

Effective Year Round Athlete Monitoring Sport Science
 Purpose-Direction-Intent

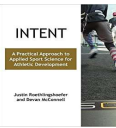
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 ANAHEIM DUCKS/SAN DIEGO GULLS
 AUTHOR OF INTENT

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POLAR **INTENT**

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Thank you

- Polar
- Anaheim ducks
- San diego gulls
- Umass Lowell riverhawks

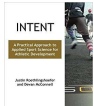
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Humboldt project




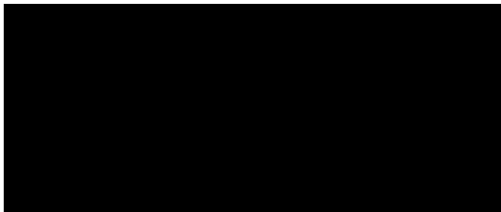
Sales from intent at the conference will go to the broncos family fundraiser



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Augmented Reality?


- How many of us can relate?



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The Joey Tribiani


- High HRV or low resting hr (best of the year)
- Low Force Plate Jump
- Faster speed assessment than week previous but not best of year
- average Subjective Questionnaire
- On point for projected weekly training load
- How do you make sense of it?



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Monitoring

- What is it?
 - Monitoring refers to the collection and analysis of various metrics, in order to better understand the "what" and the "why".
- What- what is actually occurring
- Why- why is that happening




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Analytics

- "...we mean the extensive use of data, statistical and quantitative analysis, explanatory and predictive models, and fact-based management to drive decisions and actions."
- Competing on Analytics




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Why do we monitor?


- To gain better insight
- To ask better questions
- To attack the 1%



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Gain Better Insight




Take the guesswork out of the equation

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Ask Better Questions

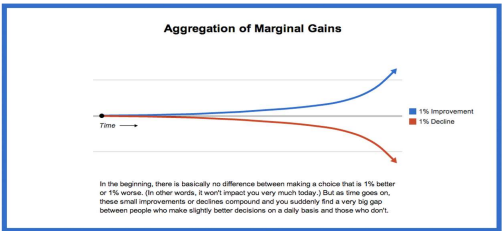
Originally I thought "data" would provide *the* answer



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Attacking the 1%



In the beginning, there is basically no difference between making a choice that is 1% better or 1% worse. (In other words, it won't impact you very much today.) But as time goes on, these small improvements or declines compound and you suddenly find a very big gap between people who make slightly better decisions on a daily basis and those who don't.

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Art vs. Science

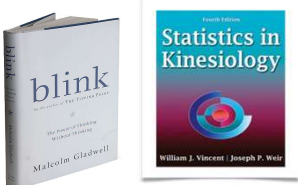


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Why Not Both?

- Data should add context to what the eyes see



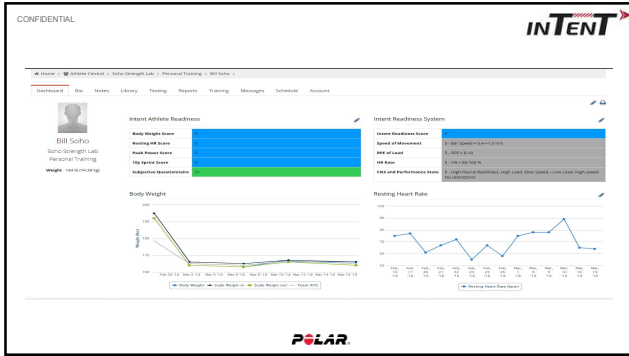
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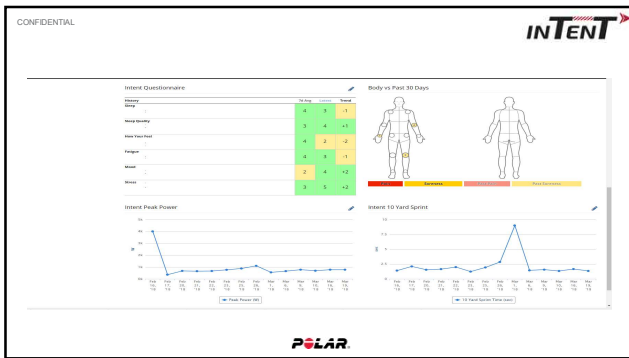
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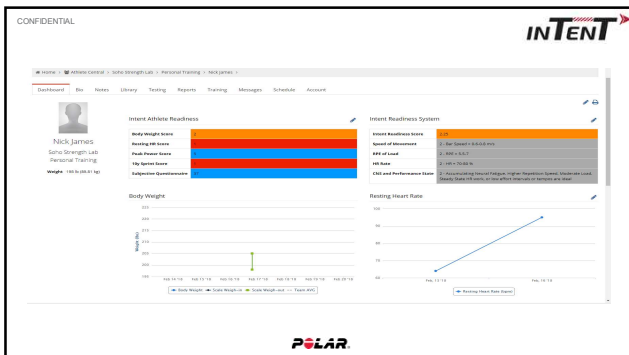
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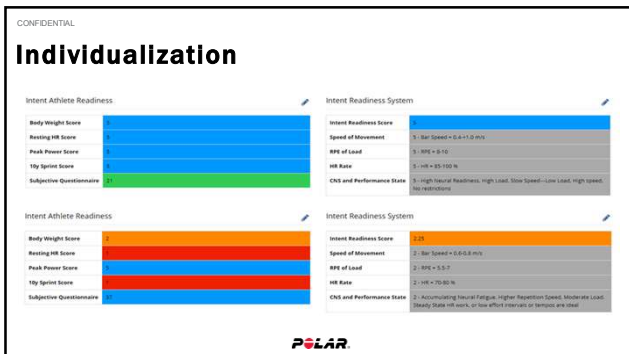


