In only two years time, the LHC experiments carried out a plethora of searches, placing stringent limits on the existence of new physics beyond the Standard Model at the TeV scale. Starting from an example of an inclusive search for a dark-matter candidate with the CMS detector, I discuss how the implications of the current results for theories like supersymmetry lead to an evolution of the search strategies. With even more LHC data expected shortly, rare production modes, and the naturalness itself of supersymmetric models, will be put to the test.