The study of both neutral and charged Kaon decays has provided a wealth of physics results over the last 60 years, from the discovery of CP violation to fundamental parameters that tested the validity of the Standard Model of Particle Physics. A series of new experiments that will be capable of studying both charged and neutral decays of the Kaon is under preparation. With a high statistics study of these kaon decays, the NA48 experiment expects still further advances and even the prospect of searching for physics beyond the standard model.