

DEPASS Proof of Concept Training School

Work Group 4

Physical Education and Sport Sciences Building
University of Limerick, Ireland

9th to 11th January 2023

Start Time: Monday 9th Jan: 09.00

Finish Time: Wednesday 11th Jan: 13.00



Physical Education and Sport Sciences Building, UL

University of Limerick Map - See Link [Here](#)

The Physical Education and Sport Sciences Building is number 19 on the map. The nearest Public Car Park is P8.



DE-PASS

PAFH

Physical Activity for Health
HRI Research Cluster
University of Limerick



Travelling to the University of Limerick

Airport to University

- Details of how to get to UL from Shannon/Dublin/Cork Airports are available [here](#)

Bus

- **Eireagle (CityLink)** offers 10 daily non-stop bus services between Dublin Airport and the University of Limerick (UL). The journey time is only 2 hrs 30 mins. The UL service departs from Zone 12 in Dublin Airport and has drop-off points in Castletroy (opposite the Hurler's Pub) which is a 5 minute walk to University. Please see following link for timetable and details: full timetable here <https://www.eireagle.com/timetables> See example on page 3 of this document for route selection. See this link for: [Bus Zones at Dublin Airport](#)
- **JJ Kavanagh** offers multiple daily departures from Dublin Airport to the University of Limerick (UL). The Limerick service (route 735) departs from Zone 16 at the Airport.
- Dublin Coach offer cheap bus journeys via Route 300 M7 Express: Dublin ↔ Ennis / Killarney / Tralee via Limerick which stops in the University of Limerick (Online Booking offers discounts & guaranteed seats)

Note: Above buses stop at the UL Student Centre / Stables in UL (number 16 on the [Campus Map](#)).

- **Midlands to Limerick:** [Route 72](#) Bus goes from Athlone Bus Station to Limerick Bus Station. The Hurlers Bus stop is nearest to UL and is approximately a 30 minute walk to the venue.
- **Cork - Limerick - Galway:** [Route 51](#) stops at Cork/Limerick/Galway bus station
- **Bus Éireann:** Main Limerick City Centre bus service (allows Leap Card use) [304 & 304A](#) are the main buses for in and out of the University of Limerick. Access Limerick bus map [here](#).

Train

- [Iarnród Éireann](#): Trains travel from Dublin city centre to Colbert Station (Limerick city centre). Please note that to travel to Dublin city centre from Dublin airport you must take either a bus (50 minutes) or taxi (40 minutes and very expensive!). If your travel plans bring you to Colbert Station, the 304/304A bus service go from Colbert Station to the University of Limerick.

Taxi

- [Free Now \(mytaxi\)](#) is an app you can download on your phone for booking taxis
- Plassey Cabs - 00353 61 336 336
- Treaty Cabs - 00353 61 415 544
- [Limerick Taxis](#) - Book online or call 00353 61 417 417/00353 61 31 88 44

ACCOMMODATION

Accommodation is subject to availability

Hotels

- [Castletroy Park Hotel](#): Situated just near the main University entrance. It is advisable to book early to get best rates. Limited number of rooms with breakfast available at a reduced rate: from €125 per person (single occupancy). Contact reservations@castletroypark.ie and quote reference number 448095.
- Kilmurry Lodge Hotel: 5-minute drive/15 minute walk from the University of Limerick.
- [Travelodge](#) Limerick: is 10 min drive/20 minute walk from the University. Prices vary from €80 per night. 10% off the best available rates when contacting the hotel directly by email limerickcastletroy@travelodge.ie or by telephone t: +353 (0) 61 603 500. Quote "University of Limerick" to avail of the discount.

B&B / Guest House

- [Castle Moor](#): 00353 61 330 789, Located on Dublin Road, Castletroy
- Twin Oaks B&B: 00353 61 311 663, Located on Dublin Road, Castletroy
- Mount Gerard B&B: 00353 61 314 981, Located near City Centre, right beside 304/A bus stops

