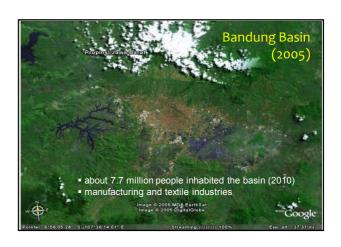
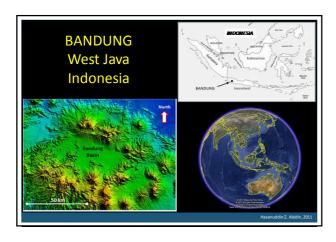


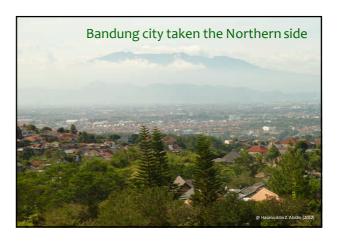
Authors

HASANUDDIN Z. ABIDIN 1 , I. MEILANO 1 , H. ANDREAS 1 , GUMILAR 1 , M. GAMAL 1 , T.M. SIDIK 1 , T.KATO 2 , H. HARJONO 3

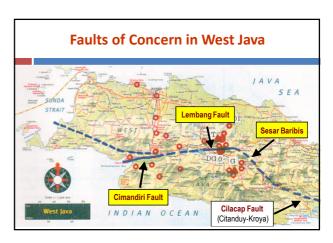
¹Geodesy Research Division, Institute of Technology Bandung, Jl. Ganesa 10, Bandung 40132, Indonesia, E-mail: hzabidin@gd.itb.ac.id; hzabidin@indo.net.id ²Earthquake Research Institute, the University of Tokyo, 1-1, Yayoi 1, Bunkyo-ku, Tokyo 113-0032, Japan ³Indonesian Institute of Sciences (LIPI), Jl. Gatot Subroto, Jakarta, Indonesia

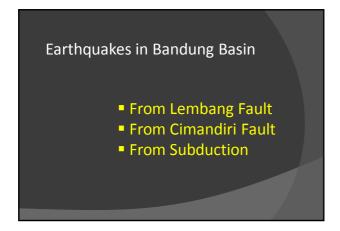


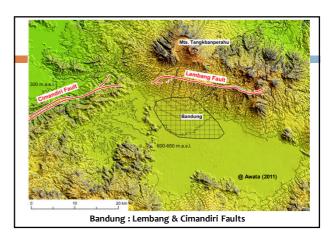


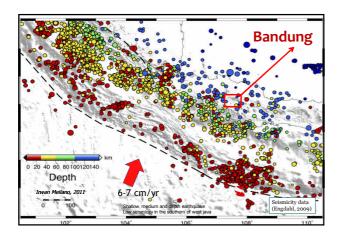


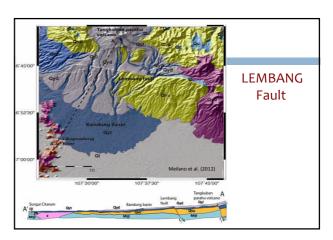




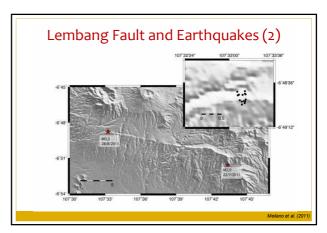




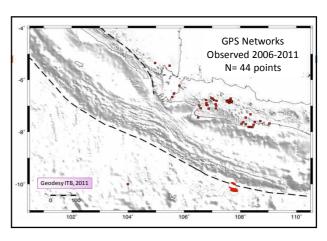












Lembang Fault and Earthquakes (1)

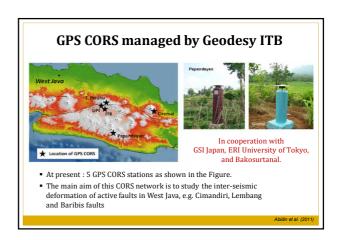
Several earthquakes related to Lembang fault:

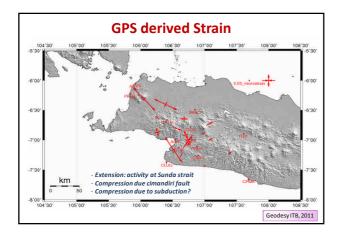
23 Sept. 2000, 5.4 SR
(felt in Cimahi, Ujungberung, Soreang, Bale Endah, Lembang, and Bandung)
8 km North of Soreang.

