

### Overview



- What is your Race Model
- What does it consist of
- Key Aspects
- Race Objectives Proforma
- Race Model examples and Analysis (Starts/Turns)
- Race Model examples and Analysis (Events)
- Effective communication/feedback
- Successful Outcomes

## What is Your Race Model



- When we analysis a race or create a race model we do it in 4 areas,
   Technical/Tactical/Physical and Mental
- All are interrelated if you are weak in one area it will have an effective on one or more of the other three areas
- Competition analysis provides feedback that can be utilised in training at a later stage to improve.
- Your race model is made up of both technical efficiency and fitness levels (aerobic conditioning/performance speed and pacing)
- Analysis of the race will highlight strength/weaknesses in these areas.
- You then develop strategies for improvement in training, this could mean regular testing under competition simulation to get things right for race day.

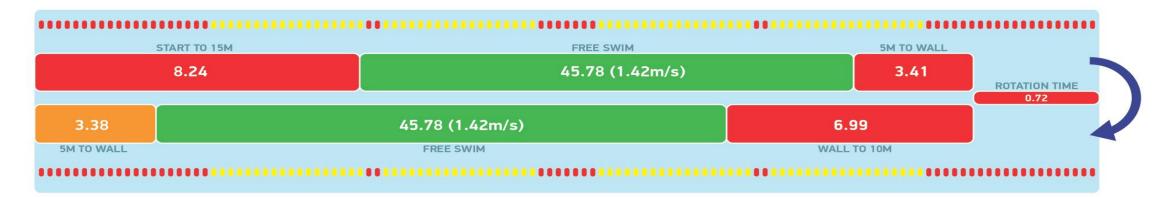
## What does the Race Model Consist of



- Start Through 15 metres
- Turns Through 15 metres
- Finish Final 5 metres Speed
- Race Splits/Percentages
- Distance Per Stroke (Variations)
- Stroke Rate
- Stroke Count
- Velocity Swim speed consistency
- Overall Efficiency.

#### RACE MODELLING

#### **SOPHIE TAYLOR**



#### THE PERFECT RACE



## **Key Aspects**



- **Technical** (Skill Levels/Efficiency) High efficiency being able to hold performance speed under pressure, maintaining SR/SC and DPS, have the ability to repeat the event 3 times heat semi final.
- **Tactical** Have the ability to perform the correct racing strategy based on training and prior competition experience. Use your strengths, address weaknesses, exploit opposition weaknesses.
- Physical use physical attributes, pre puberty lots of success due to biological development and size. Success at Youth/Senior level on 'process' approach and structured training in the formative years. Physical preparation is a major pre-requisite for skill development
- **Mental** –Psychological development, develop to cope with race day pressure, need motivation to succeed, success in training and competition will build self esteem, reinforcement of this instill a sense of success.
- Transition from age to youth to senior swimming- is psychological as well as physiological.

## **Key Aspects**



#### Analysis of race

• Follow the process of –Observe/analysis/evaluate/plan for the future/perform when it matters.

#### Areas for Improvement

Normally technical or tactical, you have to adapt to the race.

#### Follow up action

- Decide on aims/objectives, adopt smart realistic goals, plan into training, review in competition, readdress goals when successful
- Excellent communication and feedback are essential

# Race Objectives Pro Forma



- Enables the swimmer to stay focused in training
- Goals should be based upon aspects of skill/efficiency that have been practised in training.
- Focusing on the process will produce the desired outcome.