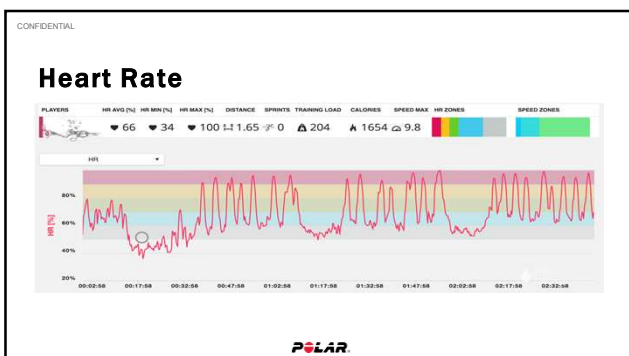
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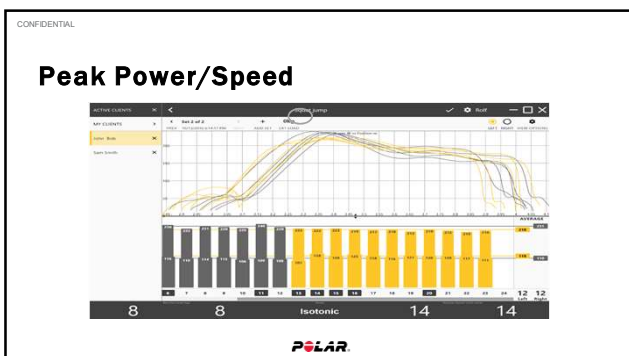


