

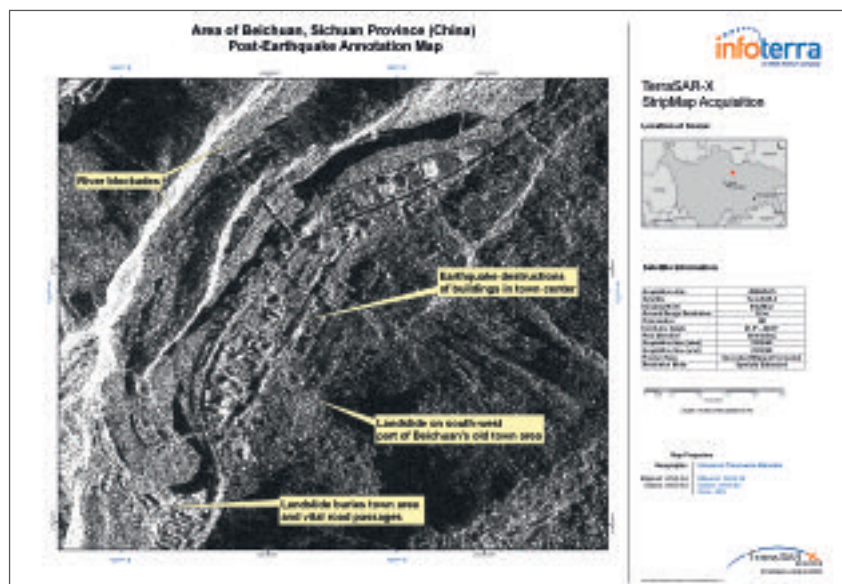
Application Areas

The rapid emergency response capabilities were successfully proven following major natural disasters such as the Sichuan earthquake, severe flooding in Europe and Latin America, wildfires in Australia, and many more.

On-site response forces, local, national and international rescue organisations, and responsible government agencies benefit from precise information provided as quickly and reliably as possible.

Imagery and maps are used for the recognition and assessment of damages, identification of focus areas, resource scheduling and route planning, or an efficient set-up of coordination centers and camps.

Change detection is further a key source for identifying environmental issues such as deforestation and desertification, as well as a reliable basis for map updates.



Identification of significant landslides in a TerraSAR-X StripMap acquisition of Beichuan (Sichuan Province, China): One landslide hit Beichuan's old town, burying buildings and taking the lives of hundreds of people in the aftermath of the earthquake. Another landslide blocks a river, imposing a severe danger of flooding the remainder of the town in case this natural dam should break.

Technical Specifications:

Thematic content	changes yes/no identification of nature of changes/damages
Geometric resolution/scale	1m, 3m or 18m (TerraSAR-X imaging modes)
Positional accuracy	< 1m
Format of delivery	geotiff (raster), shape file (vector)
Type of data delivered	annotated images, change/damage assessment maps (usually multi-year)
Data sources used	TerraSAR-X (for change detection), TerraSAR-X archive data, optical satellite data or any other available reference data (as basis)

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