



Facilities Planning Model Assessment of
Swimming Pool Provision for
Vale of White Horse District Council

Layered Maps

14 December 2023

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Other than data provided by Vale of White Horse District Council and Sport England, this document also contains data from the following sources:

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Population distribution based on 2021 Census data for output areas. Population for 2023 and 2041 modified by 2018-based Subnational Population Projections for Local Authorities. Adapted from data from the Office for National Statistics licensed under the Open Government Licence v.3.0. London boroughs modified by © GLA 2021-based demographic projections – ward populations, identified capacity scenario.

Index of Multiple Deprivation data contains public sector information licensed under the Open Government Licence v3.0.

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1. DEMAND FOR SWIMMING POOLS

Run 1: Existing Provision (2023)

Run 2: Forward Projection (2041)

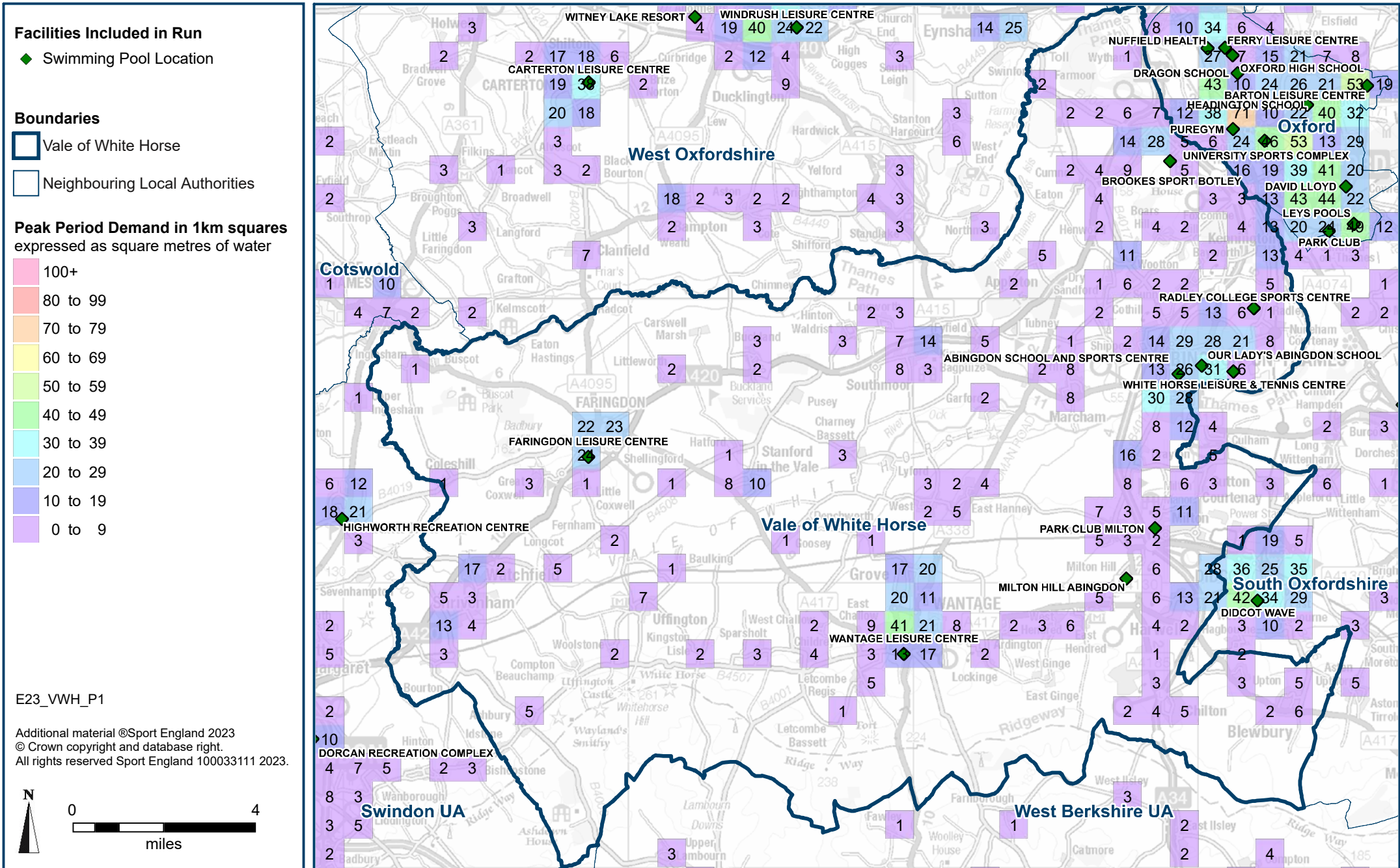
Run 3: Options for Changes to Supply Scenario 1 (2041)

Deprivation (IMD 2019)

Facilities Planning Model - Pools Demand for Vale of White Horse

RUN 1: Existing Provision (2023)

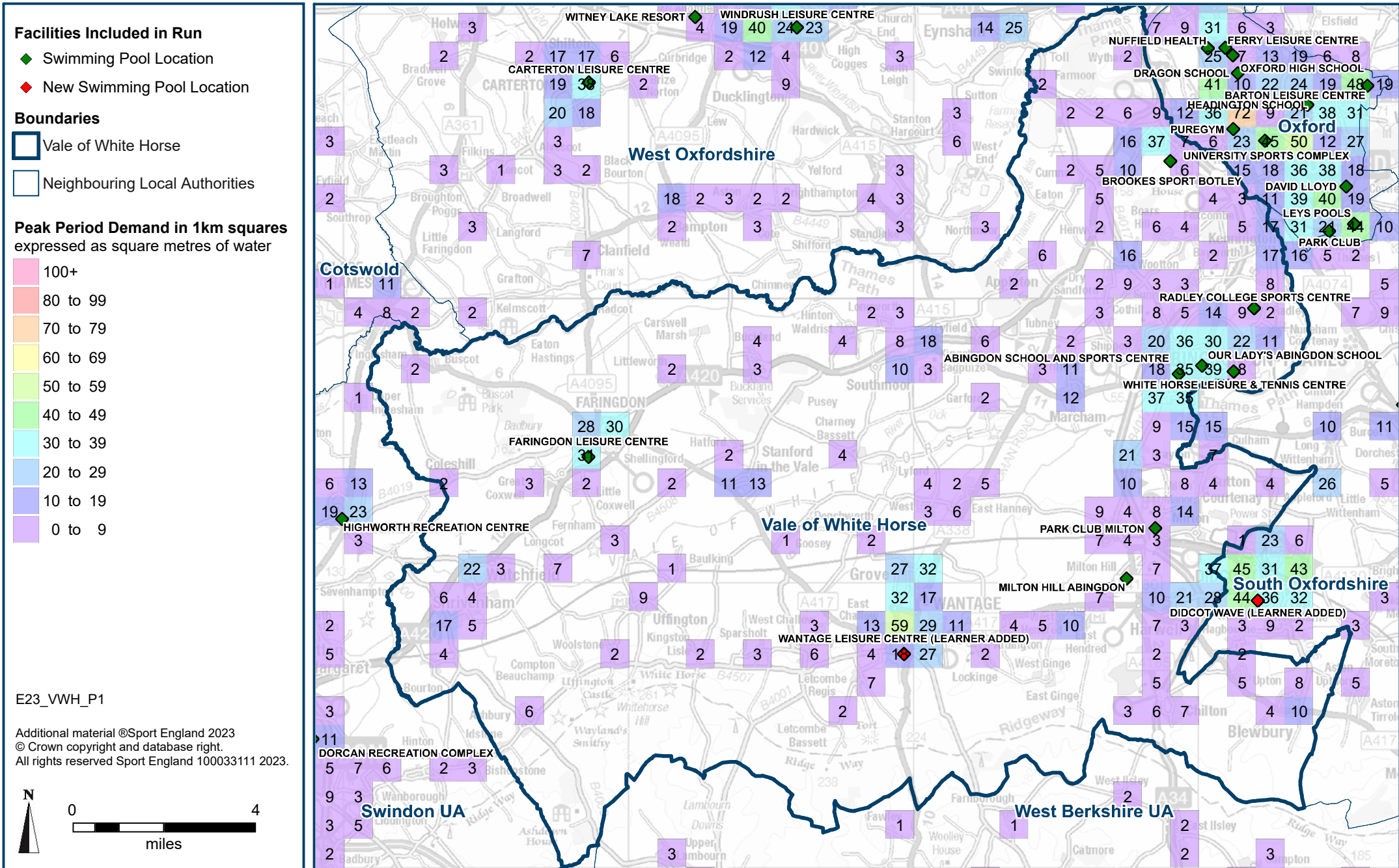
Peak period demand aggregated at 1km square grid expressed as square metres of water (figure labels) and shown thematically (colours).



Facilities Planning Model - Pools Demand for Vale of White Horse

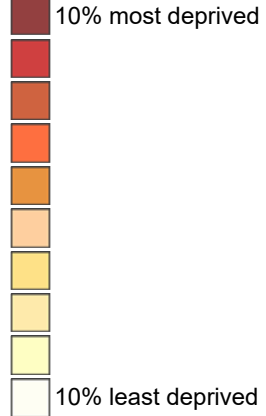
RUN 2: Forward Projection (2041)

Peak period demand aggregated at 1km square grid expressed as square metres of water (figure labels) and shown thematically (colours).



Deprivation shown thematically (colours) at lower super output area level by decile.

