



**20<sup>th</sup> International Geography Olympiad**  
**20<sup>th</sup> August 2024 - Fieldwork Exercise 1**  
**MORNING – LOCATION A – MAYNOOTH UNIVERSITY**

**Fieldwork Location A**

**Maynooth University - Features and aspects of wellness**

Wellness **features** can be places of rest, food, income, religion, rest, exercise, communication, solitude and nature.

Wellness **aspects** are emotional, physical, occupational, social, spiritual, intellectual, environmental, and financial.

**A1** Walk around the campuses of Maynooth University. Create 6-8 categories that represent the wellness features that can be found on the North and South campuses of the university. Count the number of the features you see. Record these in table A1. Some features may be in more than one category.

(4 marks)

Table A1

<b>Wellness aspect</b>	<b>South Campus</b> , mainly older buildings	<b>North Campus</b> , mainly newer buildings
<b>Eg. Place for food</b>		
<b>TOTAL</b>		

(\_/4 marks)

**A2** Give two differences between the provision of wellness features on the North and South Campuses. For each difference, explain why this might be the case.

(6 marks)

<b>Difference 1</b>
<b>Difference 2</b>

(\_\_/6 marks)

**A3** Chose one wellness feature that you have identified. Describe how it would improve **3** aspects of wellness.

(6 marks)

<b>Feature name:</b>	<b>Describe how the feature would improve this aspect of wellness</b>	
<b>Aspect of wellness</b>	1	
	2	
	3	

(\_\_/6 marks)

**A4** Think of an additional element that could be added to promote wellness in at least two **aspects** on the North or South campus of the university. Draw a sketch of your feature as it might look when constructed.

Annotate the sketch to describe key aspects of your feature.

(4 marks)



(/4 marks)

## MORNING – LOCATION B – MAIN STREET

### Location B - Main Street

**Task B1** Observe the street. Notice how people use the street pavement and roads, e.g. walking, scooting, cycling or driving. (4 marks)

- a. Look around and decide, how **easy or challenging** you think it is to do every day activities on Main St (also known as Leinster Street). Record your ideas with a tick in the box that corresponds to your decision.

	Very easy	Easy	Neither	Challenging	Very challenging
<b>Resting</b>					
<b>Eating</b>					
<b>Walking alone</b>					
<b>Walking with others</b>					
<b>Cycling and scooting</b>					
<b>Driving</b>					

- b. What do you notice from completing the table above? **Describe** two observations.

Observation 1
Observation 2

( \_\_ /4 marks)

**Task B2** On the map below focus on the area of Main Street (Leinster Street).

**Label** 4 points on the map below to show where there are:

- 2 features that cause **accessibility problems** for people
- 2 features that make the street **accessible** for people

Ensure you add a sentence to each of the 4, to say why they cause problems or help with accessibility.

(8 marks)



( \_\_ /8 marks)

**Task B3** Complete the table below to explain two ways in which you would change the street to make it more accessible for people.

(8 marks)

<b>Create a simple name for your idea</b>	<b>Describe why the change or feature should be created</b>	<b>Describe why it may be difficult to create such a change or feature</b>
<b>1</b>	(2)	(2)
<b>2</b>	(2)	(2)

( \_\_ /8 marks)

## LOCATION C – MAYNOOTH TRAIN STATION

### Location C Maynooth Train Station

**Task C1** Find a safe position where you can see Maynooth Train Station.

Draw a **field sketch** of Maynooth Train Station, label with the following features:

- Different categories of buildings
- Roads, footpaths and bridges
- Access points to the station and its buildings
- Any other geographical features you think are important to add to your sketch

(6 marks)



( \_\_ / 6 marks)



