

INDEEP MSCA Doctoral Network

Dr Kieran Dowd

Technological University of the Shannon, Athlone, Ireland

MSCA Doctoral Network under the agreement #101120480



Session Objectives

- Overview of INDEEP origins
- Describe the INDEEP Doctoral Network
 - Overview of Work Packages
 - Overview of Doctoral Candidate positions
- Highlight how Doctoral Candidates contribute to Work Packaged



Story so far!





Feb 2024 – Feb 2028 MSCA Doctoral Network under the agreement #101120480



COST Action CA19101

Oct 2020 – Oct 2024



INDEEP Doctoral Network

"To <u>advance the state-of-the-art</u>, while also develop a <u>new</u> <u>generation of researchers</u> for Europe to progress effective, determinant informed Physical Activity Behaviour research into the future through an ambitious and innovative INDEEP programme."



MSCA Doctoral Networks

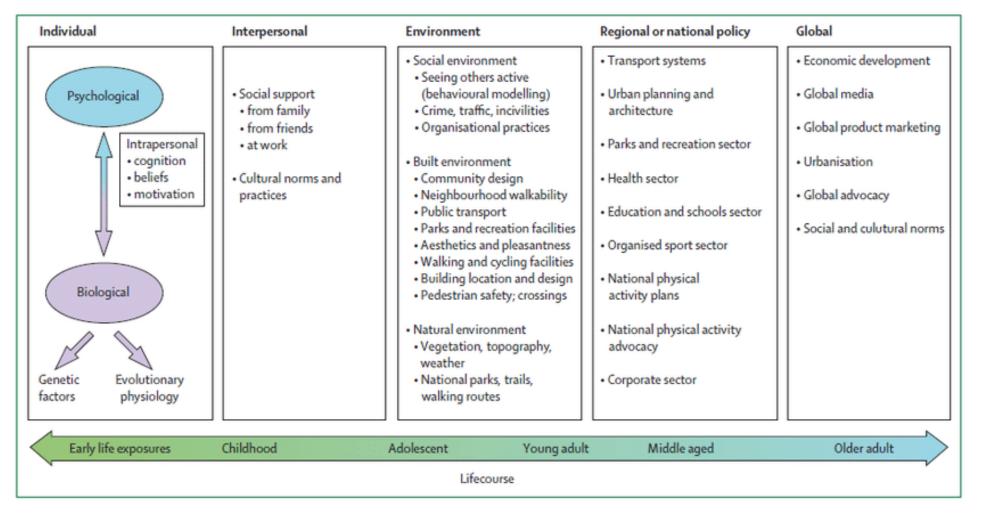
Research	Training
• Advancing the State-of-the-art	• Transferable and discipline specific
• Innovation	• Multi and inter-disciplinary

• Respond to key academic questions

• Enhance employability (e.g., commercialisation, IP Rights)



Concept Origination

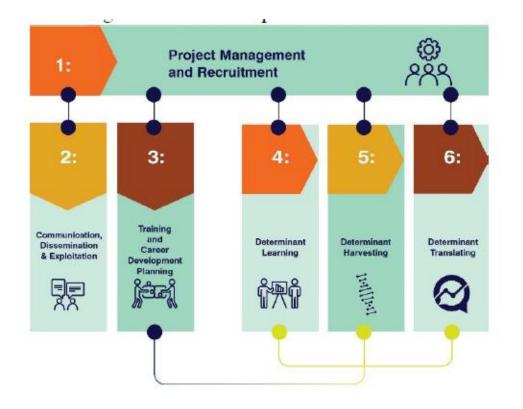


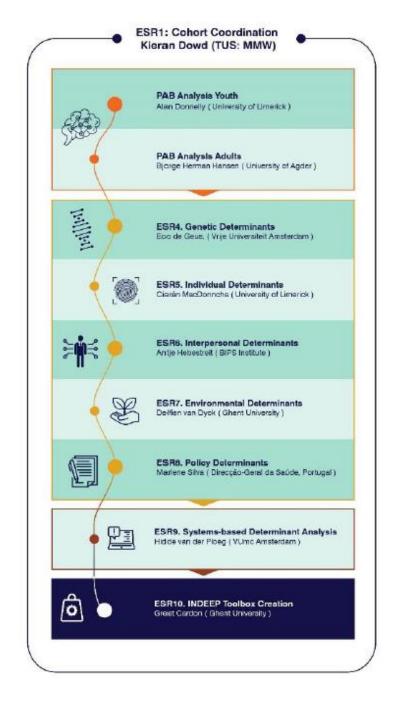


Marie Skłodowska-Curie Actions Doctoral Network

"INDEEP"

