

# TRISHOW LONDON 2017: FASTER RUNNING

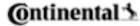
























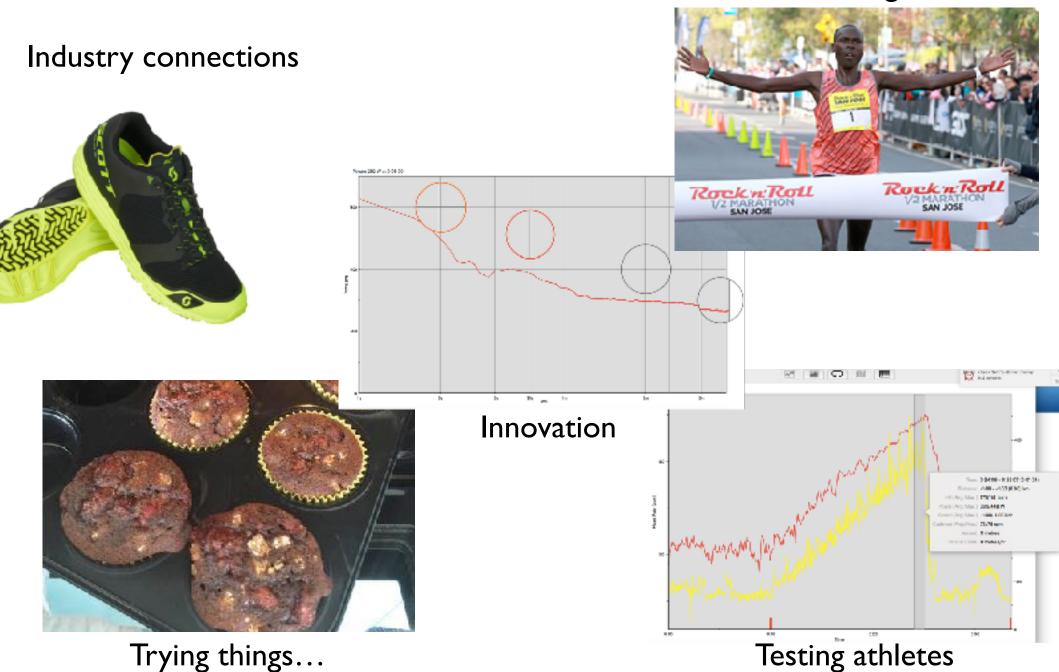






#### **HOW** have I learned?

Coaching, full-time



#### **HOW** have I learned?

Hunches...



Pro friends...



Reading...



...an awful lot of reading

Writing & talking "the walk

New technology



#### SWIM, BIKE... FOOT

Triathlon defines a speed "RUN" the other two are just "modes"

- (a) This means it is "okay" to do things that are not running in training.
- (b) You may never be technically "running" but still complete a triathlon.
- (c) You will slow more due to ageing in running than swim or bike

### Ist Rule of Smarter Training Base level must be 75-90% of time

Base level is 55-80% HRmax or in "low lactate" ZONE ONE predominates in all phases of the year:

Ironman Cozumel '13 winner "85% base training" (2013).

Olympic-distance UK National Squad ~70% below race pace (~2013).

Тор 10 Olympian - Swim 74% Bike 88% Run 85% in Zone One (2012).

### **BIGGEST BENEFIT?**

As you reduce the stress of Zone 2 and 3 accidental training your body will naturally lose weight, and you will therefore run faster still...

Finally feel 100% free from that cough, and was able to get out on bike this weekend for 2½ hours. So it was a 6½ hour week, 81% Zone 1, so happy. Weight also down to 13st, which is as low as it got last year during the main season and as low as it has been for a number of years.

### THE BIG MISTAKES

#### Going too hard to soon

All interval studies, Elite training plans and their diaries include time to get the muscles warmed-up. Too-hard, too-soon activates "stress" response: walk, easy jog then easy running...

#### • Calling low Zone 2 "base" training or steady

80%HRmax is the Zone I limit. Above is stressful "no-mans land" training - if you are meant to be there good, otherwise it truly is junk! You may have to walk hills and take longer. That's true base training.

#### Not doing sessions to a plan

It is your training so be in control of session plans, outcomes and future tweaks (route, time of day, training partners, equipment)

# 2nd Rule of Smarter Training Quality must be quantified

- Using planned High Intensity Training (HIT) works best
   Such as the proven 6 x 4' @ 88-90%HR (+RI of 2 4' walk jog)
   This is very potent therefore must be surrounded by pure ZI days
- Only do HIT when Low Intensity Training (LIT) is correct
   So Z2 "lapses of concentration" come out of your HIT allowance
   You should only do HIT if you are NOT injury prone/over-weight.
- Only add HIT if required for your goal

  For a beginner, those in "get-around" mode or coming back to training the top of ZI into Z2 to get "race-ready" (2-3 x 6') is hard enough to achieve race completion and enjoy training.