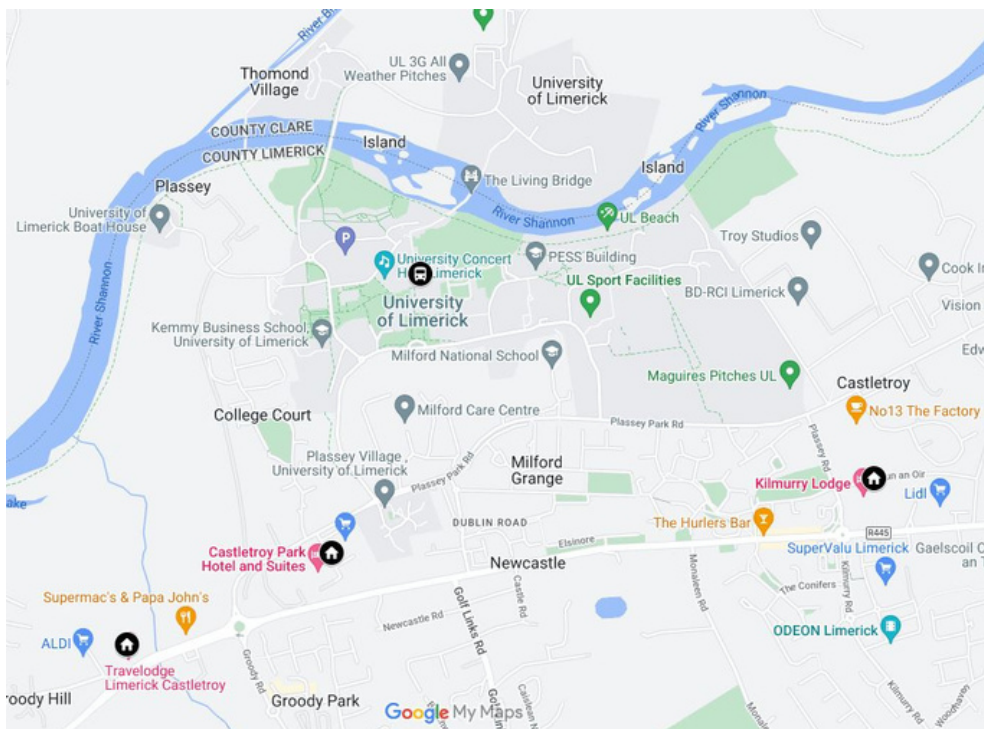
Dublin Airport to Limerick - Sun 8th Jan Timetable - Screenshot

Outward

From **Dublin Airport Zone 11 for Galway - Zone 10 for Limerick** To **Limerick - Castletroy The Hurlers** on **Sunday, 08th January 2023**

Depart	Arrive	Duration	Fares		Book Now
			On Bus	Web Fare	
00:30	02:55	2hr 25min Express	€26.00	€25.00	Book Now
06:00	08:25	2hr 25min Express	€26.00	€25.00	Book Now
08:00	10:25	2hr 25min Express	€26.00	€25.00	Book Now
10:00	12:25	2hr 25min Express	€26.00	€25.00	Book Now
12:00	14:25	2hr 25min Express	€26.00	€25.00	Book Now
14:00	16:25	2hr 25min Express	€26.00	€25.00	Book Now
16:00	18:25	2hr 25min Express	€26.00	€25.00	Book Now
18:00	20:25	2hr 25min Express	€26.00	€25.00	Book Now
20:00	22:25	2hr 25min Express	€26.00	€25.00	Book Now
22:00	Mon 00:25	2hr 25min Express	€26.00	€25.00	Book Now

