if race uses RSU
     Registration, otherwise \$750 per event
  - No per-participant costs or fees to offer RaceJoy to your events
  - New revenue for your business

Contact <u>info@racejoy.com</u> to become RaceJoy Certified.









### RaceJoy **Enablement**

#### **Alternate Course Processing**

Build just one map for the different actual course(s) that participants traverse.

Course Name	Course Processing Type		Registration Event Name	Tracking Period	Certified	Course In Use
Half Marathon	Standard Course	~	Half Marathon	6/22/2024 7:00 AM - 6/22/2024 2:00 PM	Certified	Half Marathon
10K	Standard Course	~	10K	6/22/2024 7:30 AM - 6/22/2024 11:30 AM	Certified	10K
5K	Standard Course	~	5K	6/22/2024 7:30 AM - 6/22/2024 10:30 AM	Certified	5K
5K (Untimed)	Uses Alternate Course	~	5K (Untimed)	6/22/2024 7:30 AM - 6/22/2024 10:30 AM	Certified	5K
5K - Extended Online Registration	Uses Alternate Course	~	5K - Extended Online Registration	6/22/2024 7:30 AM - 6/22/2024 10:30 AM	Certified	5K
5K (Untimed) - Extended Online Registration	Uses Alternate Course	~	5K (Untimed) - Extended Online Registration	6/22/2024 7:30 AM - 6/22/2024 10:30 AM	Certified	5K
Half Marathon - Extended Online Registration	Uses Alternate Course	~	Half Marathon - Extended Online Registration	6/22/2024 7:00 AM - 6/22/2024 2:00 PM	Certified	Half Marathon

### RaceJoy Enablement

#### **Relay Course Processing**

- Relay Processing requires a different course for the exchange points and their associated timing configurations.
- We support Team Tracking and Team Alerts also based on CHIP Timing Data!

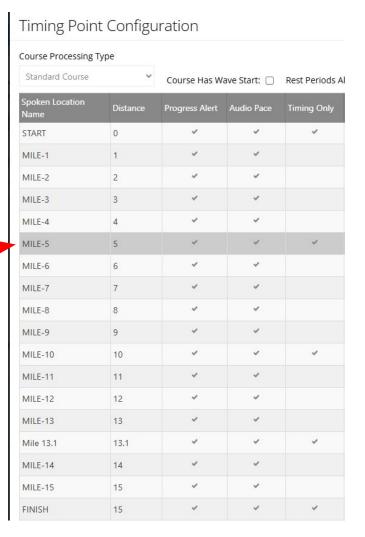


## RaceJoy Timing Points

Step 2: Timing Points on Course

If timing equipment is at / "near" official mile signage:

- Configure the timing point at MILE location.
- NO GPS point needed at that location.





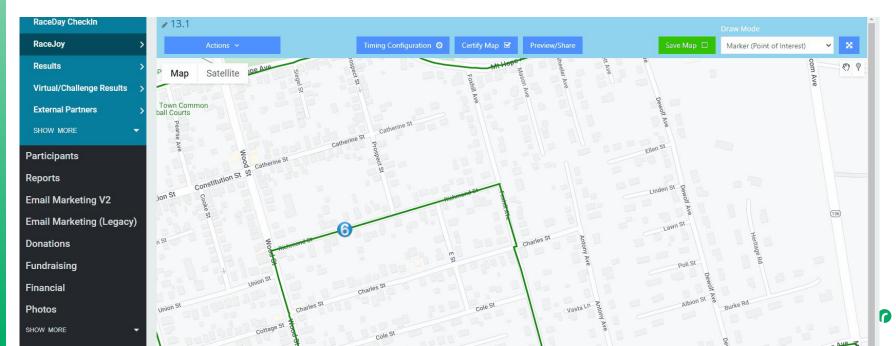


### ... RaceJoy **Timing Points**

Step 2: Add Additional Timing Points to Course

Use case where **location does not line up with MILE positions**:

- If **NOT** on a standard mile position, add additional timing markers.
- For extra timing locations: Use Add Marker Action, then Calculate Distance with Add To Timing Configuration Selected.