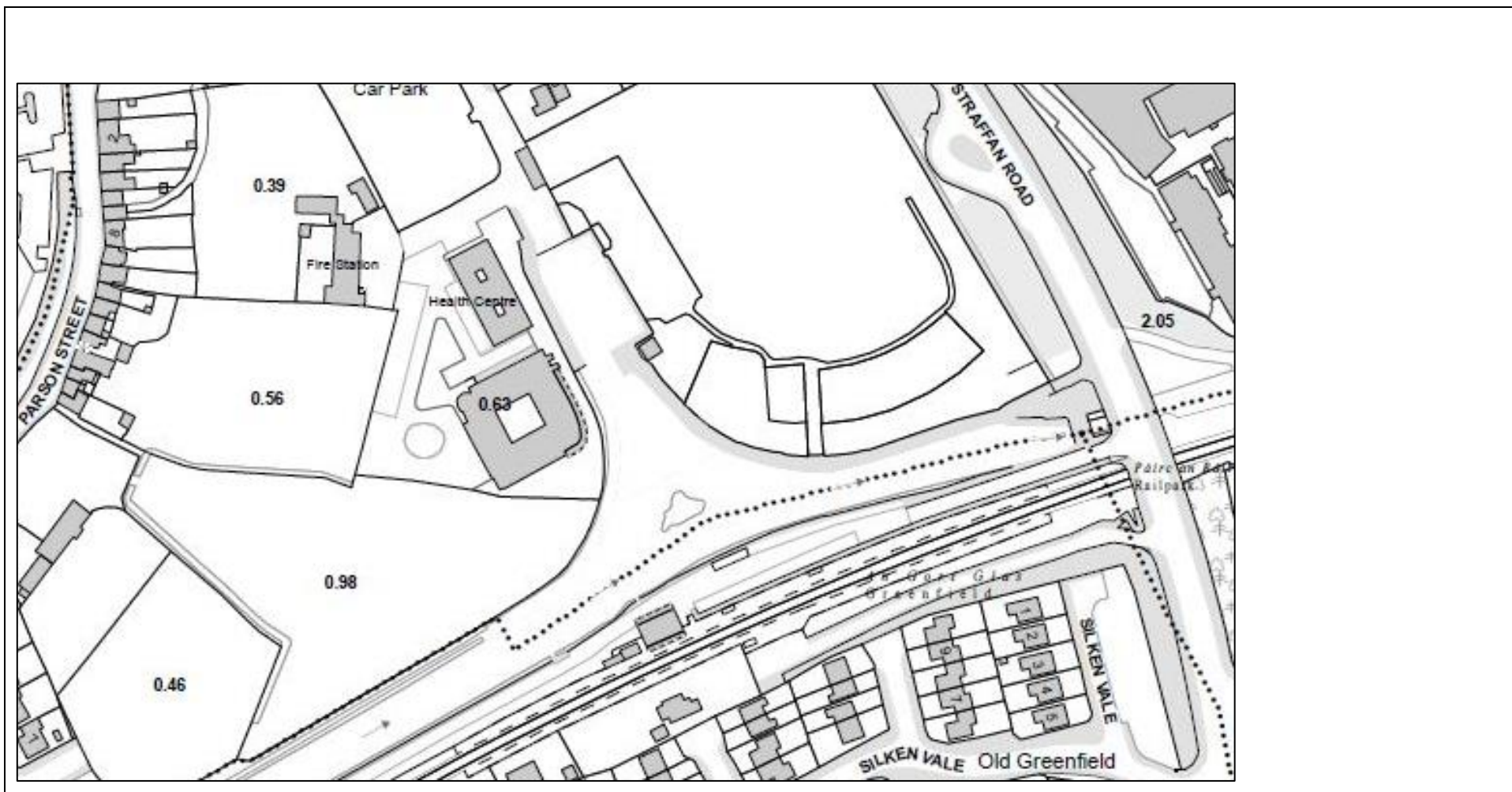
**Task C2** Complete the matrix below to compare the accessibility of different parts of the station for different groups of people. Score each place out of **5**.  
5 for the most accessible places and 0 the least accessible places.

(4 marks)

Type of people	Station entrance paths on the north of the station	Immediately outside the station	Approach road to the west of the station	Foot bridge over the canal	Paths each side of the footbridge
People with limited mobility					
Visually impaired people					
People in wheelchairs					
Children under 5 years					
<b>TOTAL</b>					

( \_\_ / 4 marks)

**Task C3** Create a **land use map** of the locality of Maynooth station using the base map below. Decide on suitable categories and how to represent them. Label your map with a title and create a suitable legend / key. (10 marks)



( \_\_\_ / 10 marks)



## IRELAND 2024

### 20<sup>th</sup> International Geography Olympiad

### 20<sup>th</sup> August 2024 - Fieldwork Exercise

### AFTERNOON – PROBLEM SOLVING ACTIVITY

#### Booklet D for Problem Solving Activity (PSA)

#### Student number

*Please insert your student number:*

2	0				
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#### General Instructions

Students educated in English will have 1 hour 30 minutes to write this test.

Students not educated in English will be provided with 20 extra minutes, 1 hour and 50 minutes.

Remember to use your maps, information booklet and work from this morning.