Index of Multiple Deprivation (2019)



Facilities Included in Runs

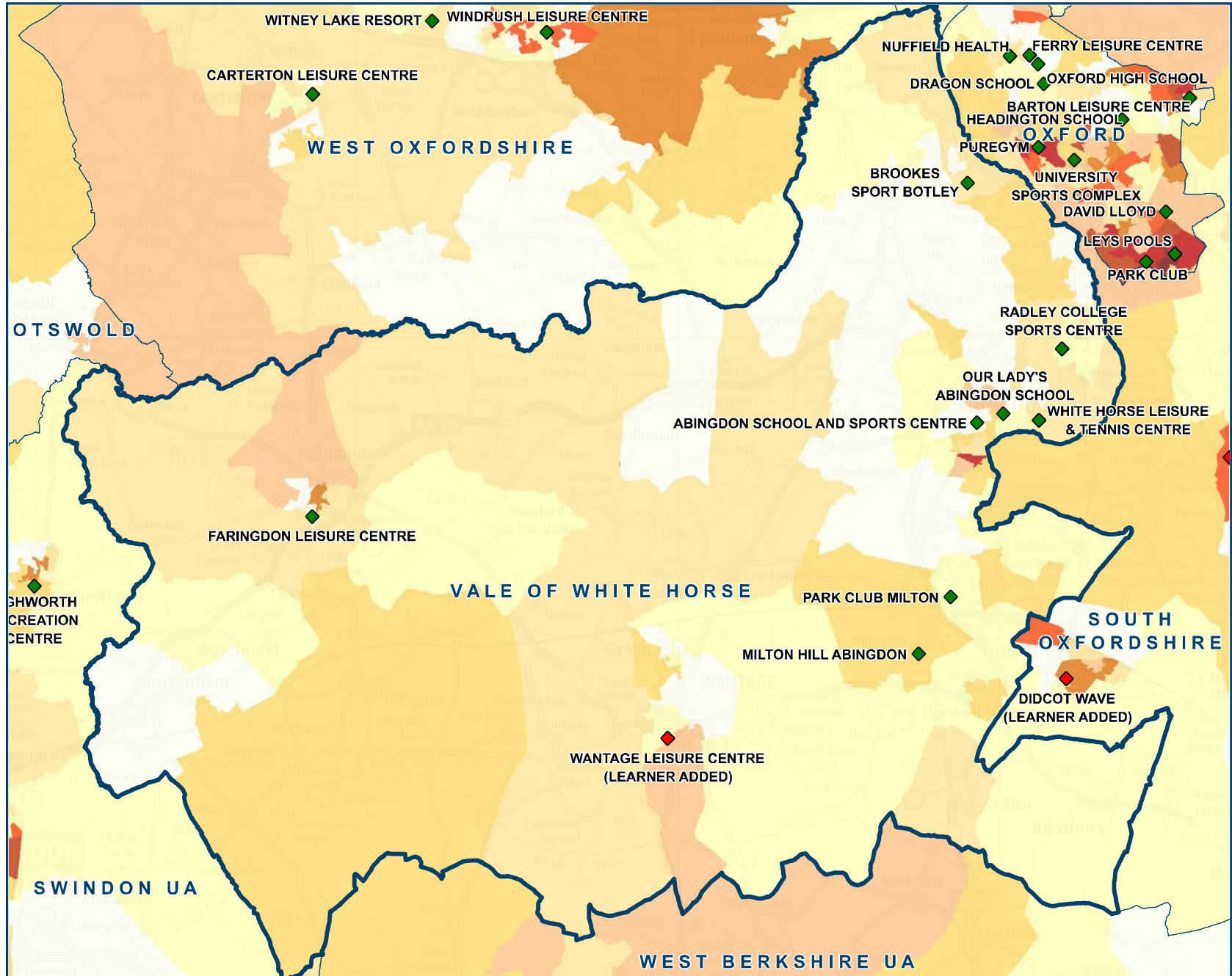
- ◆ Existing Swimming Pool Location
- ◆ Proposed Swimming Pool Location

Boundaries

- ▭ Vale of White Horse
- ▭ Neighbouring Local Authorities

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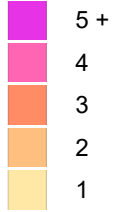
2. TRANSPORT ACCESS TO SWIMMING POOLS

Walking and Driving Coverage

Cycle Coverage

Public Transport Access

Number of swimming pool sites within 20 minutes walking time of output area centroids (approx. 1 mile)



Number of swimming pool sites within 20 minutes driving time of output area centroids



Facilities Included in Run

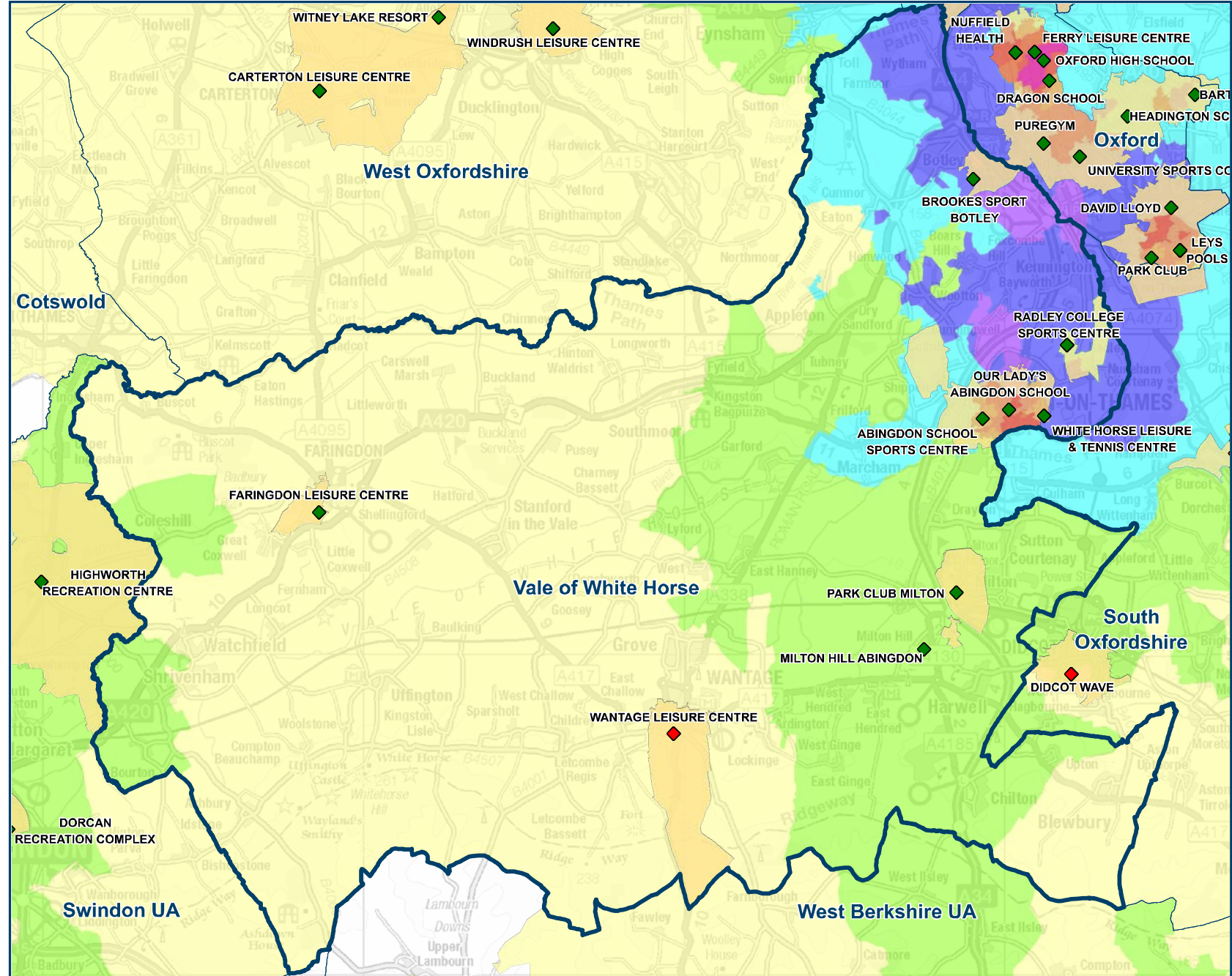
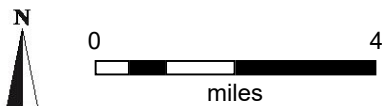
- ◆ Swimming Pool Location
- ◆ New Swimming Pool Location

Boundaries

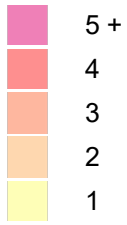
- Vale of White Horse
- Neighbouring Local Authorities

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Number of swimming pool sites within 20 minutes cycle of output area centroids (approximately 4 miles).



