Unconventionals Technology Trajectory

FUTURE:
Advanced tools to realistically predict fracturing and dynamic behavior. Use all the data to constrain the solutions. Optimize the system, not the parts. Integrate! Integrate! Integrate!

PRESENT:

PAST:
Little understanding of a very complex system. No broad industry experience. Trial and error. Rules of thumb and simplistic models. Point solutions. Barnett Shale is only example.