2024 COACHING **Conference**

SATURDAY 23RD NOVEMBER CROKE PARK

COACHING FOR THE FUTURE

PEIL na









2024 COACHING Conference

Introduction

Des Ryan

BASES (HPSA), UKSCA (ASCC) & CSci

(Director of Sport & Physical Wellbeing in the University of Galway)





Spórt

Prof lan Jeffreys

PhD, CSCS,*D, NSCA-CPT,*D, RSCC*E, FNSCA

(National Strength & Conditioning Association







2024 COACHING Conference

<u>Des Ryan</u>-

- Sports Science Framework.
- Athletic Development Action Statement
- Public Facing Ath. Dev. Action Statement.
- Community of Practice Event.
- F3 Youth Athletic Development Level 1.

lan Jeffreys –

Module insight Gamespeed











Update

• Cavan 1952



THE BAMDEIE ASSOBIATION An Cumann Camógalochta



By Conmdt. John J. O'Reilly.

Byery player should consider it an honour to play for his native county; a particular honour to play for such a football county as Cavan. "Non the individual adopts this attitude of mind, he will nore easily appreciate the inportance of giving of his best in all matches. In order to do this he must beep himself physically fit.

The basic qualities for football fitness are strength, speed, staring and skill. There is little need for commenting on the quality of strength as it is a normal attribute of those who play football. However, I would point cut that in addition to strong legs, strong abdominal muscles are inportant as an assurance against hard knocks. Some players are very proud of their 14 or 15 stone avoirdupois forgetting all the time that strength is measured in terms of muscular power and certainly not bulk of muscle.

speed is undoubtedly a great asset, but in football the quick start is really not important. The player, who, immediately the ball is kicked to him, knows where it is going to land and can "get off" quickly, will get to the ball first even though his opponent might beat him in a longer sprint. Speed is improved by practising 30 yards bursts "all out", by concentrating on the game and by relaxing the muscles when the play is out of your area.

In the game of football where there is so much body clashing and hard knocks, staina is of vital importance. Not only does it entail strength and fitness of body, but also strength of heart and lungs. It is built up by any form of endurance training, by regular and adequate sleep, regular meals, and moderation in the use of drink. The "will to win", the ability to "stick it" and play harder when extreme fatigue is urging him to relax his efforts is something which every player should possess and should cultivate during his training.

Great strength, speed and standma will nover bring complete success until the player has developed a style which produces the maximum economy of offert. "Correct practice makes perfect". If a skill is practised wrongly, the fault becomes automatic. Practice normally consists of kicking the ball around the geal-mouth, a system that genorally results in players getting injured. Instead the young player should perfect his kick, and his actoh unopposed, and later in competition, he can learn how to tackle, block-down a kick, atoich having his own kick blocked down, and observe that it is wiser to use the gate rather than try to make a holo through the wall. It is rather amazing to note the number of first-class footballers who can kick a ball with one foct, and the equally large number who regard taking free kicks the privilage of the chosen few. Practice will overcome these two deficiencies.

Training improves the co-ordination of muscles, eliminates wasteful movements, diminishes the oxygen demand and involves less expenditure of energy.

If graded exercise is taken every day, the load of work can be gradually increased until what was an exhausting load at first can be easily and comfortably carried. This is the vital part of the process of "getting fit", its maintenance comes under the heading of "keeping fit".

A study of champions reveals that though they employ different ways to get to the top they all have one thing in common - they train hard. The secret of success is hard work. Club and county player must remember this, and train for every match. Such training to have good results must extend over a period of three weeks instead of the usual last minute rush in the week just before the match. Training can also be done without a football, as sprinting, running and other games are also excellent for getting fit.

Some people say, "take up football to get fit". I say, "get fit before taking up football".



GAELIC GAMES PLAYER PATHWAY

THE GAELIC GAMES PLAYER PATHWAY & SPORTS SCIENCE 2030 Vision







Working Group



Aoife Lane, centre, with, from left, Phil Kearney, Kate Kirby, Des Ryan, Eamon O'Reilly, Denise Martin, Niall Moyna and Sharon Madigan during the Gaelic Games Sports Science Launch at Croke Park in Dublin. Photo by David Fitzgerald/Sportsfile.









THE GAELIC GAMES PLAYER Pathway & Sports Science 2030 Vision









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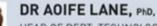


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	GAELIC GAMES				ATHLETIC DEVELOPMENT
PLAYER P/ATHW/AY		F3 / YOUTH			Workload Principles: Be aware of the players total workload, across all sessions. This could include
		WHAT?	WHO?	HOW?	what the player is doing with the club/ school/county and any other sports/ activities and organisations they may
	ATHLETIC Development	 Homebased sessions/warm ups/athletic development sessions focusing on movement, technique, speed and strength. Integrated Conditioning. Introduce Planning and Periodisation. Basic readiness and workload monitoring with clear follow-up process. Nov-March: 2-3 integrated/AD units, 3 week on/1 week off. April-Sept: 1-2 integrated/AD units, 3 weeks on/1 week off. Assessments - Standardised Fitness Tests & Player Profiles. Review RAE, Review Maturation Blas. 	Club Coaches and Club AD Coach with AD Coach Level 1 (F3 Youth) or equivalent.	Coach Development - AD Coach F3 Youth Level 1. Additional online/face to face resources and education.	 be involved with. Provide guidance and support to players who are over trained and under trained. Be aware of spikes in the players workloads. This can increase their risk of injury. Taper the players workload in the lead into important games as this may help optimise performance.
	NUTRITION	 Awareness and knowledge of how to nurture the benefits of physical activity through sport to health, specific to males and females. 	C ents/guardians, te lithy Club Officers.	Coach D trand Parent/ Guardia Linking ised partners g education support pappropriate education ace to face.	 5. Avoid*: Completing two high intensity activities in the one day. Playing two full games within 60 hours. Completing high intensity activities
	SPORT PSYCHOLOGY	Wellbeing, coping and relationship building skills. Intro to 5Cs: Confidence, Commitment, Communication, Control, Concentration.	Coaches, Healthy Club Officer.	Coaches/In Club Expertise.	on two consecutive days. 6. Encourage windows and opportunities for unstructured free play activities
	PERFORMANCE ANALYSIS	 Support the development of reflective player who can understand basic feedback to enhance technical and game sense abilities. 	Coaches.	 Intro to PA module, PA Guide for Practice. 	during the players week.7. Encourage a minimum of one day off from structured activity per week.
	PHYSIOTHERAPY & Rehabilitation	 Education: Osgood Schlatters, Severs Disease, Growth plate injuries, Growth & Maturation. Load management across different sports. First aid support. 	 Coaches, parents/guardians and players. 	 Coach Development and Parent/ Guardian and Player Education. 	 Help players to understand these workload principles and encourage them to communicate with the coach.
	SKILL ACQUISITION	 Support the development of a reflective player who can apply basic feedback to enhance their skilled performance. Understand the basics of effective practice, both within and outside of organized sessions. 	Coaches.	 Coach Development A Coach Developer, Mentor, Coach, or Skill Acquisition Specialist may also facilitate individual mentoring or a Community of Practice. 	 9. Encourage involvement in a variety of activities/sports. As the player gets older, the number of activities will decrease. Coaches should work together to manage activity across different sports/ teams using these workload principles.



Outputs













1.Gaelic Games Athletic Development Action Statement.



