FROM A TO Z IN CLASSIFICATION RESEARCH

Α	Athlete Classification Code	N	Number of classes
В	Best-practice implementation	Ο	Observation in competition
С	Sir Philip Craven	Р	Andrew Parsons
D	Delphi study	Q	Questions
Е	Evidence based	R	Research
F	Functions and structures	S	Sport specific
G	Governing Body	Т	Sean Tweedy
Н	Health condition	U	Understanding
1	Intentional misrepresentation	V	Peter van de Vliet
J	John Bourke (athletics)	W	Wheelchair racing
K	Klassification (OK we don't know)	Χ	Xavi Gonzalez
L	Legitimate	Υ	Yves Vanlandewijck
М	Misrepresentation	Z	Zorry, we gave up



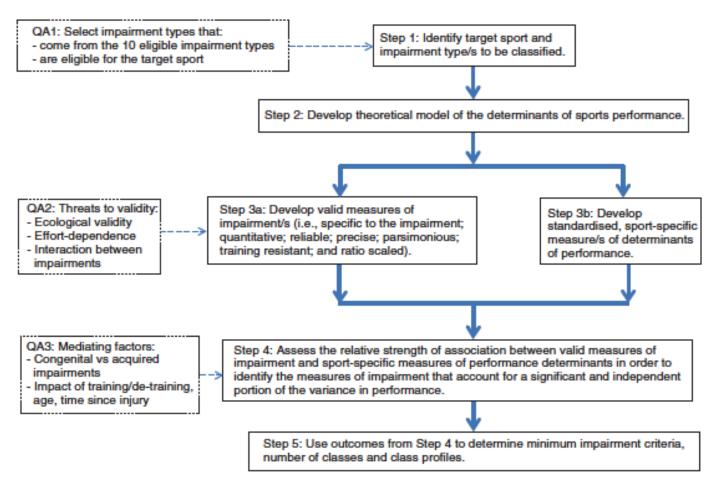
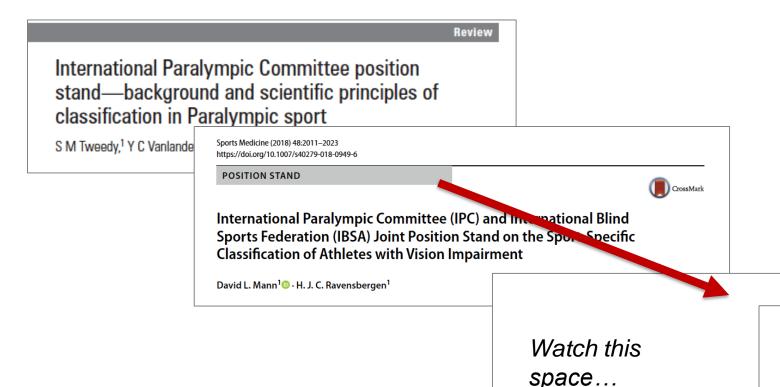


Figure 7.1 Schematic representation of research required for the development of evidence-based systems of classification. The boxes with the solid outlines (Steps 1–5) are essential. The boxes with dashed outlines (QA1–QA3) are not essential to every research program, but are generally important quality assurance (QA) measures.

THE 'IOC BOOK CHAPTER'



Chapter 7

Research needs for the development of evidence-based systems of classification for physical, vision, and intellectual impairments

Sean M. Tweedy, 1 David Mann, 2 and Yves C. Vanlandewijck3

¹University of Queensland, School of Human Movement and Nutrition Sciences, Brisbane, Australia ²Research Institute MOVE: Amsterdam, Faculty of Human Movement Sciences, VU University, Amsterdam, The Nethodorich

