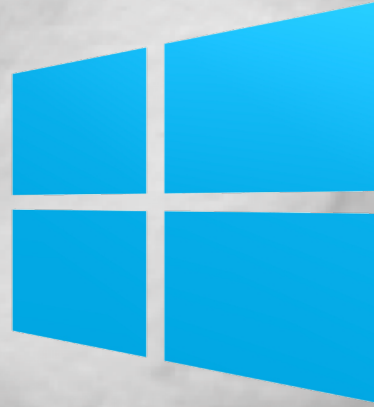


Sisyphus, Windows, Xbox, and Lean



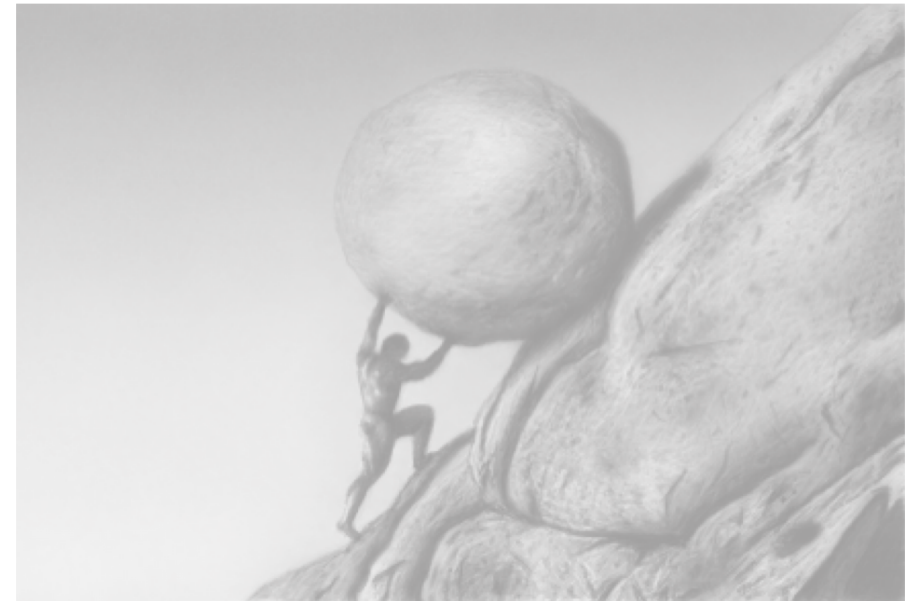
Eric Brechner
Principal Dev Manager
Windows & Xbox



LeanKanban
North America 2018

Our struggle

- Lean at Microsoft
- A short history of Windows and Xbox
- Teaching an old dog new tricks
- Tried it, didn't like it
- Vary the old tricks
- Train the fleas
- Kanban enables lean continuous delivery