GAELIC GAMES ACTION STATEMENT SPEED AND AGILITY TRAINING



Long-term athletic development of Gaelic games players: an action statement

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ACTION STATEMENT

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OVERVIEW

For long term athlete development to have its greatest impact it must be as widely accessible as possible and only when implemented in clubs, scholes, colleges and counties can this be achieved. This requires the development of an overarching structure to facilitate the integration of LTAD into the structures of all deliverers of Gaelic games. The goal of this 'Action Statement' is to present an evidence-based reference point, based on core principles, to guide the practice of coaches and key stakeholders who support the development of players at every stage of the GAA player pathway.



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07



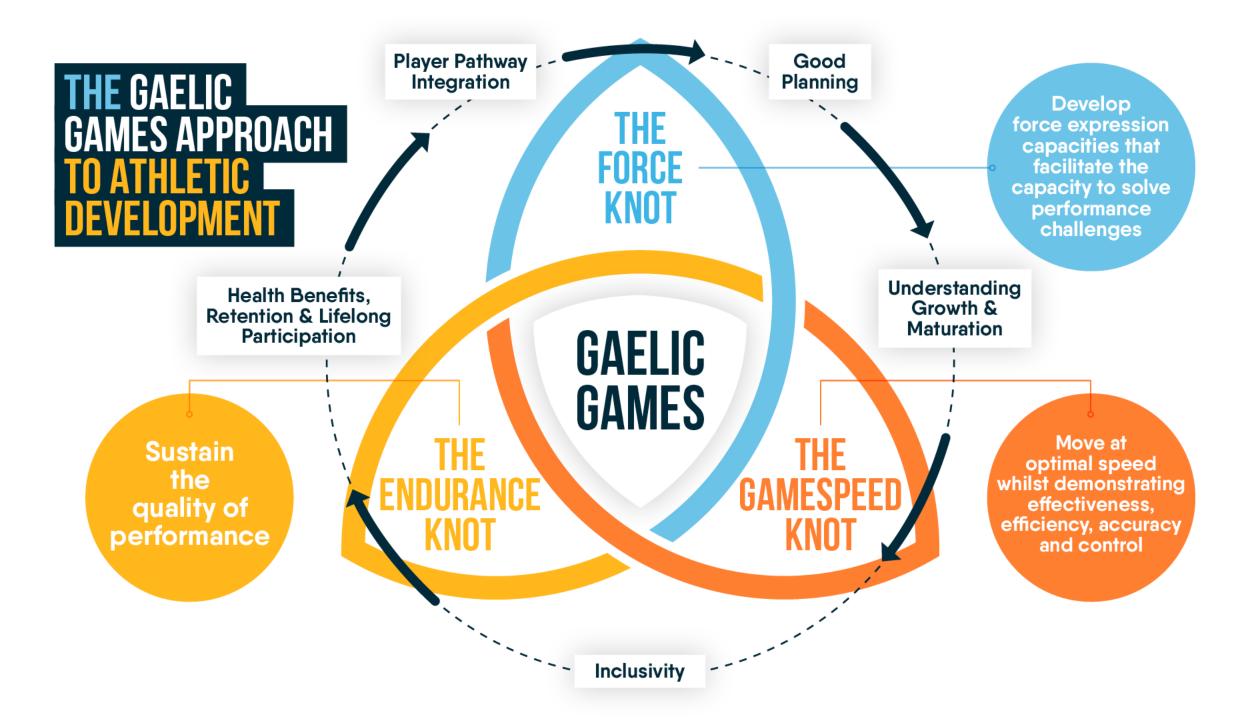


1.Gaelic Games Athletic Development Action Statement.













2. Public Facing Article

sAthletic Development for Gaelic Games:

A Guide for Players, Coaches, Parents/Guardians and Practitioners

Contents

Introduction						
What is Athletic Development?						
What are the Benefits of Athletic Development for Gaelic Games?						
What is th	e Gaelic Games Approach to Athletic Development?	4				
Force Knot Continuum						
Games	Gamespeed Knot Continuum					
Endura	ndurance Knot Continuum					
Ξ	Player Pathway and Coach Pathway Integration:					
≘	Good Planning:	8				
Ξ	Understanding Growth and Maturation:	8				
E	Health Benefits:	8				
Ŧ	Retention and Lifelong Participation:	9				
•	Inclusivity:	9				
Plannin	g	9				
Und	Understanding Session Intensity Subjective Workload					
Read	diness to Train					
PON	IS Questionnaire					
How can coaches follow up and reduce risk in relation to issues highlighted through workload monitoring?						
Athletic Development Technology and Applications						
Frequently Asked Questions						
What are the most appropriate fitness assessments to carry out on players in Gaelic Games?						
How ca	n you do movement screening?					
What is Relative Age Effect and Biological Maturation?						
Biolo	ogical age:					
Chro	onological age:					
Mat	uration:					
Grov	vth:					
Relative age effect:						
Biological Maturation Bias:						
What a	re some simple approaches to readiness and workload monitoring?					











OACH OACH THWAY 3. Gaelic Games Athletic Development F3 Youth Level 1.

- 1. Louise Keane (Camogie Association)
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- 3. Aidan O'Connell (Cork GAA)
- 4. Eoin McNicholl (Ulster GAA)
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- 8. Des Ryan (Galway GAA)





GAELIC GAMES









HWAY 3. Gaelic Games Athletic Development F3 Youth Level 1.



















GAELIC GAMES PLAYER PATHWAY

Gaelic Games F3 Youth Athletic Development Level 1

Online & Face to Face Course







3. Gaelic Games Athletic Development F3 Youth Level 1. (Online Modules)

(15min)

(30min)

(30min)

(30min)

(30min)

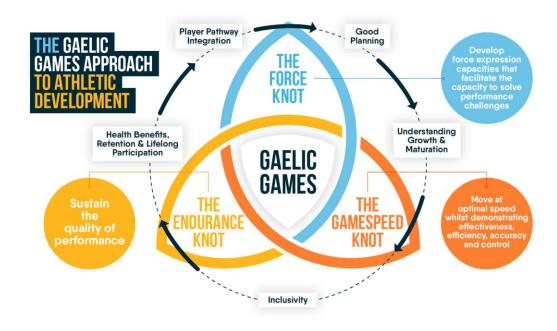
(30min)

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(30min)

Introduction Module. Warm Up Module Force Module. Gamespeed Module. Endurance Module. Planning Module. Growth & Maturation Module. Health Benefits, Retention, Lifelong Participation and inclusivity Module.

