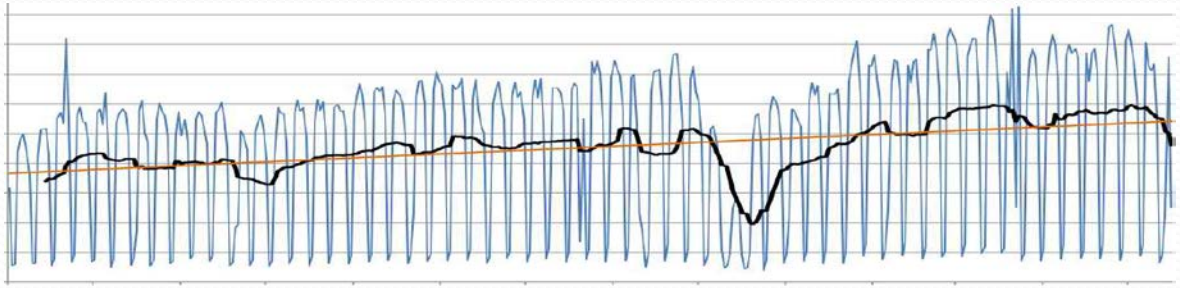
Agile Delivery Speed at Amazon

- Amazon adopted agile in 1999 and Scrum in 2004
- Using enterprise-scale continuous delivery by 2010
- 30,000+ developers deploy over 8,600 releases a day

- **Software deployment every 11.6 seconds (as of 2011)**
  - → **24,828 to 86,320 releases per Iteration**
  - → **161,379 to 561,080 releases per Quarter**
  - → **645,517 to 2,244,320 releases per Year**
- **Automatic, split-second roll-forward & backward**
- **75-90% reduction in release-caused outages (0.001%)**
- **Millions of times faster (than traditional methods)**
  - → **4,357,241 to 15,149,160 per traditional release**
- **Thousands of times faster (than manual agility)**
  - → **161,379 to 561,080 per Scrum/SAFe release**
- Used agile methods long before U.S. government **(1999)**



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