Lean at Microsoft

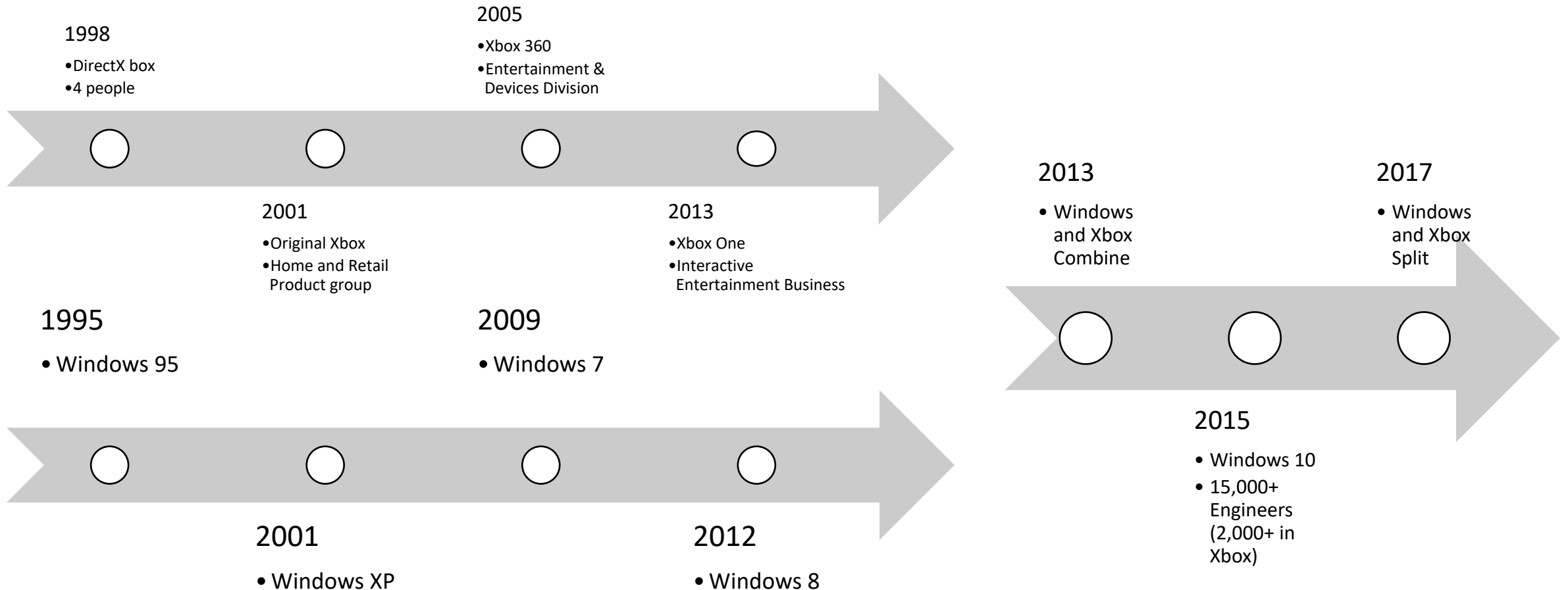
Foundation

- Feature teams
- Customer focus
- Continuous integration
- Quality control
- Agility of feature teams

Remodel

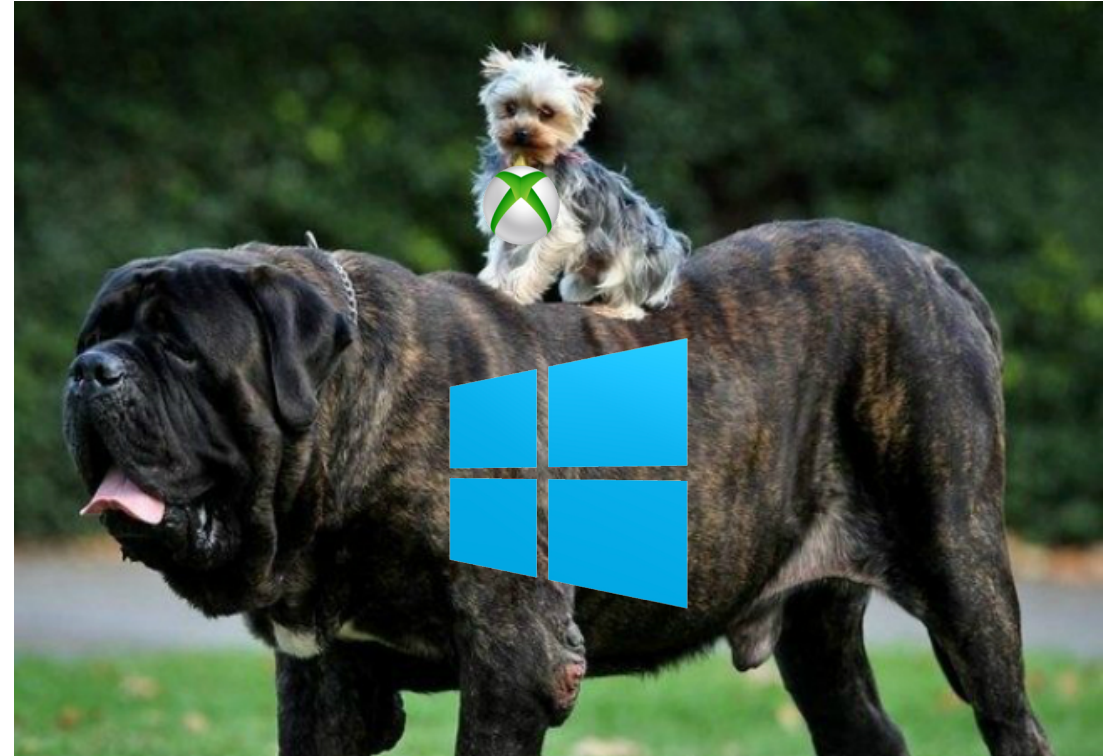
- Data-driven decision making
- Customer obsession
- Continuous delivery
- DevOps
- Kanban