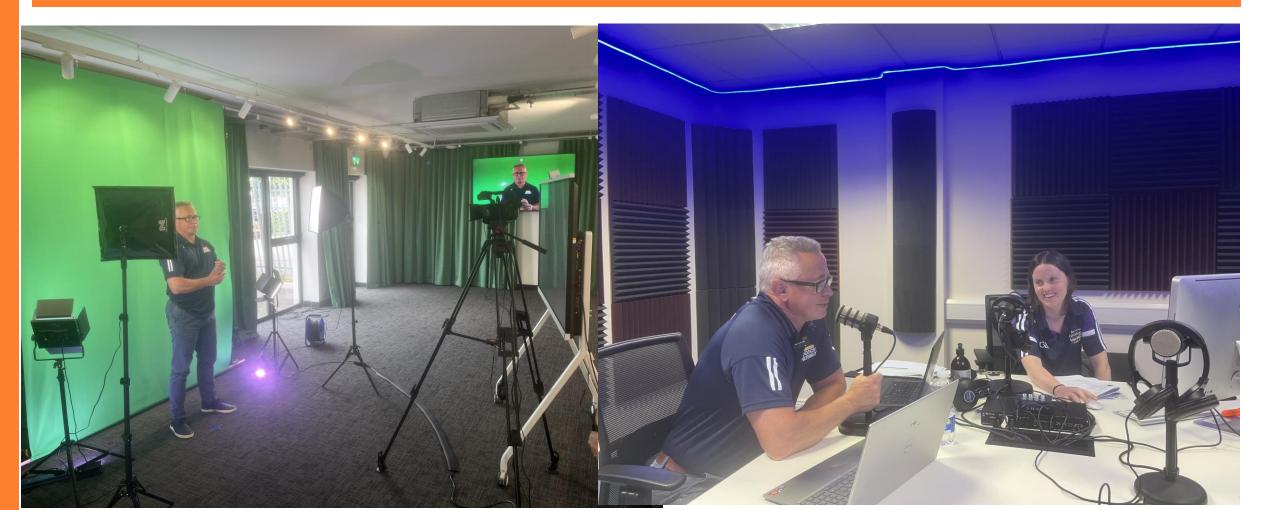
Note – There are Coaching skills and tips in every module.







3. Gaelic Games Athletic Development F3 Youth Level 1. (Online Modules)



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WARM UP MODU

F3 Youth Athletic Development Level 1









AIM

The aim of this module is to -



WARMUP

Explain Warm up and why we need to implement it.



BENEFITS

Explain the benefits of Warm Ups.



HOW

Provide practical ways to how we deliver a Warm Up.



INFORMATION

Provide information on the Gaelic 15 Warm Up.



COACHING POINTS

Suggest Adapted ways of delivering the Gaelic 15 Warm up.



BE READY TO PLAY

Sign Post the season long Be Ready to Play Programme





FORCE MODULE

F3 Youth Athletic Development Level 1 Course.

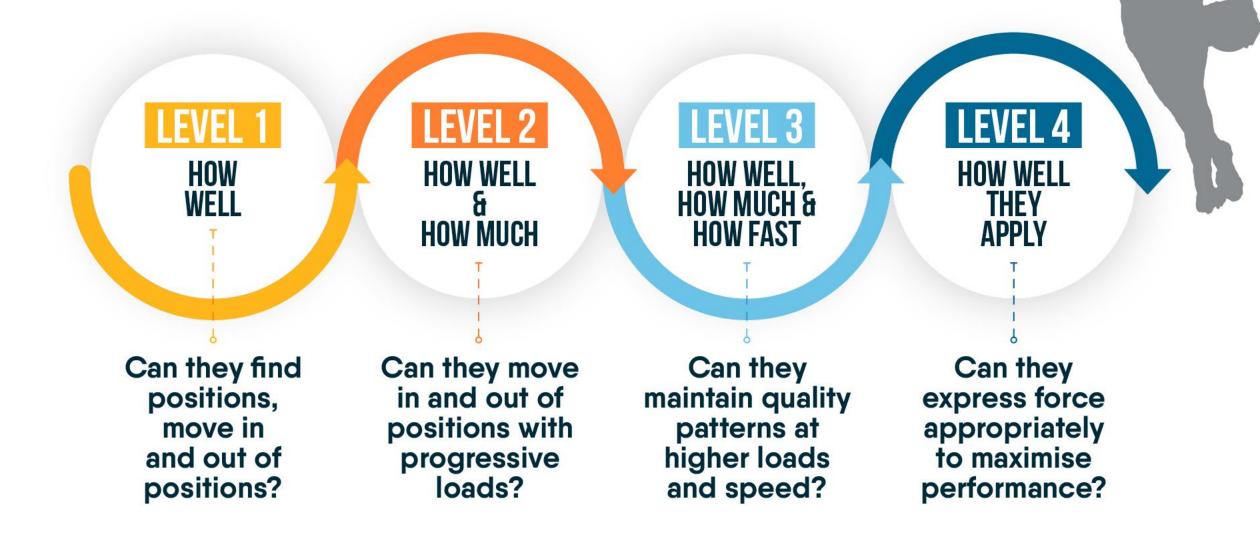






COACH

THE FORCE KNOT CONTINUUM









3. Gaelic Games Athletic Development F3 Youth Level 1. (Force Module Examples)









GAMESPEED MODU

Masira

MYCTO

F3 Youth Athletic Development Level 1 Course

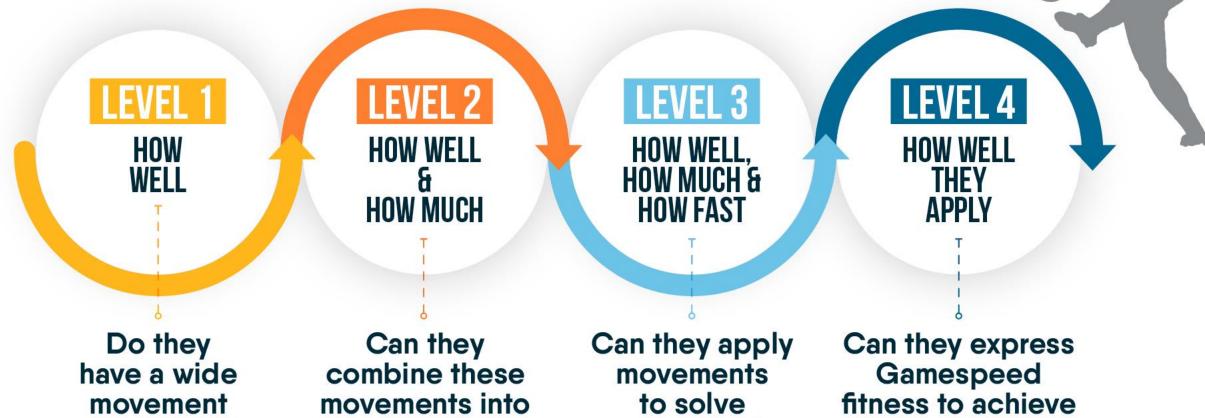






COACH

THE GAMESPEED KNOT CONTINUUM



vocabulary?

sports generic actions?

contextual challenges? optimal levels of performance?





