SINGAPORE SPORT & PERFORMANCE CONFERENCE 2022

From Youth to Elite Sport: Harnessing Potential and the Pursuit of Excellence

2nd - 4th November 2022

Organised by





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From Youth to Elite Sport: Harnessing Potential and the Pursuit of Excellence

Performance Pathways Science Approach: Specialised Support to Prepare Athletes for the Youth-to-Senior Transition

> Matthew Wylde, PhD Head, Performance Pathways Science National Youth Sports Institute

Multiple Pathways NOT a Pipeline



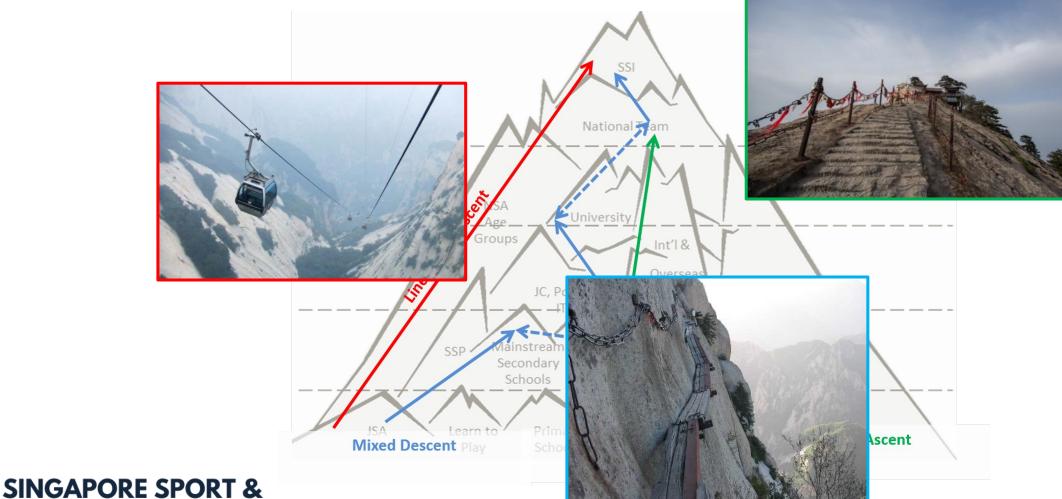
Pipeline





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Multiple Pathways NOT a Pipeline



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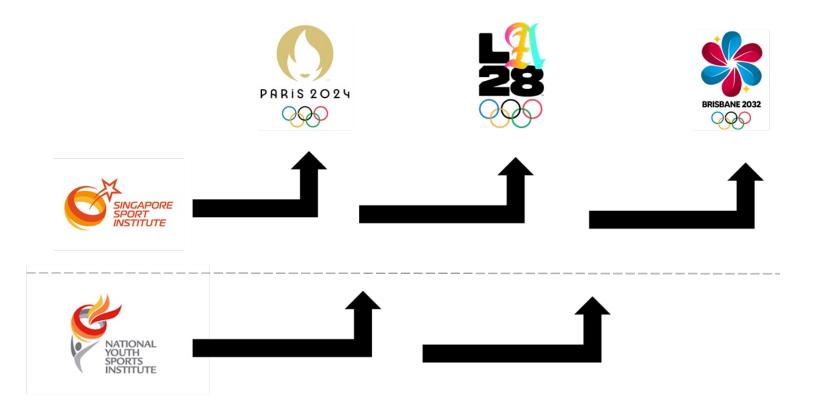
Gublin et al. (2013). Patterns of performance development in elite athletes.

Multiple Pathways NOT a Pipeline



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Preparing Athletes for the Youth-to-Senior Transition



2022 > 2023 > 2024 > 2025 > 2026 > 2027 > 2028 > 2029 > 2030 > 2031 > 2032

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Performance Pathways Science



"Anything to do with Paris 2024* and LA 2028 from an Olympic point of view is our remit"