³Faculty of Kinesiology and Rehabilitation Sciences, KU Leuven, Leuven, Belgium

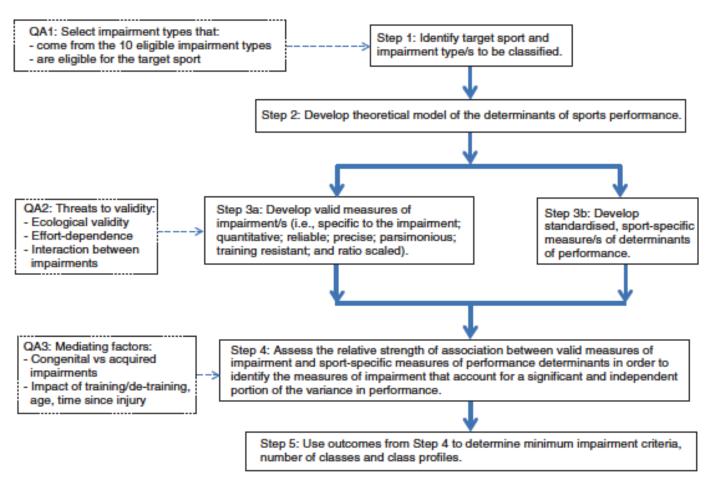
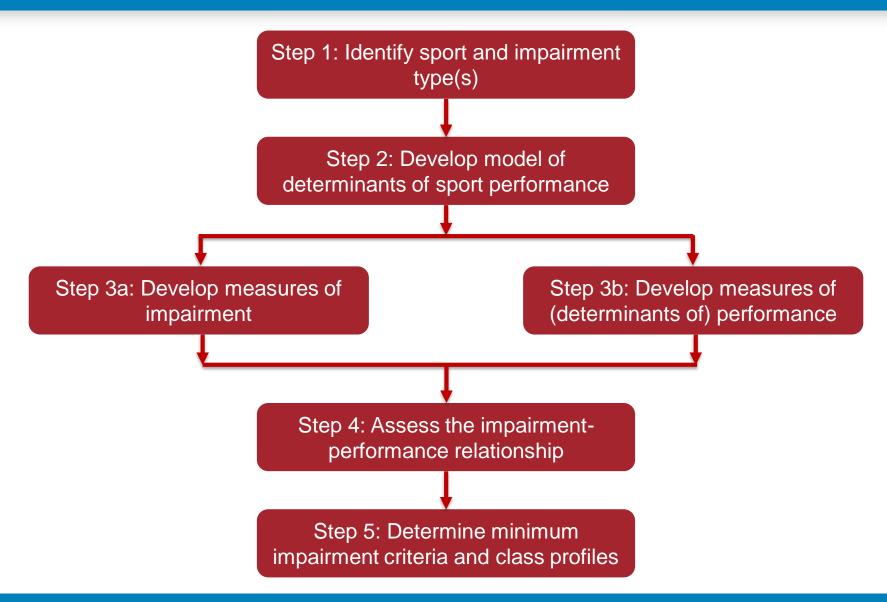
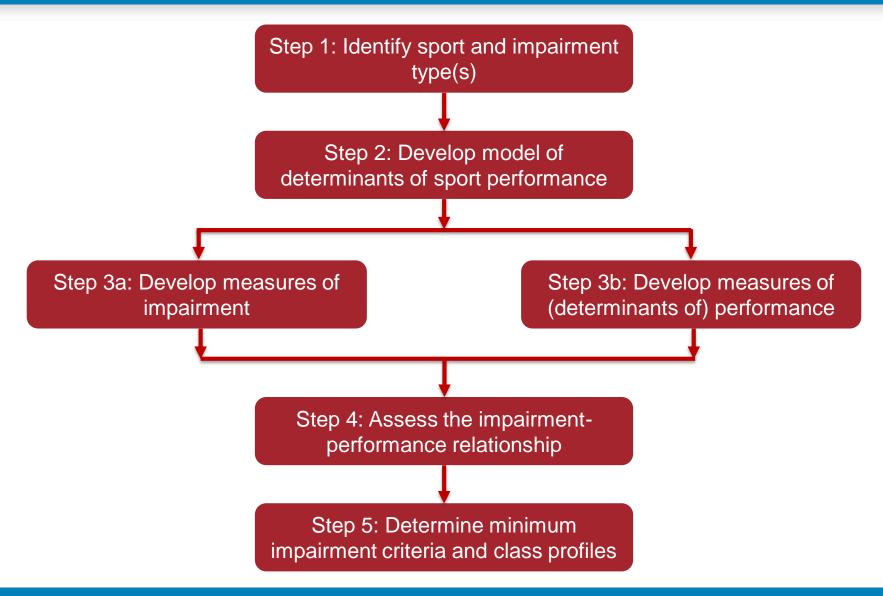
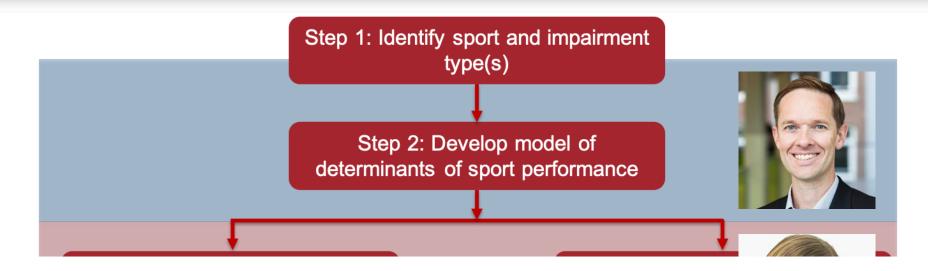


Figure 7.1 Schematic representation of research required for the development of evidence-based systems of classification. The boxes with the solid outlines (Steps 1–5) are essential. The boxes with dashed outlines (QA1–QA3) are not essential to every research program, but are generally important quality assurance (QA) measures.







How can we leverage the expertise of para-athletes, coaches, and classifiers to initiate classification research?