Facilities Included in Runs

- ◆ Existing Swimming Pool
- ◆ Proposed Swimming Pool

Boundaries

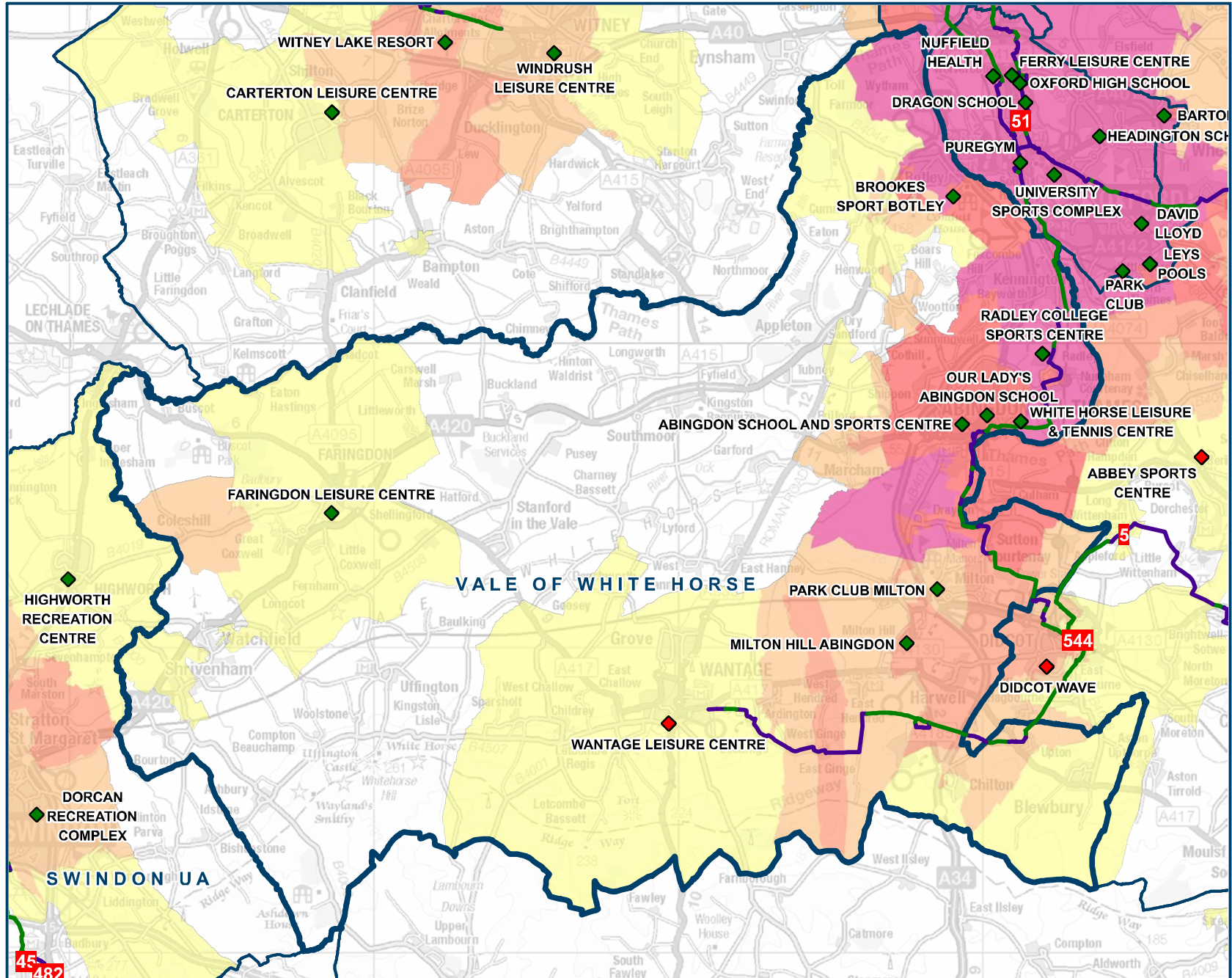
- Vale of White Horse
- Neighbouring Local Authorities

National Cycle Network

- On Road
- Traffic Free

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Areas within walking time shown thematically (colours) from bus, coach and tram stops, and railway, metro and underground stations.

Public Transport

- Railway/Metro/Underground Station

Walk Time from Station

- 5 minutes
- 10 minutes
- 15 minutes

Walk Time from Bus Stop

- 5 minutes

Facilities Included in Runs

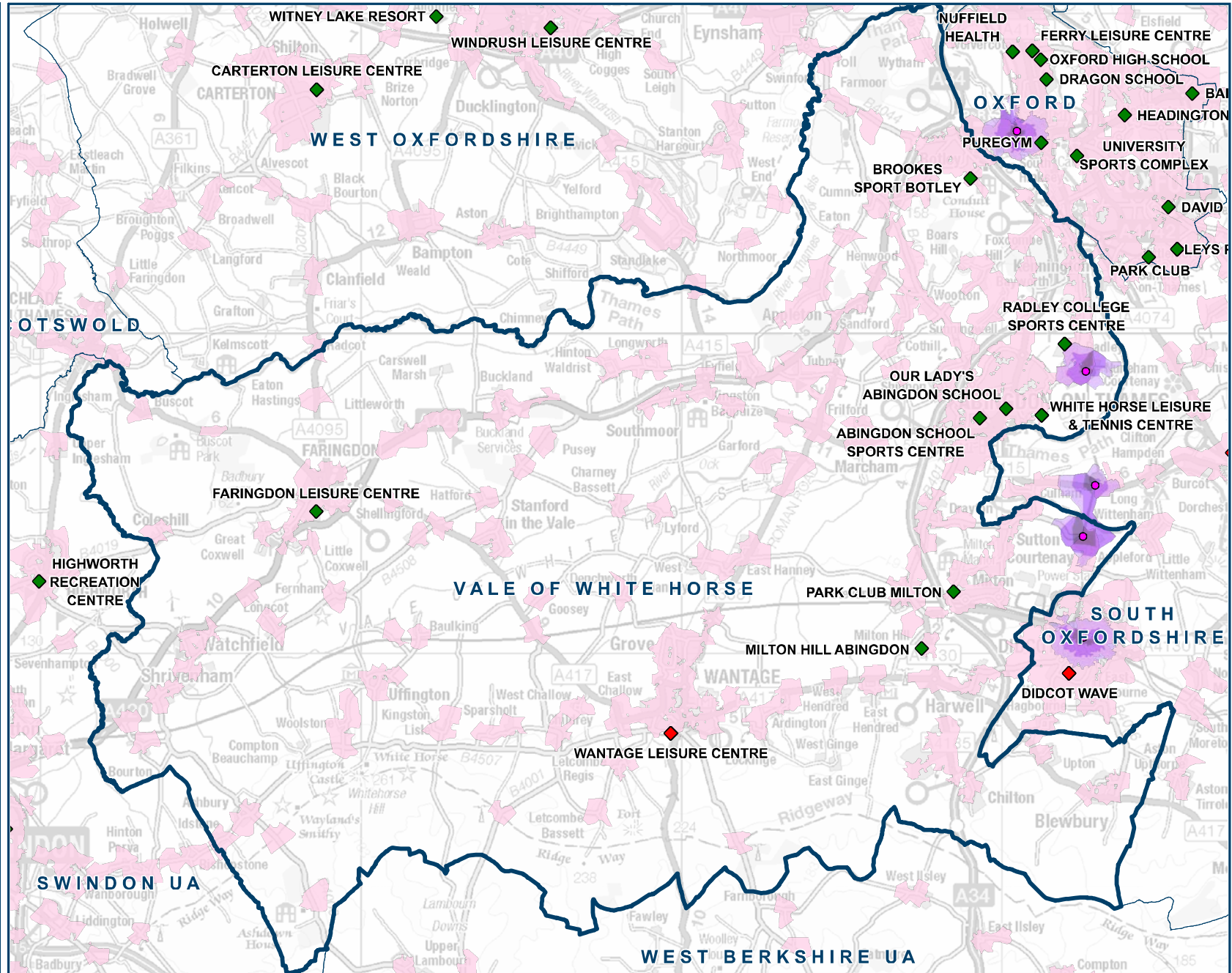
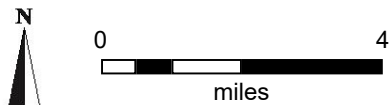
- ◆ Existing Swimming Pool
- ◆ Proposed Swimming Pool

Boundaries

- Vale of White Horse
- Neighbouring Local Authorities

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3. EXPORT OF SATISFIED DEMAND AND IMPORT OF USED CAPACITY

Run 1: Existing Provision (2023)

Run 2: Forward Projection (2041)

Run 3: Options for Changes to Supply Scenario 1 (2041)

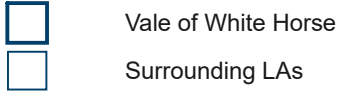
Facility Planning Model - Pools Import/Export for Vale of White Horse

RUN 1: Existing Provision (2023)

Imported and exported demand between study area and surrounding local authorities shown thematically (size of lines) as visits per week in the peak period.