#### Marks

*The examiners will complete this table, please leave blank:*

Question	Mark
Activity PSA1	/ 8
Activity PSA 2	/ 4
Activity PSA3	/ 8
Activity PSA4	/ 14
Activity PSA4	/ 6
<b>1, 2</b>	<b>/ 12</b>
<b>3, 4, 5</b>	<b>/ 28</b>
<b>Total for PSA</b>	<b>/ 40</b>

## Enquiry Question for Problem Solving Activity:

**How can Maynooth Station be developed to provide a sustainable and accessible transport hub for everyone?**

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### Activity PSA-1 People in Maynooth

Diagram PSA-1 Population pyramid for Maynooth 2022



**Activity PSA-1a** Describe two **features** of the population living in Maynooth that you observe in the population pyramid in diagram PSA-1.

Feature 1

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Feature 2


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(2 marks)

Diagram PSA-2: Average number of people getting on and off the train per day in Maynooth (to the nearest 10)

Year	2022	2021	2019	2018	2017	2016
Number of people who got on the train	3190	2080	3780	3360	3140	2700
Number of people who got off the train	2980	2140	3430	3370	3090	2570

**Activity PSA-1a** In the space below, **construct a graph** to give a visual presentation of the data in the table above (4 marks). Give your graph a title and label it appropriately (6 marks).



( \_\_ / 8 marks)

**Activity PSA-2 Expanding passenger numbers**

**Re-read the article on the expansion of the railway (Source 4).**

Think about the expansion of the railway services and the increase in passengers using the station:

- a. Describe 2 **advantages** the expansion of railway passenger numbers will bring to the area of Maynooth near the station. (2 marks)


- a. Describe 2 **disadvantages** the expansion of railway passenger numbers will bring to the area of Maynooth near the station? (2 marks)


( \_\_ / 4 marks)

**Activity PSA-3 Problems at the station**

You have been asked by Kildare County Council to produce resources and ideas to support an Active Travel Plan for the area around Maynooth Station for when the passenger numbers increase. On the aerial photograph below, annotate the photo to **name and explain 4 problems** at the station.

(8 marks)