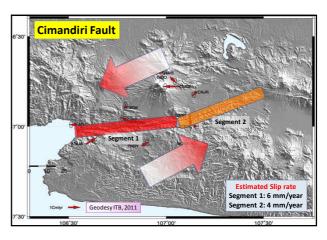
11 July 2003, 4.2 SR
20 km NE of Bandung, depth 10 km

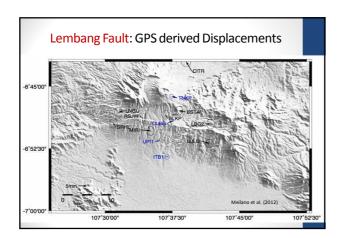
5 Maret 2006, 2.0 SR
6.7 km N of Lembang, depth 5 km

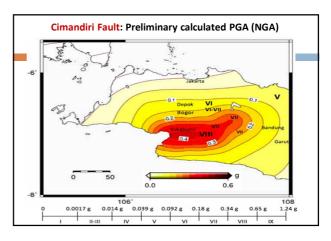
Abdit etal. (2007)

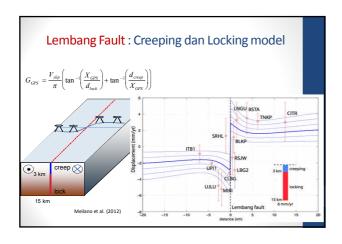




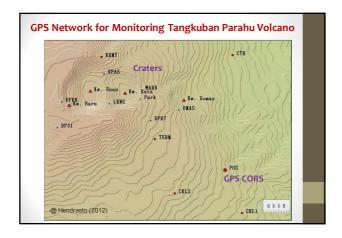






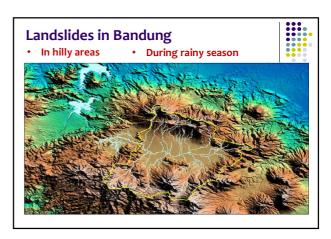


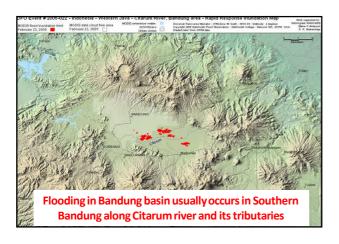


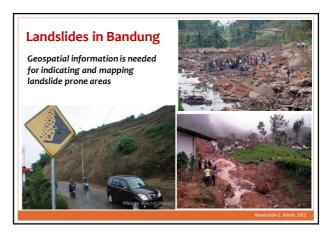




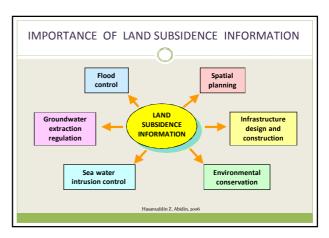


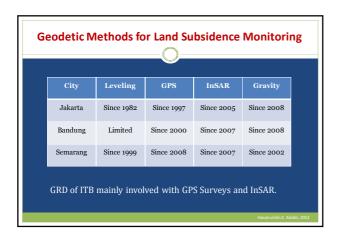


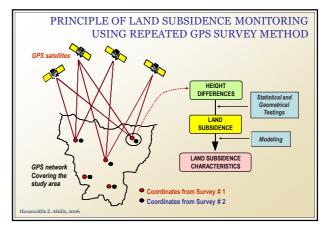


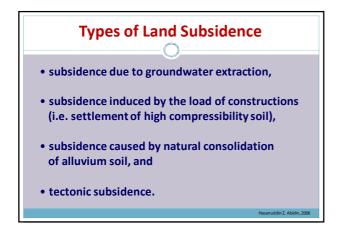


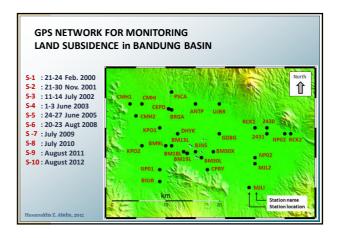


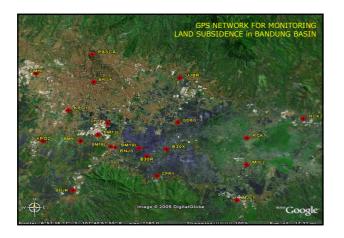


