



SMARTBEAR

Delivering Performant Applications

Through a Little Work, Everyday, From Everyone

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Created for:



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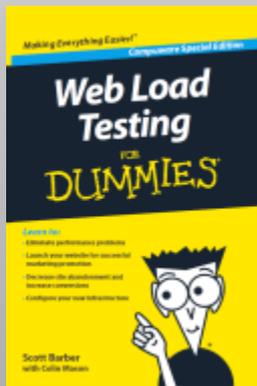
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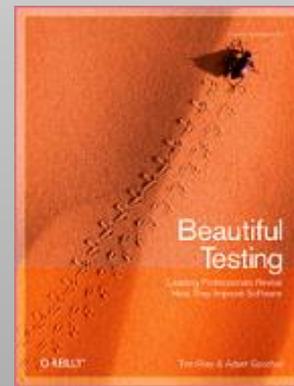
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What is Performance?

System or application characteristics related to:

– Speed:

- responsiveness
- user experience



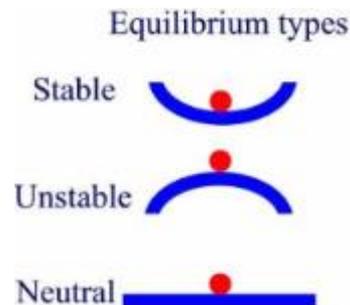
– Scalability:

- capacity
- load
- volume



– Stability:

- consistency
- reliability
- stress



What is a Performant System?

A system optimized to balance:

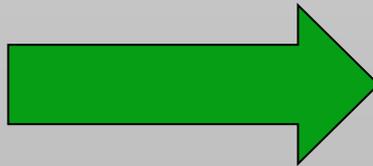
- Cost
- Time to Market
- Capacity

...while remaining focused on:

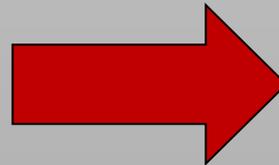
- **Quality of Service to System Users**

The Performance Lifecycle is:

