

## Consideration of existence of active faults in the Reconstruction Plan of Mashiki Town

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The Mashiki Town, utterly devastated by the 2016 Kumamoto Earthquake, established “the Reconstruction Plan of Mashiki Town” in December 2016 aiming to revive from earthquake disaster and reconstruct disaster-proof town. The questionnaire survey to the residents which was carried out in the process of drafting of the plan revealed that a majority of the residents were in fear for the existence of active fault and the occurrence of future earthquake. In parallel with this planning, the City Bureau of Ministry of Land, Infrastructure, Transport and Tourism conducted the research and analysis of the background elements of the damage such as fault and soil condition and the consideration of measures to rebuild disaster-proof town, and provided the results to support the Town. It assumed that at least three east-west active faults run below the town center of the Mashiki Town, and proposed to take special consideration for the land use on active faults from the viewpoint of avoidance of damage risk while implementing land readjusting project in town center. Although concrete land use planning has not started yet, this is a remarkable policy based on fair understanding of the nature of active faults aiming at the coexistence with active faults.

Keywords: Reconstruction Plan of Mashiki Town, land use on active fault, coexistence with active fault

## 益城町市街地内における活断層の位置

### 層位置の推定方法

以下の4点から総合的に判断

- ①同一地層の標高差の有無
- ②明瞭な段差地形の有無
- ③活断層の繰り返しにより柔らかくなった地盤の有無
- ④地表に現れる連続的な亀裂の有無

- 益城町市街地において、3本の活断層(A・B・C)が存在。
- 今回の地震では、**活断層Aが主体に活動し、益城町市街地では、最大35cmの右ズレ及び最大15cm程度の上下変位(南落ち)を確認。**  
(活断層B,Cのズレは活断層Aに比べて微量)



国土交通省都市局(2017):「熊本地震からの益城町の市街地復興に向けた安全対策のあり方等に関する中間報告」より