3. Gaelic Games Athletic Development F3 Youth Level 1. (Gamespeed Module Examples)









ENDURANCE MOD

F3 Youth Athletic Development Level 1 Cours





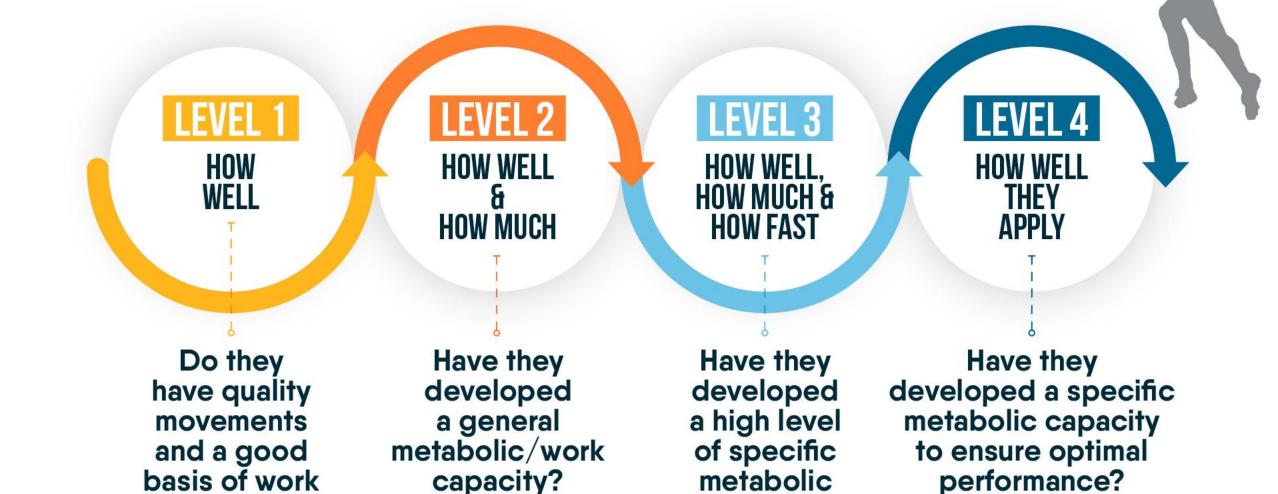
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PATHON

THE ENDURANCE KNOT CONTINUUM

capacity?

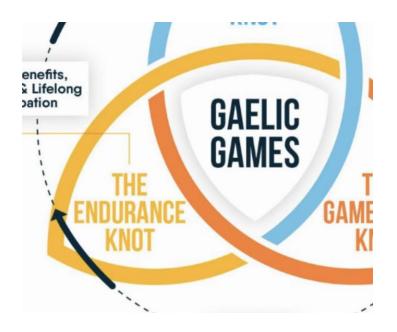


capacity?





3. Gaelic Games Athletic Development F3 Youth Level 1. (Endurance Module Examples)







THE R. P. LEWIS

1-11

2

15





F3 Youth Athletic Development Level 1 Co.







States:

THE PRINCIPLES OF PLANNING

ATHLETIC DEVELOPMENT Workload Principles:



Be aware of the players total workload, not just what they do with yourself. This could include what the player is doing with the club/school/county and any other sports/activities and organisations they may be involved with.



Provide guidance and support to players who are over trained and under trained.



Be aware of spikes in the players workloads. This can increase the risk of injury.



Taper the players workload in the lead into important games as this may help optimise performance.



Completing two high intensity

60 hours.



Encourage a minimum of one day off from structured activity per week.

activities in the one day.

on two consecutive days.

Playing two full games within

Help players to understand these workload principles and encourage them to communicate with the coach.

Completing high intensity activities



Encourage involvement in a variety of activities/sports. As the player gets older, the number of activities will decrease. Coaches should work together to manage activity across different sports/teams using these workload priciples.



Encourage a minimum of 1 rest day from structured training per week.

Total hours of organised sports (training, practicing, competition, etc.) per week should be less than or equal to a child's age in years.



Encourage windows and opportunities for unstructured free play activities during the players week.



guidance for players aged 11 and below







UNDERSTANDING GRO' MATURATION MODU/ F3 Youth Athletic Development Level 1 Course.







CONCH

GROWTH AND MATURATION - Definitions

Growth

5

Development

Gab

Maturation

Status

Timing

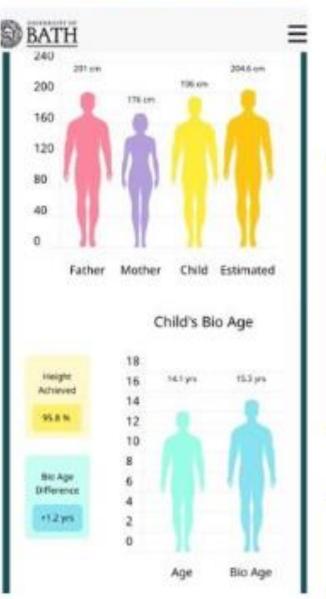
Tempo

KHAMIS-ROCHE METHOD – University of Bath Widget

Results

36

- The player is biologically 15.3 yrs so I would not worry if he played an age up.
- The player is going to be very tall (204.6cm) so I will take this into consideration in relation to what positions he plays.
- The player is exiting his pubertal growth spurt so I am less worried about growth related injuries.
- The player had a number of injuries over the last two years. If I look back I will assume there is a link to a high rate of growth and a lack of workload management.. Now I know he is exiting the growth spurt potentially I am more confident of progressing the athletic development programme and his workload.



×

≽

204.6cm

Bio Age

= 15.3

years,

+1.2 yrs

Adult

height.

Go to

Website

> 95.8%



HEALTH BENEF RETENTION A PARTICIPATIC

F3 Youth Athletic Development L







COACH



HEALTH BENEFITS, RETENTION AND PARTICIPATION MODULE







Dr Kevin Gavin, ATU





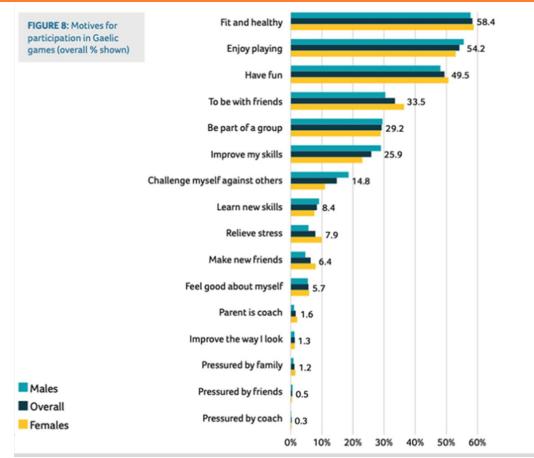


Dr Fiona McHale, UL



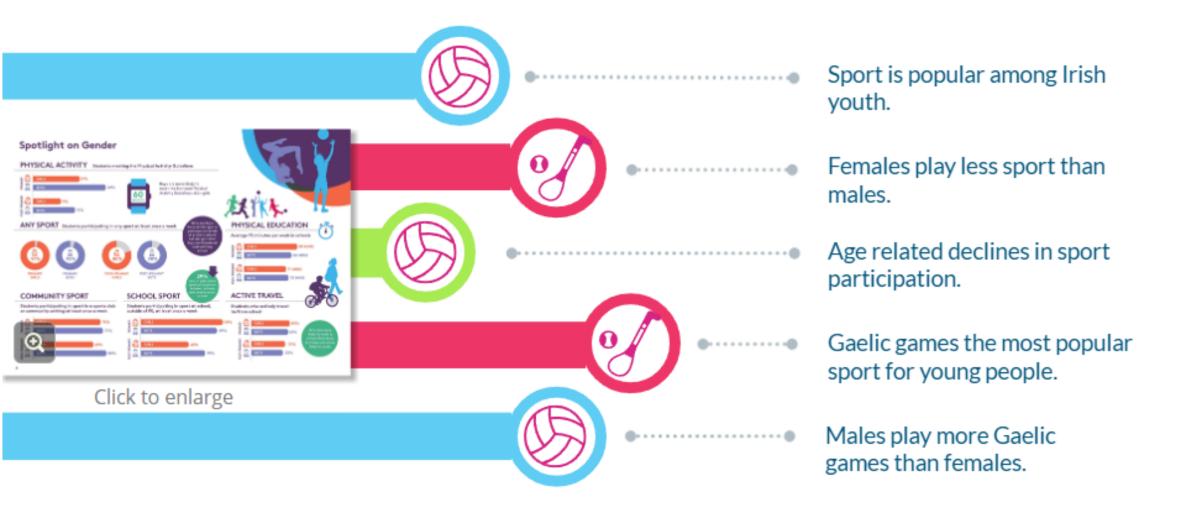


3. Gaelic Games Athletic Development F3 Youth Level 1. (Health Benefits, Retention & Lifelong Participation Module Examples)