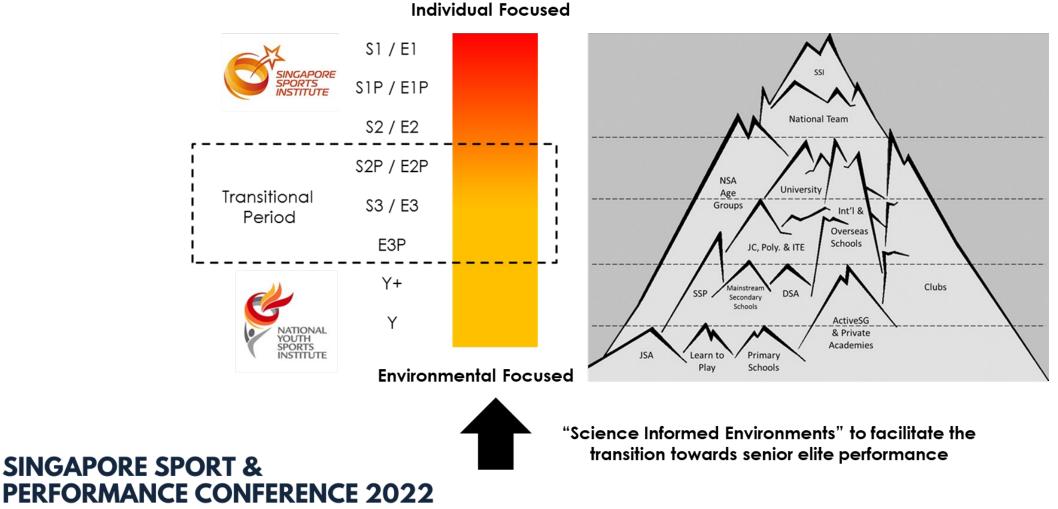
Andy Burns, Senior Performance Pathway Scientist, UK Sport

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*Recorded before Tokyo 2020

Singapore High Performance System



Holistic Ecological Approach

HOME > News > Youth Athlete Development Conference 2018 > Creating an Optimal Sporting Environment

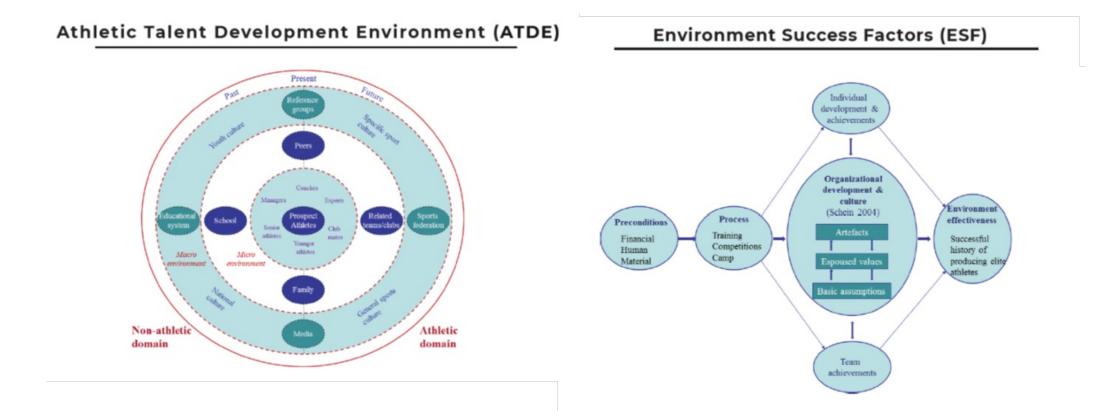
Creating an Optimal Sporting Environment



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Holistic Ecological Approach



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Holistic Ecological Approach

Holistic Ecological Approach

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Supporting the Athlete Journey

Level 3 – Y+ Carded Athletes

 Bespoke individualised support for a select group of Y+ carded athletes in preparation for key major youth games and championships

National Mam

 Level 2 – NSA Youth Teams / SSP / UTR / Selected A&Cs
 Performance Pathways Scientists embedded within the training environment to lead the systematic implementation of science informed best practices

Level 1 – All Youth Carded Athletes

 Structured three-year on-boarding process consisting of a blend of in-person workshops and online resources

QUIE

Mixed Ascent

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Level 1: Workshops for All Youth-carded