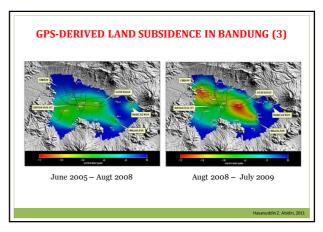


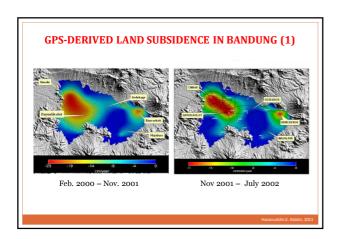


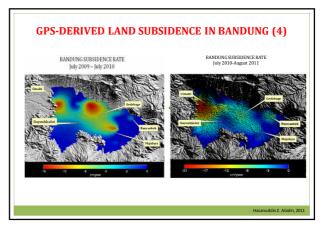


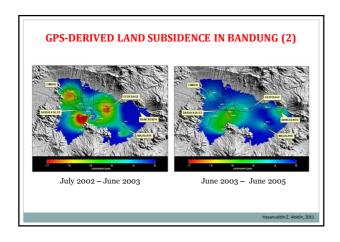


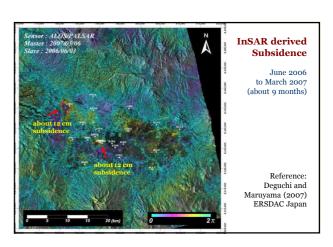


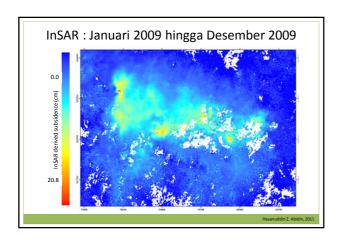




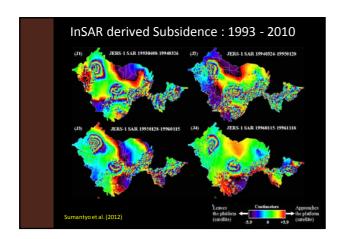




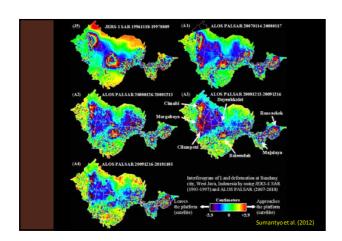




Malfunction of drainage system. Changes in river canal and drain flow systems. The wider expansion of inland & coastal flooding areas. Cracking of buildings and infrastructure. Lowering the quality of living environment and life (e.g. health and sanitation condition) in the affected areas. Increasing the maintenance costs for the affected buildings and infrastructure.



