

# 16 years of CMO M&A

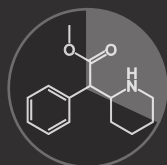
Between 2000-2016, the Contract Manufacturing Organizations AMRI, Capsugel, Catalent, Lonza, Patheon and Recipharm made a total of 38 M&A's — expanding their manufacturing capabilities and geographic reach.



**76%**  
expanded  
capabilities



**37%**  
gained drug product  
manufacturing



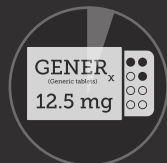
**32%**  
gained drug substance  
manufacturing



**18%**  
gained technology  
platforms



**11%**  
gained clinical  
trial supplies



**5%**  
gained  
packaging

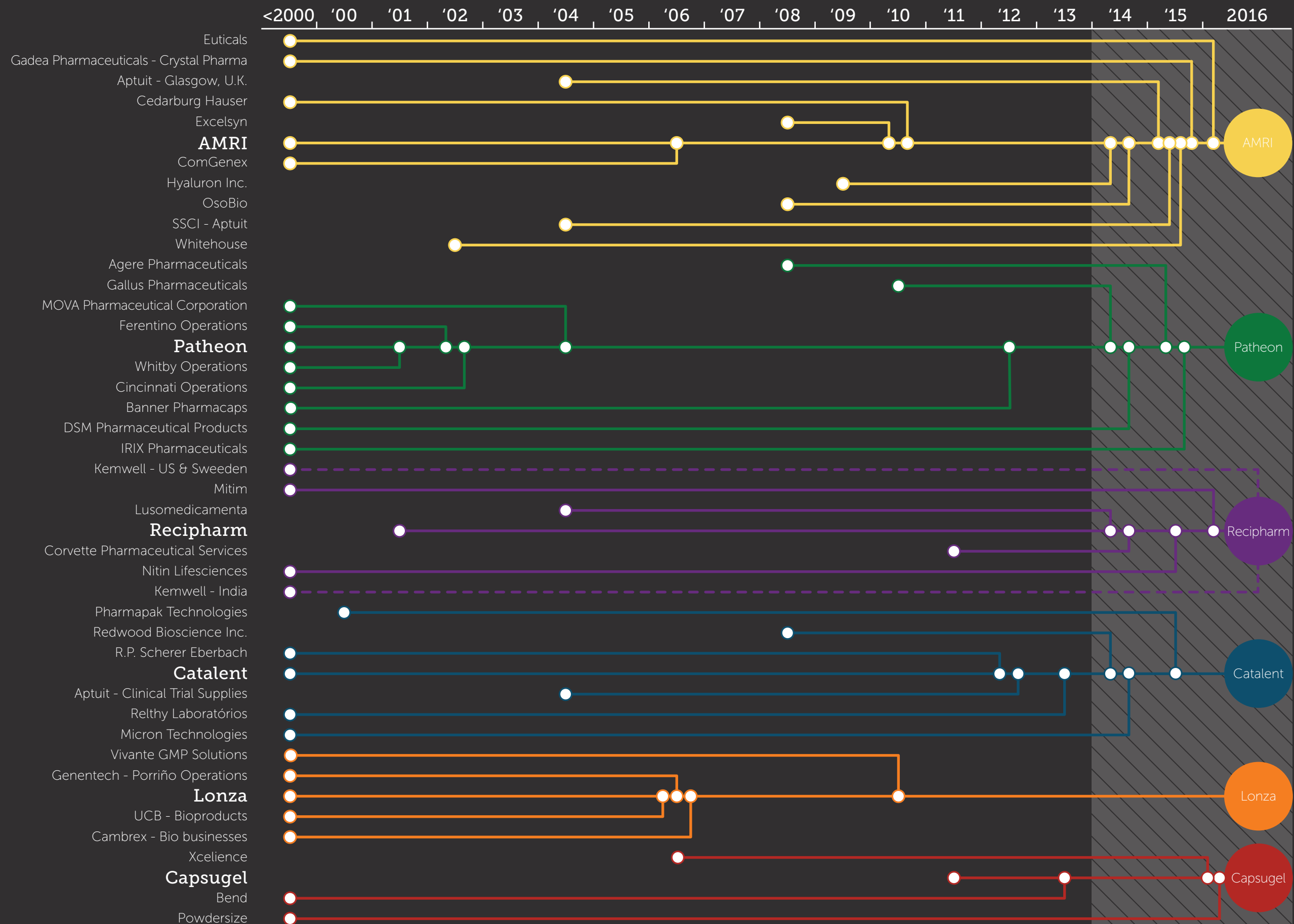
How to read the graphic:

● Company founded

● Point of merger/acquisition

--- Deal expected to close by 2016

Over half of all M&A's displayed occur between 2014-16



SOURCES: AGERE PHARMACEUTICALS / ALBANY MOLECULAR RESEARCH INC. / APTUIT / BANNER PHARMACAPS / BIOPHARMA-REPORTER.COM / BLOOMBERG / BUSINESS WIRE / CAMBREX / CAPSUGEL / CATALENT / COMPANIES HOUSE / CONTRACT PHARMA / DPX HOLDINGS B.V. / DSM PHARMACEUTICAL PRODUCTS / FIERCEPHARMA / GADEA PHARMACEUTICALS / GENENTECH / GENETIC ENGINEERING & BIOTECHNOLOGY NEWS / HYALURON INC. / IN-PHARMATECHNOLOGIST.COM / IRIX PHARMACEUTICALS / KEMWELL / LONZA / NITIN LIFESCIENCES / NOVARTIS / OSOBIO / OUTSOURCING-PHARMA.COM / PATHEON / POWDERSIZE / PR NEWswire / QWENTES / RECIPHARM / SANOFI / SSCI / UCB / XCELIENCE