

**INTRODUCTION**Cartographic generalization is the process that allows the creation of maps from an existing ones at larger scale;
The reuse of existing data for the production of synthetic outputs returns remarkable cost and time benefits;
The widespread use of digital maps has opened the possibility of automating the process of generalization.













## **Urbanized areas**

- As in many Italian historical city centers, → building are adjacent to other ones → merging of buildings with neighbouring one within a certain distance.
- The emergence of landlocked polygons is corrected by topological techniques.









## **Fields/vegetated areas**

- Application of sequential algorithms → merging of areas with similar neighbouring ones
- Clearings generated inside the new polygons are deleted smaller according to a threshold
- Edges of the new limit are smoothed by a smoothing operator.







## **CONCLUSIONS 2/2**

- The potential impact of automatic cartographic generalization offers clear advantages, both in production and maintenance of map products, to encourage continued research in the field;
- The automatic cartographic generalization, is a very important opportunity to streamline and modernize the national cartography system.

