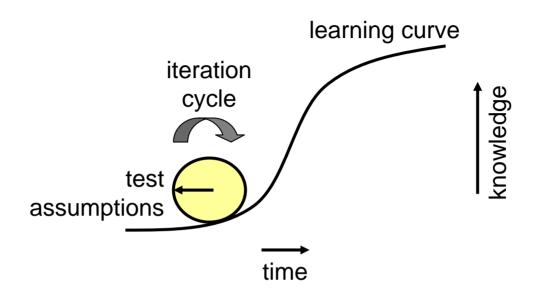


...Climbing the learning curve



Climbing the learning curve



- All development projects are based on assumptions
- Knowledge is created by testing these assumptions:
 - Climbing the learning curve'
- Iterations are the 'wheels' to climb the curve:
 - Larger diameter ⇔ Test more key assumptions in each iteration
 - Higher speed ⇔ Shorten iteration cycle to learn faster



Testing assumptions

- Each design iteration needs to be designed to validate the most critical untested assumptions
 - Discovery-driven planning
- Identify assumptions that are independent of each other
 - Use Design of Experiments (DOE) methodology to cover the 'assumption space'
- Assume the design won't work in this iteration
 - Plan the debug strategy up front
- Prototype everything
 - and often!



Shorter cycle time

- Find the bottleneck in design iterations and make sure its always kept working on the program
- Pipeline design iterations
 - Set up at least two (independent) groups of assumptions to be tested
 - Run design iterations against each group of assumptions
 - Stagger the two groups to get a continuous flow of knowledge