### And train hard... (Biwott 2017)

20 x 600m

1:40 repeats (6m/sec or 134mph)

200m 40-55sec recovery

but easy pace >7:00 & days off

### THE BIG MISTAKES

- Randomly doing an interval session or "block"
   Intervals cannot just be added to volume rises, competitions starting or when recovery or health is chronically affected.
- Doing an interval that is traditional yet unproven
   Several are erroneous: e.g. random fartlek; build of speed towards end of a group run; or a time trials to replace "boring" endurance.
- Failing to let adaptation take priority once work is done If Elites/Top AG only do I-2 RUN intervals per week how can you do more and add additional "racing" sessions and then properly adapt?

### 3rd Rule of Smarter Training Strength Training is essential

- Make time to keep strength/conditioning:
   Resistance training (machine, free weights, body weight) and
   Pilates/Plyometrics(?) NOT random circuit training
- Make things harder from late WINTER into PRECOMP:
  - e.g. Use heavier training shoes
  - e.g. Use short hills to develop power and style (e.g.  $10 \times 40$ m with easy jog down recovery)
  - e.g. Use DeepWaterRunning (DWR) to make the upper body work harder (whilst legs recover)
- Lighter-training weeks aid adaptation
   It makes an athlete gain from training not just have a great training diary but poor performance

### 4th Rule of Smarter Training Plan 3:1 Blocks of Training

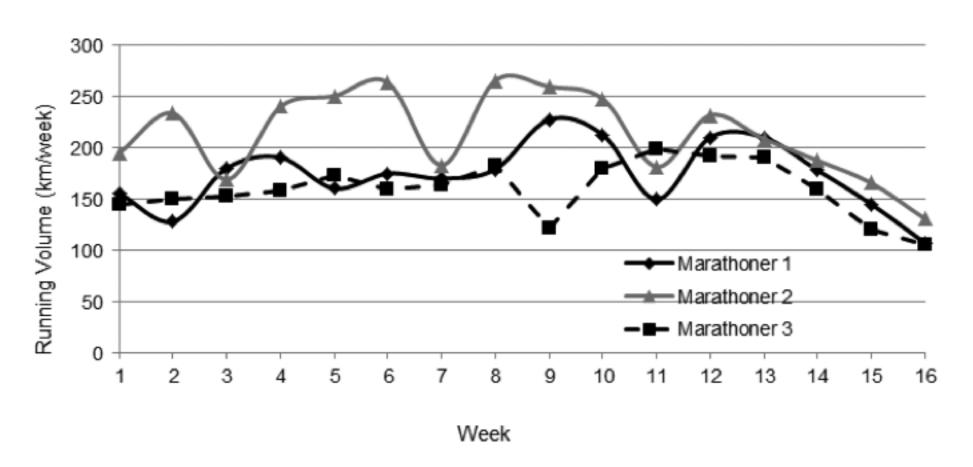
- Use technology (paper & pen) or computer to plan:
   e.g. 3: I weeks, lighter days (low ZI technique), transition training, non-training days, alternative sports in offseason
- Use realistic training volume (8hrs; 220 Reader Survey)
  - Don't get hooked on a number it will vary: 10,8, 12,6

    The training bank "builds" your fitness over time.

    It's all about ability, consistency and "ABSORBING"
- Don't go Over-The-Top after your season
   Less is gained Oct to Dec, more from Feb to April.
   Aim 60%-75% of volume you intend to peak "in-season"

### NEW EVIDENCE

Stellingwerff (2012) Elite marathoners training and practicing feeding. Note: 74% training was ZI; notice ebb & flow of volume  $\sim$ 3: I

