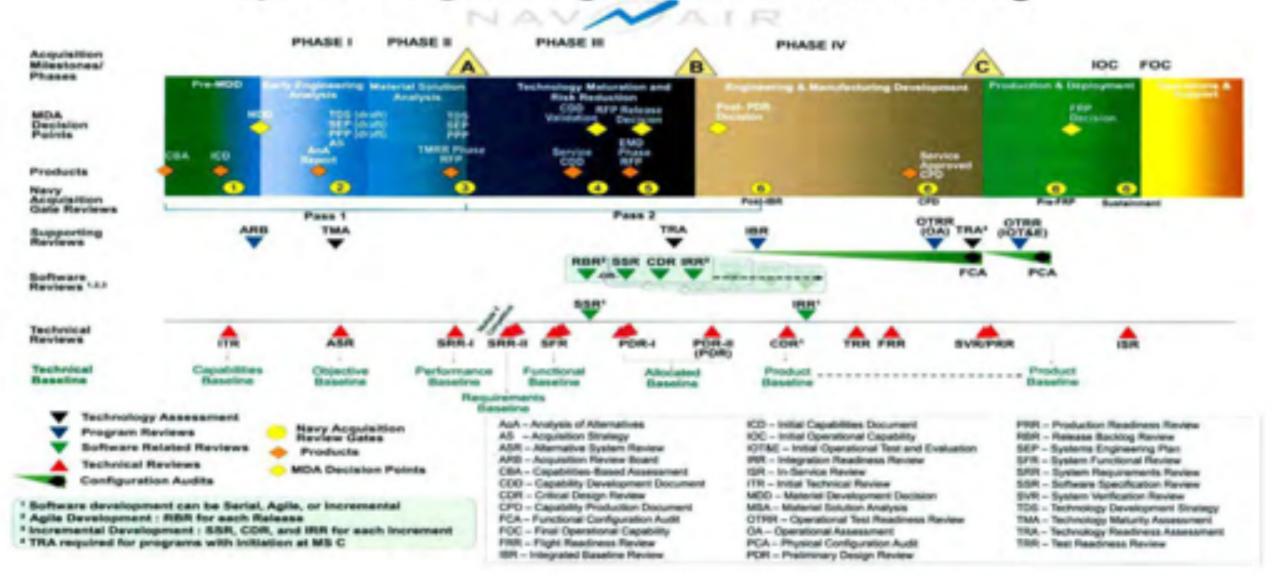
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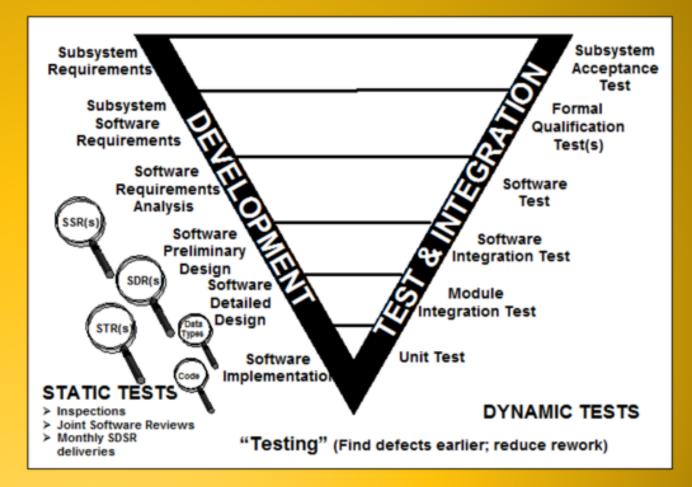
30 years

