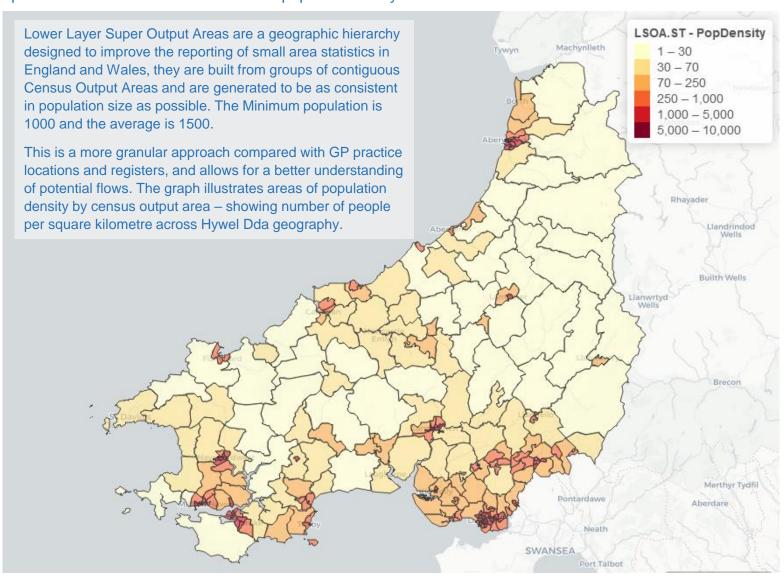
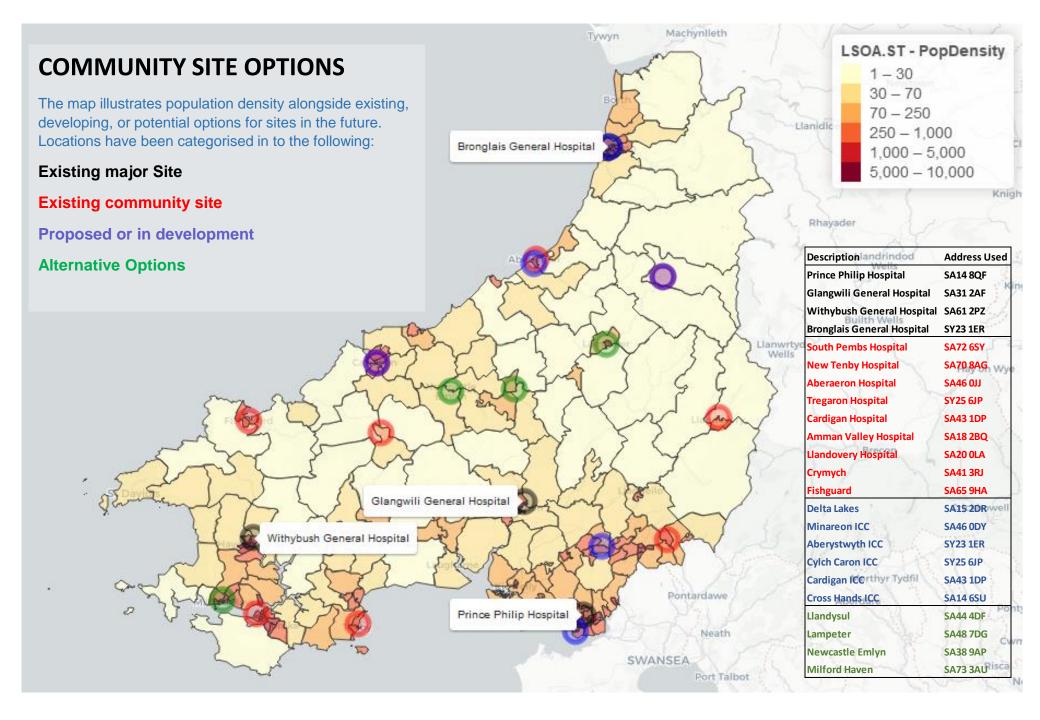
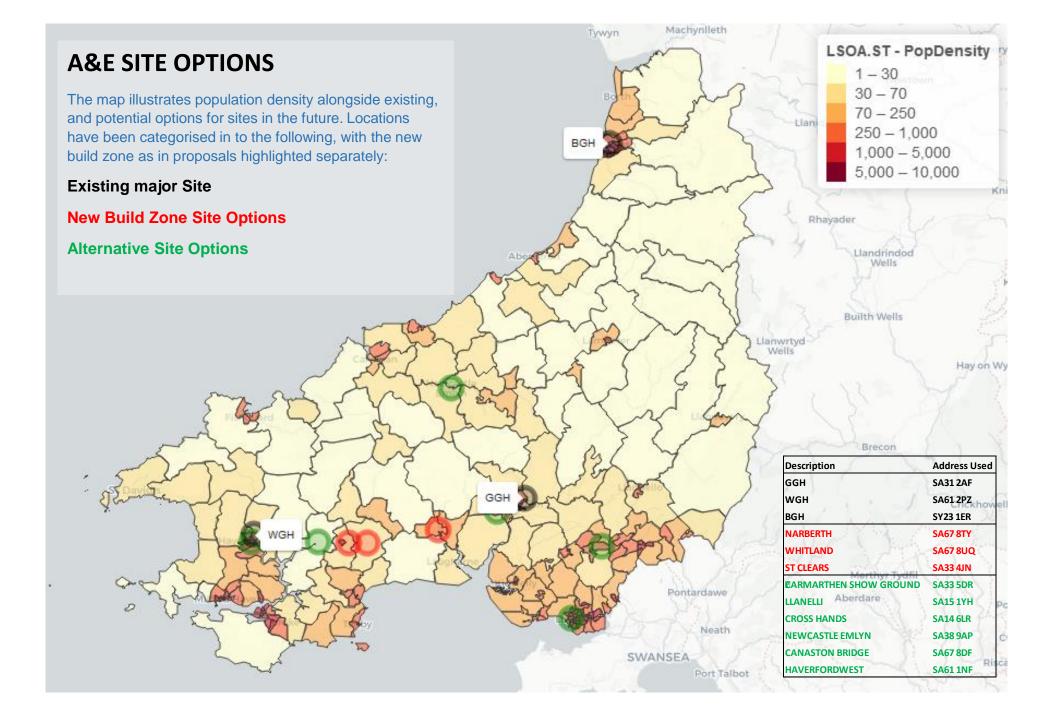
# POPULATION DENSITY BY LSOA