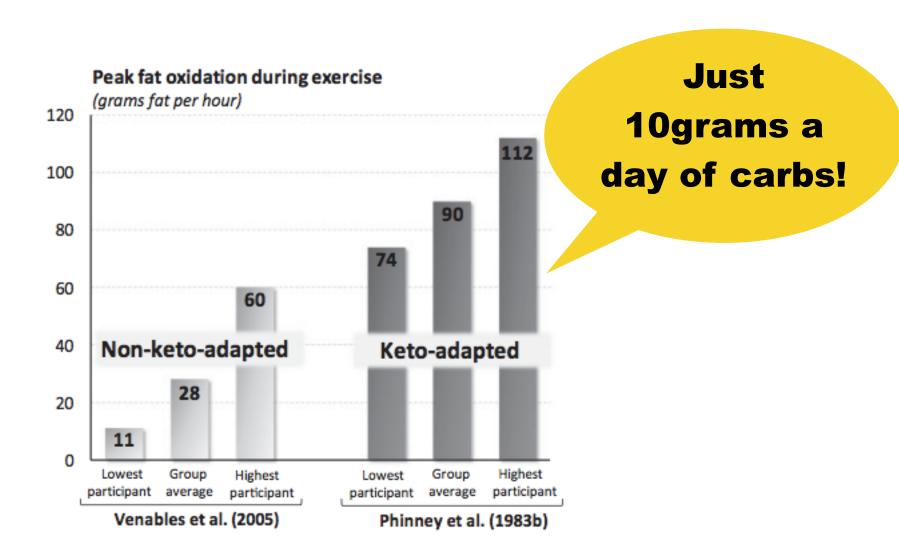


# 5th Rule of Smarter Training Nutrients can tweak genes/results

- Use carbs in training its the predominant fuel choice
   Some fasted run sessions help lean-burn ability but do
   compromise quality and the session must be controlled ZI
- Protein timing has been shown to help "adaptation" e.g. 100% whey shake (25-40g) soon after sessions and/or evening shakes add extra "easy" quality protein for gains.
- Assessment of nutrient status is vital
   e.g. blood profiling for Vitamin D, B12, Folate, Testosterone
   and others to ensure RBC, immune and health optimisation

### FAT BURN? NEW(?) EVIDENCE

Phinney (1983) Fat adapted athletes verses normal diet



### THE BIG MISTAKES

- Missing the basics of diet & sports nutrition Nothing is THE super food or pill. Carbs fuel, water hydrates, treats are treats, protein should be spread out, good fats are "essential"
- Random use of a supplement or super-nutrient
   Most effective results are using an effective dose for a specific time
   e.g. colostrum x 10g x 2 weeks or more = rebuilding/immunity
- Assuming you "are" fit and you "have a great diet" If you don't know your "nutrient status" how can you tell what you need? Try to get a blood profile to find your weak nutrient areas. e.g. 1990 Student (23): Hbn 13.3 ... 2015 Post Training Camp (47): 15.7

# 6th Rule of Smarter Training Nuture not Nuke your body

- Good Sleep is central to development It's all about ability, consistency and "ABSORBING" Elites 10-12h/day and Amateurs 50-hour minimum rule. Setting bodies daily pattern with use of light is very effective!
- Make daily wholefood nutrition a natural habit:

   e.g. slow release carbs, real-food proteins, quality fats
   Don't try to be perfect just remember YAWYEAD
   (You Are What You Eat And Drink)
- Body Work/flexibility must focus on your imbalances
   e.g. poor shoulder mobility, leg tightness or cramping. Finding the right expert that is your challenge

### WATCH FOR BIG MISTAKES

- Not doing the sessions on your plan and training randomly
- Using equipment based on a whim not on science/sense
- Ignoring the importance of strength & conditioning
- Too high vitamin C intake and/or random supplementation
- Seeing body work (e.g. massage) as "elitism"
- Not enough Zone One Training [55% 80% of max HR]
- Ignoring recovery tools (e.g. foam rollers, compression tights/ socks, DWR)

### **HUNCHES THAT WORKED**

- Training below 80% HRmax and using carb/caffeine products
- Getting weight optimised & very run pace "savvy"
- Quality race shoes for racing with water repellent "coating"
- Colostrum use on a regular basis in- and off-season
- (Pacing using bike power) To run better off the bike in "Tri"
- L-Carnitine supplementation for high-achievers
- Using blood data to tweak diet, supplements, training, lifestyle
- Using light devices such as Lumie & Human Charger
- Being consistent as a result of enjoying the here-and-now

### **TAKEAWAYS**

- Training <80%HRmax must be a key habit, see <a href="www.bit.ly/road2gold">www.bit.ly/road2gold</a>
- Hard work run sessions must be well planned/spaced
- Nutrition timing and type impacts performance gains significantly
- Bodymass/fat measuring technology is a serious but effective tool
- Injury prevention remains A-one priority (Bodywork!)
- Shoe choice, binning old shoes & course knowledge are essential
- Blood profiling and sleep are the new "super-hacks"

































# BANKTHE BASICS

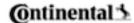




























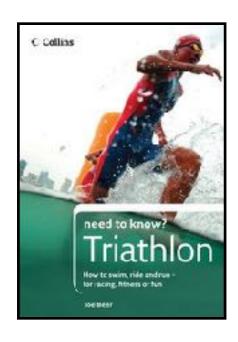


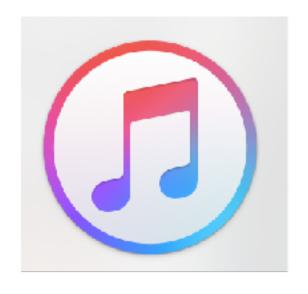
### BASICS are even more important

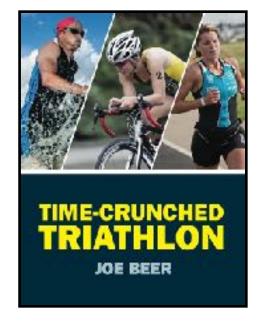
- Simple progression of training
- Good sleep patterns
- Multiple well-spaced & varied meals
- Body Work/flexibility
- Consistency & Refinement



Evidence-based Triathlon & Cycle coaching













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