Children's Sport Participation and Physical Activity Report 2022







3. Gaelic Games Athletic Development F3 Youth Level 1. (Online Modules)

(15min)

(30min)

(30min)

(30min)

(30min)

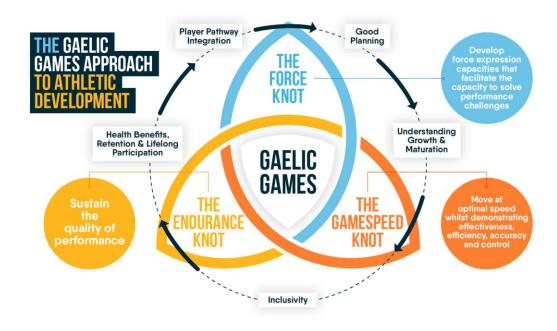
(30min)

(30min)

(30min)

Introduction Module. Warm Up Module Force Module. Gamespeed Module. Endurance Module. Planning Module. Growth & Maturation Module. Health Benefits, Retention, Lifelong Participation and inclusivity Module.

Note – There are Coaching skills and tips in every module.







WAY 3. Gaelic Games Athletic Development F3 Youth Level 1.

Face to Face

Workshop.













3. Gaelic Games Athletic Development F3 Youth Level 1. (Face to Face Modules)

Introduction Module.

Warm Up Module

Force Module.

Gamespeed Module.

Endurance Module.

Planning Module.

Growth & Maturation Module.

Theory – 10min

Practical – 70min

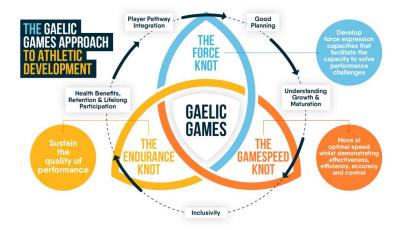
Practical – 70min

Practical – 70min

Practical – 70min

Theory/practical - 30min

Theory/practical - 30min



LHealth Benefits, Retention, Lifelong Participation and inclusivity Module.

Theory – 10min

Feedback Section

10min



AD Level 1 (F3 Youth) Practical Upskilling









3. Gaelic Games Athletic Development F3 Youth Level 1.

Role Out –

- Coach Developer induction 31/10/24.
- Launch Course 23/11/24
- Deliver 4 Pilots (End Nov Early Dec).
 - (Meath, Cork, Galway & Wexford)
- Online Pilot December.
- Roll Out January 2025.













4. Community of Practice









5. Resourses



- Gaelic Games Sports Science Framework.
- Long-term athletic development of Gaelic Games Players: An Action Statement.
- Public Facing Athletic Development Action Statement.
- Gaelic Games Athletic Development F3 Youth Level 1 Course.
- Be Ready to Play
- GAA 15
- Camogie Association Jump Evolution
- Coach Development Pathway.
- Tobar. Gaelic Games Learning



















GAELIC GAMES PLAYER PATHWAY

Gaelic Games F3 Youth Athletic Development Level 1

Online & Face to Face Course









- 2. Cliodhna O'Connor (GAA)
- 3. Aidan O'Connell (Cork GAA)
- 4. Eoin McNicholl (Ulster GAA)
- 5. Paul Divilly GDA (Kildare GAA)
- 6. Daniel Forde (Connacht GAA)
- 7. Jason McGahan (Kerry GAA)
- 8. Des Ryan (Galway GAA)