Conception to Headstone

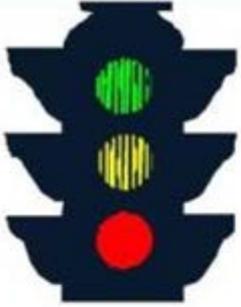


Not



Cradle to Grave

To Prevent a Wreck



Left and Right



You Must Check

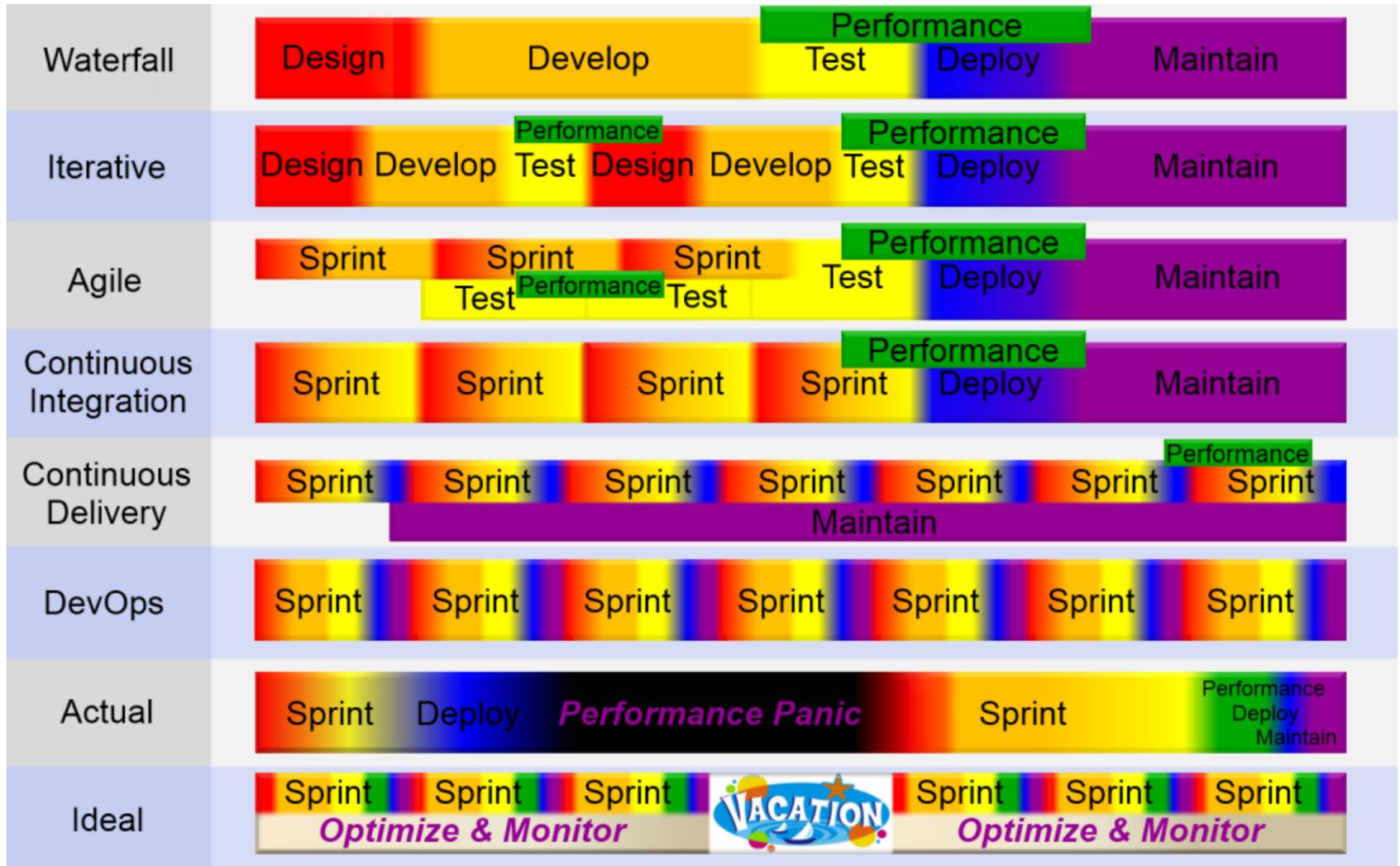
www.cap.gov

... don't just react when it happens.

Who is Responsible?

Everyone

Where does it fit in the SDLC?



Delivering Performant Systems;

Commonly, Y2K -> Today

SPE (Software Performance Engineering)

- Math-centric Architect/Design method

+ Profiling

- Context-free code optimization

+ Load Testing

- Demonstrate (too late) poor performance characteristics

+ Capacity Planning

- Math-centric guessing to determine hardware needs

+ APM (Application Performance Management)

- Proactively react to production issues

=> Inefficient & Reactionary Delivery & Maintenance

Delivering Performant Systems;