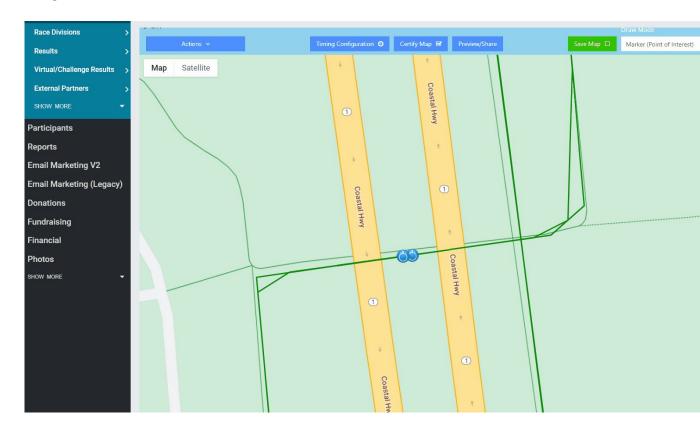


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### RaceJoy **Timing Points**

#### Step 2: Add Additional Timing Points to Course

- Add ALL Split Points with "distance" to Tracking Map.
- Example: Equipment at a given point provides TWO split points at different distances (i.e. Timing Location has multiple occurrences).

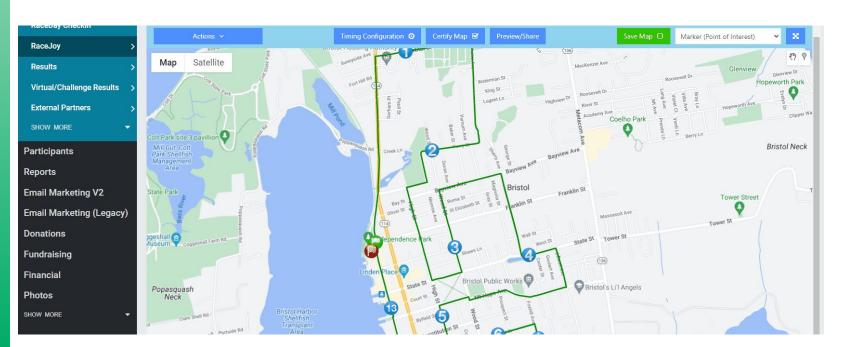


### \*\*\* RaceJoy **Timing Points**

Step 2: Add Additional Timing Points to Course

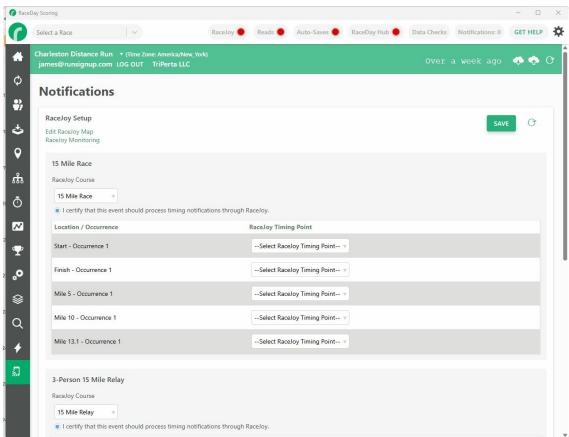
#### Complete the timing configuration:

- Set Timing Only **ON** for Equipment Locations
- Update the **Spoken Name** to be meaningful in the Push Notifications to Users



### RaceDay Scoring to RaceJoy Mapping

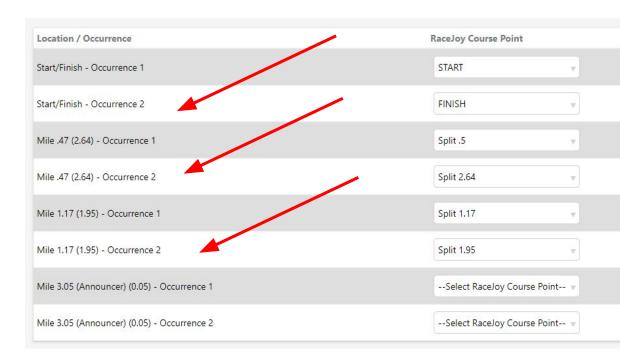
Step 3: Set Up Mapping of RaceJoy **Course Timing** Points to RaceDay **Scoring Timing** Location-Occurrence



