Gauged supergravities, theories in which the gauge connection appears in the covariant derivative of the gravity theory and in its supersymmetric transformations, has long been studied, in the pre-AdS/CFT era mainly for the purpose of classifying them all in various dimensions. After the AdS/CFT, however, the gauged supergravities have gained another status due to their connection to AdS backgrounds. Although the gauge group of the gauged SUGRA's are generically non-Abelian, they usually admit a consistent reduction to their (maximal rank) Abelian sector. These are the theories which are often called "gauged STU models". In this seminar I'll give a brief review of the status of these gauged STU models and report on our work in progress on constructing a new 6d U(1)^2 gauged SUGRA and its embedding in IIB theory.