GAELIC GAMES





2024 COACHING Conference

Introduction

Prof lan Jeffreys

PhD, CSCS,*D, NSCA-CPT,*D, RSCC*E, FNSCA

(National Strength & Conditioning Association







THIRD EDITION GANESPEE

> Movement Trai for Superior Spo Performance

IAN JEFFREYS

COACHES CHOICE 🔳

THE GAMESPEED KNOT

Building players with high levels of adaptable speed and agility

Ian Jeffreys

PhD, ASCC, FNSCA, FUKSCA, CSCS*D,NSCA-CPT*D, RSCC*E



TODAY

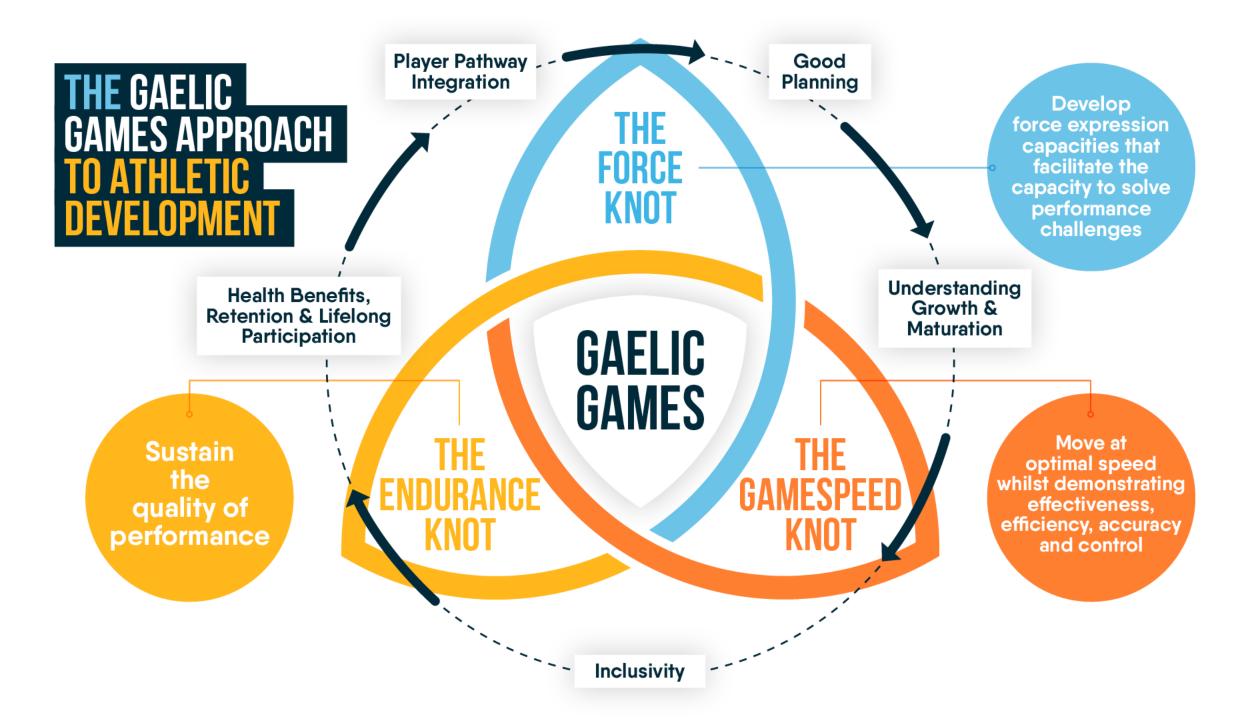
To outline **WHY** the

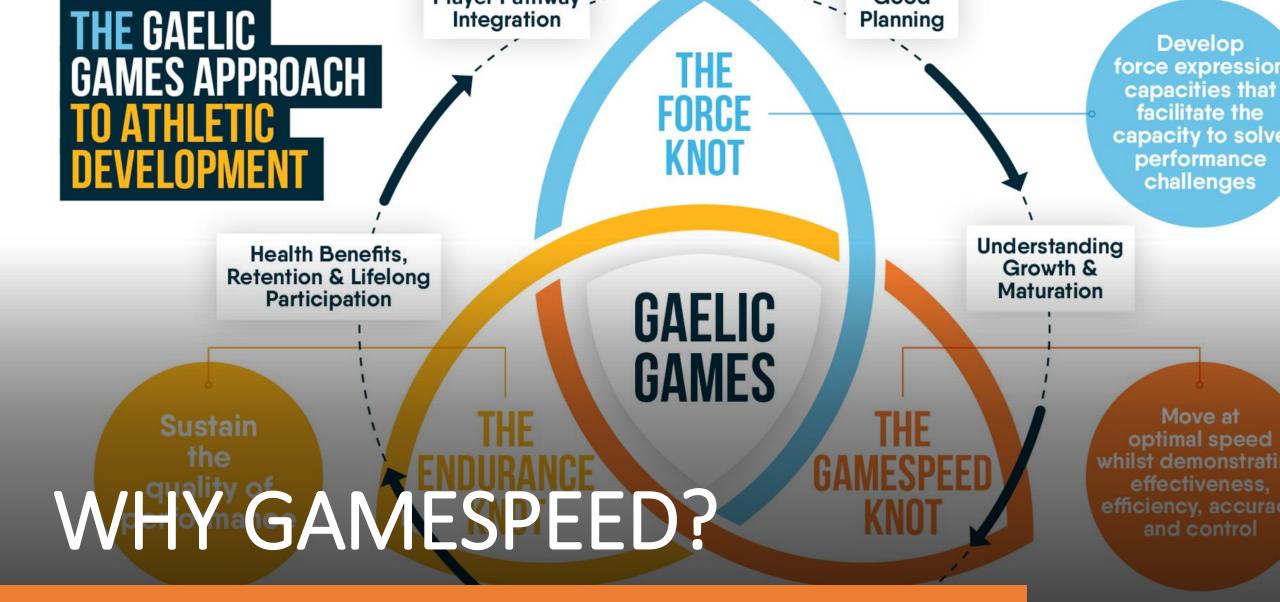
Gamespeed knot is an essential part of any development process To evaluate **HOW** Gamespeed can be applied in the GAA context

2

3

To explore how to apply the concepts to develop players with effective Gamespeed







MOVEMENT (The Integrator)





CONCEPTS

Our concepts frame all of the information we receive and guide our thinking and actions.

So how well do our current concepts hold up?

FRAMEOF REFERENCE



Main Article Ger J Exerc Sport Res 2018 -40:328 -234 https://doi.org/10.1007/s12652-018-650 Received: 5 February 2018 Accepted: 20 March 2018 Published online: 23 April 2018 0 Strateouch/deals Schibl Deartschland al Irineu Loturco¹ - Sophia Nimphius² - Ronaldo Kobal¹ - Altamiro Bottino³ Vinicius Zanetti⁴ - Lucas A. Pereira¹ - Ian Jeffreys¹ "NAR-Nucleus of High Performance in Sport, Silo Paulo, Brazil entre for Exercise and Sports Science, School of Medical and Healt Joondalop, Australia 15ão Paulo Football Club, São Paulo, Brazil ted Bull Brazil Football, São Paulo, Brazi University of South Wales, Pentypridd, UR

Change-of direction deficit in elite young soccer players

The limited relationship between conventional speed and power measures and change-of-direction performance

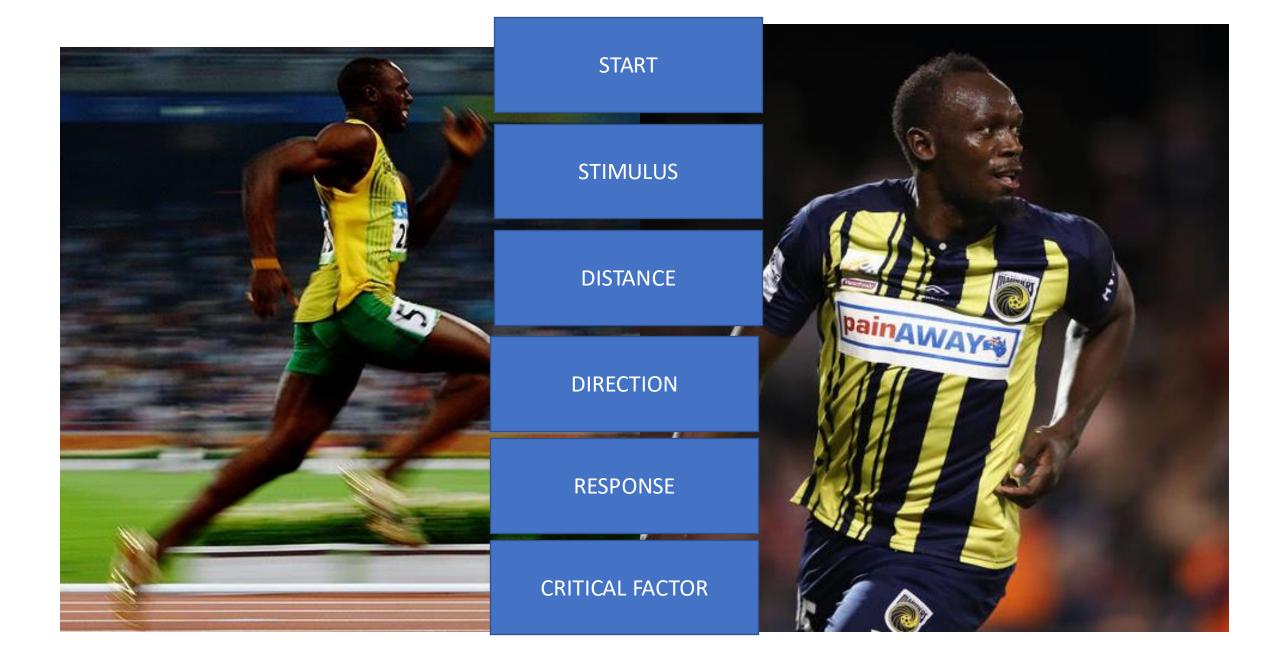
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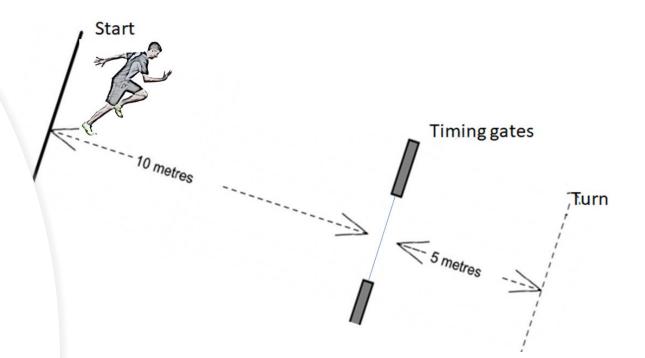
228 German Journal of Exercise and Sport Research 2 - 2018

THE SPORT SCIENCE Measurements Defined concepts How movement impacts Research papers performance









AGILITY/CoD?