Step 5: Determine minimum impairment criteria and class profiles

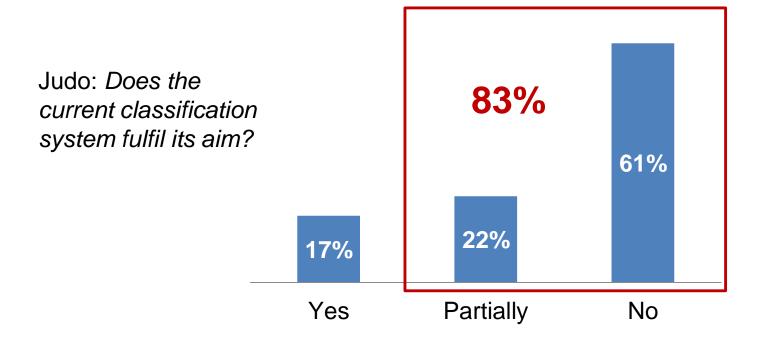


EXPERT CONSULTATION DELPHI REVIEW

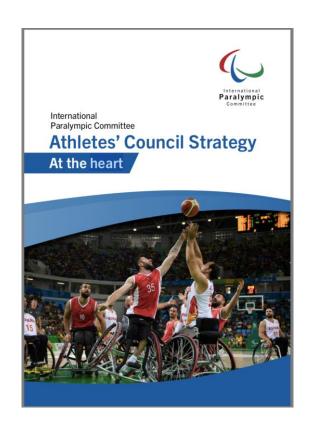


Minimum 15-20 experts





ENSURE THE IPC REMAINS AN ATHLETE-CENTRED ORGANISATION





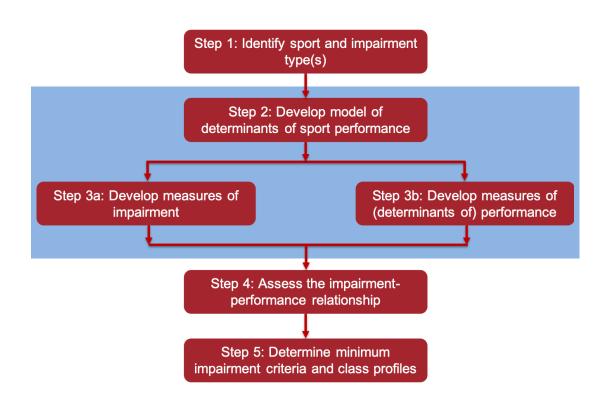
"At the heart' is about fostering a culture within the Paralympic Movement that lives the values of being athlete-centred. It goes far beyond words on paper and the use of the term "athlete-centred" as a buzz word that, at times, is thrown around but not well understood or fostered among athletes and within organisations.

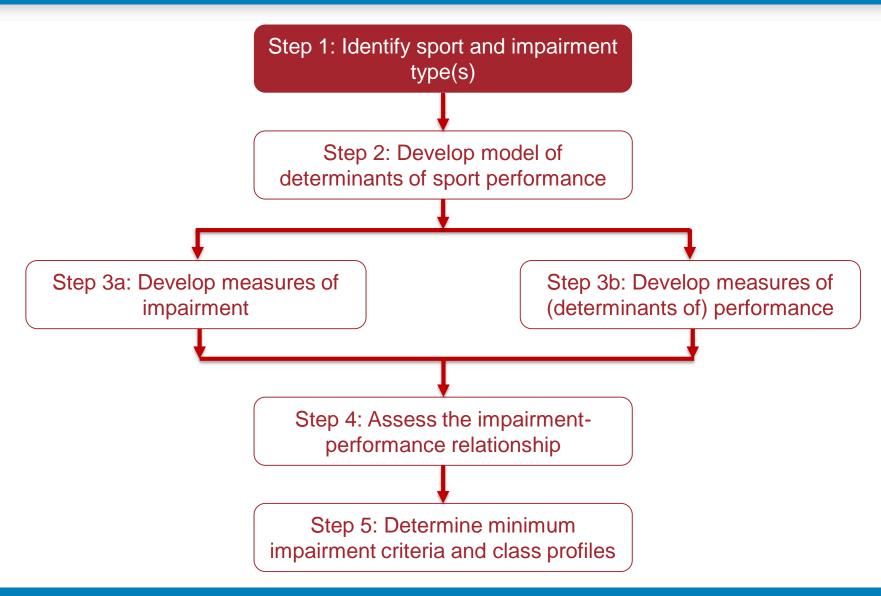
FUTURE-PROOF YOUR RESEARCH

"You used the wrong measures of impairment"

"You used the wrong measures of performance"

Involve athletes and other key stakeholders from the start of the research process





IDENTIFY YOUR SPORT FIVE-A-SIDE FOOTBALL





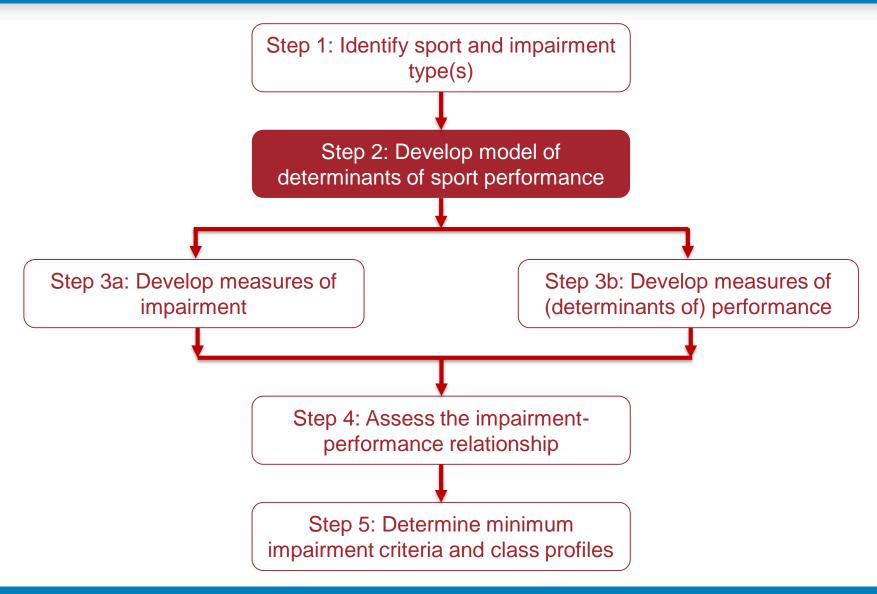
Visual acuity (logMAR units) **Partially sighted football**

