Supplementary documents:

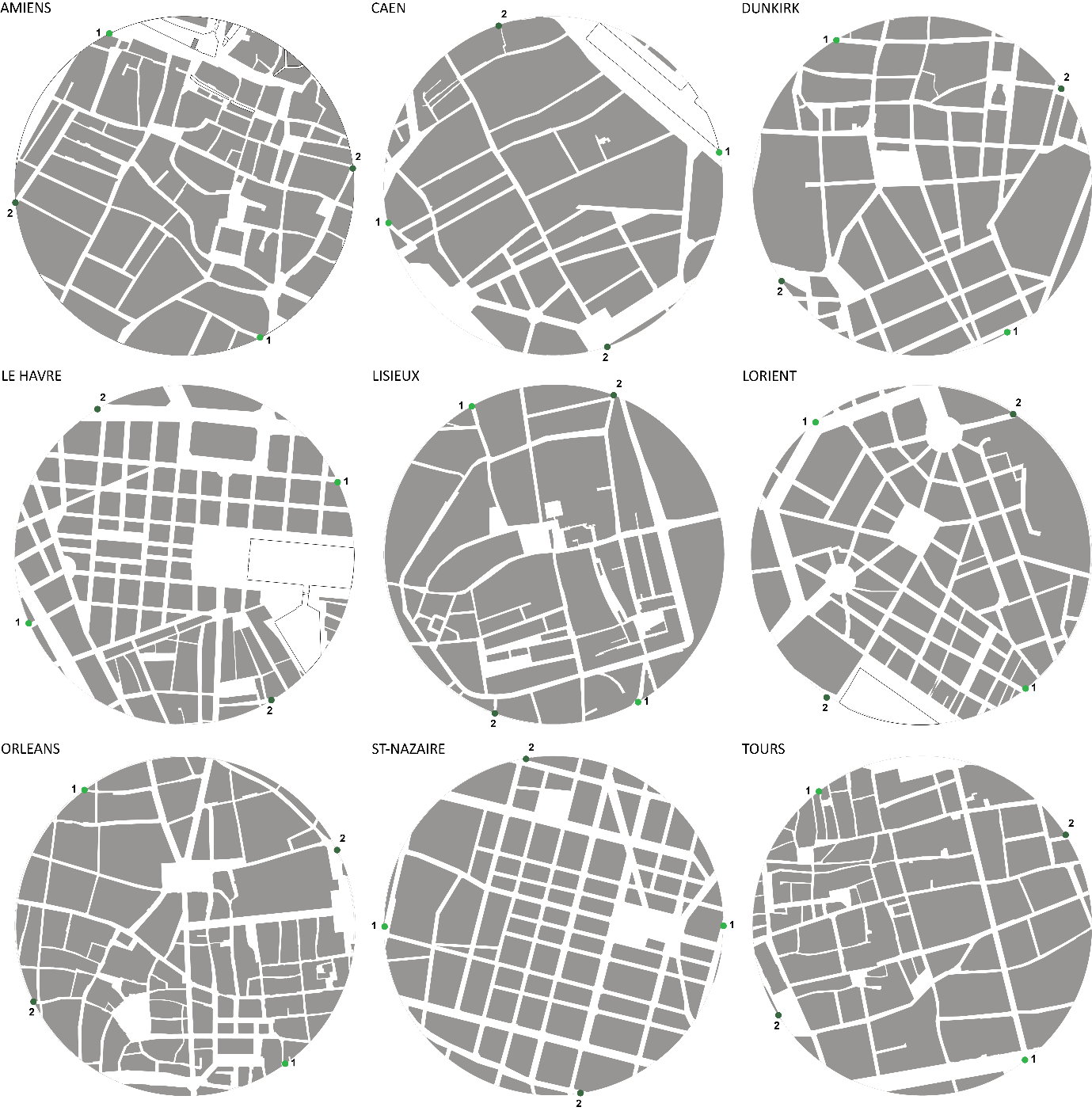


Figure i. Urban block maps representing the pre-war layouts used for the navigation task and the calculation of syntactic intelligibility.

A picture containing window

Description automatically generated

Figure ii. Urban block maps representing the post-war layouts used for the navigation task and the calculation of syntactic intelligibility.

A picture containing diagram

Description automatically generated

Figure iii. Building block maps representing the post-war layouts used for the navigation task and the calculation of syntactic intelligibility.