Boundaries

Values in areas show retained vpwpp



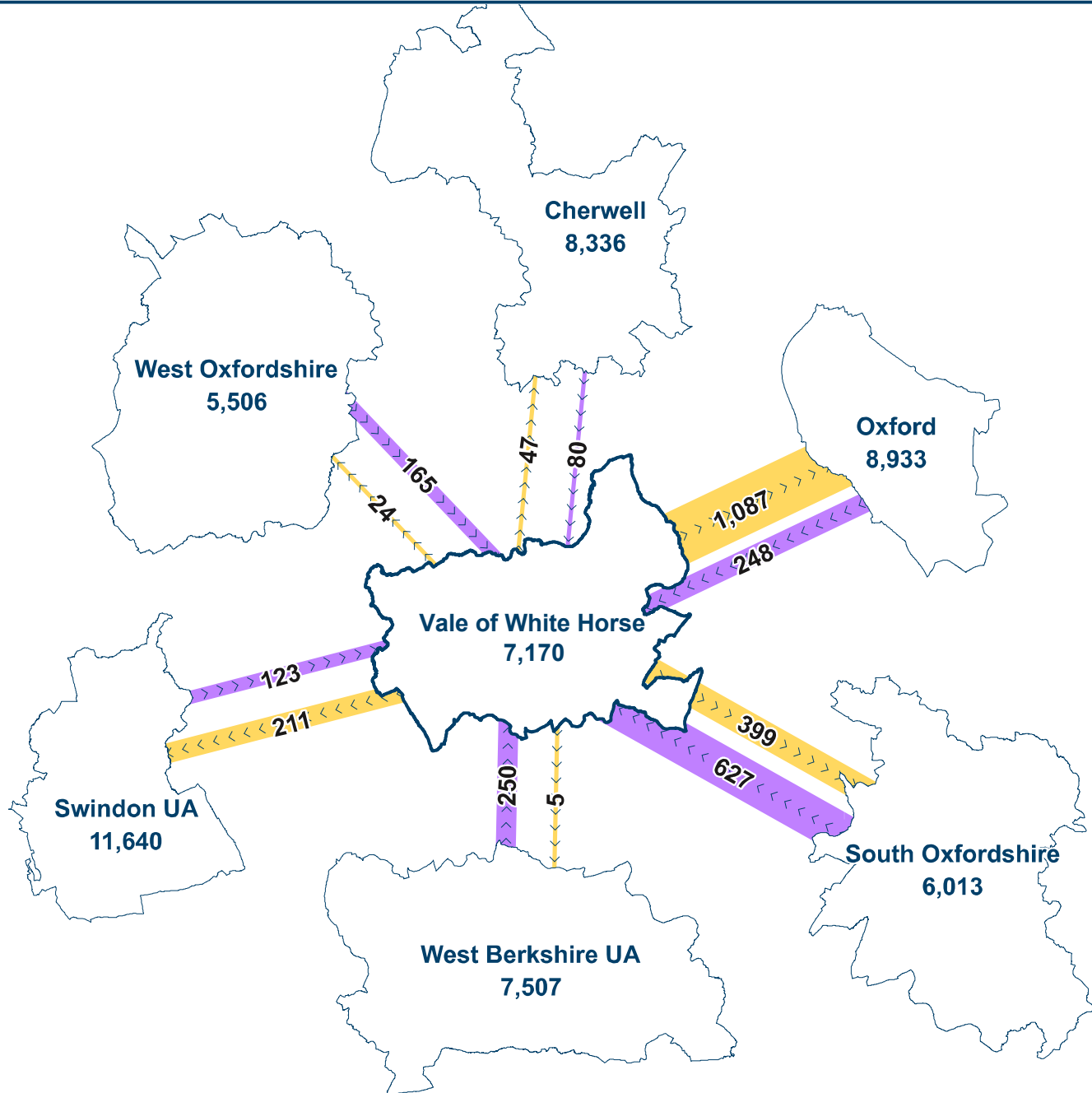
Import/Export

Values on arrows show flow vpwpp

>>>> Direction of flow

Import

Export



E23_VWH_P1



Facility Planning Model - Pools Import/Export for Vale of White Horse

RUN 2: Forward Projection (2041)

Imported and exported demand between study area and surrounding local authorities shown thematically (size of lines) as visits per week in the peak period.

Boundaries

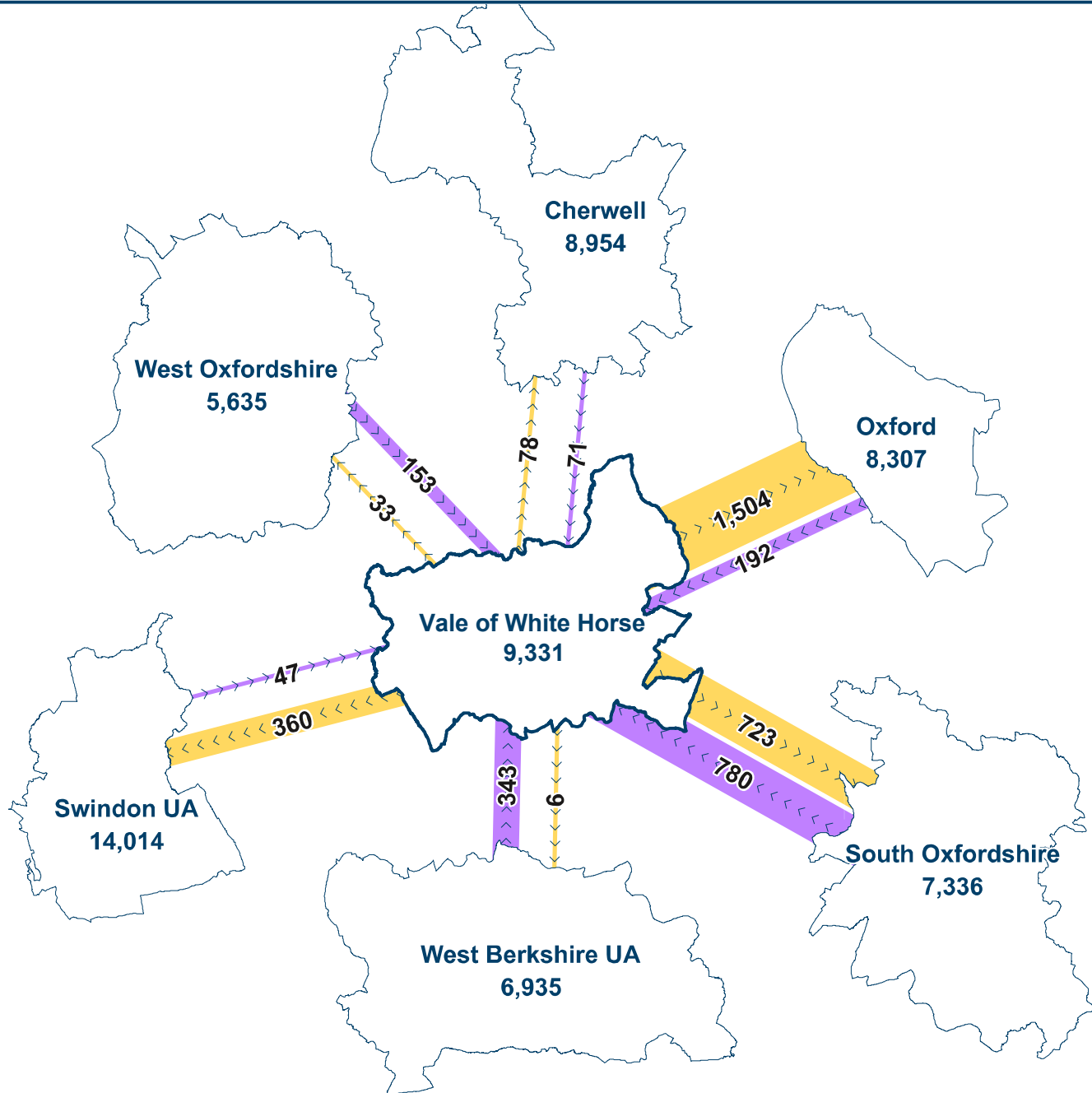
Values in areas show retained vpwpp

-  Vale of White Horse
-  Surrounding LAs

Import/Export

Values on arrows show flow vpwpp

- >>>> Direction of flow
-  Import
-  Export



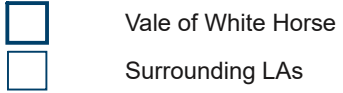
Facility Planning Model - Pools Import/Export for Vale of White Horse

RUN 3: Options for Changes to Supply Scenario 1 (2041)

Imported and exported demand between study area and surrounding local authorities shown thematically (size of lines) as visits per week in the peak period.

Boundaries

Values in areas show retained vpwpp



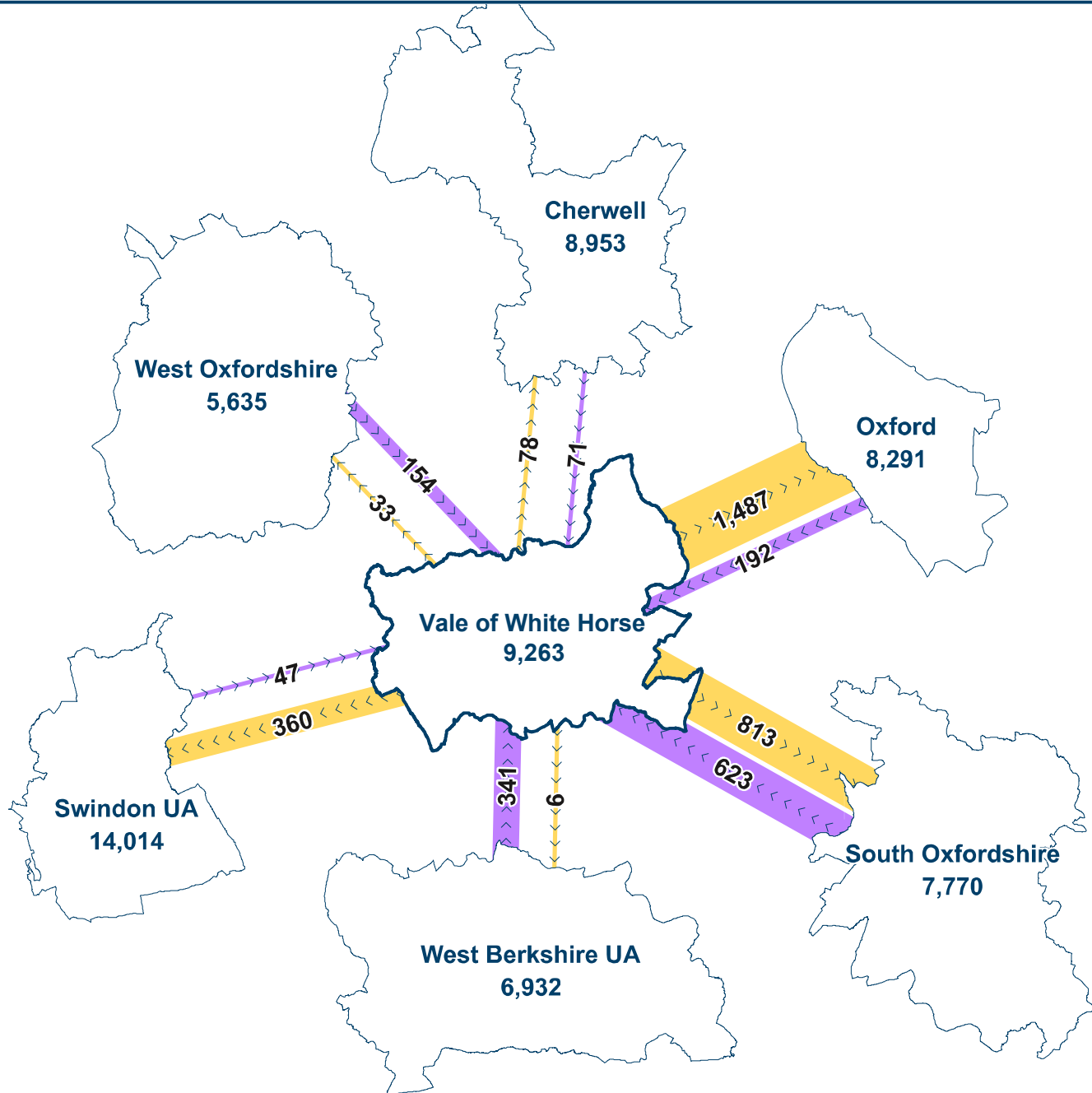
Import/Export

Values on arrows show flow vpwpp

>>>> Direction of flow

Import (represented by a purple arrow)