Drivetimes and locations have been mapped from Lower Layer Super Output Areas, which is the smallest population collection that we can use for population analysis.





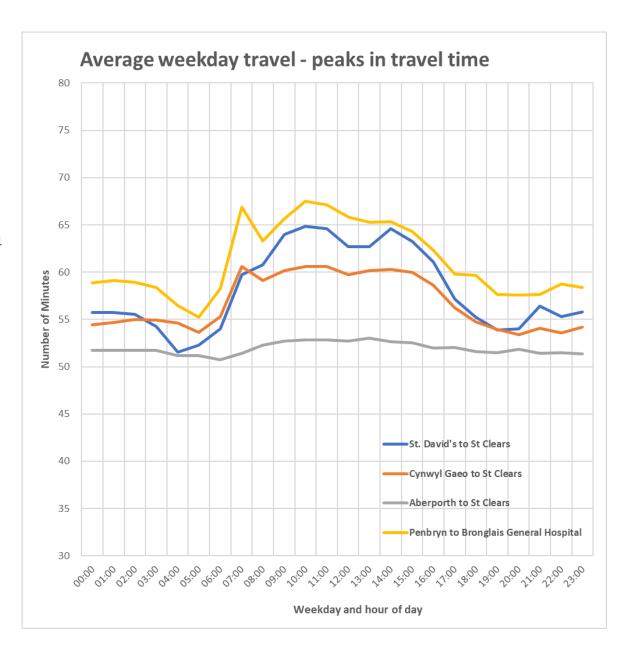


# **DRIVETIMES – BY TIME OF DAY**

In order to understand impact on travel time, we have analysed travel times based on optimistic and pessimistic as well as best guess estimates – this is based on historic data via google mapping, and extracted from the population weighted centroid of each LSOA.