Map with University of Limerick and Accommodation Options



DE-PASS

PA/H

Physical Activity for Health
HRI Research Cluster
University of Limerick



Training School Schedule

	Monday 9 th January	Tuesday 10 th January	Wednesday 11 th January
8:30 – 9:00	Registration		
9:00 - 9:30	Training School Welcome Presenter: Prof Alan Donnelly Room: P1033		Applied Practical 2: DE-PASS Proof of Concept: Imputation of Physical Activity and Determinant Data Presenter: Prof Bjorge Hansen, Dr Kieran Dowd Prof Mekdes Gebremariam and Dr Judith Jelsma. Room: P1029
9:30 – 10:00	Keynote 1: The collection and analysis of wearables in large-scale biobanks Presenter: Prof Aiden Doherty Streamed Room: P1033	Keynote 2: The Determinants System: Important Considerations Presenter: Prof Adrian Bauman Streamed Room: P1033	
10:00 – 10:30			
10:30 – 11:00	Coffee Break	Coffee Break	Coffee Break
11:00 – 11:30	Lecture 1: Data Harmonisation in multi-site Data Collection Studies Presenter: Dr Kieran Dowd Room: P1033	Lecture 3: DE-PASS Determinant Data Collection Development and Delivery Presenter: Prof Antonio Palmeira Room: P1033	Lecture 4: Data Storage and Sharing in Multi-Site Harmonised Data Collection Studies Presenter: Prof Alan Donnelly Room: P1033
11:30 – 12:00	Practical 1: Consideration for DE-PASS Proof of Concept Harmonised Data Collection Presenter: Dr Kieran Dowd Room: P1033	Practical 4: Consideration for DE-PASS Determinant Data Collection Protocols Presenter: Prof Mekdes Gebremariam and Dr Judith Jelsma Room: P1033	Discussion: Review of DE-PASS Demonstration Presenter: Dr Kieran Dowd Room: P1033
12:00 – 12:30			
12:30 – 13:00	Lunch	Lunch	Training School Close Presenter: Prof Alan Donnelly Room: P1033
13:00 – 13:30			Lunch

Training School Schedule *contd*

	Monday 9 th January	Tuesday 10 th January	Wednesday 11 th January
13:30 – 14:00	Lecture 2: DE-PASS Data Collection Protocols – Initialisation and Deployment Presenter: Prof Bjorge Hansen Room: P1033	Applied Practical 1: DE-PASS Proof of Concept Data Collection of Determinant Data Presenter: Prof Mekdes Gebremariam and Dr Judith Jelsma Room: P1033	
14:00 – 14:30	Practical 2: Collecting Accelerometer Data – Practical Considerations Presenter: Prof Elin Kolle and Dr Grainne Hayes Room: P1033		
14:30 – 15:00			
15:00 – 15:30	Coffee Break	Coffee Break	
15:30 – 16:00	Practical 3: Accelerometer Data Processing – Essential Considerations for DE-PASS Proof of Concept Presenter: Prof Bjorge Hansen Room: P1033	Practical 5: Considerations in Ethical Applications and Recruitment of Participants Presenter: Dr Kieran Dowd Room: P1033	
16:00 – 16:30			



DE-PASS

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Physical Activity for Health
HRI Research Cluster
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IN SCIENCE & TECHNOLOGY

DEPASS Training School Overview

Monday 9th January 2023

Training School Welcome – 9:00 – 9:30, P1033

Presenter: Prof Alan Donnelly

Prof Donnelly will welcome DE-PASS WG4 and Proof of Concept researchers to the University of Limerick. He will provide the attendees with information relating to the University that is important for while they are here. He will introduce the Training School and will provide an overview of the importance of the training school, touching on the importance of harmonised examination of physical activity behaviours and their associated determinants. Prof Donnelly will also introduce the first keynote speaker, Prof Aiden Doherty.

Keynote 1 – 9:30 – 10:30, P1033

Presenter: Prof Aiden Doherty

Title: The collection and analysis of wearables in large-scale biobanks

Prof Doherty will discuss the story behind the collection of wrist-worn accelerometer data in UK Biobank, while also describing their efforts to collect complementary validation datasets to further enhance the resource. He will outline the development of machine learning methods for sleep, sedentary behaviour, physical activity behaviours and steps, referring to software tools that individuals might consider using in future. Prof Doherty will discuss new avenues moving towards multimodal data collection (e.g. inclusion of gyroscopes, ppg, ecg), and will describe new data collection efforts in China, where approximately 30,000 datasets will be collected.

Lecture 1 – 11:00 – 11:30, P1033

Presenter: Dr Kieran Dowd

Title: Data Harmonisation in DE-PASS Proof of Concept Data Collection

Dr Dowd will introduce the concepts behind the DE-PASS Proof of Concept data collection. An overview of the proposed Proof of Concept data collection will be provided, with specific reference to the nations involved in data collection, timeline for data collection, population of interest, the research target setting, proposed sample sizes, recruitment approaches, proposed data collection methodologies and both resources and supports available to assist in the Proof of Concept data collection.