Export (represented by a yellow arrow)



4. UNMET DEMAND

Run 1: Existing Provision (2023)

Run 2: Forward Projection (2041)

Run 3: Options for Changes to Supply Scenario 1 (2041)

Facilities Planning Model - Pools Unmet Demand for Vale of White Horse

RUN 1: Existing Provision (2023)

Unmet demand aggregated at 1km square grid expressed as sqm of water (figure labels) and shown thematically (colours).

Facilities Included in Run

- ◆ Swimming Pool Location

Boundaries

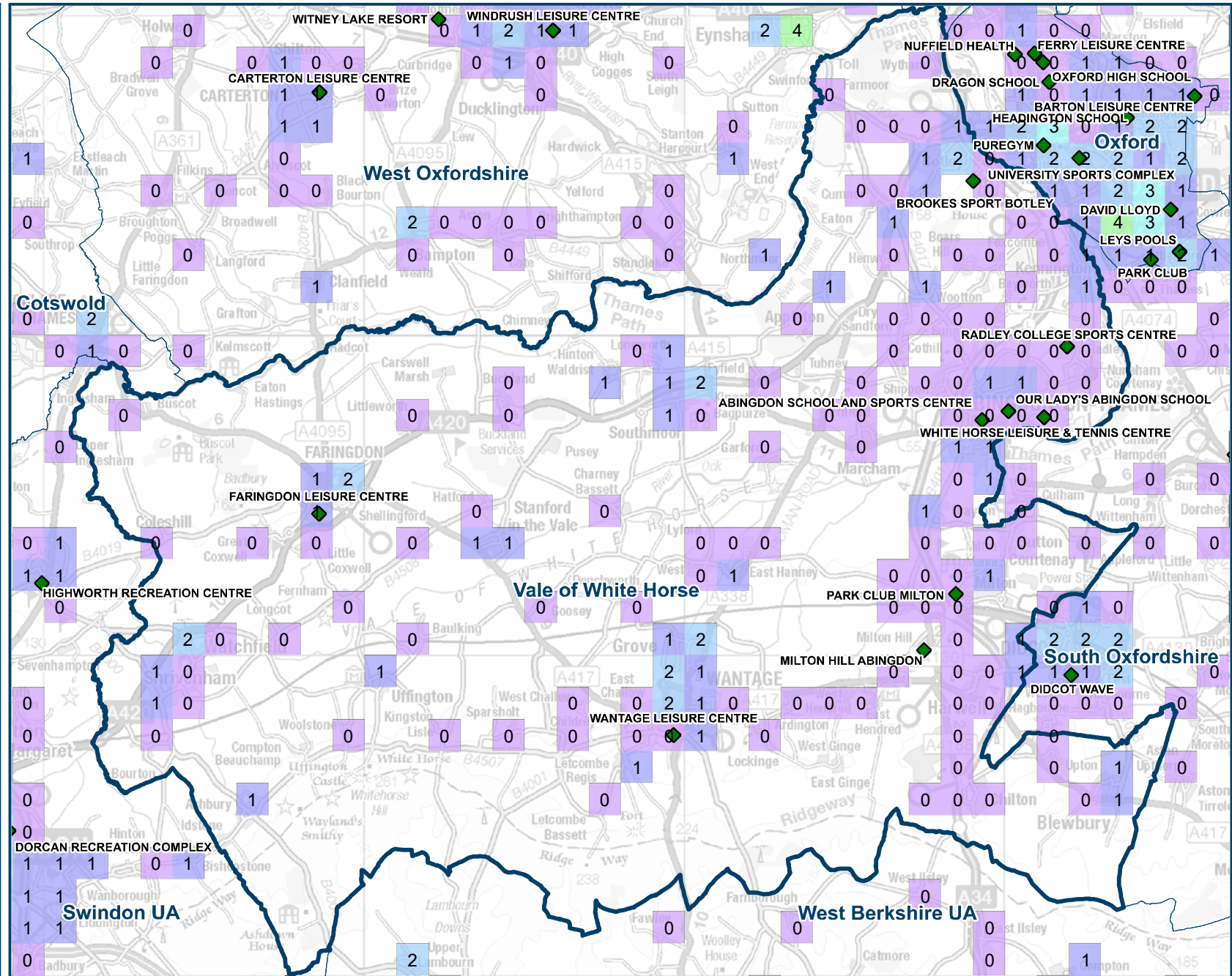
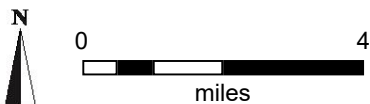
- Vale of White Horse
- Neighbouring Local Authorities

Unmet Demand in 1km squares expressed as square metres of water

- 20+
- 15 to 19
- 10 to 14
- 8 to 9
- 6 to 7
- 4 to 5
- 3
- 2
- 1
- 0

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Facilities Planning Model - Pools Unmet Demand for Vale of White Horse

RUN 2: Forward Projection (2041)

Unmet demand aggregated at 1km square grid expressed as sqm of water (figure labels) and shown thematically (colours).

Facilities Included in Run

- ◆ Swimming Pool Location
- ◆ New Swimming Pool Location

Boundaries

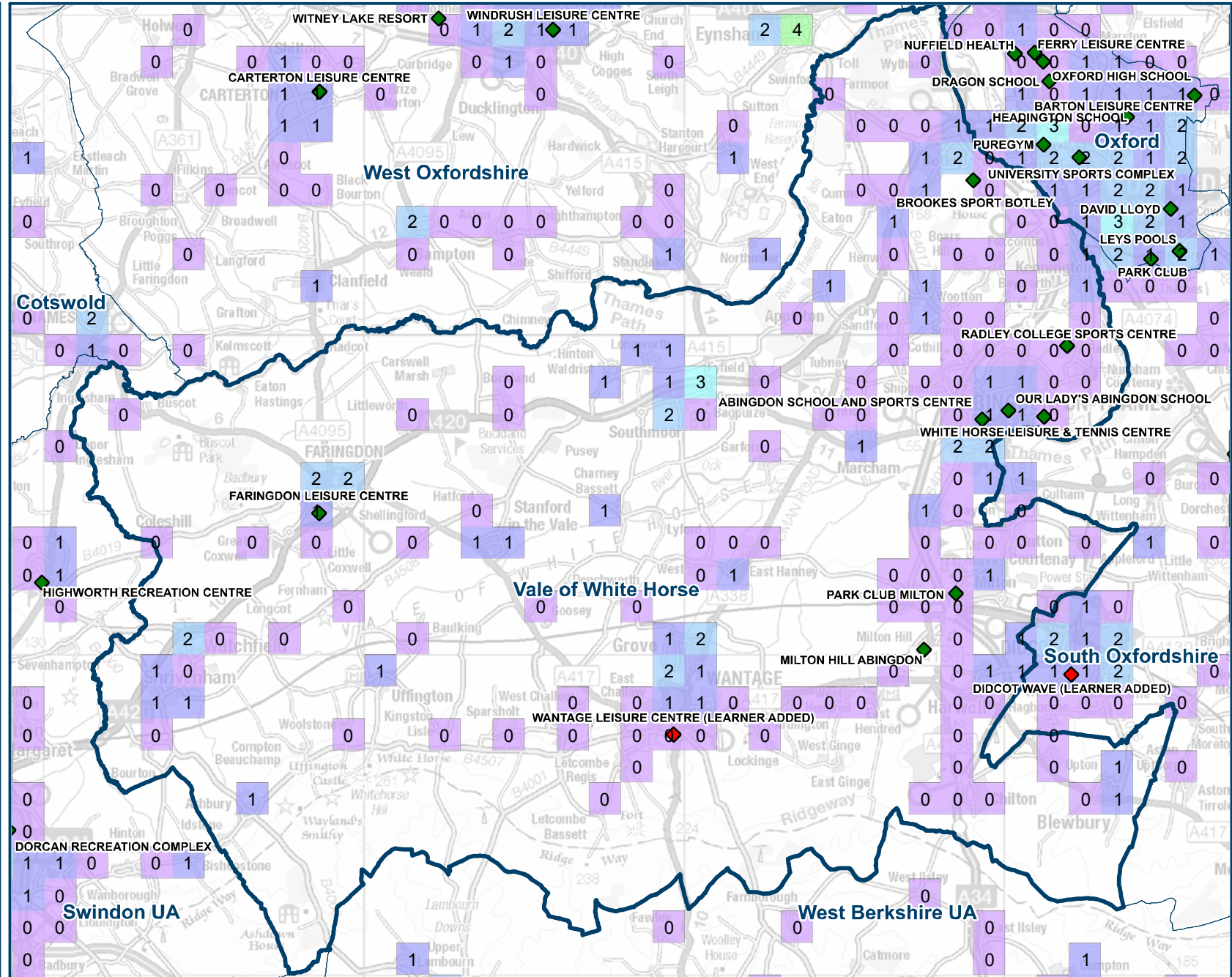
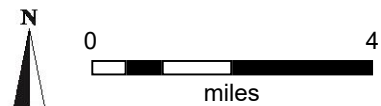
- ▭ Vale of White Horse
- ▭ Neighbouring Local Authorities