### ••• RaceDay Scoring to RaceJoy Mapping

**Step 3:** Setup Mapping of RJ Course Timing Points to RDS Timing Location-Occurrence

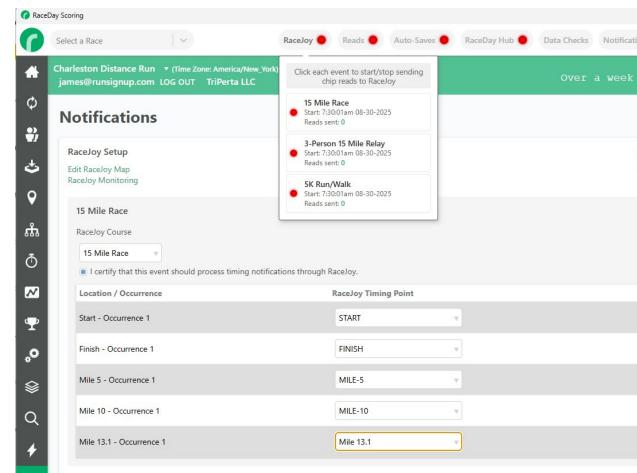
- The SAME RaceDay Scoring Timing Location could be mapped to different RaceJoy Timing Points:
  - Example: a 5K, 10K Split Point where participants cross the same timing mat multiple times for the 5K and then later 10K distance.
- Do not map extra points like announcer locations.
  - Not part of participant experience or added to tracking map.



Streaming Control

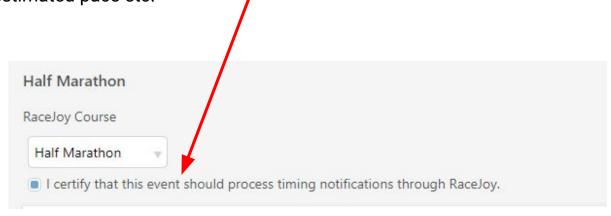
Step 4: Start Streaming

- Scored Event Actual Start is required in order for PASSINGS to flow to RaceJoy.
- Use GUNSHOT markers with equipment to achieve real-time accurate experiences.
- START RaceJoy Interface and we will stream when actual start time exists.



## Timer Controls RaceJoy Experience

- This certification step "switches" the RaceJoy experience to BIB Tracking experience.
- <u>IMPORTANT</u>: Setup at least a week prior to the event so participants see the timing integration features for BIB Tracking, estimated pace etc.

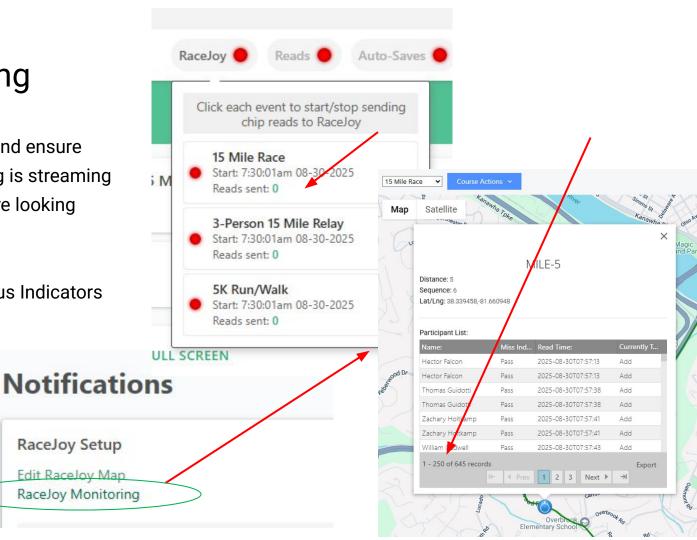


Predictive Pace

### **Timer Monitoring**

Multiple places to monitor and ensure real-time streaming/tracking is streaming for your event and counts are looking correct.