Blind football

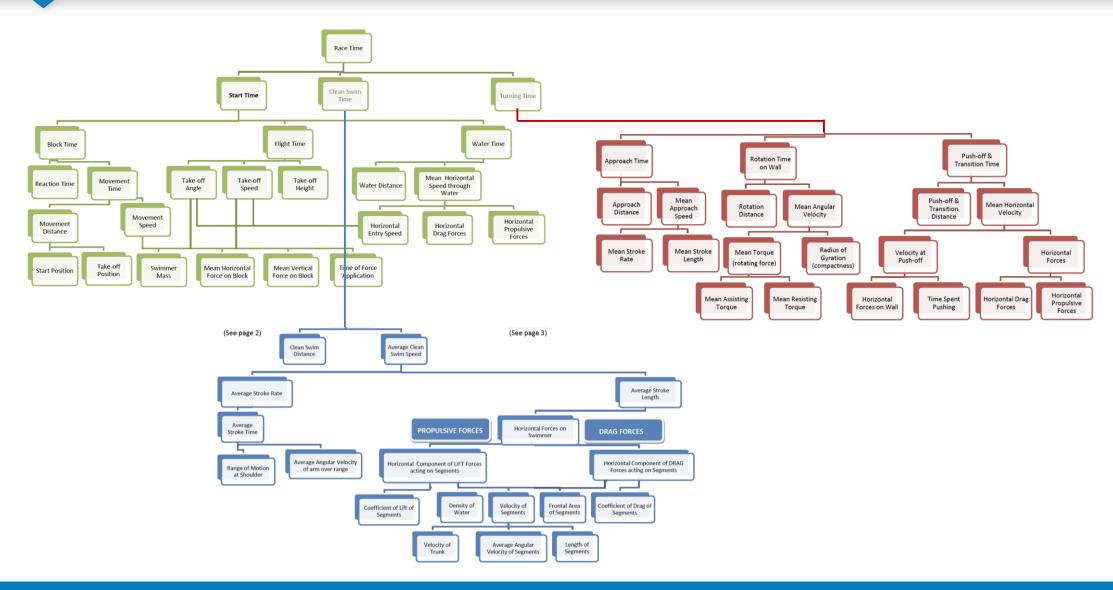
Oliver Runswick Poster #132 Tomorrow 16:00 "Sport-specific classification for football 5-a-side"

IDENTIFY YOUR IMPAIRMENT TYPE

Impairme SS LLD	///	✓ ✓	✓ ✓ ✓	✓	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						✓ ✓ ✓		✓ ✓	✓ ✓ ✓	✓	*	✓ ✓	✓ (//	✓	√ ✓	/		/	✓
5			✓		✓	✓	✓	✓	✓	✓		✓	✓	✓							✓	✓		



DEVELOPING A MODEL OF SPORT PERFORMANCE SWIMMING



DEVELOPING A MODEL OF SPORT PERFORMANCE VI SWIMMING

Survey 1: Please list any components of performance in swimming that might be:

Negatively impacted by VI	Unaffected by VI	Improve with VI

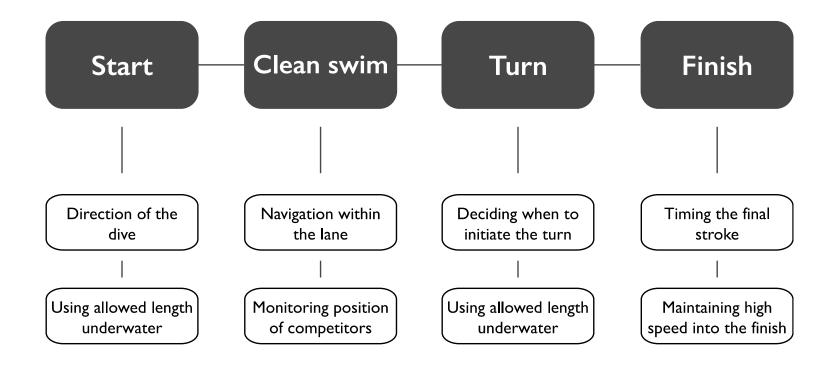
Survey 2: Which of the following aspects of performance are negatively impacted by vision impairment?