Practical 1 – 11:30 – 12:30, P1033

Presenter: Dr Kieran Dowd

Title: Consideration for DE-PASS Proof of Concept Harmonised Data Collection

This practical session will review content that has been presented in lecture 1. It will provide attendees, in small groups (nation specific if possible) to review the content presented, and to consider the feasibility of implementation within their own nations. In particular, resources, including availability of ActiGraph devices and staff, to support data collection will be considered. Existing school relationships will be considered, and the feasibility of recruitment of study children, primary caregivers and siblings will be discussed. Translation and language issues will be considered and potential solutions identified and discussed. Finally, information on data sharing agreements, authorship agreements and data ownership will be introduced and considered.

DEPASS Training School Overview

Monday 9th January 2023

Lecture 2 – 13:30 – 14:00, P1033

Presenter: Prof Bjorge Herman Hansen

Title: DE-PASS Data Collection Protocols – Initialisation and Deployment

Prof Hansen will begin by introducing and reviewing issues relating to initialisation and deployment, with specific reference to how different protocols influence the outputs. Drawing from practical experiences, important considerations relating to ActiGraph deployment from multiple “raters” or researchers will be discussed, and the importance of consistency in terms of processes for device initialisation and messaging and information delivery from researchers when providing the devices to members of the public will be considered. Engagement with the primary caregiver as the point of contact and their role in ensuring the collection of meaningful data will a focus of this presentation.

Practical 2 – 14:00 – 15:00, P1033

Presenters: Prof Elin Kolle and Dr Grainne Hayes

Title: Collecting Accelerometer Data – Practical Considerations

Prof Kolle and Dr Hayes will outline the key methodologies required when administering ActiGraph devices to the general population. This practical will focus on key steps in preparation for data collection, including the preparing of “Study Child Care Packs” and the preparatory work needed when administering ActiGraph devices (i.e. coding and labelling of equipment). The practical will also review the key messaging that needs to be provided when administering the ActiGraph devices, and how this differs from Study Child, to primary caregiver, to sibling. In particular, reference to the ActiGraph diary, and the importance of this diary in the collection of physical activity behaviour data will be discussed, with guidance on how we will engage with parents to maintain this diary throughout data collection (i.e. text messaging, emailing etc.) will be discussed. Finally, all attendees will be provided with an initialised ActiGraph devices, and will be provided with wear instructions for the next 24 hours.

Practical 3 – 15:30 – 16:30, P1033

Presenters: Prof Bjorge Herman Hansen

Title: Accelerometer Data Processing – Essential Considerations for DE-PASS Proof of Concept

Prof Hansen will provide a detailed description of the initialisation steps for setting up the ActiGraph devices for the Proof of Concept data collection. Once attendees are completely clear on the initialisation processes, Prof Hansen will cover the processes of download and saving of the ActiGraph data, including the creation of folders and the storage of this data. Finally, Prof Hansen will outline a step-by-step approach to the analysis of the study child, sibling and primary caregiver data, including non-wear protocols to be applied and the storage of the produced CSV data files.

Social: DEPASS Training School 'Get Together', Pavillion, University of Limerick, 6.30pm

DEPASS Training School Overview

Tuesday 10th January 2023

Keynote 2 – 9:30 – 10:30, P1033

Presenter: Prof Adrian Bauman

Title: The Determinants System: Important Considerations

Prof Bauman will discuss the determinants system, outlining the core concepts related to determinants of physical activity research, and provide details on his learnings of determinants throughout his career. Prof Bauman will discuss important considerations when undertaking this research, specifically relating to the gaps in the current literature and how researchers should move towards addressing these key research questions to advance the state-of-the-art.

Lecture 3 – 11:00 – 11:30, P1033

Presenter: Prof Antonio Palmeira

Title: DE-PASS Determinant Data Collection Development and Delivery

Prof Palmeira will outline the research questions within WP2 and WP3 of DE-PASS, and will highlight the task that was allocated to these work packages in relation to identifying a selection of core determinants for examination in a child and adolescent population. Prof Palmeira will discuss the process implemented within WP3 for the creation of the DE-PASS determinant data collection tools that have been developed for implementation within the DE-PASS Proof of Concept data collection, and will outline the important considerations used for selection of specific tools.