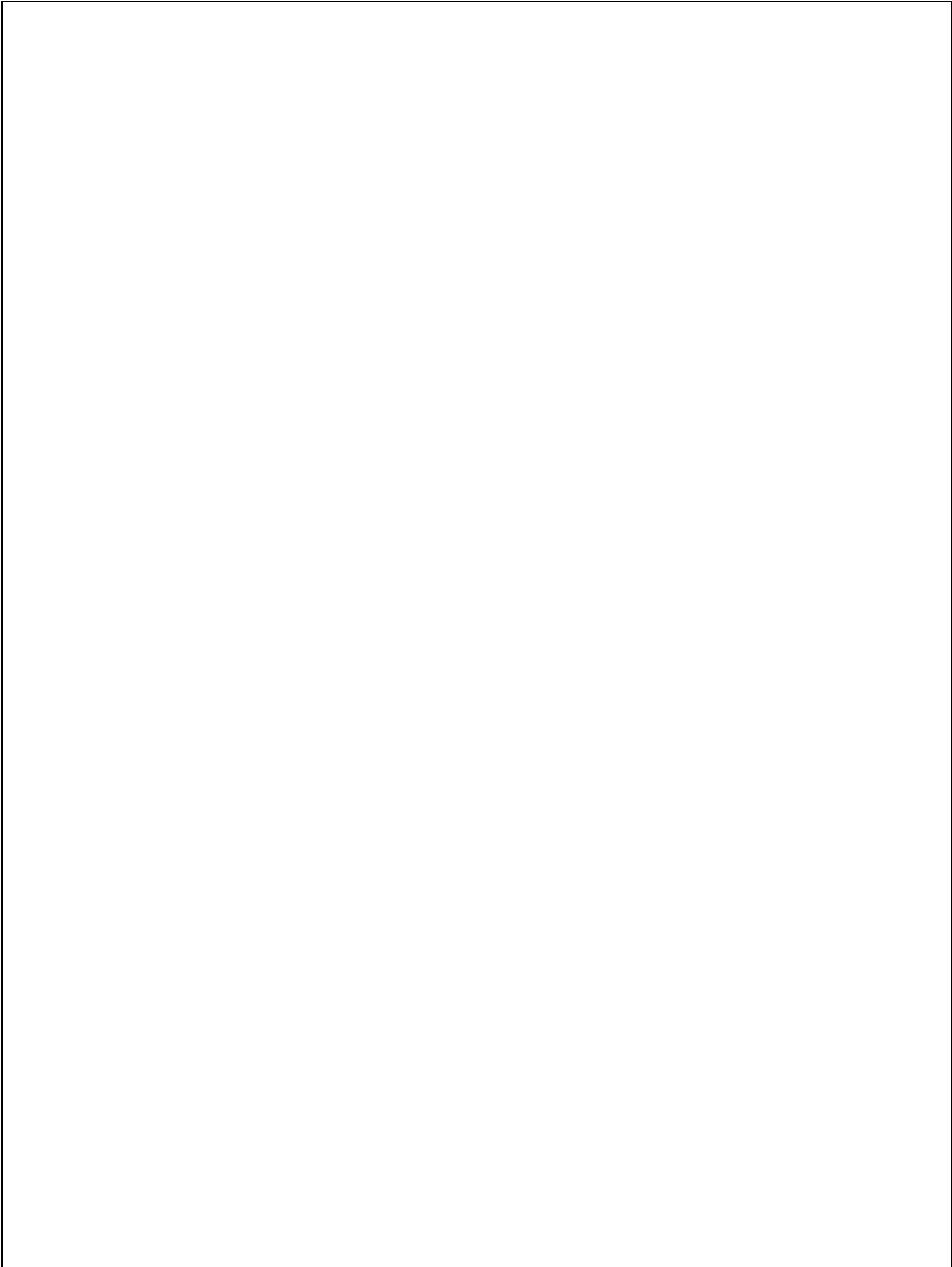


( \_\_ / 8 marks)

**Activity PSA4 Creating a Station plan**

Use your geographical knowledge, observations and skills to make a map of a more accessible Maynooth Station. Annotate your map to justify the features you have included.

(14 marks)

A large, empty rectangular box with a thin black border, intended for the student to draw and annotate their station plan for Maynooth Station.

( \_\_ / 14 marks)



**Activity PSA5 Opportunities and risks**

a. Think about the long-term sustainability of your proposed plan.

Describe **3** possible benefits and **3** risks for your plan in each of the aspects in the table below.

(6 marks)

<b>Aspects of sustainability</b>	<b>Benefits</b>	<b>Risks</b>
Environmental		
Financial		
Social		

( \_\_ / 6 marks)

**This is the end of the fieldwork exercise**





## 20<sup>th</sup> International Geography Olympiad

Maynooth, Ireland

19<sup>th</sup> – 23<sup>rd</sup> August 2024

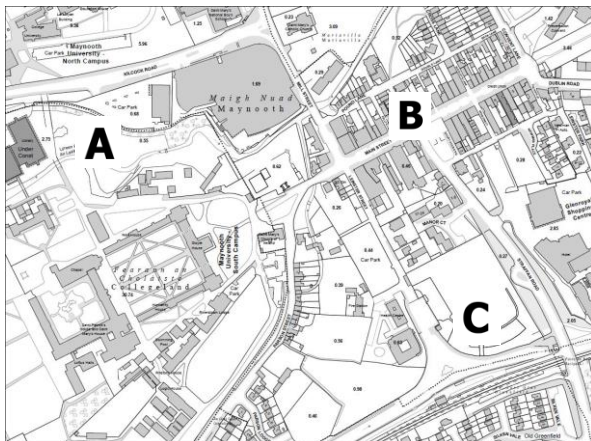
### 20<sup>th</sup> August 2024 - Fieldwork Exercise

#### INFORMATION BOOKLET

##### Source 1 - Map of Fieldwork Locations

The fieldwork will take place within walking distance of Maynooth University campus, taking in several sites on campus and in the wider town of Maynooth. There are 3 sites for fieldwork in the morning (A – C) where you will be asked to carry out several tasks. These tasks will provide data which will help you do the Problem Solving Activity this afternoon.

Map of Maynooth and the fieldwork sites (source: Open Street Map)



A: St Patrick's College and Maynooth University South Campus

B: Main Street

D: Maynooth Train Station and the Royal Canal

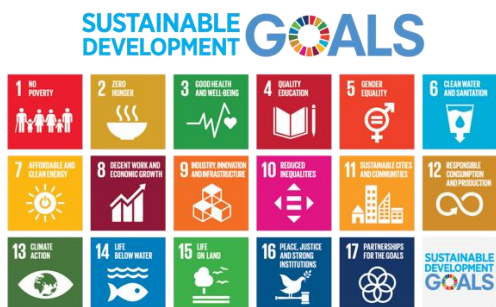
The IGEO Fieldwork Exercise is based around three enquiry questions about active travel. Please have these in your mind as you carry out the tasks today:

- How does Maynooth town and University help its residents and visitors achieve SDG3?
- How is good health encouraged for all in the design and facilities of the town and university?
- How could personal mobility and physical exercise to support well-being, be increased in Maynooth for all people?