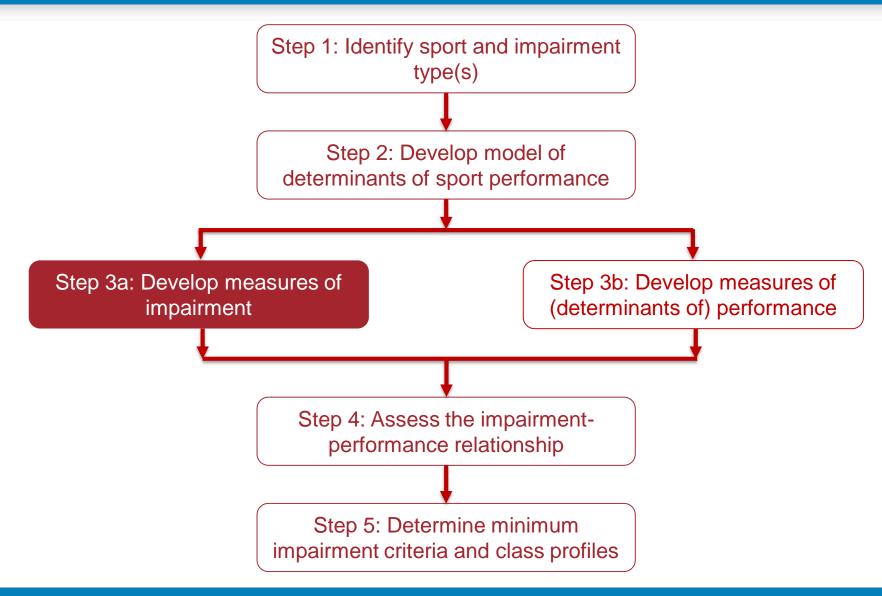
Aspect of performance	Yes	No
Reaction time to start signal		/
Direction of the dive	✓	
Deciding when to initiate a turn	/	
Navigation within the lane	✓	

DEVELOPING A MODEL OF SPORT PERFORMANCE VI SWIMMING

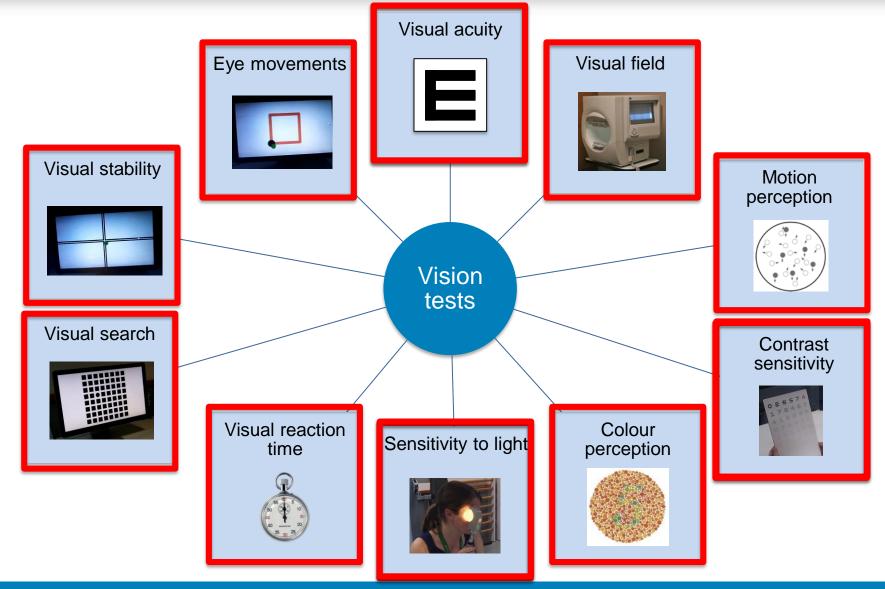
Aspect of swim race

Determinants of performance with vision impairment





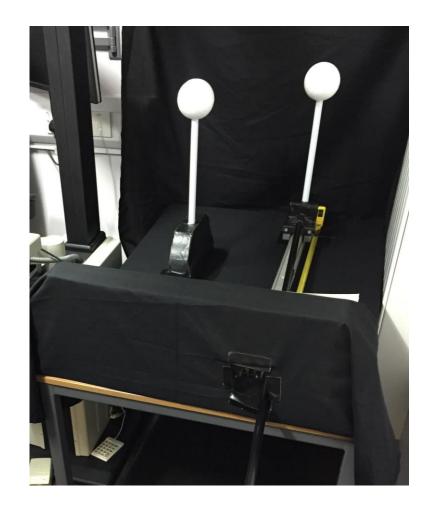
DEVELOPING MEASURES OF IMPAIRMENT VISION TEST BATTERY



VI SWIMMING EXPERT CONSULTATION

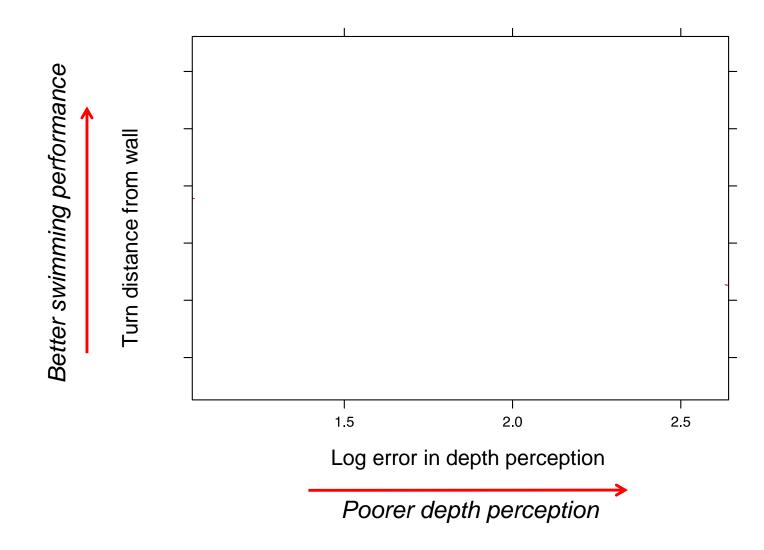
Measure of visual function	% panel who think that measure is relevant for classification
Depth perception	92%
Light sensitivity	71%
Contrast sensitivity	67%
Motion perception	67%
Dynamic visual acuity	58%
Ocular stability	50%
Ocular coordination	44%
Colour vision	42%

