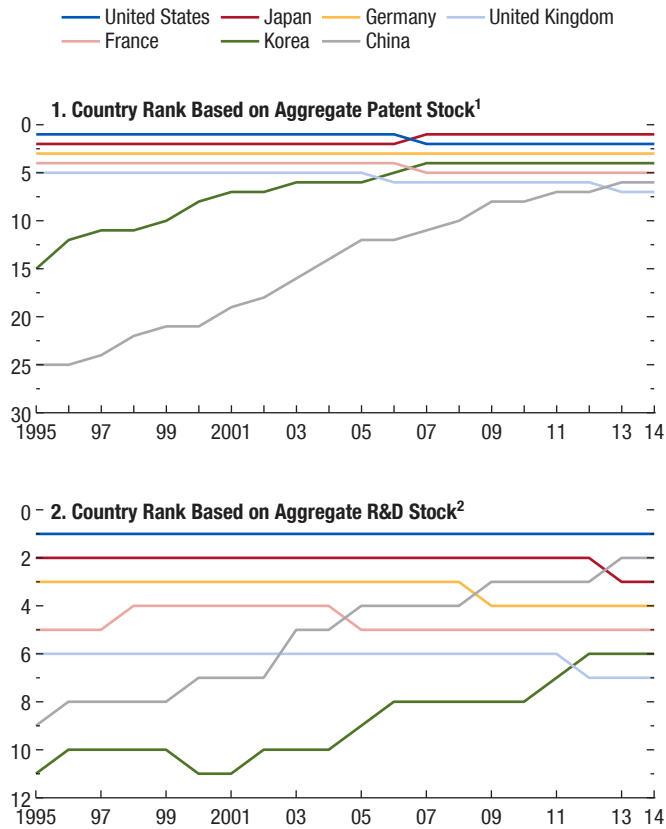


Figure 4.4. Countries at the Technology Frontier



Sources: European Patent Office, PATSTAT database; Organisation for Economic Co-operation and Development; and IMF staff calculations.

Note: R&D = research and development. Data labels use International Organization for Standardization (ISO) country codes.

¹Based on international patent families.

²Cumulated gross domestic expenditure on R&D (in millions of constant US dollars at purchasing power parity).