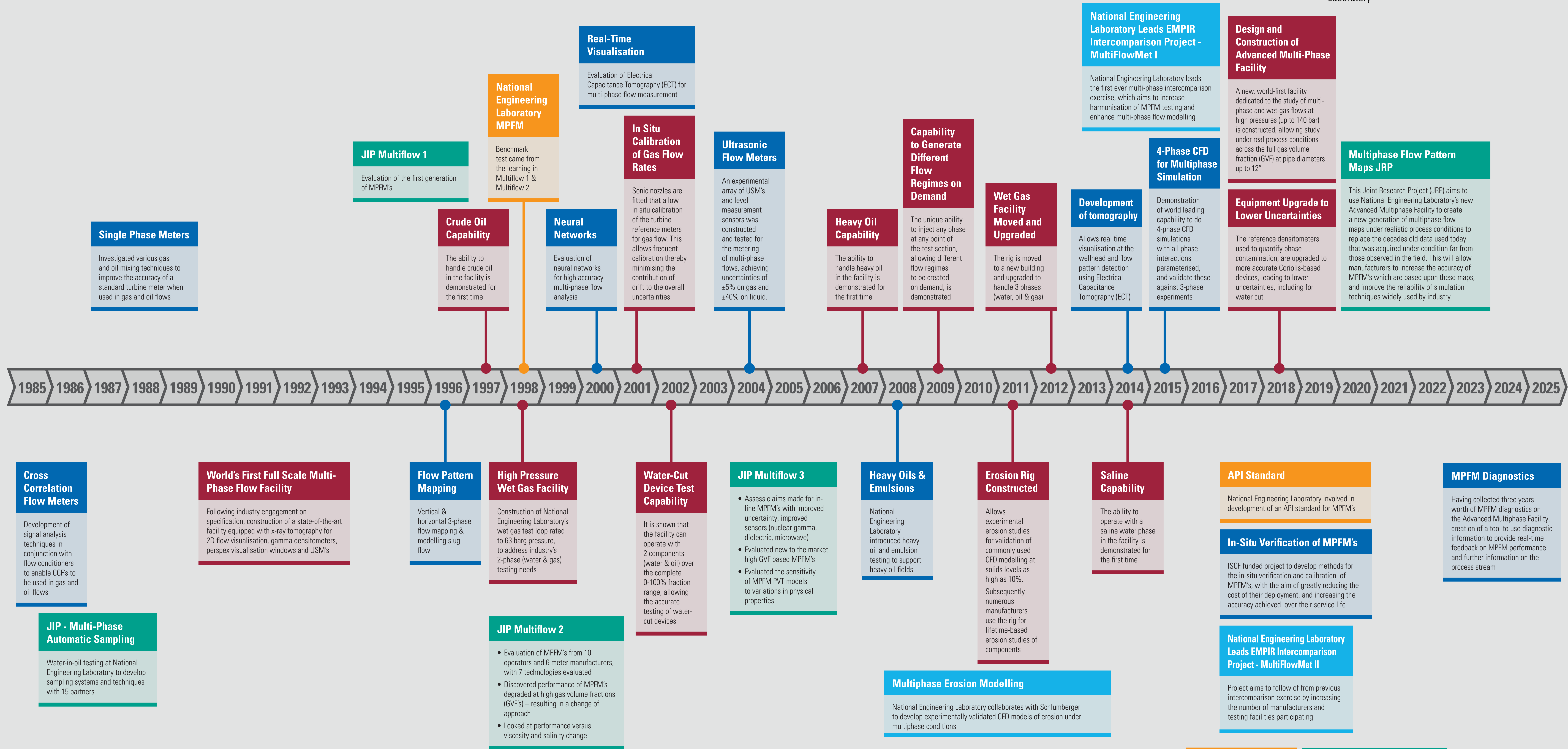


# Multi-Phase Flow Meter (MPFM) Timeline – 1985 - 2025



## Impacts

National Engineering Laboratory has led the world in the development of multiphase and wet-gas flow understanding

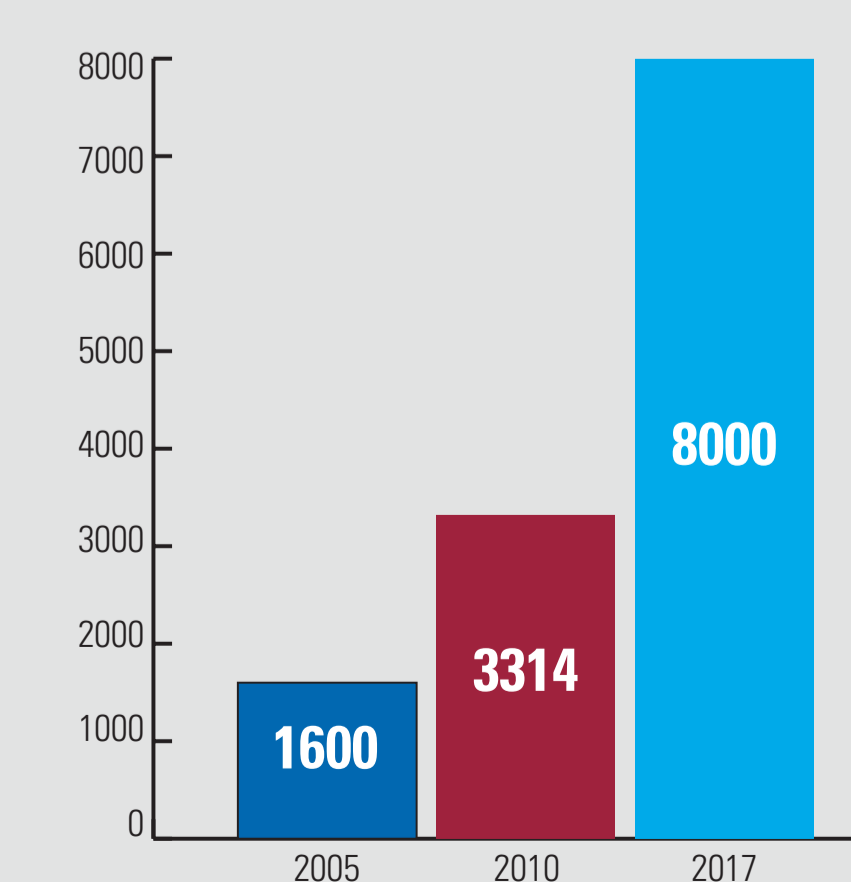
National Engineering Laboratory work has greatly accelerated the development of MPFM's and their implementation by industry users

National Engineering Laboratory built the world's first full scale multiphase facility in the late 80's, and is now building a world first facility for the study of multiphase flows under realistic process conditions - the Advanced Multiphase Facility

National Engineering Laboratory has led the development of the first multiphase flow standard

98% of the MPFM types in-service worldwide today have been tested at National Engineering Laboratory

MMs installed worldwide



Sources: 2005 & 2010 Oil & Gas Journal, 2017 Market Review

- STANDARDS AND INDUSTRY GUIDANCE
- INTERNAL RESEARCH
- CAPABILITY DEVELOPMENT
- COLLABORATIVE WORK WITH EXTERNAL PARTNERS
- JOINT INDUSTRY PROJECTS (JIP'S)