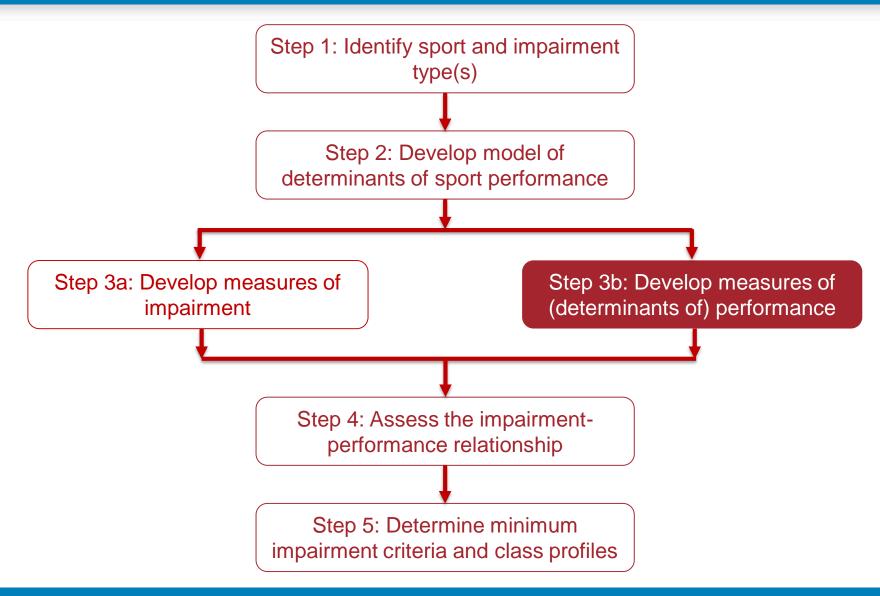
TESTING DEPTH PERCEPTION



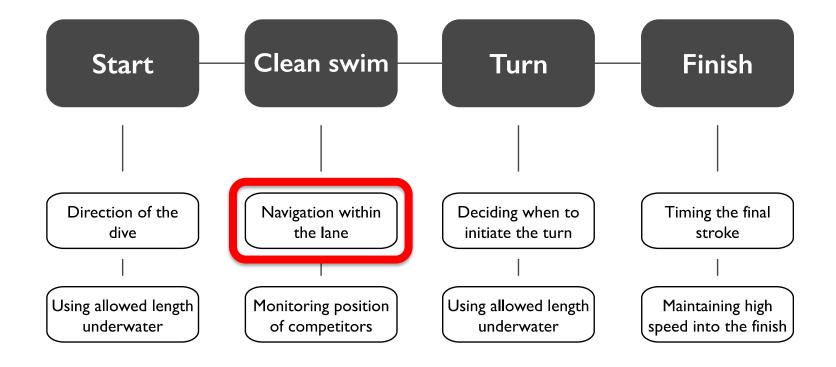


TESTING DEPTH PERCEPTION IMPAIRMENT-PERFORMANCE RELATIONSHIP





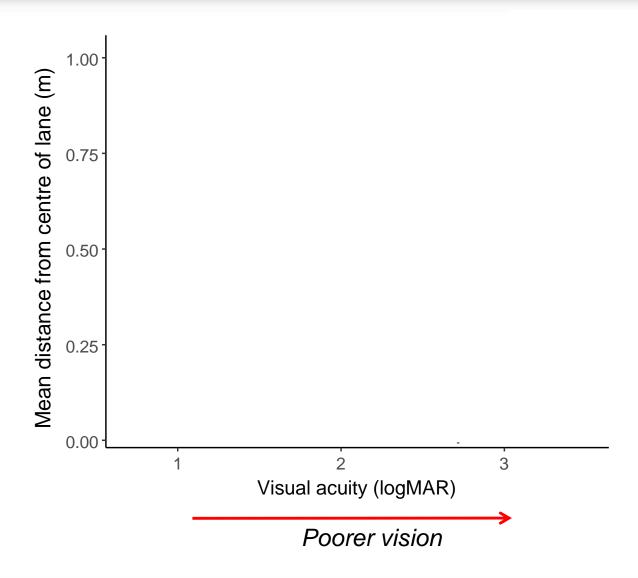
DEVELOPING A MODEL OF SPORT PERFORMANCE VI SWIMMING



ASSESSING SWIMMING PERFORMANCE POSITION IN LANE

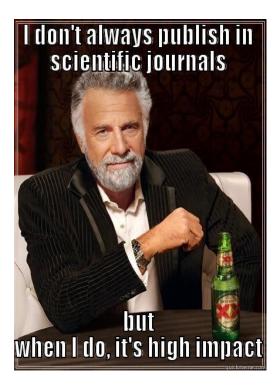


POSITION IN THE LANE IMPAIRMENT-PERFORMANCE RELATIONSHIP

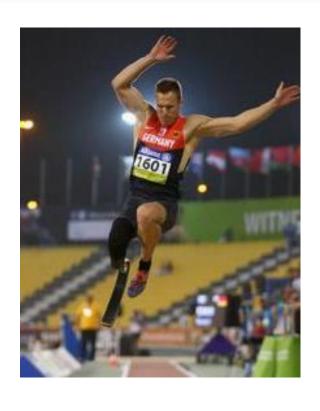


PRACTICAL TIPS PUBLISHING YOUR EXPERT CONSULTATION









Path to publication

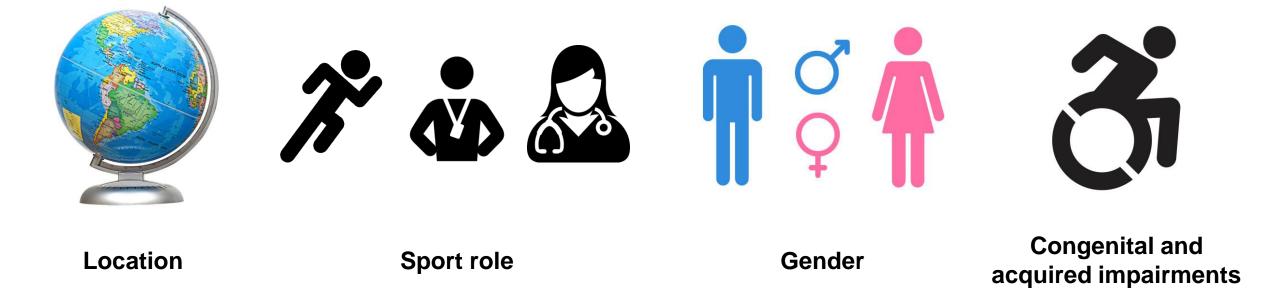
Which journal?

Leap into the unknown

It may not be your career-defining paper, but it could lay the groundwork for your career-defining change to society

PRACTICAL TIPS SETTING UP AN EXPERT PANEL

Define what it is to be an 'expert' and try to balance:



Don't identify the panel alone – the International Federation is your best friend!

ACKNOWLEDGEMENTS



Classification Research Partner



supported by



International Paralympic Committee

This project is supported by a Classification Research Grant awarded by the International Paralympic Committee.

International Blind Sports Federation

This project is supported by a Research Grant awarded by the International Blind Sports Federation.

Agitos Foundation

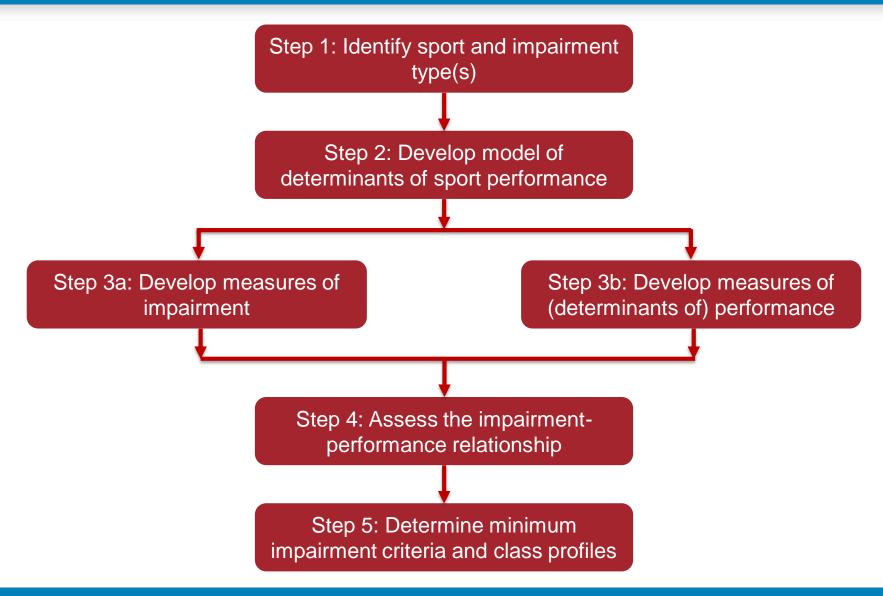
Aspects of this project were supported by Agitos Research Grants awarded by the Agitos Foundation.



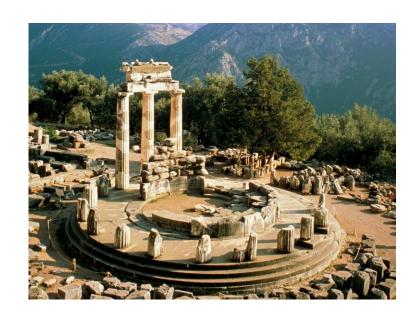
Rianne Ravensbergen



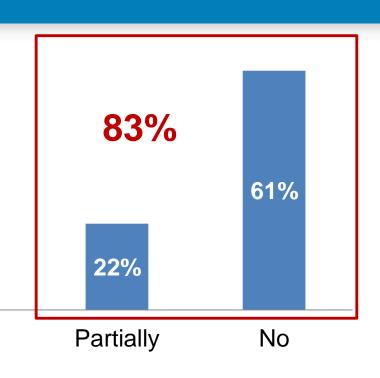




EXPERT CONSULTATION DELPHI REVIEW



Judo: Does the current classification system fulfil its aim?