Unmet Demand in 1km squares expressed as square metres of water



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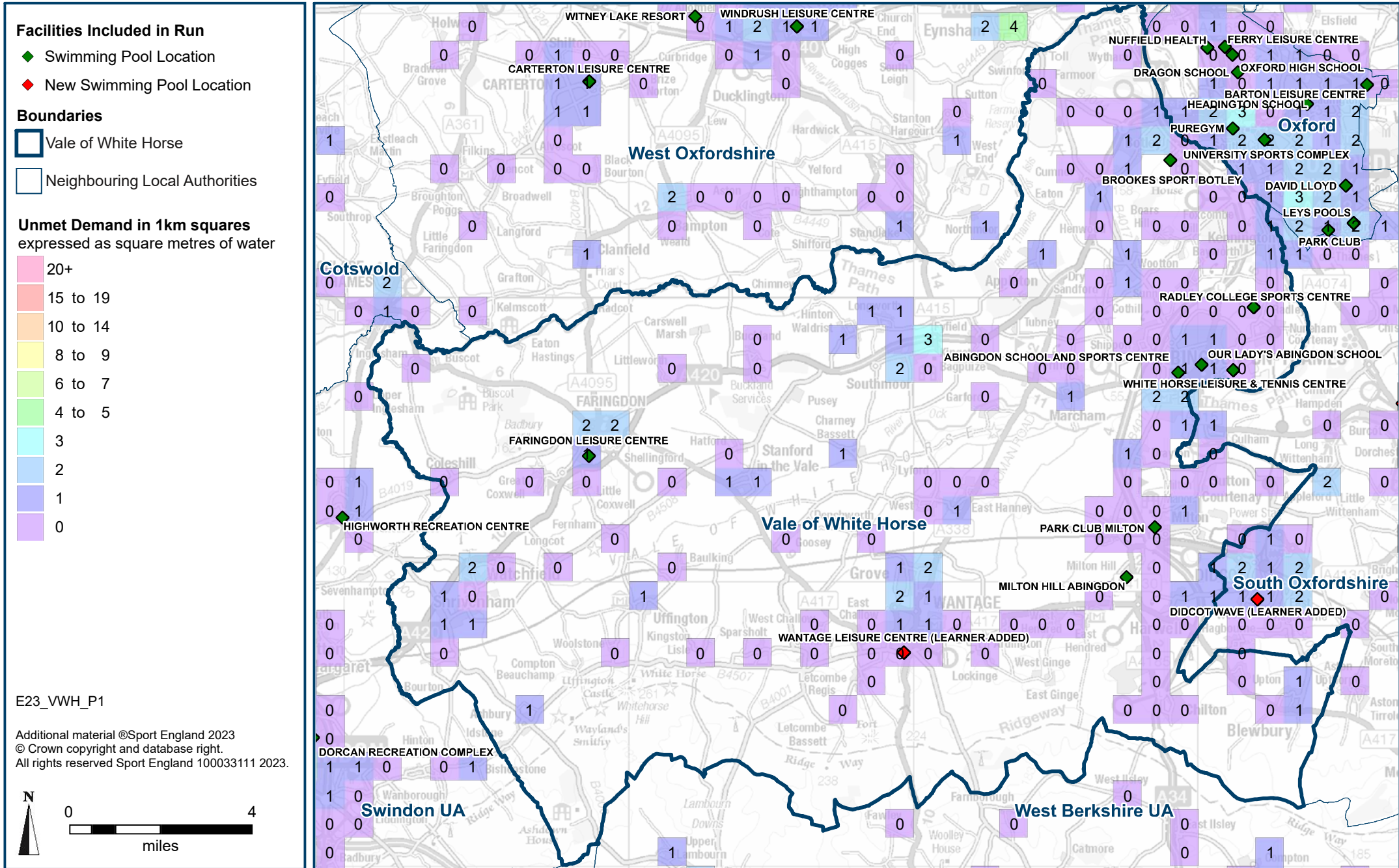
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Facilities Planning Model - Pools Unmet Demand for Vale of White Horse

RUN 3: Options for Changes to Supply Scenario 1 (2041)

Unmet demand aggregated at 1km square grid expressed as sqm of water (figure labels) and shown thematically (colours).



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5. REACHABLE UNMET DEMAND

Run 1: Existing Provision (2023)

Run 2: Forward Projection (2041)

Run 3: Options for Changes to Supply Scenario 1 (2041)

Facilities Planning Model - Pools Reachable Unmet Demand for Vale of White Horse

RUN 1: Existing Provision (2023)

Reachable unmet demand aggregated at 1km square grid expressed in sqm of water (figure labels) and shown thematically (colours).

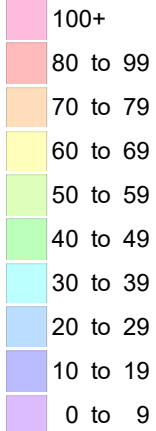
Facilities Included in Run

- ◆ Swimming Pool Location

Boundaries

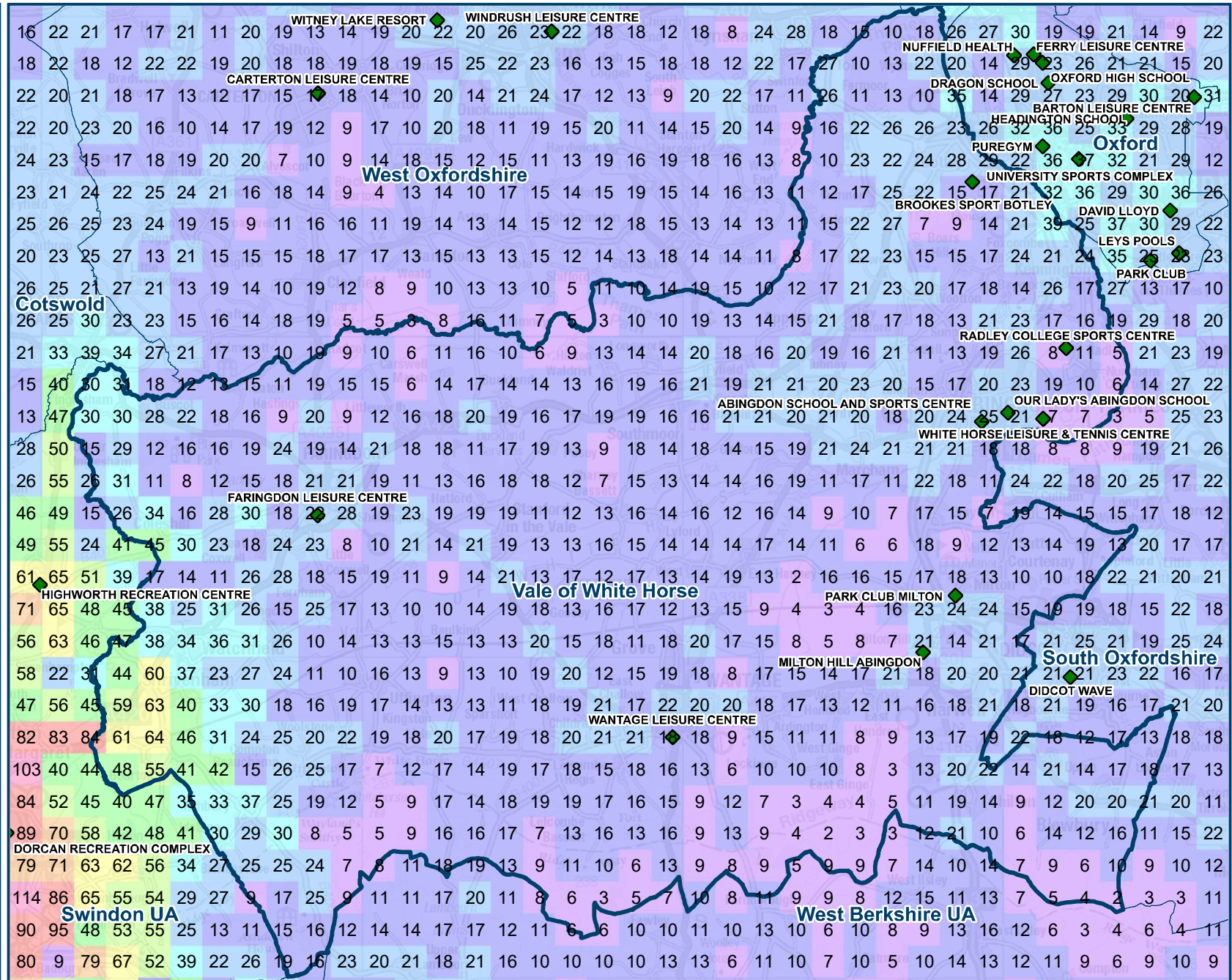
- Vale of White Horse
- Neighbouring Local Authorities

Reachable Unmet Demand per sq. km expressed as square metres of water



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Facilities Planning Model - Pools Reachable Unmet Demand for Vale of White Horse

RUN 2: Forward Projection (2041)

Reachable unmet demand aggregated at 1km square grid expressed in sqm of water (figure labels) and shown thematically (colours).

