OSM UK 2024 Q2 Project: Defibrillators

Robert J. Whittaker

OSM Online Chat

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Public Access Defibrillators

- Prompt access to an Automated External Defibrillator (AED) can drastically increase the chances of survival of patients who’ve had a heat attack.
- AEDs (in theory) can be used by anyone without training.
- Lots of communities and businesses have public AEDs. Also many private ones that can be accessed if needed.
Suggested OSM Defibrillator Project Tasks

https://wiki.openstreetmap.org/wiki/UK_Quarterly_Project/2024/2024_Q2_Project:_Defibrillators

- Survey and map AEDs that aren’t already on OSM.
- Improve the metadata and positional accuracy of existing AEDs, and mapping of their surroundings.
- Add The Circuit reference numbers to AEDs on OSM.
- Try to contact guardians of AEDs that are missing or incorrectly located in The Circuit to encourage them to register them / fix the location.
Useful OSM Tags

- `emergency = defibrillator`
- `defibrillator:location = *`
- `access = [yes|permissive|private|...]`
- `indoor = [yes|no]`
- `opening_hours = *`
- `ref = *`
- `ref:GB:the_circuit = *`

For more details see the OSM wiki at:
https://wiki.openstreetmap.org/wiki/Tag:emergency%3Ddefibrillator
Defib Comparison Tool Overview

OSM comparison tool at https://osm.mathmos.net/defib/

- OSM data updated every ~5 days
- Data from The Circuit and NDDB updated monthly.
- Maps showing progress by postcode area, and matching to the sources.
- Other reports flagging possible issues in OSM and source data.
- History graphs showing OSM progress over time.
The Circuit

- Run by The British Heart Foundation (BHF), on behalf of the UK Ambulance Services.
- Set up in the last few years to replace individual registers held by each Ambulance Service.
- Currently lists around 88,000 public and private AEDs.
- The ‘Guardian’ of each AED registers its location, and confirms regularly that it’s still active and being maintained.
- Records location, address/description, access (public vs restricted) and availability (24/7 vs variable).
- Data provided to 999 call handlers.
- Data available for download and public map at https://www.defibfinder.uk/.
- Further details at https://www.thecircuit.uk/.
The National Defibrillator Database (NDDB)

- Run by The Community Heartbeat Trust (CHT) charity, as a way of supporting those looking after AEDs they help supply.
- Currently lists around 4,700 public AEDs.
- Like The Circuit, it is part of a service that includes check-ins with the AED guardians.
- Previously CHT had instructed its AED guardians not to also register with The Circuit.
- Unclear if the NDDB data is still passed to Ambulance Services or how they use it now they have The Circuit.
- I believe at least some Ambulance Services still use legacy lists from before The Circuit, while they are transitioning.
- More information at https://www.nddb.uk/
Progress / Comparison Maps

https://osm.mathmos.net/defib/progress/

- Public AED not on OSM
- Restricted AED not on OSM
- Unmatched OSM Public AED
- Unmatched OSM Indoor AED
- Unmatched OSM Private AED
- Unmatched OSM with Circuit ref
- Circuit duplicate
  - OSM–Circuit ref match
  - OSM–Circuit location match
  - OSM–NDDB location match
Reporting Errors in the Source Data

NDDB
Check the live map at https://www.nddb.uk/, then
- Report to nddb@communityheartbeat.org.uk.

The Circuit
Check the live map at https://www.defibfinder.uk/, then:
- Location errors: Try to report to the guardian.
- Missing AEDs: Try to contact the guardian.
- Duplicates (same AED registered twice): Record in my tool. See https://osm.mathmos.net/defib/duplicates.cgi

Suggested template emails to send to guardians at https://osm.mathmos.net/defib/letters/
OSM Project Progress so far...

https://osm.mathmos.net/defib/history-stats.html