

# SAFE concept and space application examples

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**KEY WORDS:** environment initiative, Asia-Pacific region, end-users, prototypes

**ABSTRACT:** Space Applications For Environment (SAFE) is a voluntary-based environment initiative in Asia-Pacific region, initiated by Asia-Pacific Regional Space Agency Forum (APRSAF). SAFE's fundamental concept is that close and continuous collaboration between prototyping executor (user agencies), technical supporter (universities and research institutes) and data & application creator (space agencies) is essential to satellite data applications to contribute to the real needs of end-users in Asia Pacific countries. Through the SAFE prototyping activities, some good collaboration and application examples are presented especially in the area of forest monitoring, water resource management, coastal zone monitoring, drought monitoring, agriculture and fishery management etc. In these activities, fusion of satellite data, ground observation, models and socioeconomic data is promoted and typical prototypes of practical space applications for environment can be found.

# **EXAMPLE**

## **APPLICATION OF SAR INTERFEROMETRY IN MONITORING THE SURFACE DEFORMATION OF SW TAIWAN**

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**KEY WORDS:** SAR Interferometry, Surface Deformation, Taiwan, Groundwater

**ABSTRACT:** In this study we implement the SAR Interferometry technique for identifying the seasonal surface deformation in the SW Taiwan. The focus of our investigation is on the Pingtung plain, a tectonic valley with a high water-pumping rate. Our preliminary results show that....