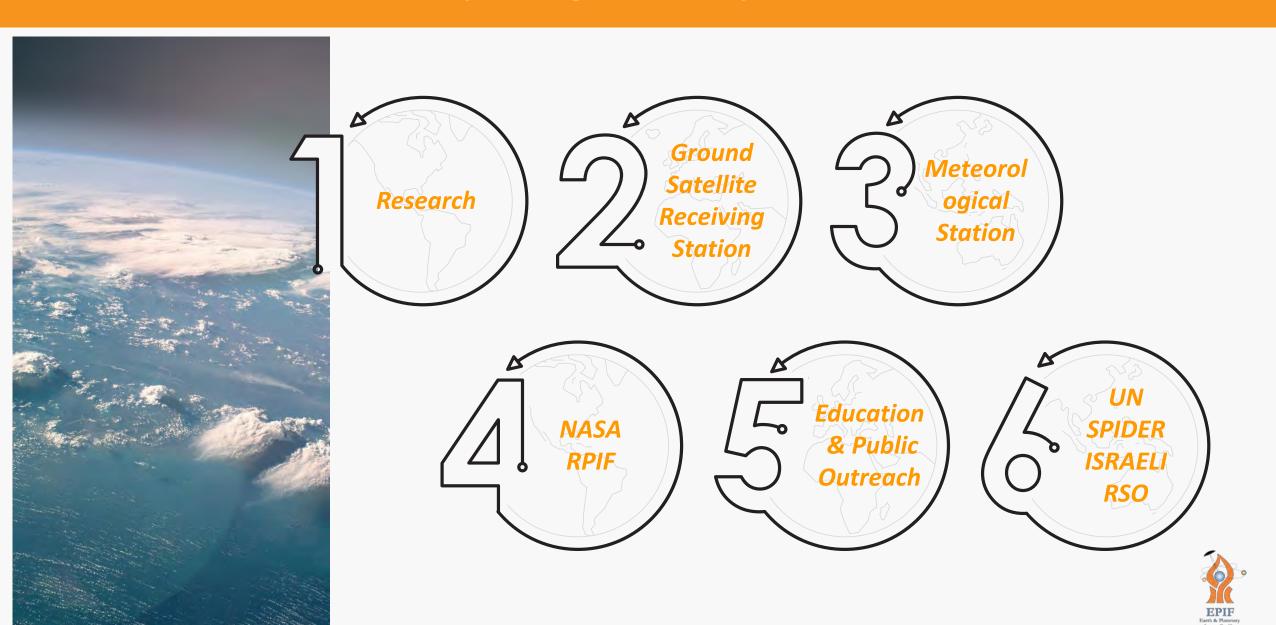


### Earth and Planetary Image Facility

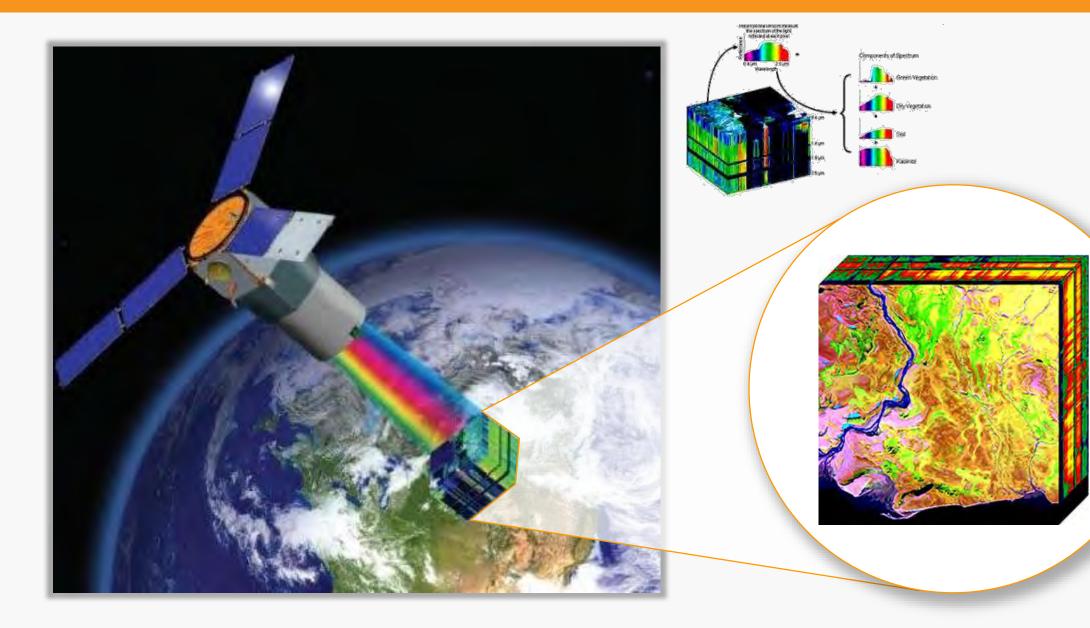


# Space and air-borne remote sensing

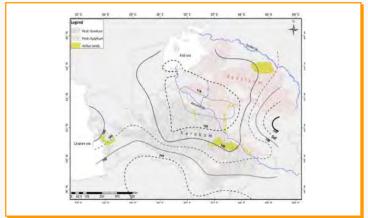




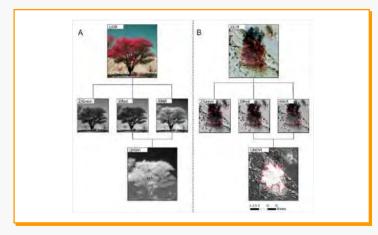
### Multi-dimensional data, detection & classification



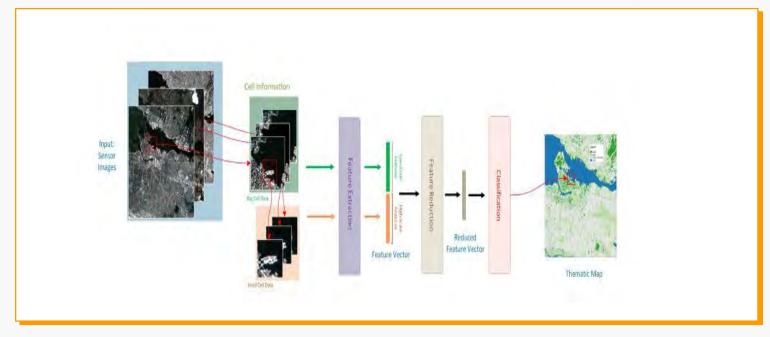
#### EPIF RESEARCH



Central Asian dune dynamics



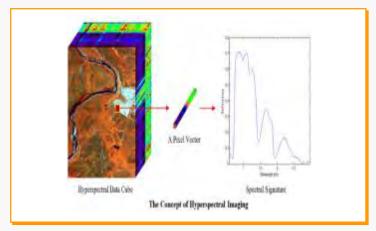
Arid environment Vegetation



Machine Learning Methods
Applied to Object
Recognition in Multichannel
& Multisensor Geospatial
Imaging



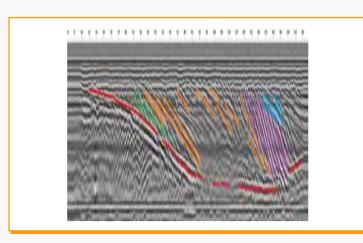