Facilities Included in Run

- ◆ Swimming Pool Location
- ◆ New Swimming Pool Location

Boundaries

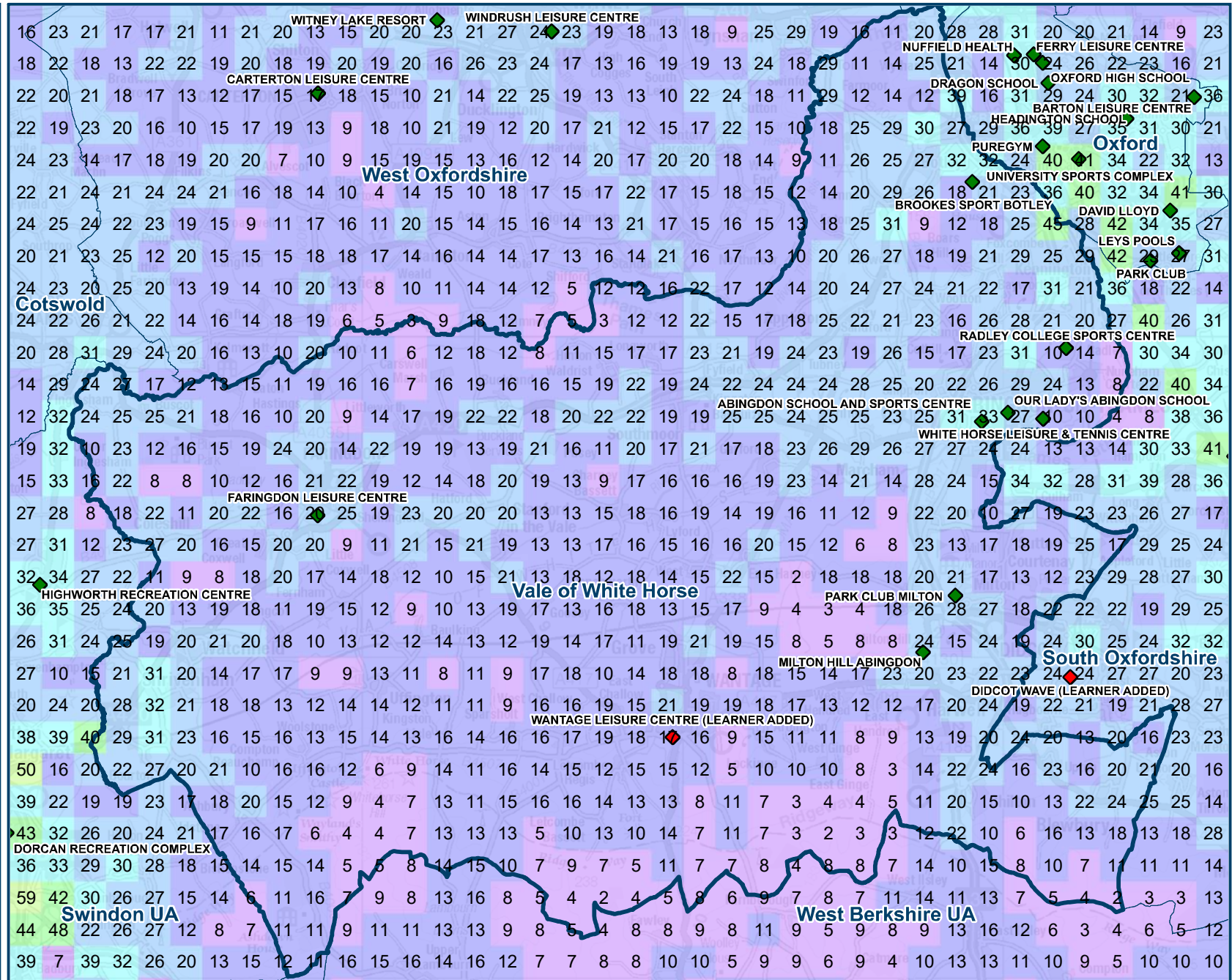
- Vale of White Horse
- Neighbouring Local Authorities

Reachable Unmet Demand per sq. km expressed as square metres of water

- 100+
- 80 to 99
- 70 to 79
- 60 to 69
- 50 to 59
- 40 to 49
- 30 to 39
- 20 to 29
- 10 to 19
- 0 to 9

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Facilities Planning Model - Pools Reachable Unmet Demand for Vale of White Horse

RUN 3: Options for Changes to Supply Scenario 1 (2041)

Reachable unmet demand aggregated at 1km square grid expressed in sqm of water (figure labels) and shown thematically (colours).

Facilities Included in Run

- ◆ Swimming Pool Location
- ◆ New Swimming Pool Location

Boundaries

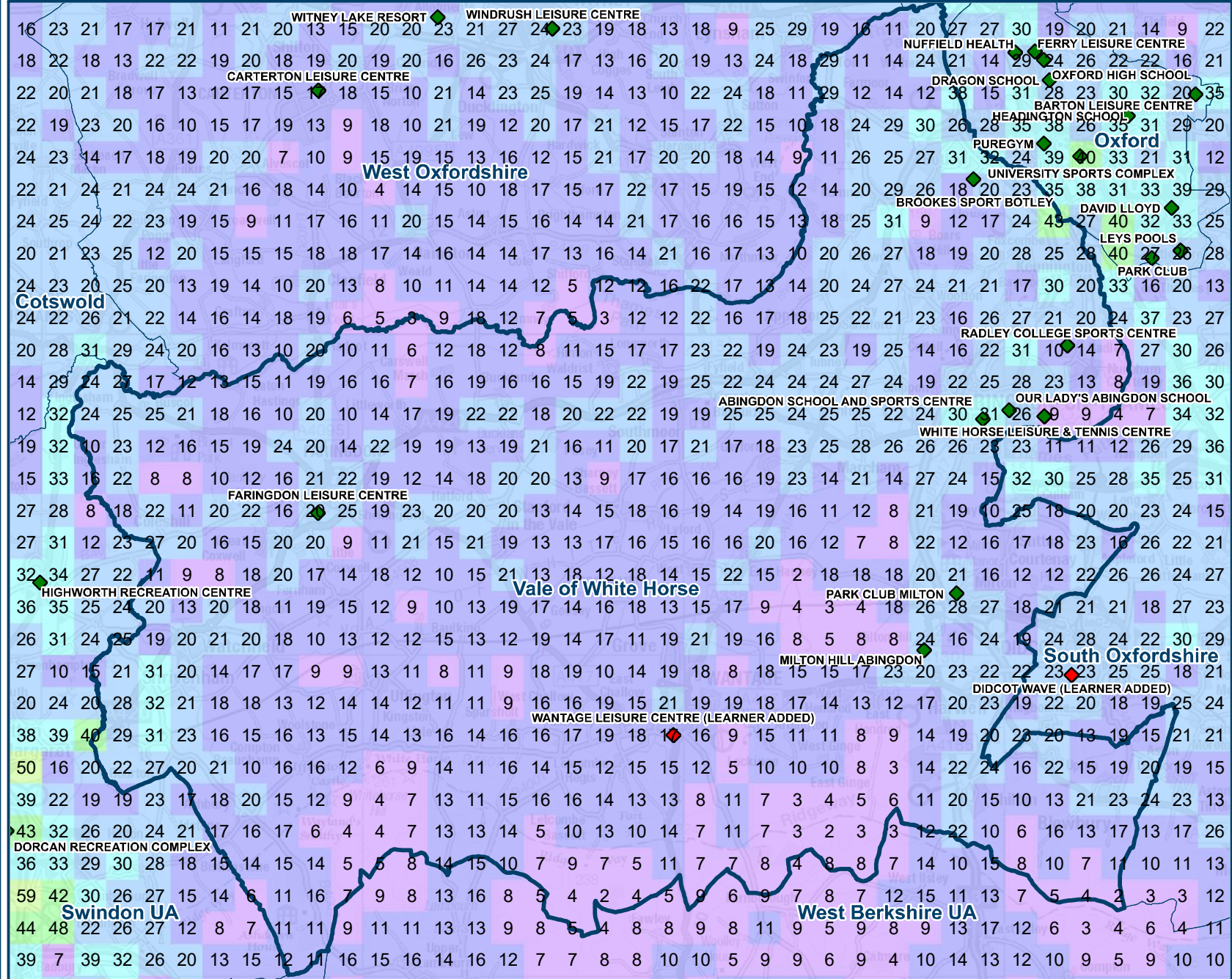
- Vale of White Horse
- Neighbouring Local Authorities

Reachable Unmet Demand per sq. km
expressed as square metres of water

- 100+
- 80 to 99
- 70 to 79
- 60 to 69
- 50 to 59
- 40 to 49
- 30 to 39
- 20 to 29
- 10 to 19
- 0 to 9

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6. LOCAL SHARE

Run 1: Existing Provision (2023)

Run 2: Forward Projection (2041)

Run 3: Options for Changes to Supply Scenario 1 (2041)

Facilities Planning Model - Pools Local Share for Vale of White Horse

RUN 1: Existing Provision (2023)

Share of water divided by demand aggregated at 1km square (figure labels) and shown thematically (colours).