Moving Forward

Minimize Need for Complex Mathematics

- Few teams have mathematicians w/ advanced degrees

Disconnect Accuracy from Empirical Production Data

- Because we can't depend on what we don't have yet

Remove Socio-Political Barriers

- Collaboration improves information sharing & efficiency

Keep/Adapt most Valuable Practices

- Many good concepts have been poorly implemented

Distribute Valuable Practices Throughout Life Cycle

- Many valuable practices have suffered from stove-piping

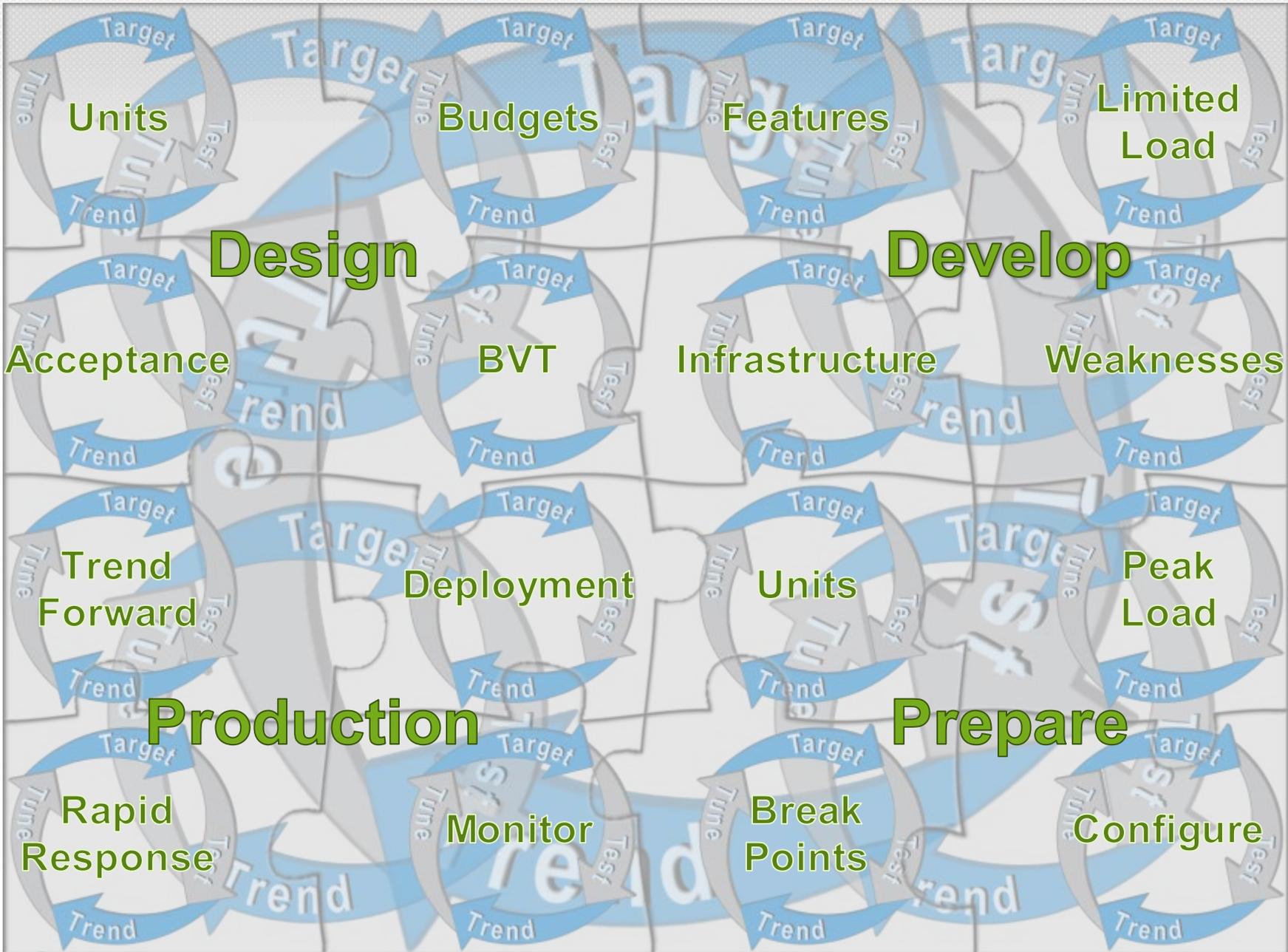
I believe there is a better way...