#### **EPIF RESEARCH**



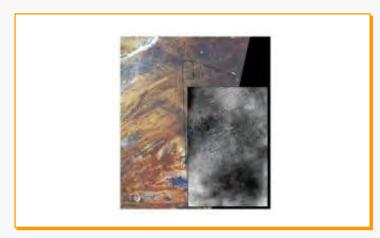
Hyperspectral target and anomaly detection



Dune mapping by InSAR



Internal dune structure using GPR



Earth Wind streaks



High spatial resolution for Hydro geomorphic processes in hyper arid regions



Rapid response after natural disasters



#### Pre- And Post-Tsunami Radarsat Image - 31/12/2004



31/12/2004





## The Responsive space

Rapid response using remote sensing lessons from the 2004 Tsunami





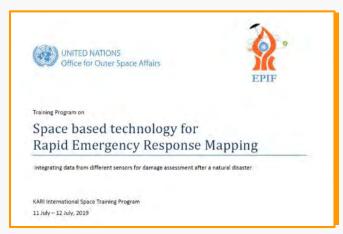


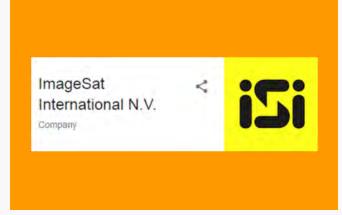
#### ISRAEL RSO ACTIVITIES 2019/2020

Establishment of the RSO in Israel, via ISA.