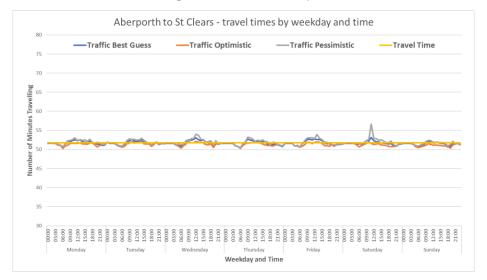
There is obviously a variance in travel estimates by time of day – as an example the graph shows the average weekday times for 4 different longest routes to a new site option scenario. Generally the peak times are between 10am – 4pm and particularly 10am - 11am and 1pm-2pm.

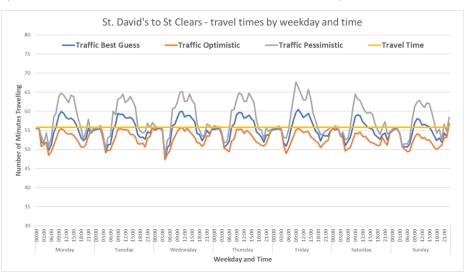


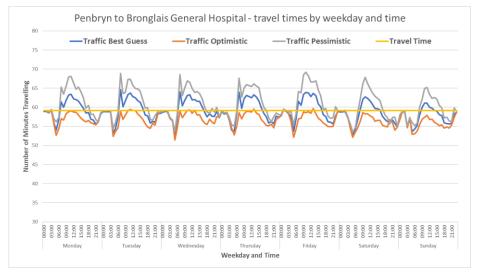


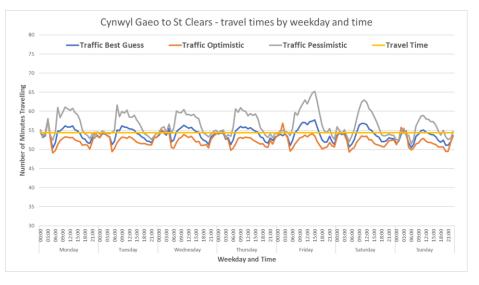
# DRIVETIMES – BY TIME OF DAY AND DAY OF WEEK

It is clear that traffic conditions impact travel times on some routes more than others, for example travel on the A40 to St. Clears option shows higher impact than the route from Aberporth. Detailed analysis for urgent and emergency care for each site option is shown on the following slides - we base peak traffic conditions and pessimistic travel time estimates on a 10am departure.



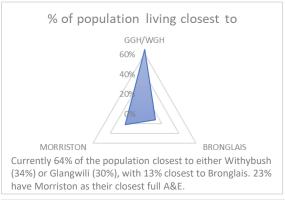






# **STATUS QUO**

The information below describes drivetime information associated with urgent and emergency travel times, including areas with furthest travel.

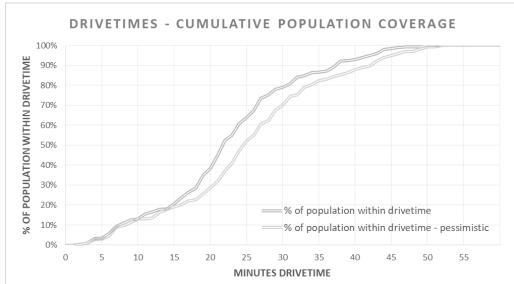


Average Drivetime	Peak with pessimistic traffic conditions
50 minutes	52 minutes
<b>79</b> %	70%
98%	95%
100%	100%
	50 minutes 79% 98%

# 

Large distance / density combinations include Tyisha, Bigyn, Tenby: South

Average drivetime in minutes



Ward Area	Drive (mins)	To nearest location of
Aberporth	50	GLANGWILI GENERAL HOSPITAL
Aberporth	49	GLANGWILI GENERAL HOSPITAL
Llangybi	47	BRONGLAIS GENERAL HOSPITAL
Llandysilio-gogo	46	GLANGWILI GENERAL HOSPITAL
Penbryn	44	GLANGWILI GENERAL HOSPITAL
Beulah	44	GLANGWILI GENERAL HOSPITAL
Pen-parc	44	WITHYBUSH GENERAL HOSPITAL
Cynwyl Gaeo	43	GLANGWILI GENERAL HOSPITAL
Pen-parc	43	WITHYBUSH GENERAL HOSPITAL



# **SITE OPTION – ST CLEARS**

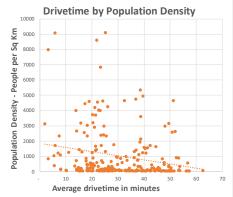
The information below describes drivetime information associated with urgent and emergency travel times, including areas with furthest travel.