A short history of Windows and Xbox



Teaching an old dog new tricks

- Five years ago, Windows and Xbox both felt the need for speed
- Xbox: progressive, energetic
 - Moved to CI/CD in 2 years
- Windows: conservative, massive
 - Moved portions to CI/CD in 3 years
 - Remaining accelerating toward CI/CD
- Some things worked, some didn't



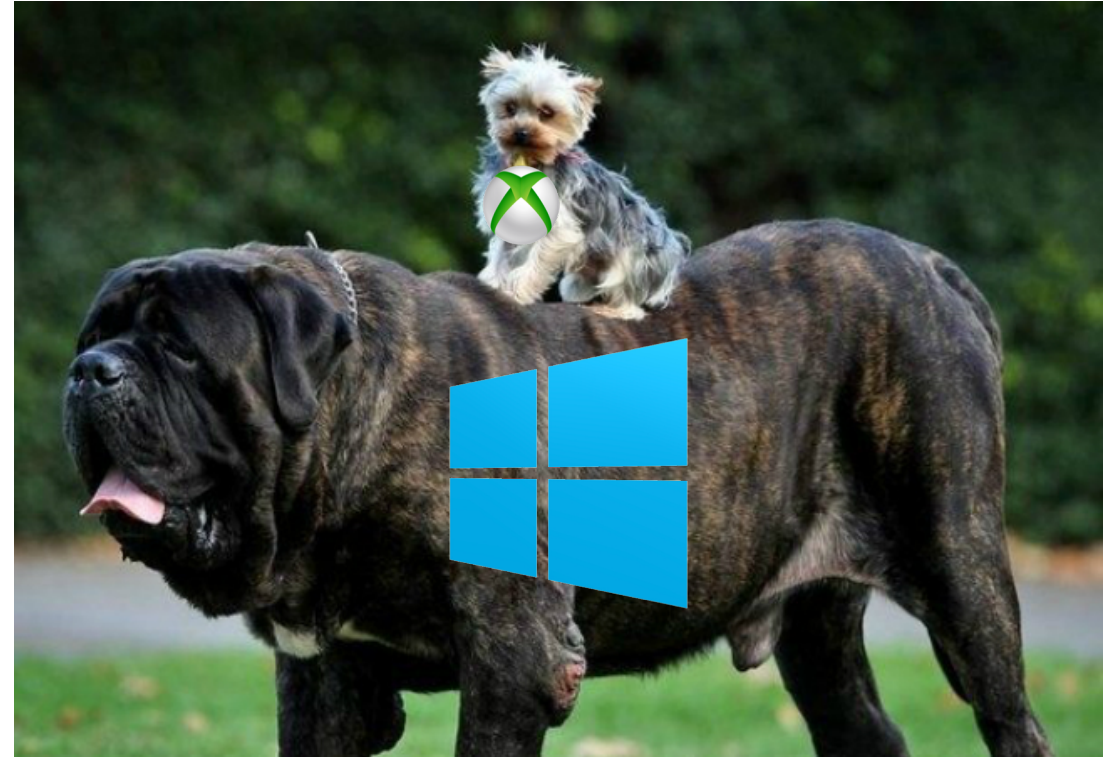
Tried it, didn't like it

- Swapped out the build system (fail)
 - ~~Changing everything at once~~
 - A step at a time
- Advocated “continuous delivery” (scary)
 - ~~New terminology~~
 - Familiar ideas with new twists
 - “flighting”, “idea to data”, “code to customer”
- 3-year cycles → 1 year → ~~1 month~~ (6 months)
 - ~~Moving too fast~~
 - Incremental steps with time to adjust