INtervention on the DEterminants of, and Expertise in, Physical activity behaviours





"The design and evaluation of a harmonized cross-European data collection study for the examination of Physical Activity Behaviours and their determinants in youth"



Dr Aoife Lane Technological University of the Shannon, Athlone, Ireland

Prof Bjorge Herman Hansen University of Agder, Kristiansund, Norway.

Dr Kieran Dowd INDEEP Co-Ordinator Technological University of the Shannon, Athlone, Ireland Doctoral Candidate #1 Supervisor

Dr Hidde van der Ploeg Amsterdam University Medical Centre, Amsterdam, Netherlands.



TUS





""The development of algorithms for activity classification of Physical Activity Behaviours from a novel, cost-effective activit monitor in youth "







Prof Pepijn van de Ven University of Limerick, Limerick, Ireland.

Prof Bjorge Herman Hansen University of Agder, Kristiansund, Norway.

Dr Kieran Dowd Technological University of the Shannon, Athlone, Ireland

Prof Elin Kolle Norwegian School of Sport Sciences, Oslo, Norway.

Kasper Lykkegaard Founder and CEO, SENS Motion, Copenhagen, Denmark.







Prof Alan Donnelly University of Limerick, Limerick, Ireland. Doctoral Candidate #2 Supervisor



"Developing and standardizing methods for collecting and processing data on device-measured physical activity in family settings across countries"





Prof Elin Kolle Norwegian School of Sport Sciences, Oslo, Norway.

Prof Alan Donnelly University of Limerick, Limerick, Ireland.

Dr Kieran Dowd Technological University of the Shannon, Athlone, Ireland



Prof Bjorge Herman Hansen University of Agder, Kristiansund, Norway. Doctoral Candidate #3 Supervisor



Kasper Lykkegaard Founder and CEO, SENS Motion, Copenhagen, Denmark.



"Genetic Determinants of Physical Activity Behaviors in European youths"





Prof Meike Bartels Vrije University Amsterdam, the Netherlands.

Dr Ronja Foraita Leibniz Institute for Prevention Research and Epidemiology - BIPS, Bremen, Germany.



Prof Eco de Geus Vrije University Amsterdam, the Netherlands. Doctoral Candidate #4 Supervisor

Dr Erik Ehli Avera Genetics, South Dakota, USA.





"Individual determinants of physical activity behaviours in Iris and European youths"



Prof Elaine Murtagh University of Limerick, Limerick, Ireland.

Prof Greet Cardon Ghent University, Ghent, Belgium.

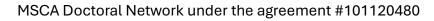






Prof Eco de Geus Vrije University Amsterdam, the Netherlands.

Dr Scott Rosas Concept Systems Inc, New York, USA.





Dr Ciarán MacDonncha University of Limerick, Limerick, Ireland. Doctoral Candidate #5 Supervisor



"Interpersonal determinants of physical activity in youth"



Leibniz Institute for Prevention Research and Epidemiology – BIPS



Dr Christoph Buck Leibniz Institute for Prevention Research and Epidemiology - BIPS, Bremen, Germany.

Dr Hidde van der Ploeg Amsterdam University Medical Centre, Amsterdam, Netherlands.







Thomas Kaessler Managing Director, Bremer Sportjugend, Bremen, Germany.

Dr Antje Hebestreit Leibniz Institute for Prevention Research and Epidemiology - BIPS, Bremen, Germany. Doctoral Candidate #6 Supervisor



"Time- and context-dependency of environmental determinants of physical activity in European youth" UNIVERSITEIT GENT





Prof Alan Donnelly University of Limerick, Limerick, Ireland.

Dr Sofie Compernolle

Ghent University, Ghent, Belgium.

Prof Nico Van de Weghe Ghent University, Ghent, Belgium.



Professor Basile Chaix Director of Research INSERM, Paris, France.



Kasper Lykkegaard Founder and CEO, SENS Motion, Copenhagen, Denmark.