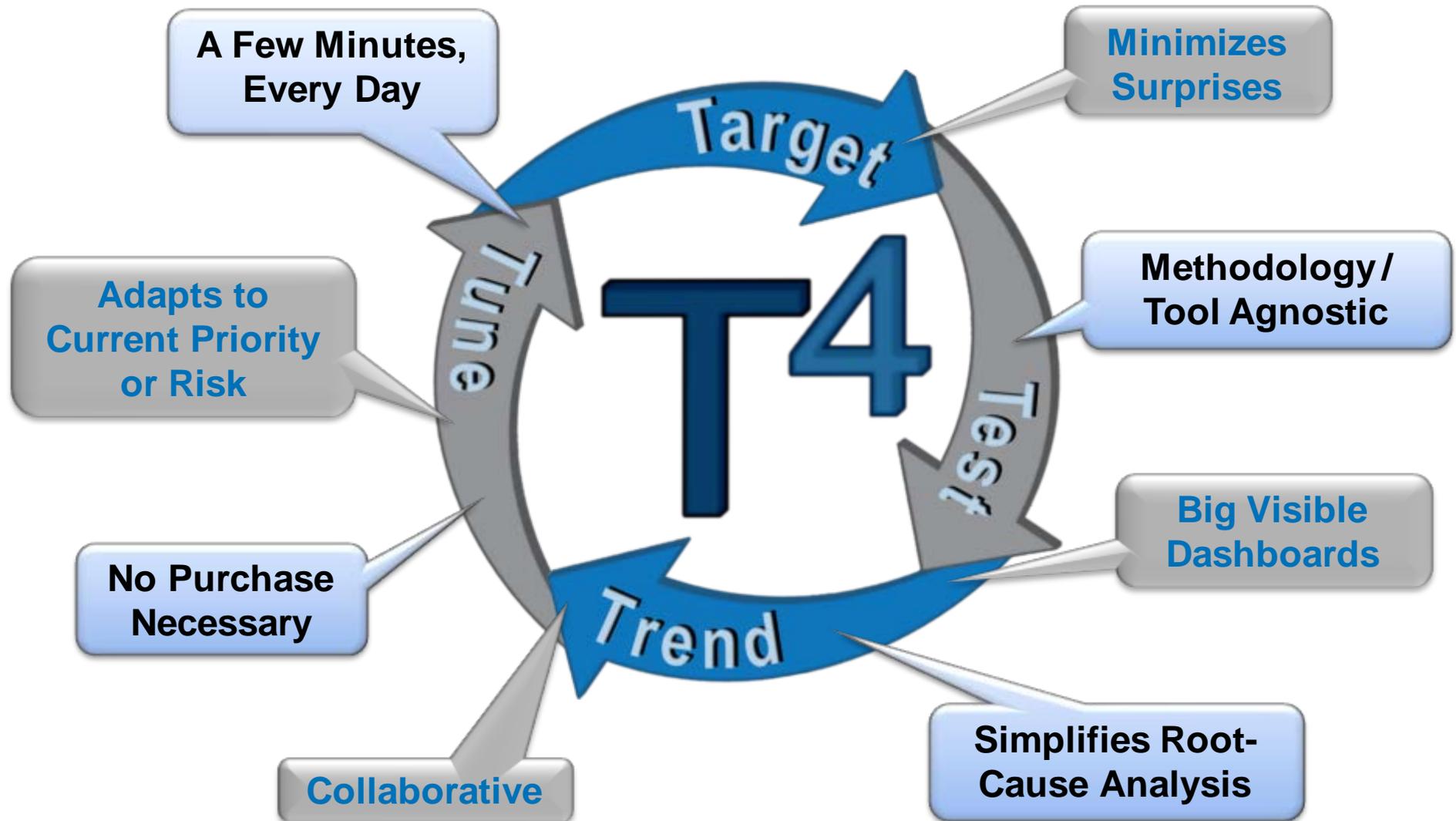
**Preventing Poor Performance
with a *little* work...
*every*day...
from *every*one.**

What is it?





