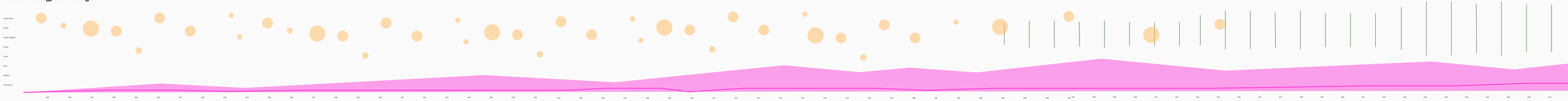Nuclear Energy and Testing