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## **Satellite radar observations in monitoring hazards and for sustainable development**

Gyula Grenczy<sup>1</sup>, Péter Farkas<sup>1</sup>, Sándor Frey<sup>1</sup>  
<sup>1</sup>*Geo-Sentinel Ltd., Hungary*  
*\*grenczy.gyula@geo-sentinel.hu*

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Anthropogenic and natural hazards are increasingly interconnected. Human activities significantly affect many natural hazards as well as creating new ones. Frequency and or severity may, vulnerability most probably increase in several cases. Observation and revelation of these connections are important but beyond finding them, understanding the sometimes highly indirect, complex mechanisms are crucial to prepare for such events, to prevent losses or to mitigate the repercussions. These changing hazards may also urge mankind to turn to more sustainable development. Satellite observations looking back to decades of observation, uniform, quantitative data on local as well as on large, regional scale can play a significant role not only in understanding natural hazards but also pointing out implicit relations to anthropogenic activities. It is also true the other way around, satellite monitoring of human activities and its effects on nature may provide guides for sustainable approaches, operations and levels. Our presentation aims to provide examples through space-based detection of precise and high spatial and temporal resolution surface changes over decades regarding flood hazard, landslide or unstable soil, general water management as well as exploitation of geothermal resources.