% of population living closest to
NEW SITE
60%
40%
MORRISTON BRONGLAIS
20% increase in population with closest A&E = Morriston

17% increase in population with closest A&E = Bronglais

Key Statistics:	Average Drivetime	Peak with pessimistic traffic conditions
Max drivetime	56 minutes	65 minutes
Within 30 minutes	58%	49%
Within 45 minutes	91%	82%
Within 60 minutes	100%	99%

## **Population Density Plot**



Large distance / density combinations include Milford: Hakin, Tyisha, Haverfordwest: Garth

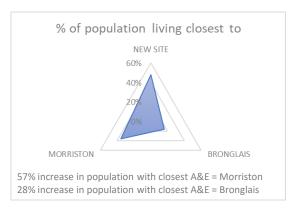
#### DRIVETIMES - CUMULATIVE POPULATION COVERAGE 100% % OF POPULATION WITHIN DRIVETIME 90% 80% 70% 60% 50% 40% 30% 20% === % of population within drivetime 10% % of population within drivetime - pessimistic 0% 15 50 55 0 10 20 25 30 45 **MINUTES DRIVETIME**

Ward Area	Drive (mins)	To nearest location of
St. David's	56	ST CLEARS
Cynwyl Gaeo	54	ST CLEARS
Llanrhian	51	ST CLEARS
Dinas Cross	50	ST CLEARS
Penbryn	50	BRONGLAIS GENERAL HOSPITAL
Aberporth	50	ST CLEARS
Goodwick	50	ST CLEARS
St. Ishmael's	50	ST CLEARS
Llandysilio-gogo	49	BRONGLAIS GENERAL HOSPITAL



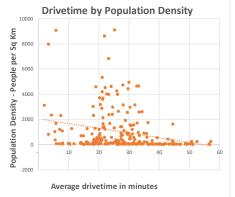
# **SITE OPTION** – NARBERTH

The information below describes drivetime information associated with urgent and emergency travel times, including areas with furthest travel.



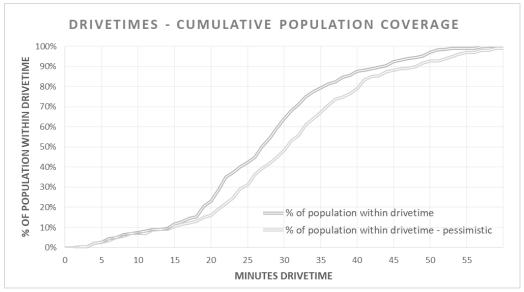
Key Statistics:	Average Drivetime	Peak with pessimistic traffic conditions
Max drivetime	57 minutes	62 minutes
Within 30 minutes	64%	48%
Within 45 minutes	92%	88%
Within 60 minutes	100%	99%

## **Population Density Plot**



Large distance / density combinations include Tyisha, Bigyn

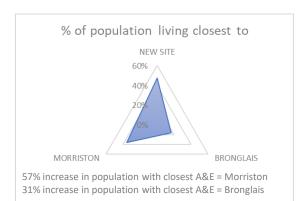
Ward Area	Drive (mins)	To nearest location of
Llandysul Town	57	BRONGLAIS GENERAL HOSPITAL
Cynwyl Gaeo	57	MORRISTON
Capel Dewi	57	BRONGLAIS GENERAL HOSPITAL
Llanybydder	53	BRONGLAIS GENERAL HOSPITAL
Llandovery	51	MORRISTON
Llanwenog	51	BRONGLAIS GENERAL HOSPITAL
Llandovery	51	MORRISTON
Penbryn	49	NARBERTH
Llanfihangel-ar-Arth	49	NARBERTH





# **SITE OPTION – WHITLAND**

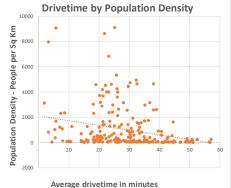
The information below describes drivetime information associated with urgent and emergency travel times, including areas with furthest travel.



