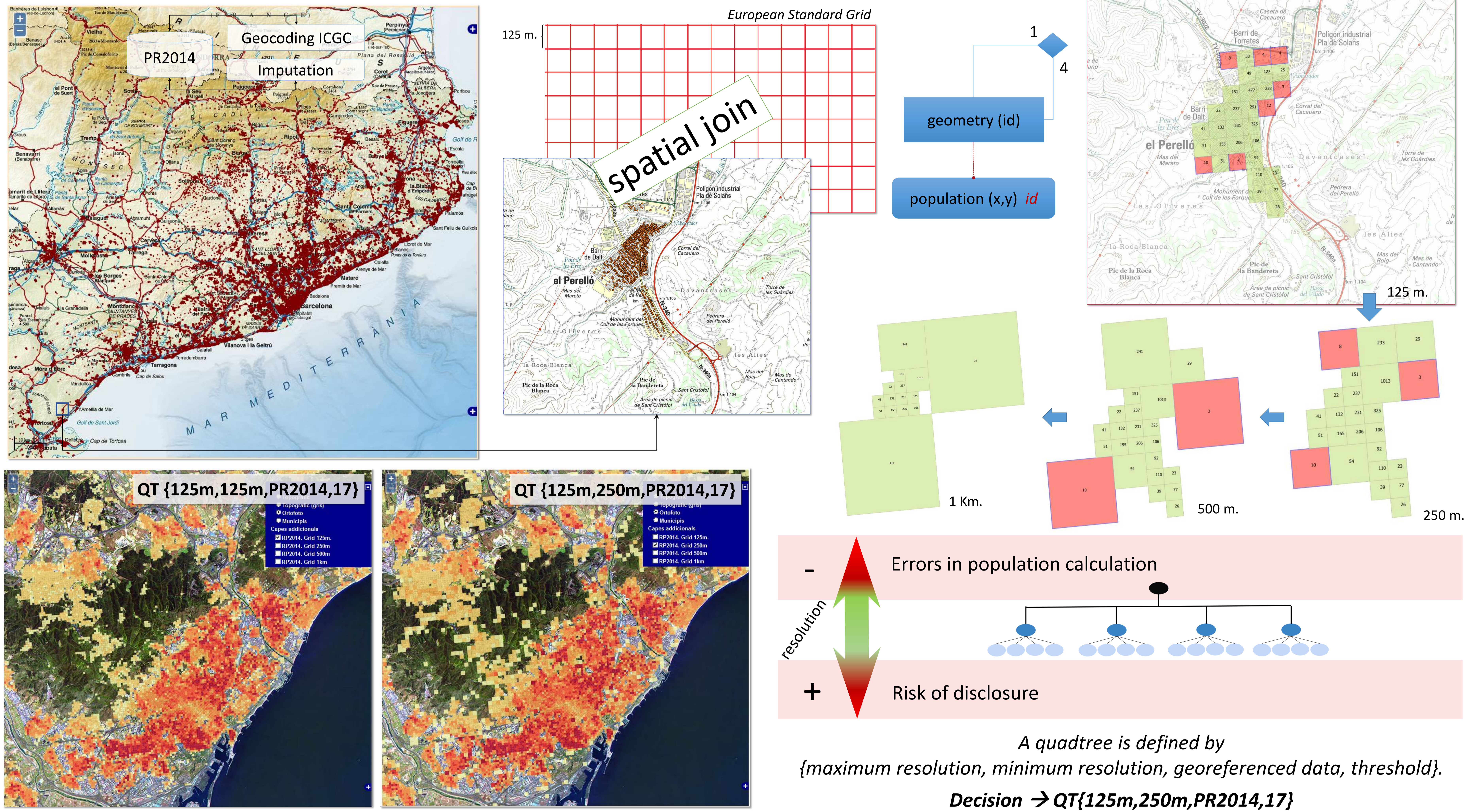
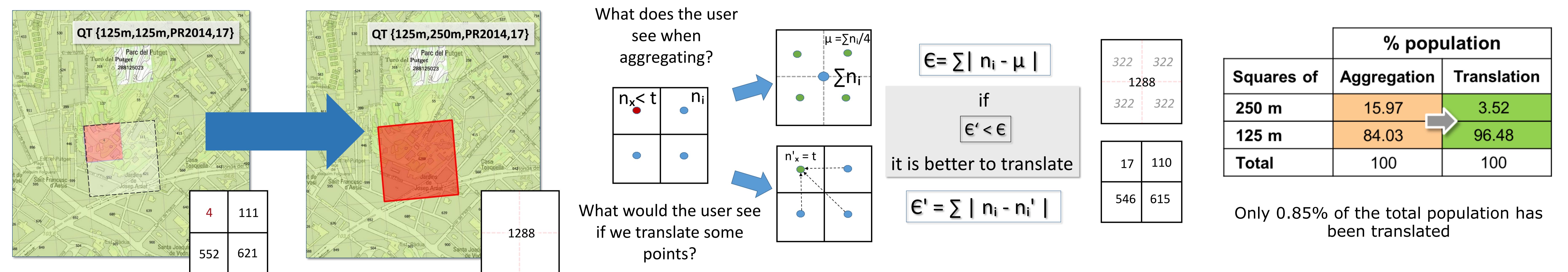


- The use of **quadtrees** for the dissemination of georeferenced data is a good method for the preservation of statistical confidentiality, as a certain balance between security and accuracy is achieved.
- This preservation method may lead to undesirable aggregations in areas which correspond to siblings in the hierarchy, due to the high values of population variance (**border effect**). A solution to the border effect consists of translating microdata under the condition that the absolute error of the aggregation is greater than that of the translation.
- **Monte Carlo** techniques allow the estimation of the relative error distribution for the population calculated within the quadtree structure $QT\{125m,250m,PR2014,17,t\}$. We have obtained a value of 5.3% for the median of these errors.

➤ Disclosure Control by Spatial Aggregation Using Quadtrees



➤ Border Effect. Proposed Solution



➤ Estimation of Errors. Monte Carlo Experiment

