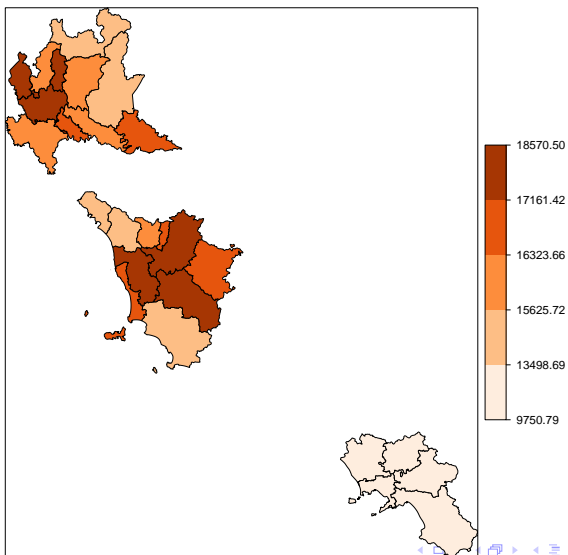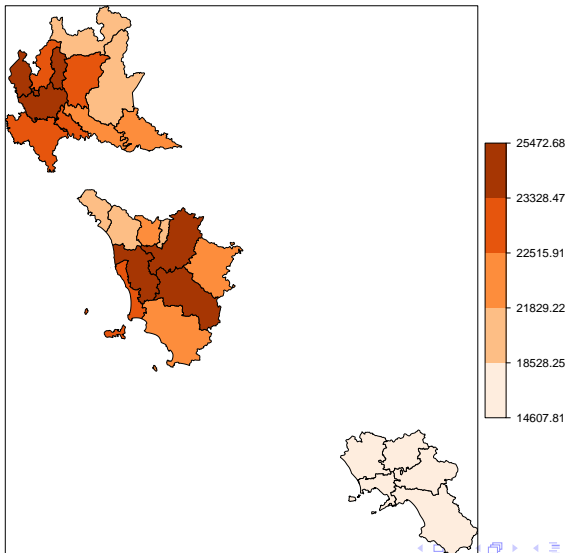# Estimates of the Income 2nd Quartile

Lombardia, Toscana and Campania - 2nd Quartile

Estimates of the Income 3rd Quartile

Lombardia, Toscana and Campania - 3rd Quartile

Results: main conclusions on Income distribution for Lombardia, Toscana and Campania

- The provinces of Campania are poorer than the provinces of Toscana and Lombardia
- At the opposite the provinces of Varese, Milano, Siena and Florence have the higher estimates
- Note however that the estimated MSE allow us to better discriminate between the poverty estimates
- Also, we can see that the ranking of a given area may change from a quartile to another

Part VI

Concluding Remarks

Concluding Remarks

Bootstrap MSE Estimator for the CD Small Area Distribution Function

- Easy to implement for tackling a very difficult problem i.e. estimating the MSE of small area estimated quantiles
- Time consuming
- Small underestimation
- It is necessary to know auxiliary variables for all the population units
- Easily extendable to other models; a similar approach has been used to estimate poverty indexes such as Head Count Ratio and Poverty Gap.
- The presented results are included in the Deliverable 17 of the S.A.M.P.L.E. project

Estimates of the Income 1st Quartile

Lombardia, Toscana and Campania - 1st Quartile