Value Proposition

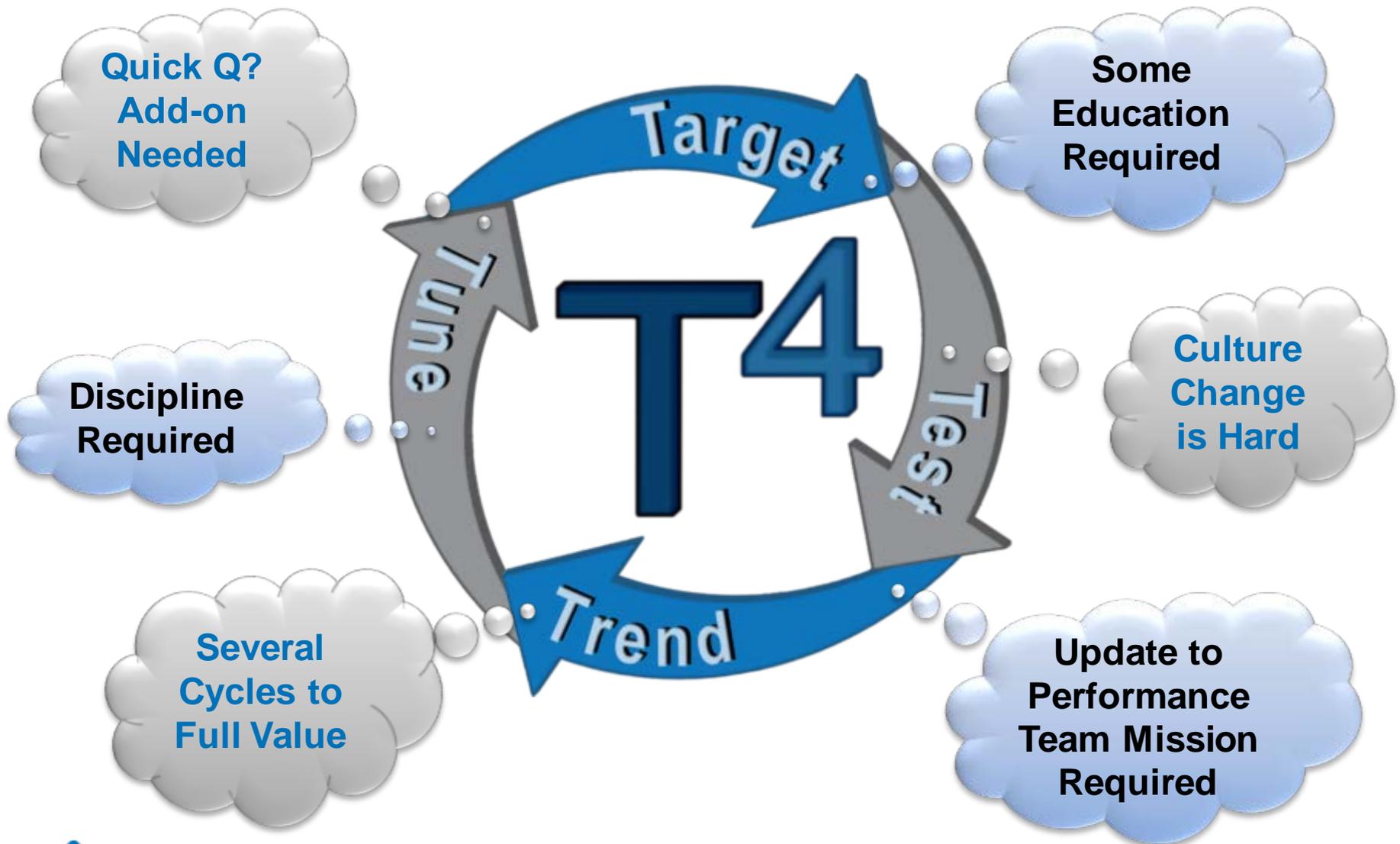


An Ounce of Prevention

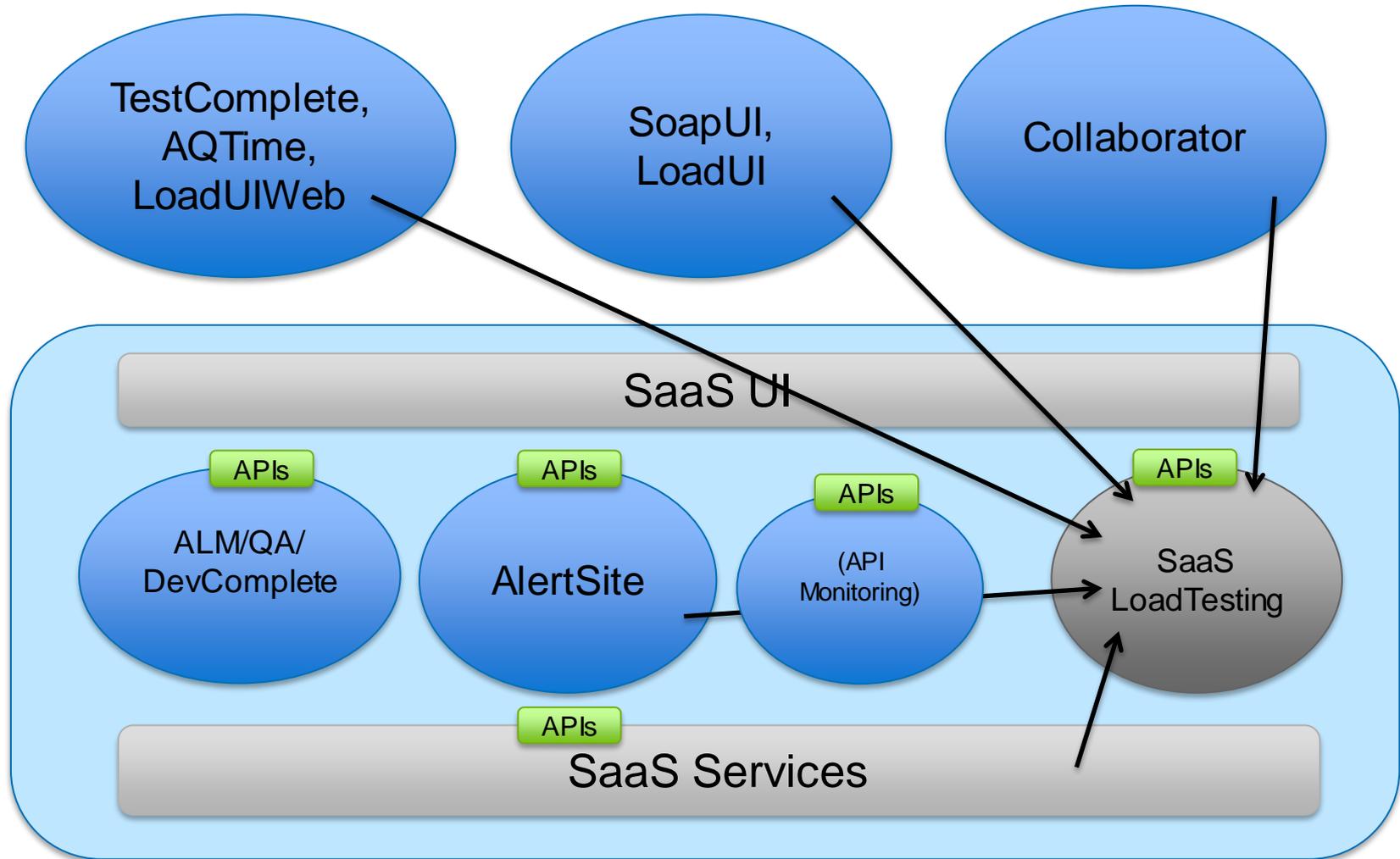


“What fits your busy schedule better, exercising one hour a day or being dead 24 hours a day?”

Challenges



SmartBear Trending Toward T⁴



Addendum

Jessica's Story

Bottom Line



**Preventing Poor Performance
with a *little* work...
*every*day...
from *every*one.**

Questions?



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 **SMARTBEAR**

Unit Level Performance Tools

('cause folks always ask)

[FireBenchmarks; Performance testing addin for NUnit](#)

[JUnitPerf; a collection of JUnit test decorators for performance](#)

[Firefox Performance Tester's Pack](#)

[HTTPerf](#)