Old dogs don't really learn new tricks

- Vary the old tricks
- Train the fleas



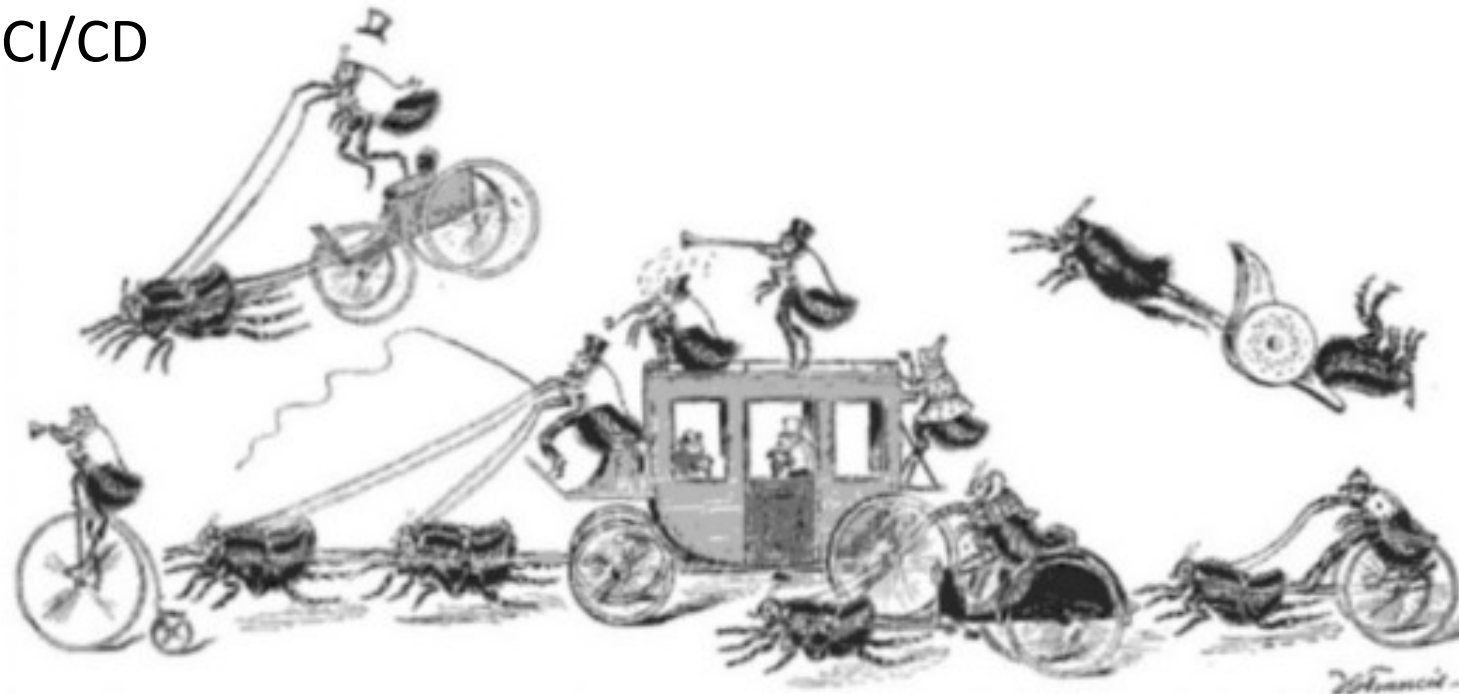
Vary the old tricks

- Keep the planning, but shorten the cycles
- Keep the features, but reframe around customer impact
- Keep the telemetry, but use it to make decisions
- Keep the continuous integration, but add continuous delivery



Train the fleas

- Adopt Kanban at feature team level
 - Make it hip, easy, and practical
 - Avoid being preachy and inflexible
 - Tie back to planning and release systems
- Refactor components to enable CI/CD
- Reduce technical debt
- Switch feature teams to DevOps
- Drive to sub-day cycle time



Kanban enables lean continuous delivery

“I understand Kanban and continuous delivery are not necessarily one and the same – but I think that continuous delivery workflow will help work move more smoothly using the Kanban model”

– Windows Dev Lead



Questions?

Kanban enables lean continuous delivery