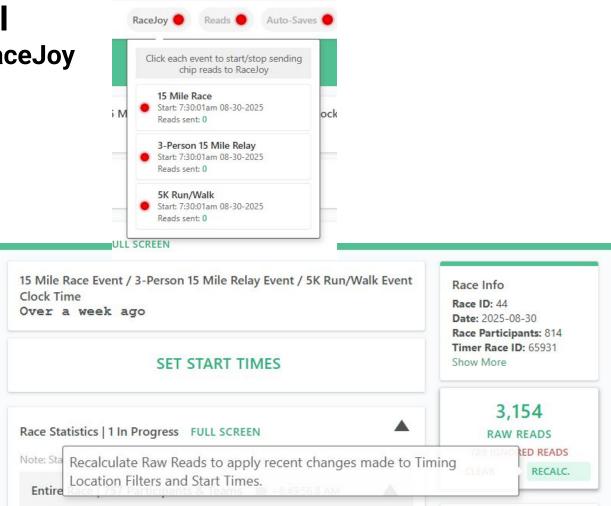
- RaceDay Scoring Status Indicators
- 2. RaceJoy Monitoring



Streaming ControlReplay Passings to RaceJoy

If you have setup / equipment issues and are not seeing something in RaceJoy

- 1. Stop and Start RaceJoy
- Then select RECALC to replay to RaceJoy



First Finisher Overall 888

Last Finisher Overall 888

## RaceJoy Bib Tracking Common Issues

- Start data comes late
  - Consider your 5 and 6 min/mi runners.
- Equipment is not streaming for real-time tracking
  - Cell Service Issues
  - Middleware Issues
  - Power Issues
  - Weather Issues (protection plans for water)

### REMEMBER THIS IS REAL-TIME!

- Time Sync Issues (GPS, Manually Set etc)
  - Recall passing data is what the equipment sent
- Course Path is not correct?
  - RECALL :: TWO Types of Participants
- Is OK to stream split data late/later?
- Resource Issues
  - Plan B if person does not know how to deal with equipment issues or unforeseen last minute location issues





# Thank You For **Providing RaceJoy!**

Support and questions: info@racejoy.com







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## Today's **Agenda**

Subtitle Goes Here

- Section Title for Topic Number One
- Section Title for Topic Number Two
- Section Title for Topic Number Three
- Section Title for Topic Number Four
- Section Title for Topic Number Five
- Section Title for Topic Number Six
- Section Title for Topic Number Seven





## Section Title Goes Here

Subtitle Goes Here

- Section Title for Topic Number One
- Section Title for Topic Number Two
- Section Title for Topic Number Three
- Section Title for Topic Number Four
- Section Title for Topic Number Five



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## Hear From **Our Customers**

**Jane Doe •** Job Title Goes Here Company Name Goes Here

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• • • Graphic Elements For Use

## Page Title **Goes Here**

Subtitle Goes Here

A couple of short sentences or bullet points about the displayed screenshot go here.

Limit the number of words for maximum retention.



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**Content Label** 

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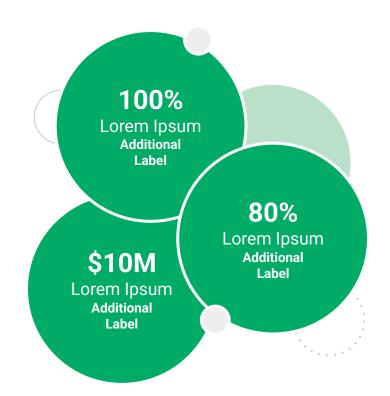
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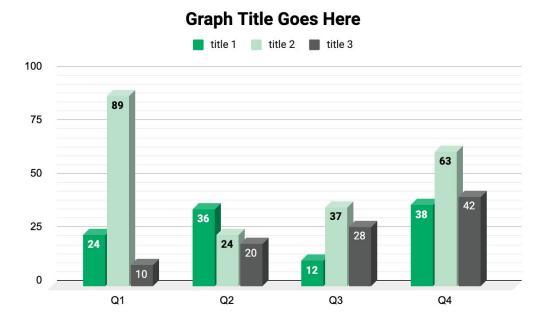
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## This layout is for use with two columns of text and no images or screenshots.