Prof Delfien van Dyck Ghent University, Ghent, Belgium. Doctoral Candidate #7 Supervisor



"Policy determinants of Physical Activity Behaviors in European youth"



Prof Antonio Palmeira, University of Lusofona, Lisbon, Portugal.

Prof Greet Cardon Ghent University, Ghent, Belgium.







Dr Ciarán MacDonncha University of Limerick, Limerick, Ireland.

Prof Delfien van Dyck Ghent University, Ghent, Belgium.



Prof Marlene Nunes Silva Director of the National Program for Physical Activity Promotion, PDGH. Doctoral Candidate #8 Supervisor



" "A systems-based evaluation of PABs in youth and their families: a harmonised cross-European multicentre evaluation"



Prof Karien Stronks, Amsterdam University Medical Centre, Amsterdam, Netherlands.

Dr Kieran Dowd Technological University of the Shannon, Athlone, Ireland







Prof Delfien van Dyck Ghent University, Ghent, Belgium.

Dr Hidde van der Ploeg Amsterdam University Medical Centre, Amsterdam, Netherlands. Doctoral Candidate #9 Supervisor





"Combining determinant systems, theories and co-creation for effective intervention development in Physical Activity Behaviours"



Prof Maite Verloigne, Ghent University, Ghent, Belgium.

Dr Hidde van der Ploeg Amsterdam University Medical Centre, Amsterdam, Netherlands.



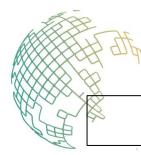


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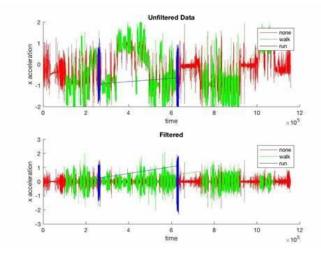


Dr Ragnar van Acker Flanders Institute for Healthy Living, Belgium.

Prof Greet Cardon Ghent University, Ghent, Belgium. Doctoral Candidate #10 Supervisor

