The Northern Apennines are a collisional orogenic belt originated from the middle-late Miocene - Pliocene foredeep deposits. The late Miocene - Pliocene collisional phases produced a wedge of the LSU implying that the reshaping processes acted predominantly within the LSU wedge. The geologic cross-sections (fig. 3.2) indicate that the whole LSU within Zone 1 (close to the main ridge) are foredeep units and Mesozoic foredeep deposits.

The filled areas represent the thickness of the LSU, the present-day geometry of the LSU inferred from surface and subsurface geological data (fig. 3.3a,b,c). Boreholes correlations (fig. 3.3a) and present-day geometry of the LSU (fig. 3.3b) show that the LSU, at present, display a doubly-tapering geometry that the LSU, at present, display a doubly-tapering geometry.

Vignale_001
Prelerna_001
Costa Ramella_001

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