Systems Engineering Technical Review Timing

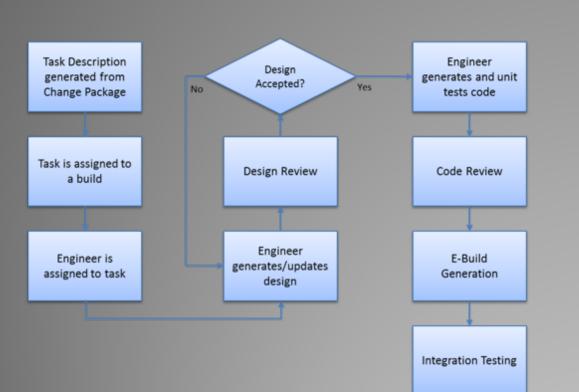


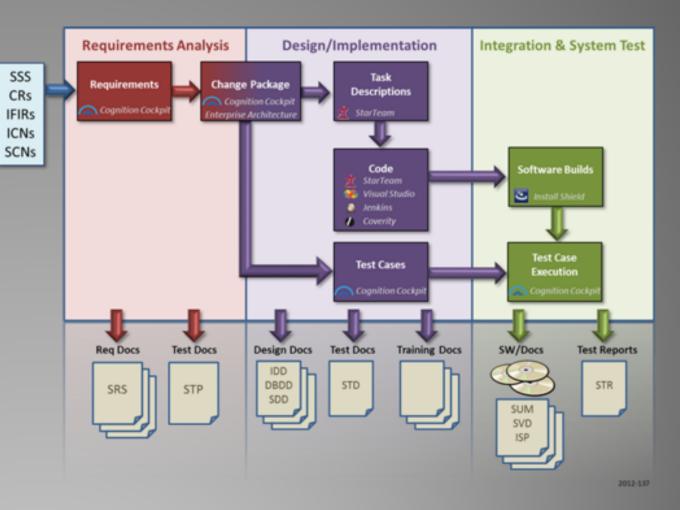
Development Methodology

Much of it was customer directed Program schedules and contracts written around a waterfall driven acquisition and development process



No Going Back!





Where are the gorillas? You promised gorillas!



4 years 10 years

4 years: SRR -> IOC **10 years: IOC ->FOC** 2-6 years

Why Change?

- Other people in the company are doing it
- Promises better outcomes
- Executive is pushing for it

900 Defects

"Learning" Pls

- The leadership team did not want to start the ART launch with the whole team until October (+7 months)
- Leadership wanted to feel better equipped to lead the transformation
- Many Enablers needed to be done in preparation – tooling and process

Scaled back, "Learning" Program Increments were enacted by 6-8 key leaders using 2 hours per day per person for capacity planning



Benefits Realized After 1 Program Increment

"Far exceeded our goal, high value items demonstrated to the customer"

Increased Customer Interaction

PI-1 Solution Demo had both military customer and requirements partner in attendance Witnessed first hand a 10 week development cycle-time Customer expectations and requirements already changing

Software Quality

DO see benefit from multi-disciplined development teams Deeper discussion of behavior, architecture, test

"Shocked at how quickly teams are adapting"



PI 1 Retrospective

Program Retrospective

Convertig presenting: The Sector 1

Positives

- Good job working together as a team
- Made it through a Program Increment!
- Successful solutions demo to the customer

Do Better

- Improve backlog grooming
- Better definition of acceptance criteria
- Sharing Best Practices
- Incorporate story testing into iteration
- Adherence to Sprint cadence



Additional Progress

PI-2 (currently mid PI-2)

Started Pre-PI Planning a full week prior to PI Planning Huge difference, mature features Velocity increasing, some teams finishing early and asking for more work Cadence improving each sprint, sprint demos happening regularly

PI-3

Midway into PI-2 have started PI-3 planning This will be the real test, 3 concurrent baselines in development, contractual dependencies

Nasty Realities





- Tension between agile team and scaled agile
- "Watermelons" in key positions
- Social change





The Gorillas are Becoming Agile

The Pentagon should "immediately" adopt private-sector practices for agile software development and jettison its traditional methods in favor of a more iterative approach, according to an influential advisory board.

Inside Defense 3/28/2018



The Military is on the Move



https://www.youtube.com/watch?v=Rw6lcaqA5MM

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