**Key Statistics:** Average Drivetime Peak with pessimistic traffic conditions

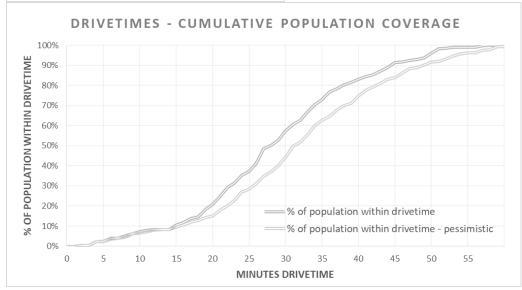
Max drivetime	57 minutes	62 minutes
Within 30 minutes	57%	44%
Within 45 minutes	91%	84%
Within 60 minutes	100%	99%

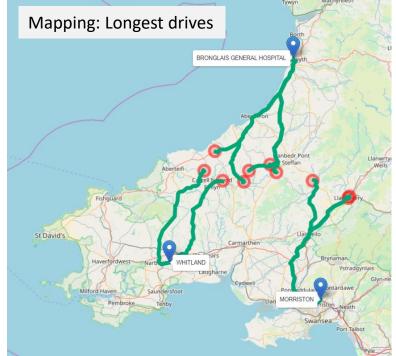
# **Population Density Plot**



Large distance / density combinations include Tyisha, Bigyn, Milford: Hakin

Ward Area	Drive (mins)	To nearest location of
Llandysul Town	57	BRONGLAIS GENERAL HOSPITAL
Cynwyl Gaeo	57	MORRISTON
Capel Dewi	57	BRONGLAIS GENERAL HOSPITAL
Llanybydder	53	BRONGLAIS GENERAL HOSPITAL
Llandovery	51	MORRISTON
Llanwenog	51	BRONGLAIS GENERAL HOSPITAL
Beulah	51	WHITLAND
Llandyfriog	50	WHITLAND
Penbryn	50	BRONGLAIS GENERAL HOSPITAL





# **SITE OPTION – CARMARTHEN SHOW GROUND**

BRONGLAIS

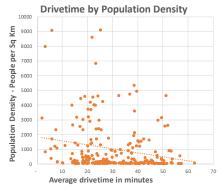
The information below describes drivetime information associated with urgent and emergency travel times, including areas with furthest travel.

% of pop	oulation living closest to
	NEW SITE 60% 40% 20%

29% increase in population with closest A&E = Morriston 17% increase in population with closest A&E = Bronglais

Key Statistics:	Average Drivetime	Peak with pessimistic traffic conditions
Max drivetime	63 minutes	73 minutes
Within 30 minutes	54%	46%
Within 45 minutes	83%	69%
Within 60 minutes	100%	95%

## **Population Density Plot**



Large distance / desity combinations include Milford: Hakin, Tyisha, Haverfordwest: Garth

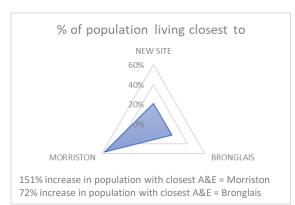
## DRIVETIMES - CUMULATIVE POPULATION COVERAGE 100% % OF POPULATION WITHIN DRIVETIME 90% 80% 70% 60% 50% 40% 30% 20% === % of population within drivetime 10% % of population within drivetime - pessimistic 55 10 15 20 25 30 50 MINUTES DRIVETIME

Ward Area	Drive (mins)	To nearest location of
St. David's	63	CARMARTHEN SHOW GROUND
Llanrhian	57	CARMARTHEN SHOW GROUND
Dinas Cross	57	CARMARTHEN SHOW GROUND
Goodwick	57	CARMARTHEN SHOW GROUND
St. Ishmael's	56	CARMARTHEN SHOW GROUND
Cynwyl Gaeo	56	CARMARTHEN SHOW GROUND
Aberporth	54	CARMARTHEN SHOW GROUND
Aberporth	53	CARMARTHEN SHOW GROUND
Newport	53	CARMARTHEN SHOW GROUND



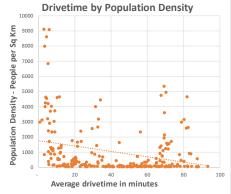
# **SITE OPTION** – LLANELLI

The information below describes drivetime information associated with urgent and emergency travel times, including areas with furthest travel.