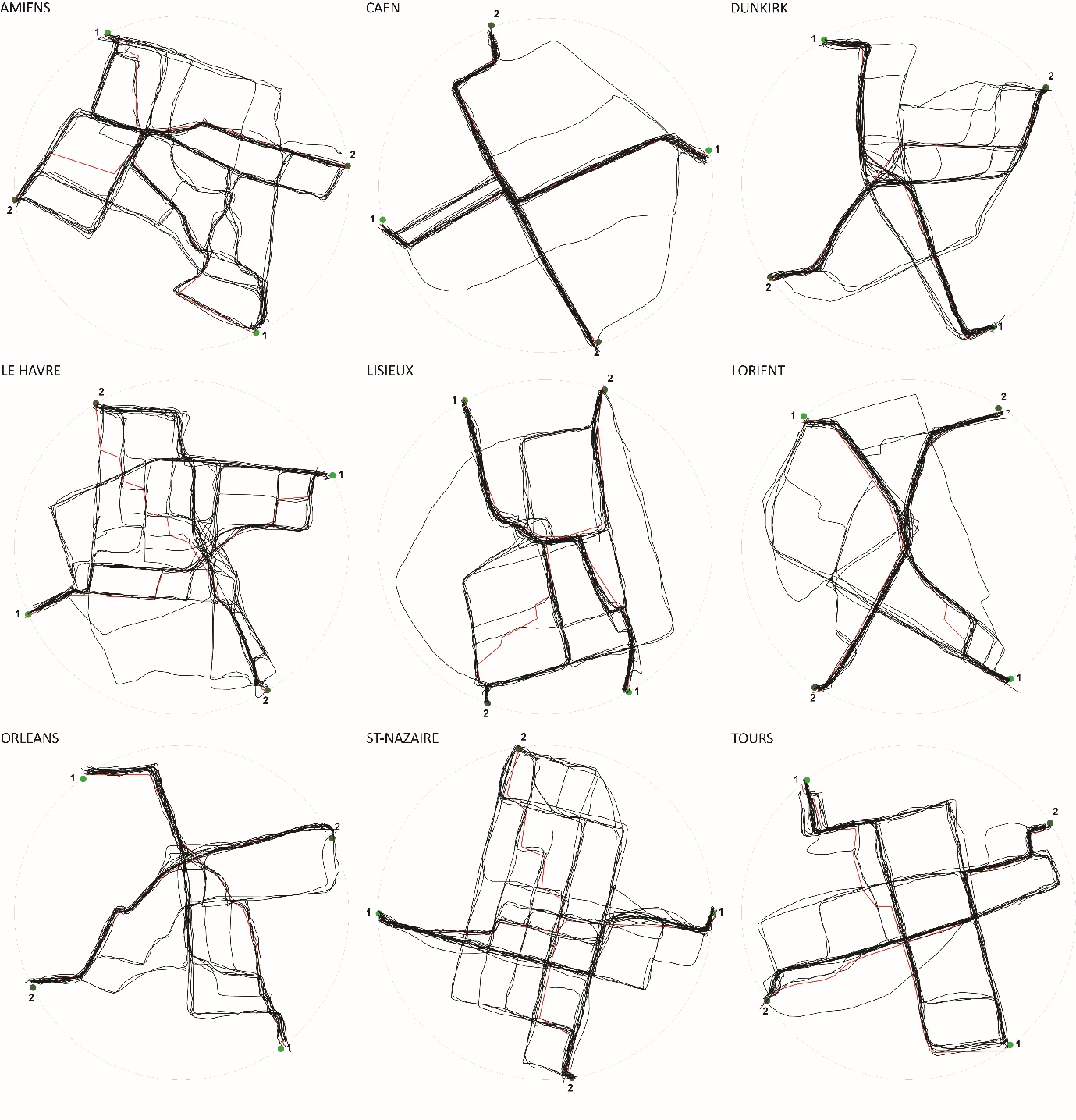


Figure iv. Routes drawn by participants on the pre-war block maps, the metric shortest path is indicated in red.

**Diagram, engineering drawing

Description automatically generated**

Figure v. Routes drawn by participants on the post-war block maps, the metric shortest path is indicated in red.

**Diagram, engineering drawing

Description automatically generated**

Figure vi. Routes drawn by participants on the post-war building maps, the metric shortest path is indicated in red.