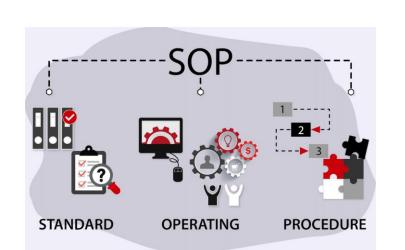


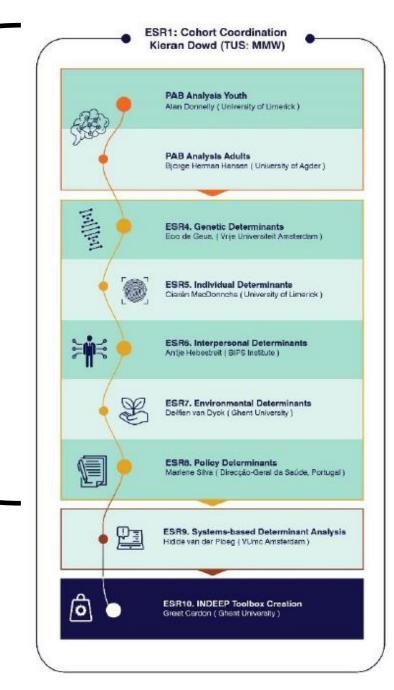
Determinant Learning



Literature Review

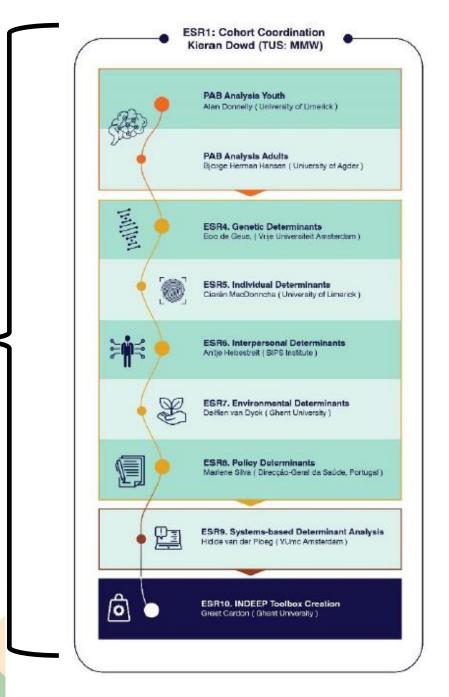


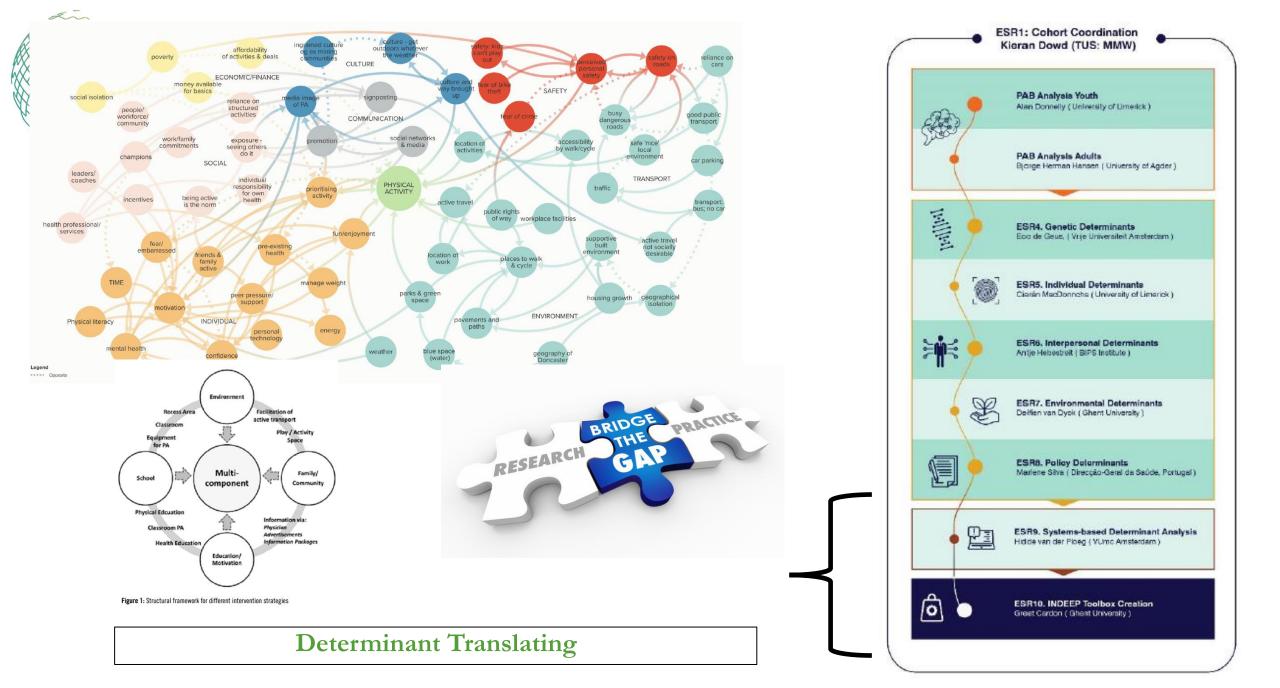














INDEEP Data Collection



Physical Activity Behaviours SENS Data for Index Child (Parents x2, Sibling x1 + 1 Other)



Index Child



Individual and Interpersonal Determinants Index Child + Primary Caregiver (Parent/Guardian) Some Environmental



Smartphone + Geolocation via GPS Index Child



DNA Samples Index Child + Parents (x2)



Policy Determinants Local (i.e., School, Sport Clubs) Regional (Municipalities) National (Governmental)



INDEEP Data Collection









• Target Index Child:

- Aged 12-14 years (DE-PASS 9-11 years)
- Total of 300 Index Children
- Recruitment
- Data collection duration = 8-10 weeks (approximately 1-2 days per week)

Proposal INDEEP Data Collection Sites



𝔄 Athlone, Ireland (DC1)

Skristiansand, Norway (DC3)

⊗BIPS, Germany (DC6)

Gent, Belgium (DC7)

Lisbon, Portugal (DC8)



INDEEP Doctoral Network





INDEEP Project Manager



- Supporting the administration of INDEEP
- Supporting organisation of Doctoral Candidates (i.e. secondments)
- Supporting WP leads with deliverables
- Supporting Doctoral Candidates and Supervisors with MSCA requirements