Supplementary material

**Table S1.** The landscape resistance values used for the Circuitscape modelling of squirrels, based on resistance set R26 from [32].

|  |  |
| --- | --- |
| Description | Resistance |
| Buildings | NoData |
| Water | 1000 |
| Agricultural land | 800 |
| Railway, roads, impervious surfaces | 800 |
| Trees | 1 |
| Shrubs | 10 |
| Grass layer | 100 |

**Table S2.** The landscape resistance values used for the Circuitscape modelling of hedgehogs, based on resistances from [12].

|  |  |
| --- | --- |
| Description | Resistance |
| Gardens | 1 |
| Pasture | 1 |
| Public green areas | 1 |
| Allotment gardens | 1 |
| Cemeteries | 1 |
| Deciduous forest | 3 |
| Grove | 3 |
| Sports area | 5 |
| Airfield | 5 |
| Ruderal | 6 |
| Small streets | 8 |
| Impervious | 14 |
| Paths | 16 |
| Squares | 16 |
| Opencast mining | 39 |
| Mixed Forest | 50 |
| Tram | 100 |
| Swamp | 100 |
| Highways | 100 |
| Railway | 100 |
| Coniferous forest | 100 |
| Big streets | 100 |
| Waterbodies | 100 |
| Arable land | 100 |
| Buildings | NoData |
| Canal | NoData |

**Video S1.** The app in action part 1: The panel for locating a garden and marking it on a web map.

**Video S2.** The app in action part 2: The panel for providing input on biodiversity-friendly features and management as well as on observed species. At the end, clicking ‘Berechnen’ (calculate) triggers the app.

**Video S2.** The app in action part 3: Panel 3 shows the results for vegetation structure; panel 4 for carbon storage, cooling and shading; panel 5 for biodiversity; panel 6 shows results for connectivity modeling and how the garden is positioned in the green network of the city; panel 7 allows exporting the results to a PDF; panel 7 provides the option to store the data to a database.