Korea Astronomy and Space Science Institute (KASI) has grown with radio astronomy in 1986. Taeduk Radio Astronomy Observatory (TRAO) has 14m telescope, and it is the first telescope for Korean radio astronomers. Korea VLBI Network (KVN) has born by experience on the TRAO, and the three 21m telescopes has become one of the important facility on VLBI network. As a member of East-Asia community, JCMT and ALMA are also supported to Korean Astronomers. Technical in-kind contribution at receiver and GPU spectrometer parts is based on the ALMA utilization. Phased Array Feed (PAF) is on long term project of single dish facility. KASI will be good companion for the future development.
Simulation on KVN and Extended KVN

Simulation shows that Extended KVN adds short baseline for VLBI, and it makes extended source can be detected.

For Extended KVN, a new multi-frequency Rx is being developed by KVN team. There are two modules, one is for three low frequencies (22, 44, & 86 GHz), and the other is for high frequencies (125 & 230 GHz).
Beam Measurement System (BMS) is developed for BAND7+8 horn test by KASI team. It measures beam parameters with semi-OTF method that one-side horn flies on one-direction only. It results fast and more reliable data.