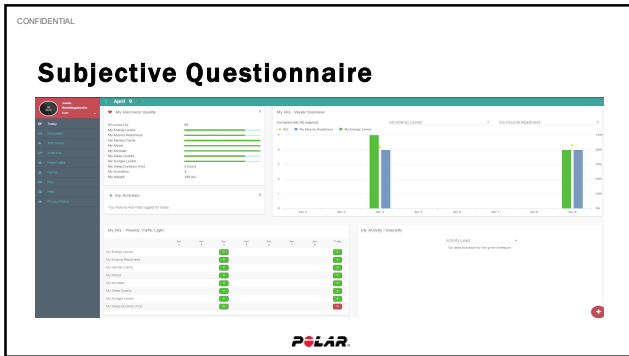


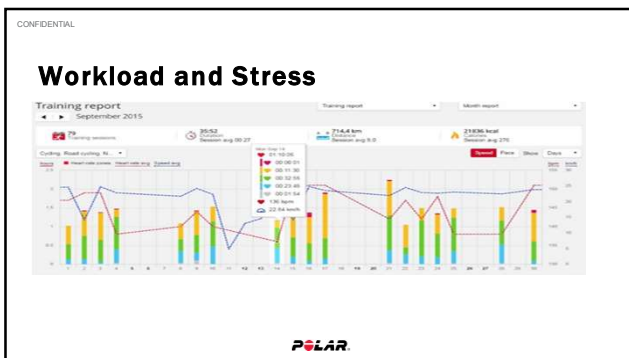


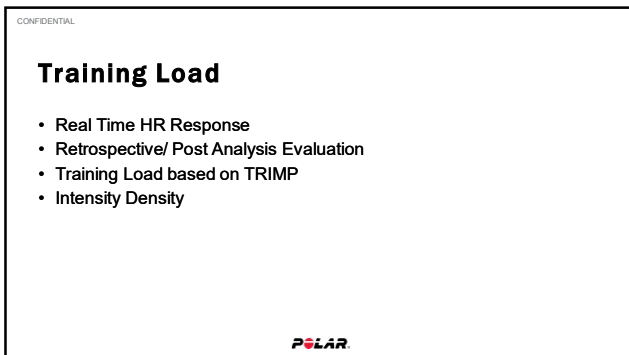


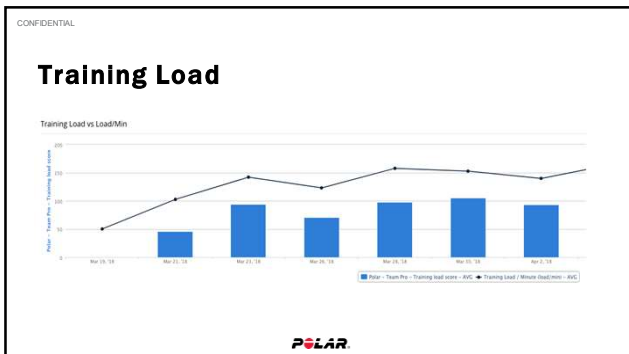


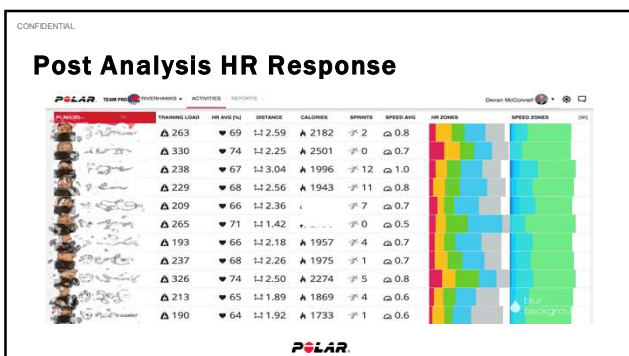


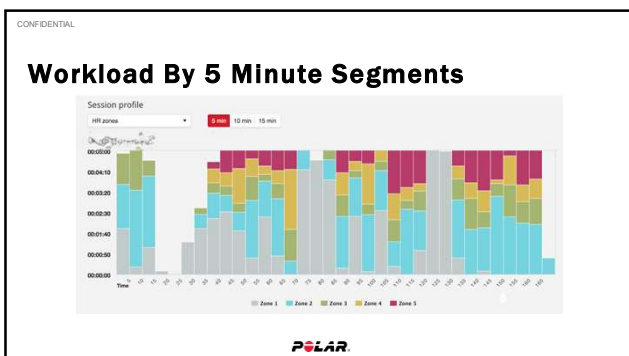


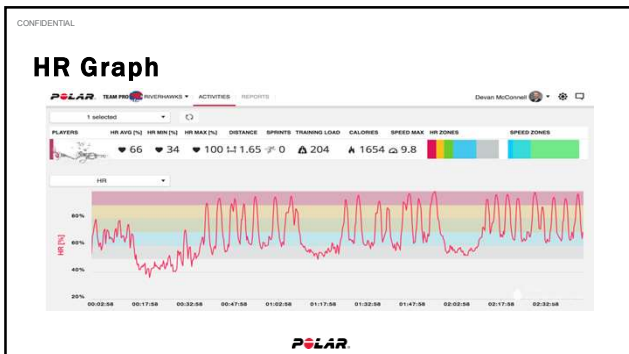


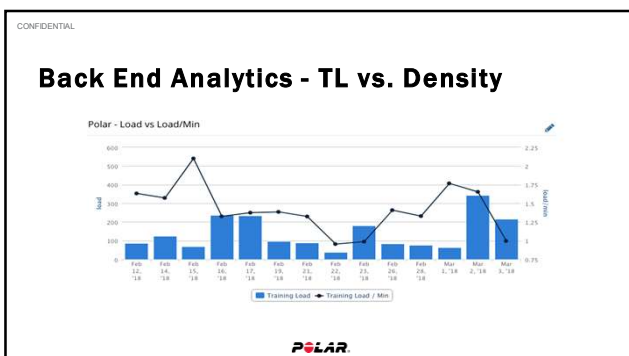


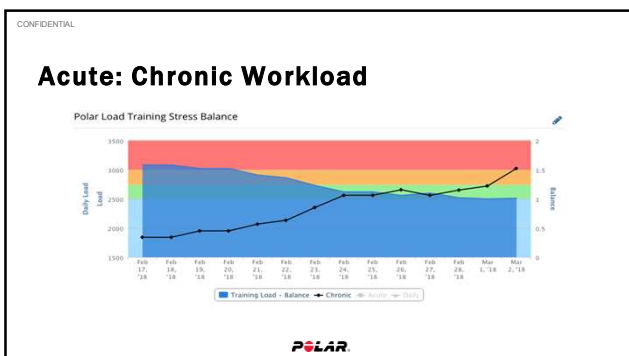













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How Does All This Data Fit Together?