#### **Race Objectives**

| Name: |  |
|-------|--|
|       |  |



| Competition                   |                           |                           |                           | 5                         | Rate<br>= Grea |     |   |     | to 5<br>chieved |
|-------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------|-----|---|-----|-----------------|
| Event                         |                           |                           |                           |                           | н              | S-F | F | · ( | (Circle)        |
| Main Objective                |                           |                           |                           |                           | 1              | 2   | 3 | 4   | 5               |
| 2 <sup>nd</sup> Objective     |                           |                           |                           |                           | 1              | 2   | 3 | 4   | 5               |
| Split Emphasis<br>[Not times] | 1 <sup>st</sup> 25/50/100 | 2 <sup>nd</sup> 25/50/100 | 3 <sup>rd</sup> 25/50/100 | 4 <sup>th</sup> 25/50/100 |                |     |   |     |                 |
| Issues to work on             |                           |                           |                           |                           | 1              | 2   | 3 | 4   | 5               |

| Competition                |  | 5 =                         | Rate<br>= Grea |     |   |      | to 5<br>chieved |
|----------------------------|--|-----------------------------|----------------|-----|---|------|-----------------|
| Event                      |  |                             | Н              | S-F | F | ` (( | Circle)         |
| Main Objective             |  |                             | 1              | 2   | 3 | 4    | 5               |
| 2 <sup>nd</sup> Objective  |  |                             | 1              | 2   | 3 | 4    | 5               |
| Split Emphasis [Not times] | $\frac{1^{\text{st}} \ 25/50/100}{2^{\text{nd}} \ 25/50/100} \qquad \frac{3^{\text{rd}} \ 25/50/100}{2^{\text{nd}} \ 25/50/100}$ | 2 4 <sup>th</sup> 25/50/100 |                |     |   |      |                 |
| Issues to work on          | LUL urnice   |                             | 1              | 2   | 3 | 4    | 5               |

F P Furniss



# Race Model Examples Starts/Turns/Events

## Starts - Example



#### **Daniel Gyurta 200 B/S Olympic Gold 2012**

Reaction Block 0.68

Break (S) 05.30

Break (M) 12.90

15Mts time 06.52

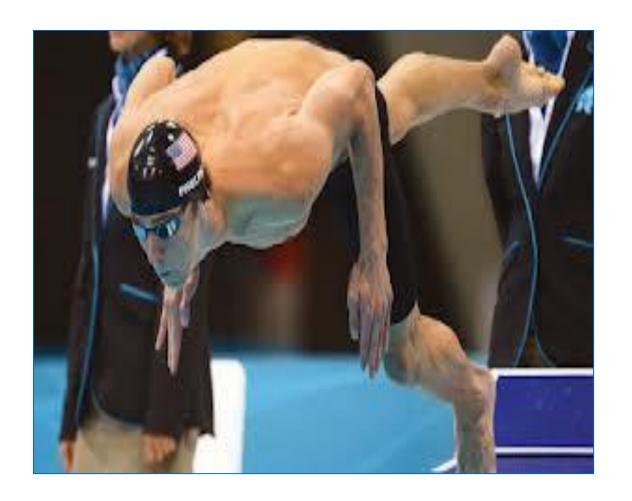
#### Rebecca Soni 200 B/S Olympic Gold 2012

Reaction Block 0.70

Break (S) 05.42

Break (M) 11.47

15Mts time 7.90



## Turns - Example



Underwater phase consistency

e.g. 2014 European LC Champ Radoslaw Kawecki

7.1/7.1/7.2 to 15m off his 3 turns

13.3/13.5/13.9m off his 3 turns (consistency!)

Rotation time (-0.7)



## Turns - comparison



#### British Swimmer vs Alison Schmitt (Breakout 6.1 vs 6.82Mts)

#### Start

| Block | Entry              | Entry (m) | Break              | Break (m) | 15 m               |
|-------|--------------------|-----------|--------------------|-----------|--------------------|
| 0.69  | 00:00.96<br>(0.27) |           | 00:05.12<br>(4.16) |           | 00:06.20<br>(1.08) |

#### **Turn**

|         | In (s) | Rotate | U/W (s) | Break (m) | Out (m) | Out (s) | Total (s) |
|---------|--------|--------|---------|-----------|---------|---------|-----------|
| 50      | 3.24   | 1.52   | 2.58    | 6.33      | 10      | 4.76    | 8.00      |
| 100     | 3.47   | 1.48   | 2.62    | 6.24      | 10      | 4.91    | 8.38      |
| 150     | 3.36   | 1.44   | 2.30    | 5.74      | 10      | 5.02    | 8.38      |
| Average | 3.36   | 1.48   | 2.50    | 6.10      |         | 4.90    | 8.25      |