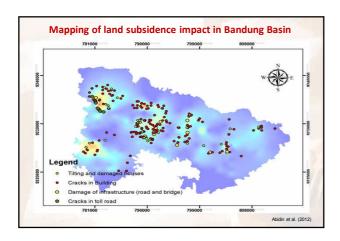




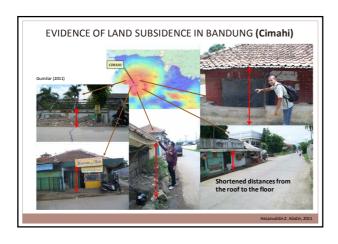


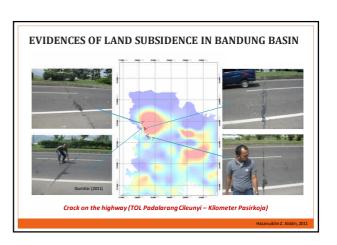


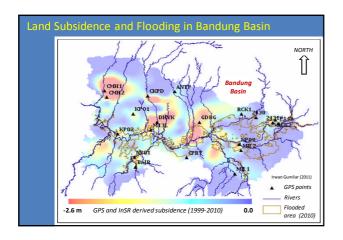


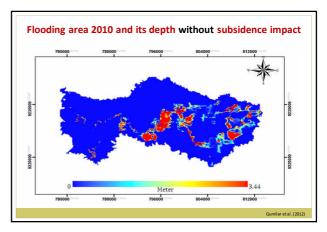


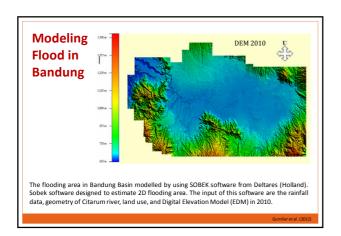


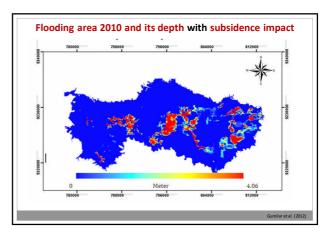


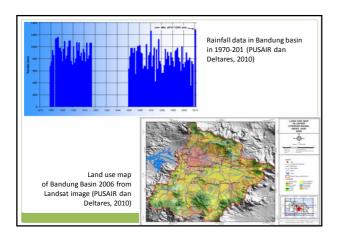


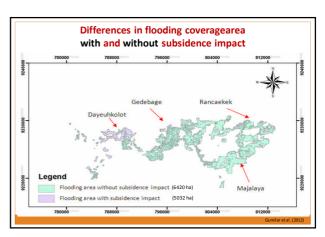




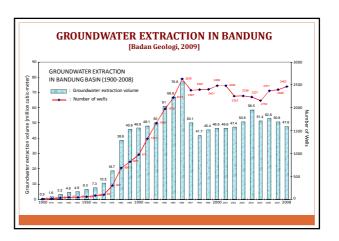


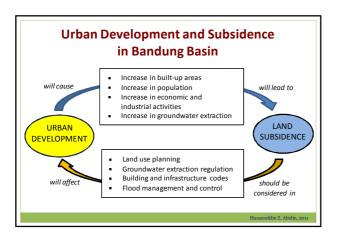


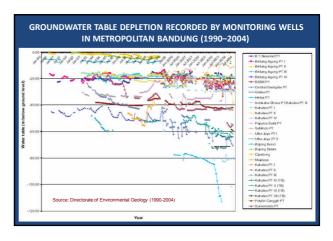


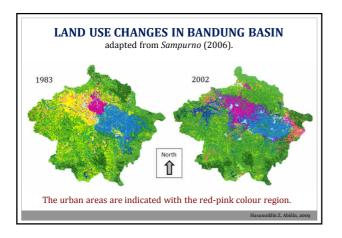


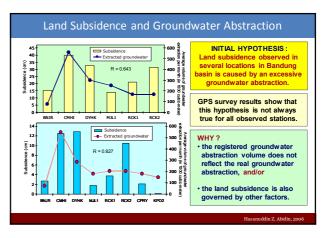
Causes of Land Subsidence in Bandung? Excessive groundwater extraction Natural consolidation of alluvium soil Load of buildings and constructions Tectonic activities Contribution of each causes in spatial and temporal domain, is not fully known yet. Hazanudin 2. Abdin, 2011