- What does each metric tell us?
 - By themselves, nothing. Together, starts to shed light on questions
- Painting a broad picture, broad strokes
 - all of this information gives us an overview of the athlete

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Practical- The Use of Heart Rate Monitoring

- What are we doing with the data???
 - In Season
 - Off Season

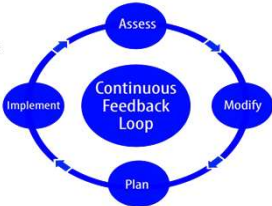


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In Season

- Monitor Training Load and Readiness
- Assess Results
- Provide Feedback




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Reporting to Staff

- Weekly Reports
 - Formal
 - Breakdown of the past, plan for the future
 - Informal
 - Conversation...influence thought process



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Weekly Reports

- Last week's numbers (and what does it mean)
 - » How intense were the games
 - » How were recovery numbers leading in
- Advice on set up of the next week

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How Does the Info Change The Program?


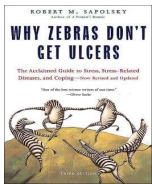
- Scheduling the week to win
 - Thresholds that led to better win%
 - Won more than **70%** of points available when correct thresholds met
 - Change how we "develop" players
 - What are we trying to develop??

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Physiologically Based Practices




- Stress is Stress
- Is Hard or Easy "Good"?
- High/Low Approach?



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Practical Example: Goalies

- Should be Alactic-Aerobic
- Should be most explosive
- How many of our goaltenders look like that?





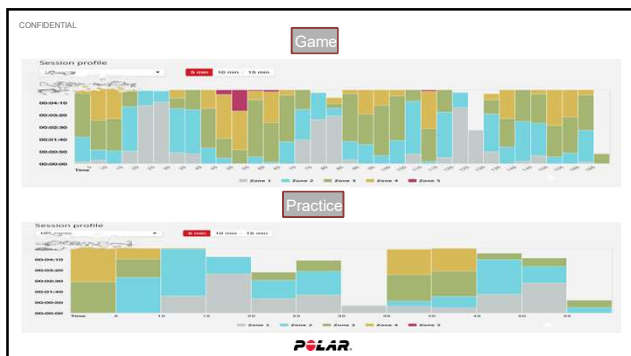
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Game



Practice





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Summer

- Players go home...how can you link what they do on their own with what they'd be doing at the facility in season?

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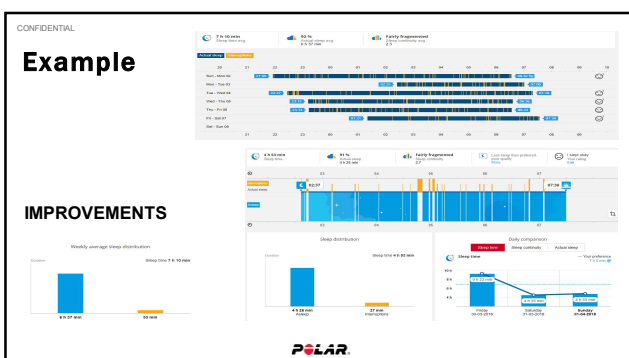
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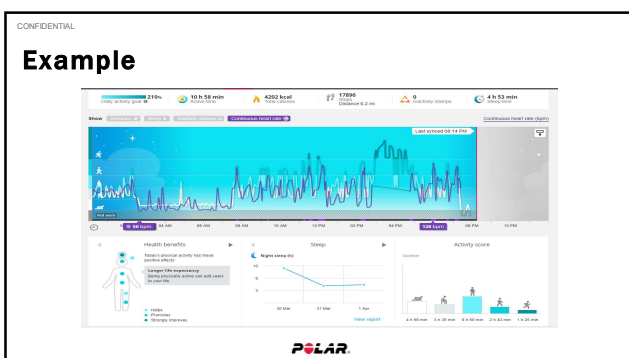
Goal

- Application of training protocols when someone is:
 - Away from the team facility
 - Home for the summer
 - On the road vs at home facility with you
 - How does it track everything in one spot?
 - Solution for identifying motivation and accountability
 - World of knowledge and understanding (players want to know and be educated)

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Example

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Takeaways

- Are you just collecting numbers?
- Are you using the info you collect?
- Are you building a culture where sport science is desired by the athlete/coach, or feared by the athlete/coach

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Thank you!!

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Humboldt Project



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PIONEER OF WEARABLE SPORTS TECHNOLOGY