Whenever we frame we exclude



We can only fully understand movement in context

FRAMEOF REFERENCE



Ger J Exerc Sport Res 2018 - 48:228 - 23-Irineu Loturco' - Sophia Nimphius' - Ronaldo Kobal' - Altamiro Bott Vinicius Zanetti' - Lucas A. Pereira' - Ian Jeffreys' "NAR-Nucleus of High Performance in Sport, Silo Paulo, Brazil e for Exercise and Sports Science, School of Medical and He São Paulo Football Club: São Paulo, Brazil ted Bull Brazil Football, São Paulo, Brazi University of South Wales, Pentypridd, U

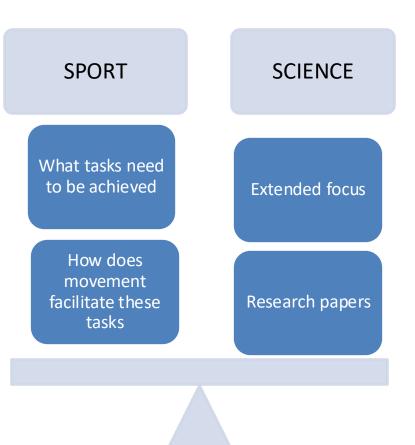
Change-of direction deficit in elite young soccer players

The limited relationship between conventional speed and power measures and change-of-direction performance

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228 German Journal of Exercise and Sport Research 2 - 2018

Main Article



GAMESPEED Changing the frame of reference

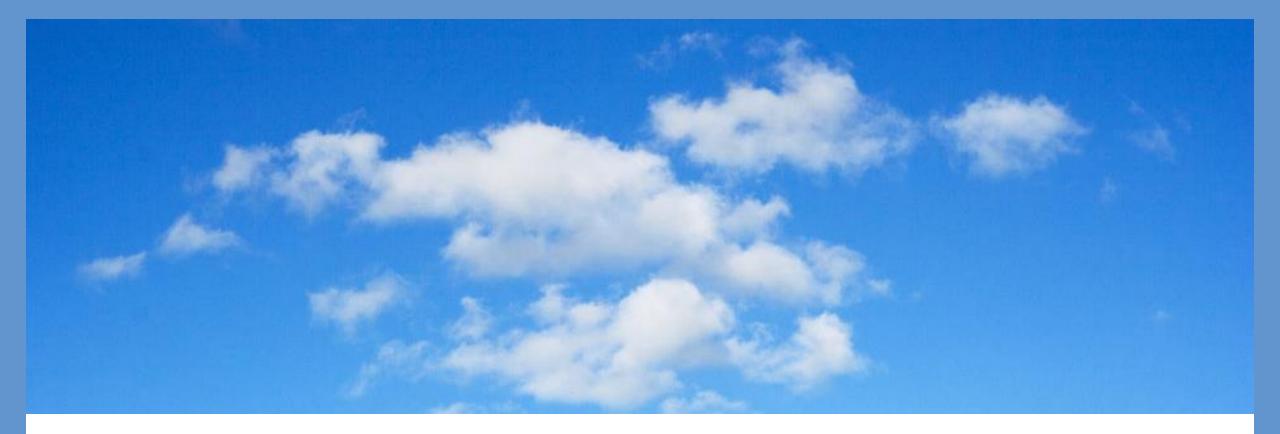


Gamespeed

"a context-specific capacity; where an athlete uses movement of optimal velocity, precision, efficiency, and control to interact with the environment in order to maximise the performance of a sport specific task"