Facilities Included in Run

◆ Swimming Pool Location

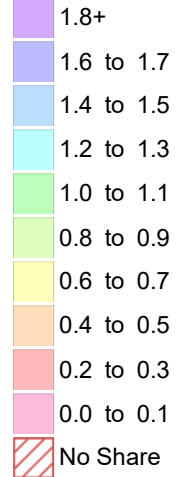
Boundaries

▭ Vale of White Horse

▭ Neighbouring Local Authorities

Local Share of Water Space

1km Grid

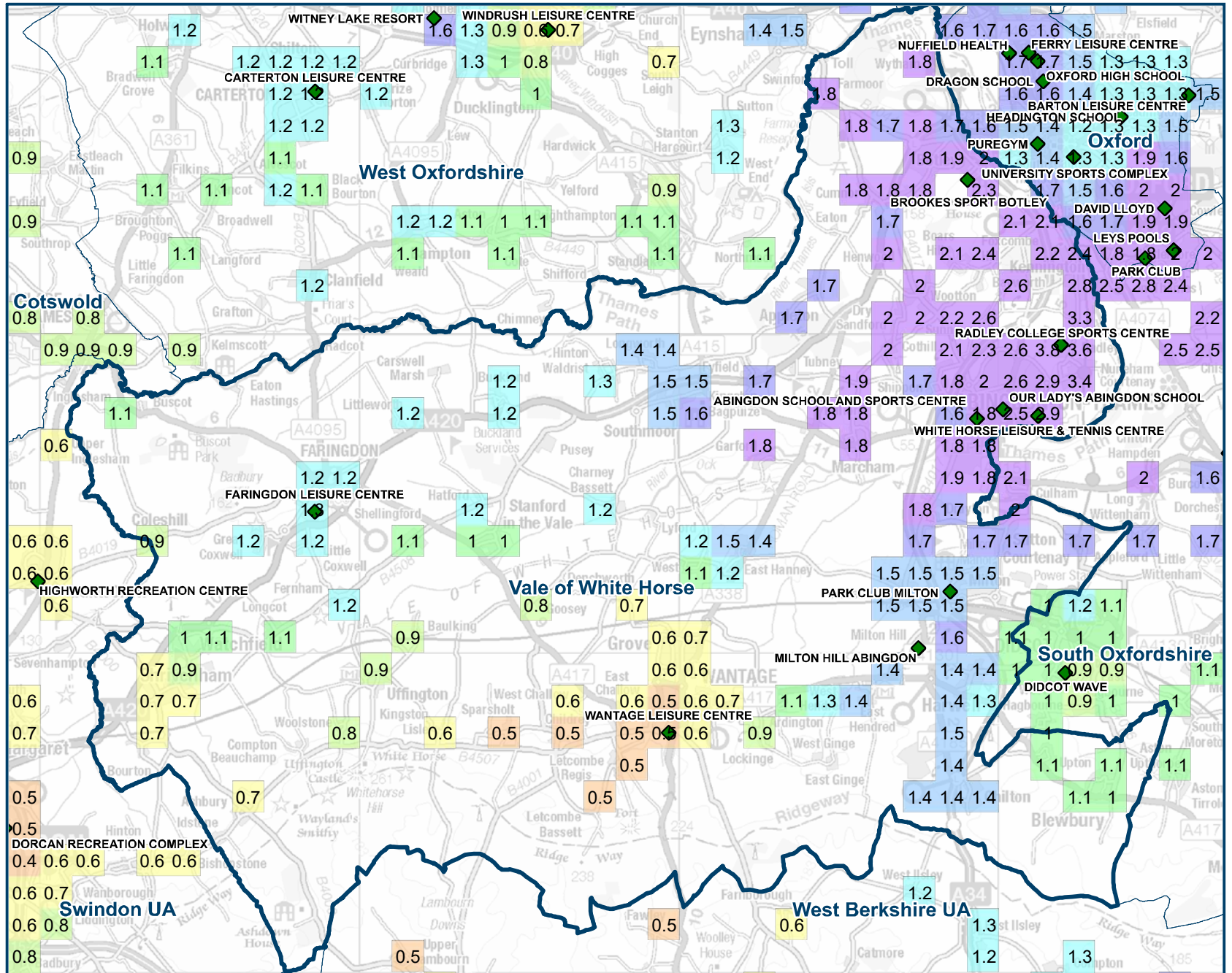


Local Share Value

- 1: Supply equals Demand
- 2: Supply is double Demand
- 0.5: Supply is half Demand

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Facilities Planning Model - Pools Local Share for Vale of White Horse

RUN 2: Forward Projection (2041)

Share of water divided by demand aggregated at 1km square (figure labels) and shown thematically (colours).

Facilities Included in Run

- ◆ Swimming Pool Location
- ◆ New Swimming Pool Location

Boundaries

- ▭ Vale of White Horse
- ▭ Neighbouring Local Authorities

Local Share of Water Space

1km Grid

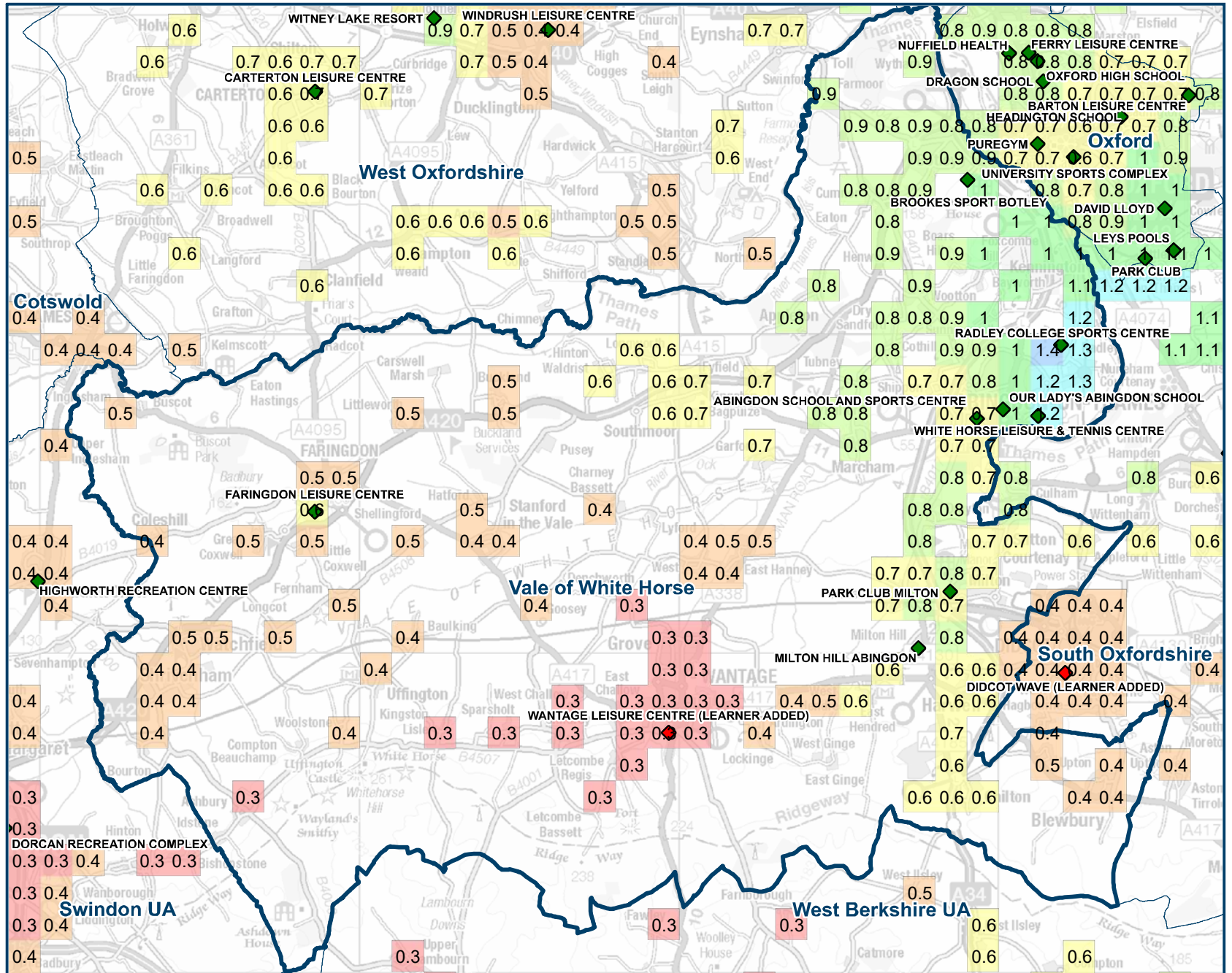
- 1.8+
- 1.6 to 1.7
- 1.4 to 1.5
- 1.2 to 1.3
- 1.0 to 1.1
- 0.8 to 0.9
- 0.6 to 0.7
- 0.4 to 0.5
- 0.2 to 0.3
- 0.0 to 0.1
- No Share

Local Share Value

- 1: Supply equals Demand
- 2: Supply is double Demand
- 0.5: Supply is half Demand

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Facilities Planning Model - Pools Local Share for Vale of White Horse

RUN 3: Options for Changes to Supply Scenario 1 (2041)

Share of water divided by demand aggregated at 1km square (figure labels) and shown thematically (colours).

Facilities Included in Run

- ◆ Swimming Pool Location
- ◆ New Swimming Pool Location

Boundaries

- ▭ Vale of White Horse
- ▭ Neighbouring Local Authorities

Local Share of Water Space

1km Grid

- 1.8+
- 1.6 to 1.7
- 1.4 to 1.5
- 1.2 to 1.3
- 1.0 to 1.1
- 0.8 to 0.9
- 0.6 to 0.7
- 0.4 to 0.5
- 0.2 to 0.3
- 0.0 to 0.1
- No Share

Local Share Value

- 1: Supply equals Demand
- 2: Supply is double Demand
- 0.5: Supply is half Demand

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