#### Allison Schmitt 2012 Olympic Games 200 m Freestyle Final

#### Start

| Block | Entry              | Entry (m) | Break              | Break (m) | 15 m               |
|-------|--------------------|-----------|--------------------|-----------|--------------------|
| 0.68  | 00:01.02<br>(0.34) |           | 00:04.28<br>(3.26) | 10.97     | 00:06.54<br>(2.26) |

#### **Turn**

|         | 5 m  | Rotate | U/W (s) | Break (m) | 10 m | Total |
|---------|------|--------|---------|-----------|------|-------|
| 50      | 3.22 | 1.52   | 3.06    | 7.31      | 4.62 | 7.84  |
| 100     | 3.26 | 1.26   | 2.58    | 6.51      | 4.66 | 7.92  |
| 150     | 3.27 | 1.29   | 2.71    | 6.64      | 4.79 | 8.06  |
| Average | 3.25 | 1.36   | 2.78    | 6.82      | 4.69 | 7.94  |



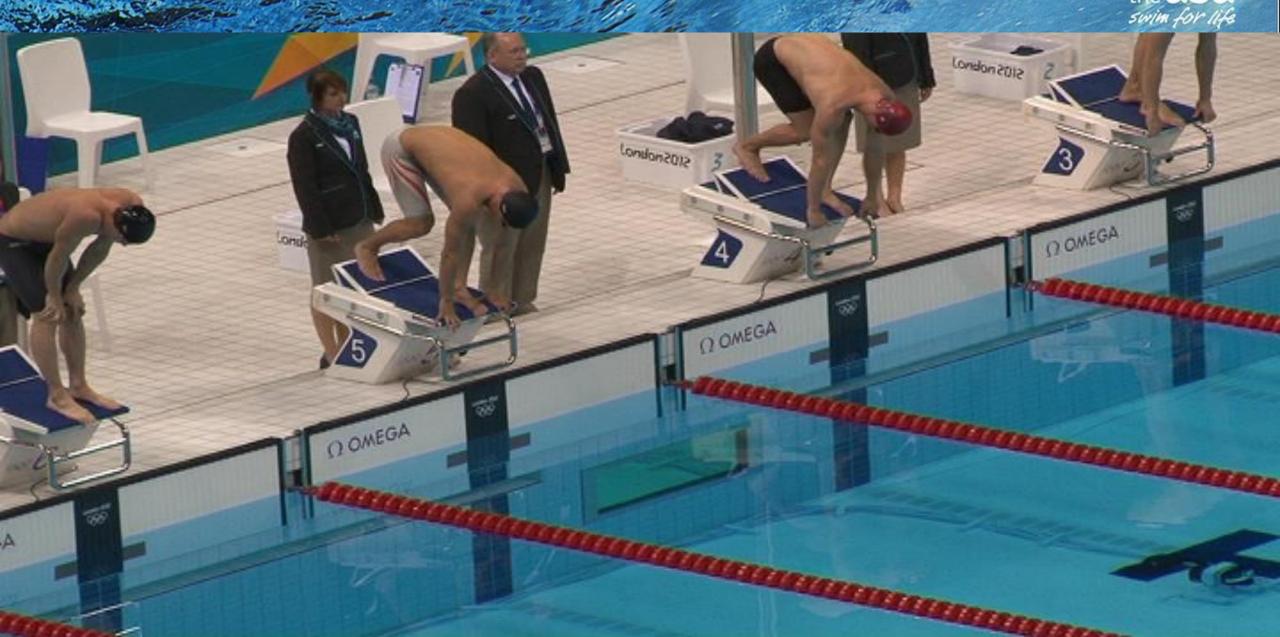
# Race Model Analysis events

# Alison Schmidt 200 Free Final London 2012 the asa 2012

| 200 Free Swim | Split   | Vel      | SR      | DPS  | Count |
|---------------|---------|----------|---------|------|-------|
| 0-25          | 12.30   | 1.74     | 45.5    | 2.29 |       |
| 25-50         | 27.18   | 1.72     | 44.2    | 2.33 | 32    |
| 50-75         | 40.36   | 1.75     | 43.4    | 2.42 |       |
| 75-100        | 55.38   | 1.70     | 43.6    | 2.34 | 35    |
| 100-125       | 1.8.98  | 1.68     | 43.9    | 2.29 |       |
| 125-150       | 1.24.35 | 1.65     | 44.2    | 2.25 | 37    |
| 150-175       | 1.38.28 | 1.64     | 43.8    | 2.25 |       |
| 175-200       | 1.53.60 | 1.61     | 43.4    | 2.22 | 39    |
|               |         |          |         |      |       |
| Average       |         | 1.69 F.P | .F44i.6 | 2.30 |       |

## Daniel Guyrta 200 Breast Final London 2012





| LAP       |                |                          |         |
|-----------|----------------|--------------------------|---------|
|           |                | TIME                     | PERCENT |
| 50 METRE  | 1              | 29.19                    | 22.9    |
|           | 2              | 32.17                    | 25.4    |
|           | 3              | 32.60                    | 25.6    |
|           | 4              | 33.12                    | 26.0    |
| 100 METRE | 0-100          | 1.01.56                  | 48.4    |
|           | 100-200 F.P.Fu | rn <mark>1</mark> 5.5.72 | 51.6    |