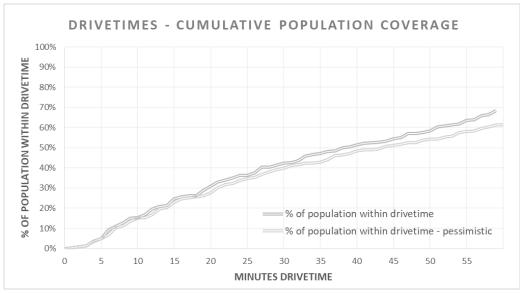
Key Statistics:	Average Drivetime	Peak with pessimistic traffic conditions
Max drivetime	93 minutes	107 minutes
Within 30 minutes	42%	40%
Within 45 minutes	54%	51%
Within 60 minutes	69%	61%

# **Population Density Plot**



Large distance / density combinations include Milford, Haverfordwest, Pembroke Dock

Ward Area	Drive (mins)	To nearest location of
St. David's	93	MORRISTON
Llanrhian	88	MORRISTON
Dinas Cross	88	MORRISTON
Goodwick	88	MORRISTON
St. Ishmael's	87	MORRISTON
Solva	84	MORRISTON
Fishguard North East	84	MORRISTON
Milford: Hakin	83	MORRISTON
Scleddau	82	MORRISTON





# **SITE OPTION – CROSS HANDS**

The information below describes drivetime information associated with urgent and emergency travel times, including areas with furthest travel.



-97%, decrease in population with closest A&E = Morriston 24% increase in population with closest A&E = Bronglais

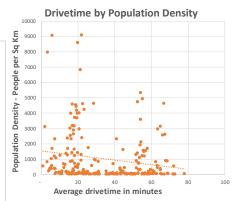
## **Key Statistics:**

Average	Drivetime

Peak with pessimistic traffic conditions

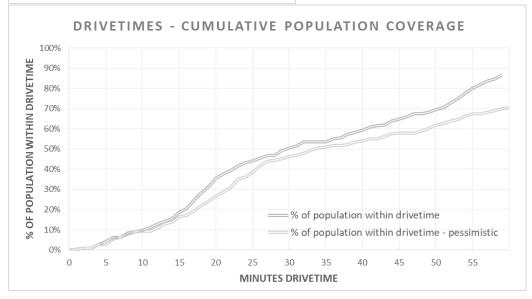
		•
Max drivetime	78 minutes	93 minutes
Within 30 minutes	50%	46%
Within 45 minutes	65%	58%
Within 60 minutes	87%	70%

## **Population Density Plot**



Large distance / density combinations include Milford, Haverfordwest, Pembroke Dock

Ward Area	Drive (mins)	To nearest location of
St. David's	78	CROSS HANDS
Llanrhian	73	CROSS HANDS
Dinas Cross	73	CROSS HANDS
Goodwick	72	CROSS HANDS
St. Ishmael's	72	CROSS HANDS
Solva	69	CROSS HANDS
Newport	69	CROSS HANDS
Fishguard North West	68	CROSS HANDS
Milford: Hakin	67	CROSS HANDS



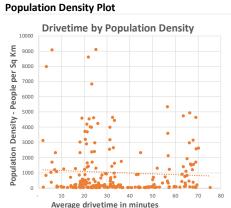


# **SITE OPTION – NEWCASTLE EMLYN**

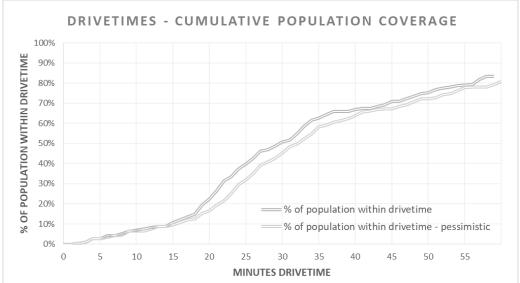
The information below describes drivetime information associated with urgent and emergency travel times, including areas with furthest travel.