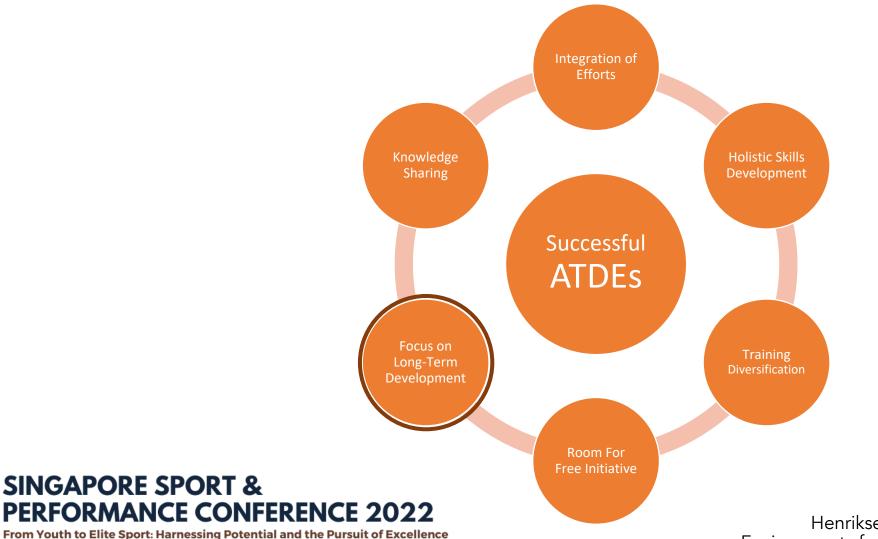
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Level 1: Workshops for All Youth-carded

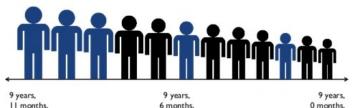


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Level 2: Creating Science Informed Environments



Level 2: Creating Science Informed Environments



0 days

II months. 364 days

0 days



Comparison of two athletes born within 1 week of each other, but with a difference in skeletal age of 5.8 years (Athlete A: 6.3 years; Athlete B: 12.1 years)

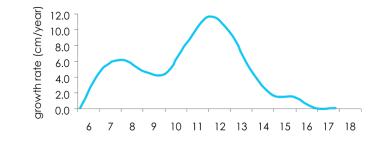
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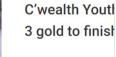
h	
nt	
	DHV
	PHYS

	FMS	FMS	FMS	FMS			
	SSS	SSS	SSS	SSS			
	Mobility	Mobility		Mobility			
PHYSICAL Agility		Agility		Agilit	y		Agility
DEVELOPMENT	Speed	Spe	ed	Spee	d		Speed
Power Power Strength Strength		Power		Power		Power	
		Strength		Strength			
	Hypertrophy		Hypertrophy Hypertrophy		Hypertrophy		
	Endurance & MC	Endu	rance & MC	Endura	nce & MC	End	urance & MC



Level 3: Individualised Support





The swimmers ma their haul of seve



Six of our athletes finished top-8 in their sport. Jaslyn Hooi came closest to medalling when she finished fourth in the women's badminton singles tournament. YOUTH OLYMPIC GAMES



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Level 3: Individualised Support