Minimum 15-20 experts



Advantages	Disadvantages
Everyone's view counts equally	

17%

Yes

- Model as basis of symposium
 - Position stand vs book chapter
 - Model and simplified model walk through
 - Who will cover what
- Expert consultation
 - Why do it?
 - IPC's athlete-centred view
 - Helps to future-proof your research (wide appetite for change until change happens)
 - Uncover hidden gems
 - Ways to consult experts
- Model Step 1 Identify sport and impairment type(s)
 - Sport 5-a-side football
 - Impairment type(s) tennis
- Model Step 2 Develop theoretical model of the determinants of sport performance
 - Swimming model and our approach
- Model Step 3 Develop measures of impairment and performance
 - Impairment
 - Choosing from measures of impairment
 - Depth perception
 - Performance
 - Swimming position in lane

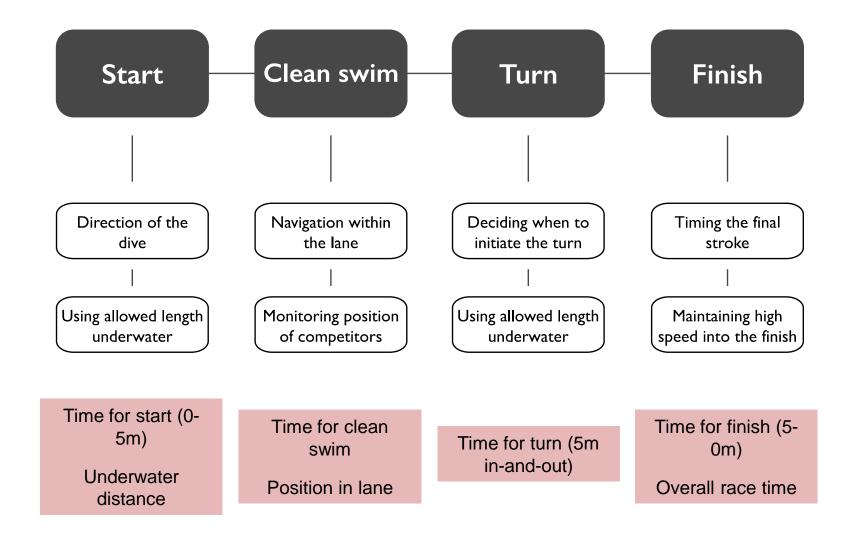
Publishing your export consultation

- Grip performance in judo
- Delphi tips
 - Setting up an expert panel





DEVELOPING A MODEL OF SPORT PERFORMANCE VI SWIMMING

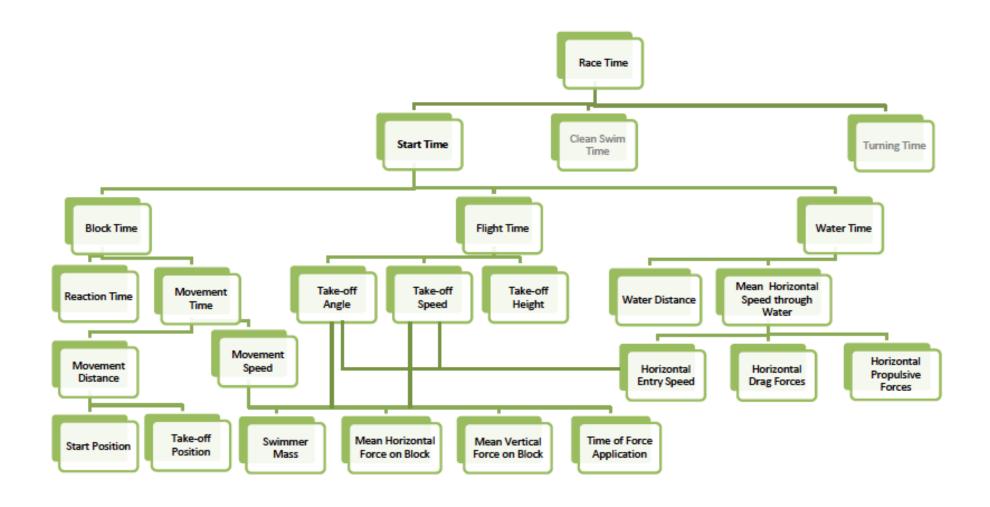


EXPERT CONSULTATION ALLOW YOU TO... UNCOVER HIDDEN GEMS TO UNDERSTAND YOUR SPORT





DEVELOPING A MODEL OF SPORT PERFORMANCE SWIMMING



Should we ask our experts what they think the classification system should be?

No a-priori ideas

It has almost always been very close (so far)

EXPERT CONSULTATION ALLOW YOU TO... PARK YOUR SCIENTIFIC EXPECTATIONS AT THE DOOR



THERE IS A WIDE APPETITE FOR CHANGE (UNTIL CHANGE COMES...)