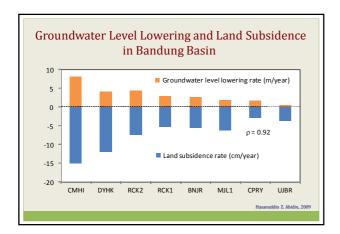


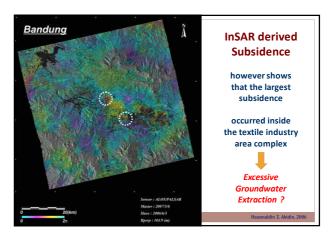


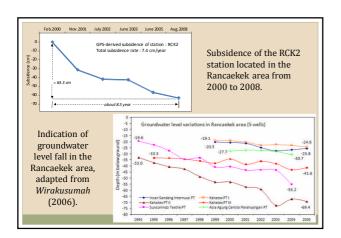


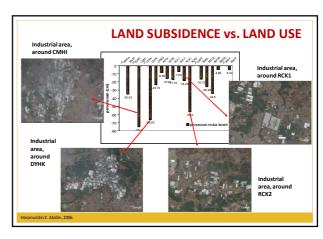


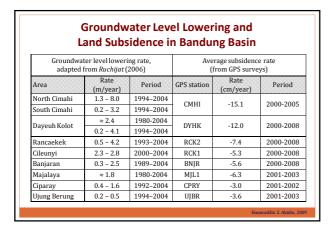


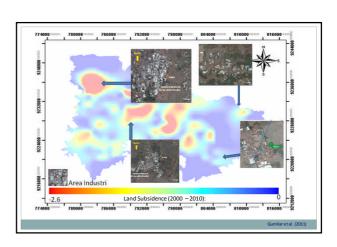


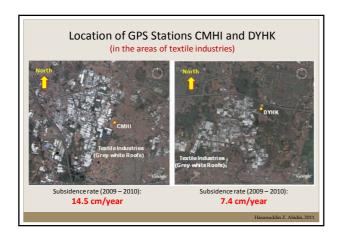


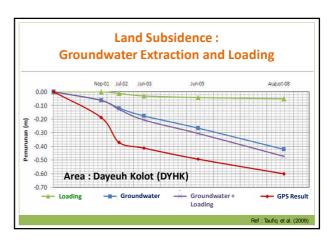


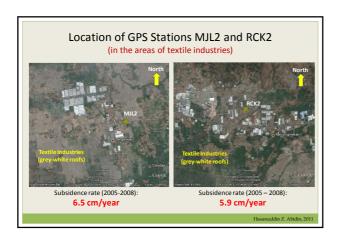


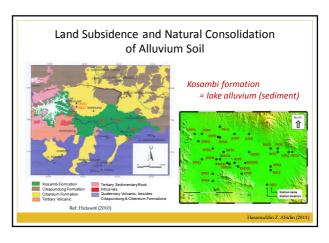


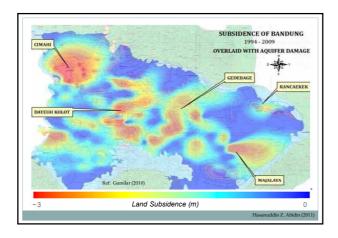


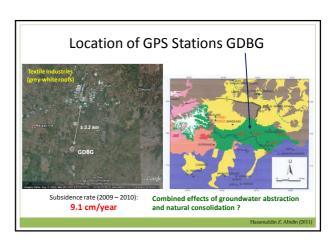


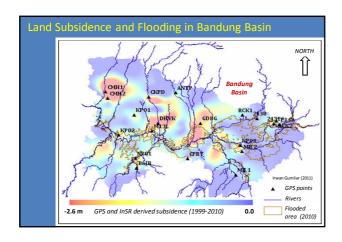


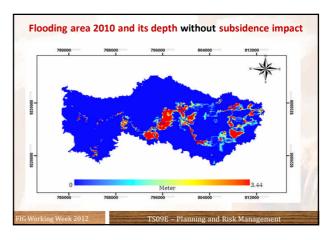


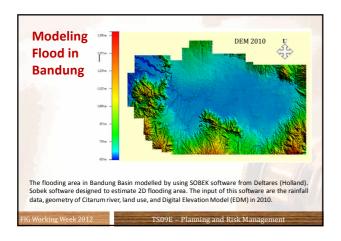


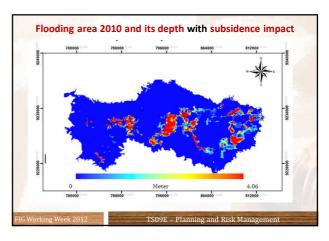


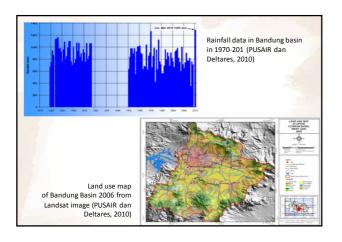


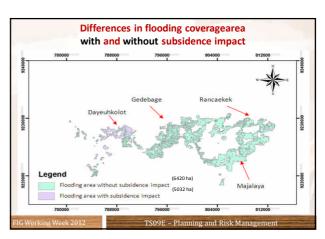












CLOSING REMARKS

- Bandung is prone toward several natural hazards
- Main threat comes from :
- Flooding Land Subsidence
 - Volcanic eruption
 - Earthquake Landslide
- Good and reliable geospatial data and information in both spatial and temporal domain is needed for natural hazard mitigation process.