YOG18 Athletes at SEAG21

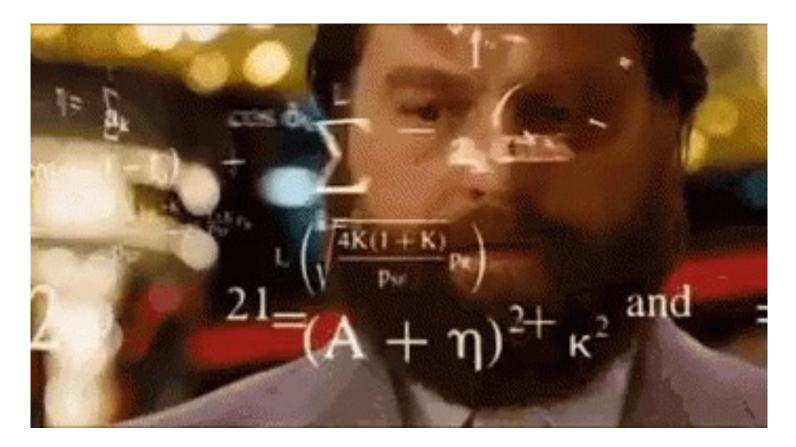
13 out of 18 had their sports featured

12 out of 13 were selected to represent10 out of 13 represented

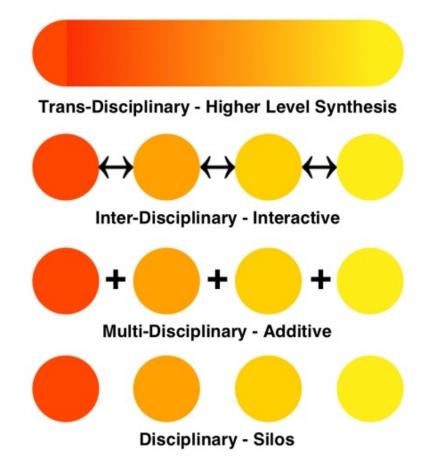
10 out of 10 medalled6 out of 10 achieved gold4 out of 10 were multi-medallists3 out of 10 won multiple gold medals

11 event golds attained at SEAG2123 event medals attained at SEAG21

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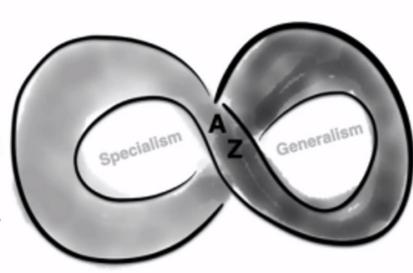
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Competencies & Skills...Performance Pathway Scientists...the Neo-Generalist...

- Physiology...
- · Perf Analysis...
- · Coaching...
- Developmental psychology...
- Athletic
 Conditioning...
- Skill Acquisition, teaching & Learning...
- · Applied research ...
- Disability sport...



A curiosity about the field of developing young people and maximising potential

- Change agents...
- Community builders...
- Facilitators...
- [executive] coaches...
- **R** Critical thinkers...
 - Influencers...
 - Relationship builders...
 - Project Managers...



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From Youth to Elite Sport: Harnessing Potential and the Pursuit of Excellence

John Alder - Lessons from the UK: An Overview of Pathways from Junior Sport Participation to High-Performance Sports. Youth Athlete Development Conference 2021

GENERALIST	SPECIALIST	
Can bring diversity of thought	Has deep knowledge to solve complex problems	
Can bring fresh ideas to old problems	Can quickly solve problems in specific areas	
Less lines of communication	Can easily implement systematic approaches	
May not have enough specific knowledge to add value to the key problems	May give less weight to thoughts of others	
 May take longer to solve specialised problems and it implement systematic	May only approach problems one way	
processes	More lines of communication	

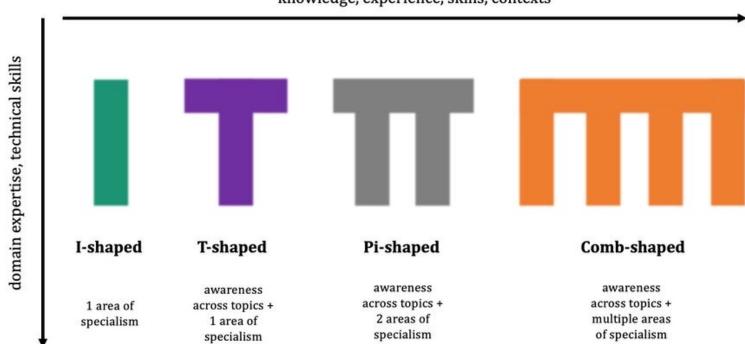
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GENERALIST-SPECIALISTS

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\checkmark	May take longer to solve specialised problems and it implement systematic	May only approach problems one way
	processes	More lines of communication



BREADTH



knowledge, experience, skills, contexts

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DEPTH

From Youth to Elite Sport: Harnessing Potential and the Pursuit of Excellence

"Lessons From 2020: Future-Proofing Skill Sets For Uncertain Times". Informed Practitioner in Sport, Nov 2020



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Take Home Message

There comes a point where we need to stop just pulling people out of the river. We need to go upstream and find out why they're falling in.

-Desmond Tutu

🕞 Quotes.pub

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Take Home Message



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Thank You!

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