- This layout is best for content with short, bulleted list items
- Use as little text as possible
- Slides should be a visual aid to what you're saying

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# Graphic Elements For Use

Use these graphics to create your own layouts and add dynamic content to your pages

- New Logos
- Icons
- Stat Bubbles
- Basic Charts & Graphs
- Screenshot Photography
- Live Event Photography



## Main **Logos**





## RaceDay Suite **Logos**













### General Icons































































### RaceDay Icons

#### Generic



















































Users · Customers · People























#### **Endurance Events**

























































### RunSignup Icons

#### Generic





















































Users · Customers · People



























#### **Endurance Events**

































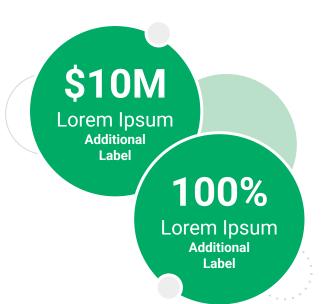


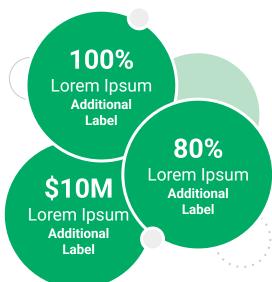




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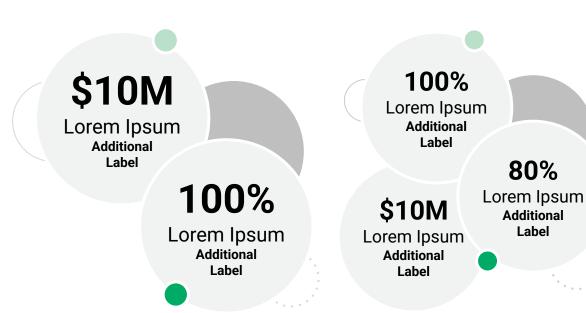




### Stat **Bubbles**

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### Stat **Bubbles**

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25.2%

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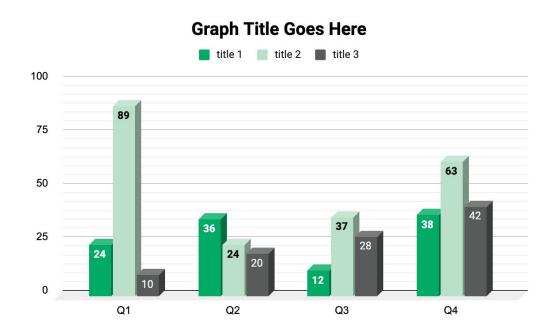
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## Basic Charts & Graphs

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# Screenshot **Photography**

Use this layout to showcase product screenshots for desktop

#### To insert an image:

- Click on the icon on the laptop
- Select "Upload from computer"
- Click through to where your image file is located on your computer, select the file, and hit enter.



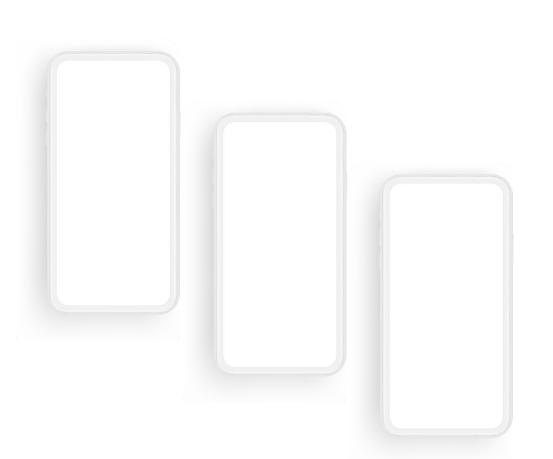
Graphic Elements For Use

## Screenshot **Photography**

Use this layout to showcase product screenshots for mobile

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- Click on the icon on the mobile device
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- Click through to where your image file is located on your computer, select the file, and hit enter.



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## Screenshot **Photography**

Use these devices to create your own layout(s)



## Live **Photography**



