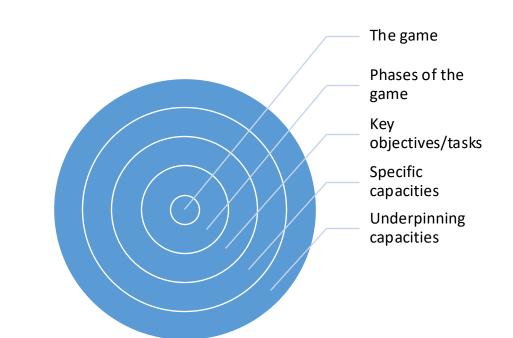




HOW WE GET TO GAMESPEED

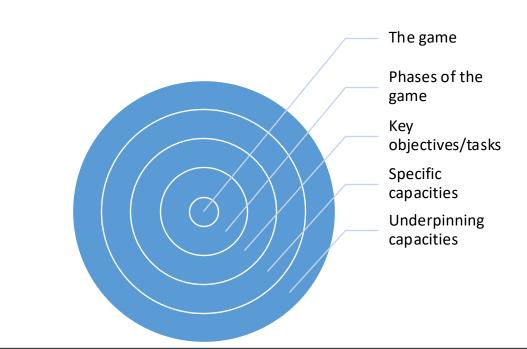






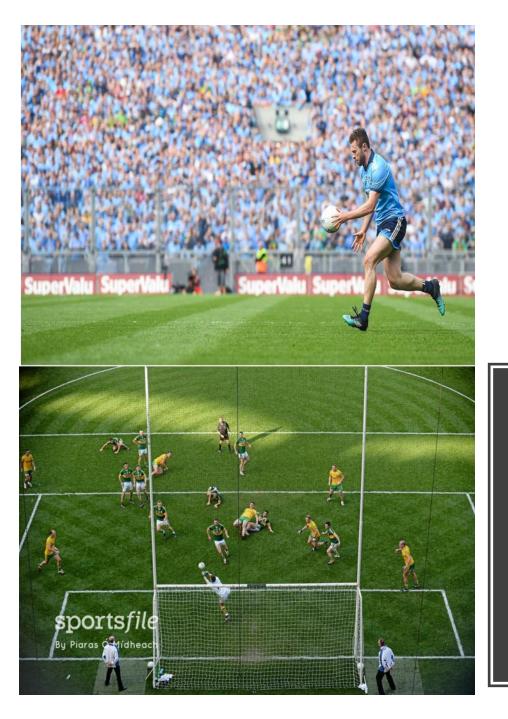
REVERSE ENGINEERING GAMESPEED

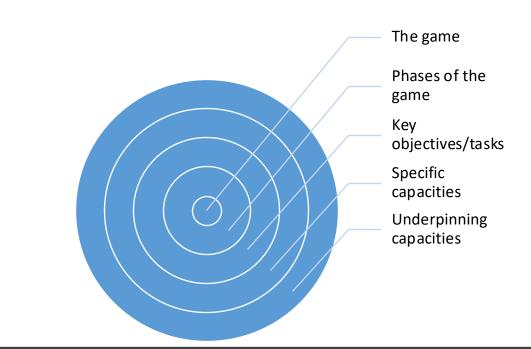




KEY OBJECTIVES/TASKS

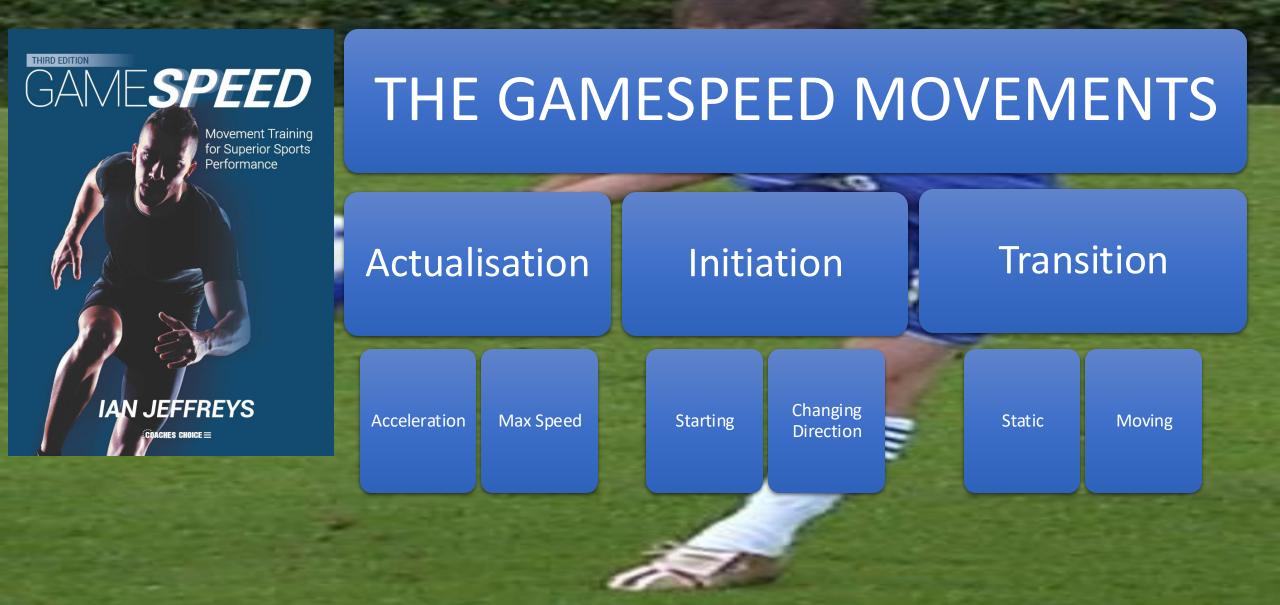
Offense/Defence - On Ball/Off Ball





CAPACITIES – GAMESPEED FITNESS (Breadth and Height)

Offense/Defence - On Ball/Off Ball



THE GAMESPEED TRAINING TRIAD

Quality Development

GAMESPEED

Quality

Coaching

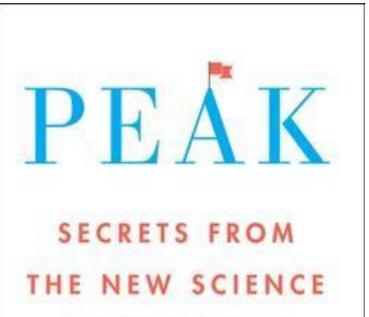
Quality Practice



How should we practice?

If this was maths!



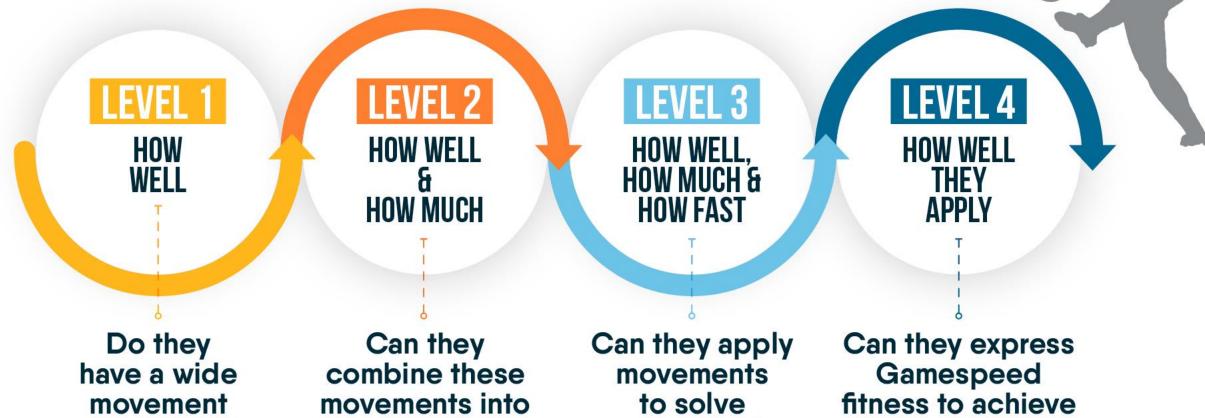


OF EXPERTISE

Anders Ericsson and Robert Pool

"Offers an optimistic anti-determinism that ought to influence how people educate children, manage employees and spend their time . . . The good news is that to excel one need only look within." – The Economiat

THE GAMESPEED KNOT CONTINUUM



vocabulary?

sports generic actions?

contextual challenges? optimal levels of performance?



Facilitating the Journey to Gamespeed



Establish basic patterns



Add variants (temporal & spatial)





Progress variables into sport generic task



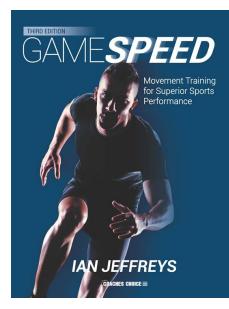
Sport Specific Tasks

Adjust variables to make sport specific tasks

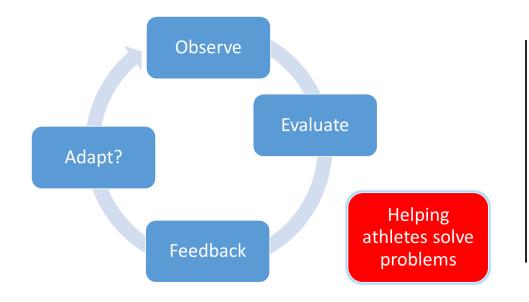




Apply Gamespeed in game like situations



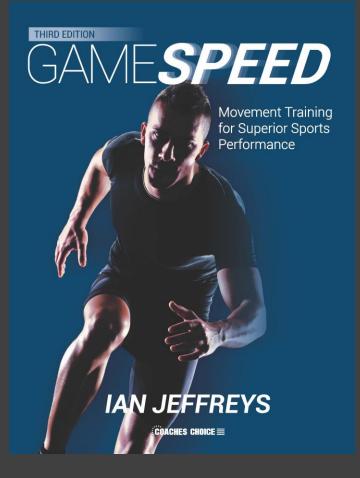
Increase degrees of freedom







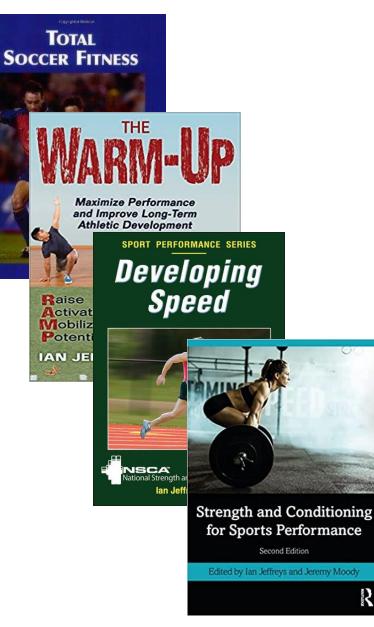
SUMMARY



Effective movement is crucial to performance

Using the concept of Gamespeed allows for a more contextual and comprehensive development model to be developed.

Applying the concepts and methods of the GAMESPEED system assists in the transfer from training to performance.



Thank you



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Somuco