| Event 200 B/S |         |                     |             |      |     |
|---------------|---------|---------------------|-------------|------|-----|
|               | SPLIT   | VEL                 | S/R         | DPS  | s/c |
| 0-25          | 13.24   | 1.53                | 40.8        | 2.26 |     |
| 25-50         | 29.19   | 1.56                | 37.7        | 2.48 | 15  |
| 50-75         | 44.78   | 1.48                | 35.0        | 2.53 |     |
| 75-100        | 1.01.78 | 1.51                | 34.7        | 2.62 | 15  |
| 100-125       | 1.17.18 | 1.46                | 41.5        | 2.12 |     |
| 125-150       | 1.34.16 | 1.48                | 41.4        | 2.14 | 18  |
| 150-175       | 1.50.06 | 1.44                | 46.8        | 1.85 |     |
| 175-200       | 2.07.28 | 1.45                | 49.3        | 1.77 | 22  |
| AVERAGE       |         | <b>1.49</b> F.P.Fui | <b>40.9</b> | 2.22 |     |

| BLOCK   | ENTRY | ENTRY (M) | BREAK   | BREAK (M) | 15 MT |
|---------|-------|-----------|---------|-----------|-------|
| 0.68    | 0.96  |           | 5.30    | 12.90     | 6.52  |
| TURN    | 5 MT  | ROTATE    | U/W (S) | BREAK (M) | 10 MT |
| 50      | 3.29  | 0.48      | 5.34    | 10.59     | 5.43  |
| 100     | 3.56  | 0.54      | 4.88    | 10.04     | 5.38  |
| 150     | 3.44  | 0.50      | 4.88    | 9.83      | 5.50  |
| AVERAGE | 3.43  | 0.51      | 5.03    | 10.15     | 5.44  |
| FINISH  |       |           |         |           |       |
| 5 MT    | 3.46  | F.P.Fu    | ırniss  |           |       |

## Effective Communication/Feedback



- The poorest coaching feedback is often provided following the achievement of a successful outcome!
- Important to allow the swimmer time to reflect upon their own performance (during swim down)
- Encourage swimmers to feed back to you first do they know what went well/ not well?
- Consider using race footage (ipad) what else do they notice?
- Coach Evaluation was there anything that the swimmer was not aware of?

# Successful Outcomes



#### Base discussion/feedback around the following areas:

- Start
- Free Swimming
- Turns
- Finish
- Technique
- Efficiency
- Tactics
- General conclusions

# Finally



- Manage people
- Get the best out of them
- Take them to places they didn't think possible.



# Questions