Key Statistics:	Average Drivetime	Peak with pessimistic traffic conditions
Max drivetime	75 minutes	79 minutes
Within 30 minutes	51%	45%
Within 45 minutes	71%	67%
Within 60 minutes	84%	81%



Large distance / density combinations include Pembroke Dock, Milford, Haverfordwest



Ward Area	Drive (mins)	To nearest location of
St. Ishmael's	75	NEWCASTLE EMLYN
Milford: Hakin	70	NEWCASTLE EMLYN
Neyland: West	70	NEWCASTLE EMLYN
Milford: Hubberston	69	NEWCASTLE EMLYN
Milford: Hakin	69	NEWCASTLE EMLYN
St. David's	69	NEWCASTLE EMLYN
Neyland: East	69	NEWCASTLE EMLYN
Solva	68	NEWCASTLE EMLYN
Pembroke Dock: Pennar	68	NEWCASTLE EMLYN



# **SITE OPTION** – CANASTON BRIDGE

The information below describ drivetime information associa urgent and emergency travel including areas with furthest t

> % of population living closest to **NEW SITE**

66% increase in population with closest A&E = Morriston

31% increase in population with closest A&E = Bronglais

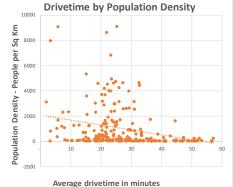
MORRISTON

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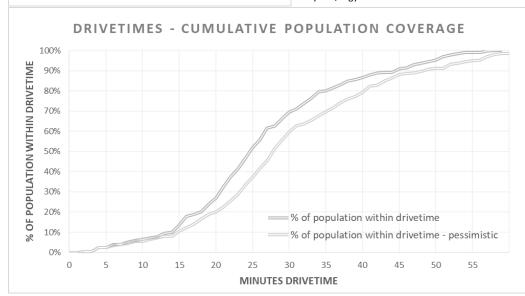
**BRONGLAIS** 

Key Statistics:	Average Drivetime	Peak with pessimistic traffic conditions
Max drivetime	57 minutes	65 minutes
Within 30 minutes	69%	60%
Within 45 minutes	91%	88%
Within 60 minutes	100%	99%

## **Population Density Plot**



Large distance / density combinations include Tyisha, Bigyn



Ward Area	Drive (mins)	To nearest location of
Llandysul Town	57	BRONGLAIS GENERAL HOSPITAL
Cynwyl Gaeo	57	MORRISTON
Capel Dewi	57	BRONGLAIS GENERAL HOSPITAL
Llandyfriog	53	CANASTON BRIDGE
Llanybydder	53	BRONGLAIS GENERAL HOSPITAL
Llanfihangel-ar-Arth	52	MORRISTON
Llangeler	52	CANASTON BRIDGE
Llanwenog	51	BRONGLAIS GENERAL HOSPITAL
Llandovery	51	MORRISTON

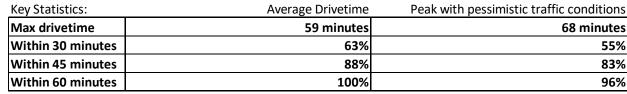


# **SITE OPTION – HAVERFORDWEST**

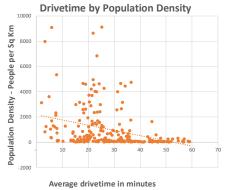
The information below describes

The information below describes
drivetime information associated with
urgent and emergency travel times,
including areas with furthest travel.





## **Population Density Plot**



Large distance / density combinations include Tyisha, Bigyn, Tenby: South

#### DRIVETIMES - CUMULATIVE POPULATION COVERAGE 100% POPULATION WITHIN DRIVETIME 90% 80% 70% 60% 50% 40% 30% 20% === % of population within drivetime OF 10% % of population within drivetime - pessimistic 0% 0 10 15 20 25 30 45 50 55 MINUTES DRIVETIME

Ward Area	Drive (mins)	To nearest location of
Beulah	59	HAVERFORDWEST
Llangeler	59	MORRISTON
Llandyfriog	58	BRONGLAIS GENERAL HOSPITAL
Llandysul Town	57	BRONGLAIS GENERAL HOSPITAL
Cynwyl Gaeo	57	MORRISTON
Cenarth	57	HAVERFORDWEST
Capel Dewi	57	BRONGLAIS GENERAL HOSPITAL
Aberporth	55	HAVERFORDWEST
Aberporth	55	HAVERFORDWEST