## Source 2 - Background Information on Sustainability and Health

**World Health Organisation (WHO)** 'health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity'.

Figure 1: Sustainable Development Goals (United Nations)



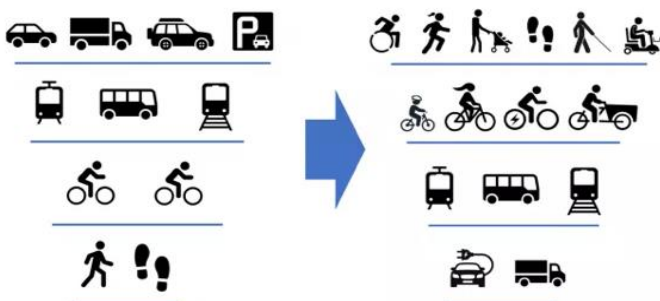
**The UN Sustainable Development Goals (SDG)** agreed in 2015 and set the agenda for global development to 2030. Sustainable Development Goal 3: 'ensure healthy lives and promote well-being for all at all ages', with the target 3.4: To reduce mortality from non-communicable diseases and promote mental health.

Figure 2: 5 Ways to Well-being (New Economic Foundation)



**Active Travel** is promoted in Ireland as part of the Climate Action Plan. It is defined in as "travelling with a purpose, using your own energy".

Figure 3: Symbols representing active travel (source: Dublin City Council)



Health, movement are all closely connected. Physical, mental and social well-being are encouraged by personal mobility and exercise, walking, cycling, meeting others and building a community through regular contact. Cycling, walking, wheeling, and using a non-motorised scooter to make journeys to work, school, or shops are all forms of active travel.

By 2030, the UN aims to reduce by one third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being.

**Within the IGEO Fieldwork Exercise you will apply your geographical knowledge and skills to consider how SDG3 can be enacted in Maynooth. You will critically assess places and spaces in Maynooth during the morning. And in the afternoon, you will carry out a plan to promote mental health and well-being for all people.**

### **Source 3 - Descriptions of Fieldwork Locations**

#### **Location A - St Patrick's College and Maynooth University**

Located at the western edge of Maynooth town, between the Lyreen River and the Royal Canal lies the campus shared by St Patrick's College and Maynooth University. First established in 1795 as a seminary to educate priests, today the campus is home to St Patrick's Pontifical University and several departments of Maynooth University.

#### **Location B – Maynooth Main Street and the Avenue**

Maynooth was an important medieval stronghold but by the early 18th century was largely run-down with some parts in ruins. However, from the 1750s the village was re-developed along a new Main Street that provided a line from the old seat of the Fitzgerald family at Maynooth Castle and their new estate at Carton House. Carton Avenue was given as a public amenity in the care of Kildare County Council in 1981, having previously been part of the Carton Estate.

#### **Location C - The Royal Canal and Maynooth Station**

The Royal Canal was designed in the late 18th century and was built between 1790 and 1817, reaching Maynooth in 1796. The Canal is 175 km long, with 76 locks, 65 aqueducts and 85 bridges. Historically it was used for passengers and freight. When the railways arrived, passengers transferred to the quicker rail service. The harbour, known locally as Duke's Harbour, is roughly triangular in shape and on the north side of the canal, opposite the railway station. The Midland Great Western Railway opened their main line from Broadstone, Dublin, to Maynooth in 1848. Surprisingly for such a large town, Maynooth Station was closed between 1947 and 1981 when the new commuter service to Maynooth began running. In 2005 Maynooth Station gained a new modern booking office, with a glass edifice, along with platform extensions but the original signal cabin, platforms and station masters house remain.

# THE IRISH TIMES

Tuesday 30<sup>th</sup> July 2024

Olivia Kelly



The extension of rail services to 600,000 people, trebling the current network, is finally moving forward with the grant of permission to bring the Dublin Area Rapid Transport (DART) to Maynooth, Co Kildare.

The Maynooth DART, first announced almost 20 years ago, has been approved by An Bord Pleanála (the planning board in Ireland), with services expected to start running on the line by the end of the decade, Irish Rail said.

The €1 billion project, Irish Rail is calling Dart+ West will double train services along the Maynooth line from six to 12 per hour per direction, increasing hourly passenger capacity from 5,000 to more than 13,000 each way.

Dart+ West is the first phase of Irish Rail's plans for a major expansion of Dart services, which also includes the electrification of rail lines and other upgrades around Dublin.