Practical 4 – 11:30 – 12:30, P1033

Presenter: Prof Mekdes Gebremariam, Dr Judith Jelsma and Prof Antonio Palmeira

Title: Consideration for DE-PASS Determinant Data Collection Protocols

Practical 4 will focus on the practical considerations needed when implementing self and proxy-reported questionnaires relating to determinant data, outlining the strengths and limitations to existing approaches for collecting this information. The team will introduce the actual Child and Primary Caregiver determinant questionnaires to be implemented in the DE-PASS Proof of Concept data collection, highlighting important information to be relayed to the participants while completing these questionnaires. This practical will specifically provide the attendees with the skills necessary (e.g., how much support and information to provide to each participant, different detail to be provided to Study Children and their Primary Caregivers) to administer the determinant questionnaires in the DE-PASS Proof of Concept data collection.

Applied Practical 1 – 13:30 – 15:00, P1033

Presenter: Prof Mekdes Gebremariam, Dr Judith Jelsma and Prof Antonio Palmeira

Title: DE-PASS Proof of Concept Data Collection of Determinant Data

This Applied Practical session will provide each attendee the opportunity to become familiar with the determinant questionnaires (both Study Child and Primary Caregiver questionnaires). In pairs, all attendees will be asked to complete the questionnaires from their own perspective. One at a time, the administration of the questionnaire will follow the protocols as outlined in Practical 4, ensuring that appropriate engagement with the individuals is provided. At the end of the Applied Practical session, all attendees will have completed both the Study Child and Primary Caregiver questionnaire. A discussion reviewing the process, allowing attendees to ask questions related to the administration of the questionnaire will take place.

DEPASS Training School Overview

Tuesday 10th January 2023

Practical 5 – 15:30 – 16:30

Presenter: Dr Kieran Dowd

Title: Considerations in Ethical Applications and Recruitment of Participants

In this practical session, Dr Dowd will provide all attendees with documentation that has been submitted for ethical application in the Technological University of the Shannon, Athlone, for ethical approval. This ethical approval has been granted. Dr Dowd will provide an overview of the ethical documents that have been submitted, and will describe the proposed recruitment processes to be implemented in each nation. The session will finish with a brief review of the documentation, and a discussion/questions on supports and assistance that will be required for the successful translation and submission of ethical applications in each of the participating nations.

Wednesday 11th January 2023

Applied Practical 2 – 13:30 – 15:00, P1029

Presenter: Prof Bjorge Herman Hansen, Prof Mekdes Gebremariam, Dr Judith Jelsma and Prof Antonio Palmeira

Title: DE-PASS Proof of Concept: Imputation of Physical Activity and Determinant Data

This applied practical session will take place in a computer suite. In this session, all attendees will be provided with a sample survey for both the Study Child and the Primary Caregiver. Attendees will be provided with a code book for data entry of the completed surveys. All attendees will be requested to enter the surveys in SPSS spreadsheets, save this data and convert this data to a CSV file. This file will then be stored on a shared OneDrive folder which each attendee will have access to. Meanwhile, Prof Hansen and Dr Dowd will retrieve the administered ActiGraph devices from each attendee, download and process the data. This data will be stored and saved. At the end of the session, a demonstration of the batch analysis of the data (directly related to the Primary Caregiver accelerometer data analysis) will be provided to the attendees.

Lecture 4 – 11:00 – 11:30

Presenter: Prof Alan Donnelly

Title: Data Storage and Sharing in Multi-Site Harmonised Data Collection Studies

Prof Donnelly will provide an overview of the requirements for ensuring safe and secure data sharing and storage. He will outline the important considerations that need to be addressed in relation to data storage and data sharing within the DE-PASS Proof of Concept. The processes that are being implemented within the DE-PASS data collection will be outlined and presented, including the importance of using GDPR compliant data sharing platforms, the processes of password protection, the sharing of passwords and the curation of data.

DEPASS Training School Overview

Wednesday 11th January 2023

Discussion – 11:30 – 12:30

Presenter: Dr Kieran Dowd

Title: Review of DE-PASS Demonstration

During this discussion, an opportunity will be provided to all attendees to provide feedback or input on all aspects of the training school. A discussion on recommendations or changes to the protocols or processes, if necessary, will take place. Recommendations for additional training or support required for each nation will be provided, and solutions to these will be discussed. The main outcome of this session is that D4.5 leads and WP4 members have clarity on the requirements for participating countries, so that an action plan in response to these can be developed.

Training School Close 12:30 – 12:45

Presenter: Prof Alan Donnelly

Prof Donnelly will bring the Training School to a close.