Capacity building on rapid emergency response satellite mapping.

Development of recommended practices based on our research.







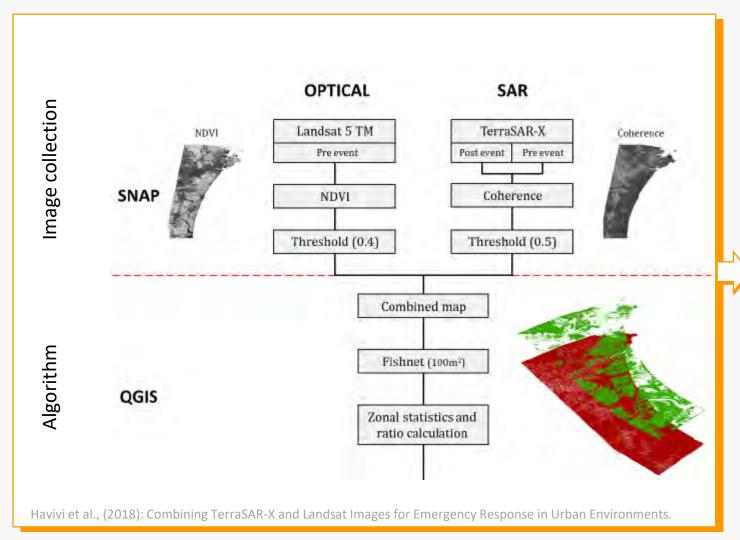
KARI training

Collaboration with Israeli space industry

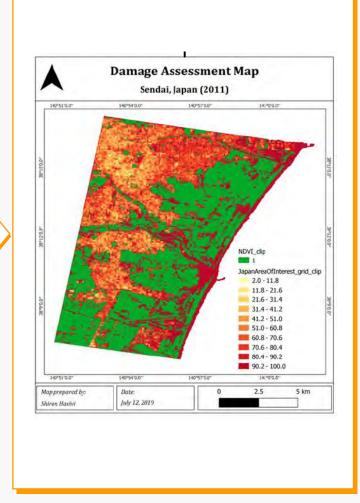
Expert support in advisory missions



#### KARI TRAINING PROGRAM

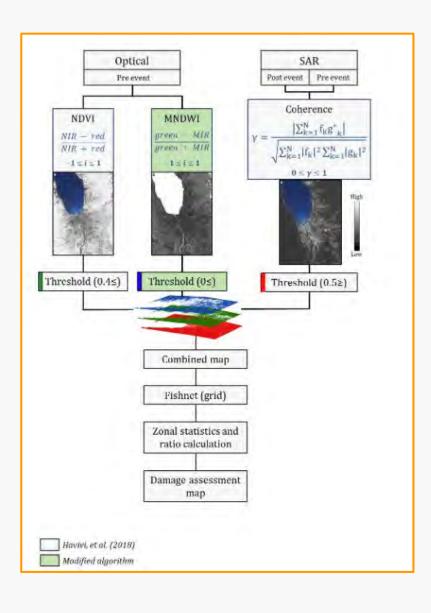


#### Interpretation





#### ALGORITHM IMPROVEMENTS FOR UPCOMING TRAINING









## Ben-Gurion University Satellite



BGU, ISA and IAI Joint Venture in Nanosatellites

3U CubeSat, LEO

**SWIR Imaging** 

IAI BUS - LEON3

Ground Station UHF/VHF/S-band

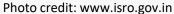


#### Ben-Gurion University Satellite



# Successfully launched!

Feb. 15 2017, from India on the PSLV-C37.





# Mission Patch





