



Performance Engineering and Value to Technology
12 July 2016

Brought to you by

Vivit Performance Engineering SIG

Champion: Todd DeCapua

Leaders: Petar Puskarich, Paul Shovlin and Chris Trimper

<http://bit.ly/VIVITPE>



Hosted By: PE SIG Leaders



HPE
Todd DeCapua
@AppPerfEng



NTT Innovation Institute
Petar Puskarich
@ppuskari



Independent Health
Chris Trimper
@trimper



Checkpoint Technologies
Paul Shovlin
@CheckpointPaul



Panelists



Checkpoint Technologies
Paul Shovlin
@CheckpointPaul



Highly Sought After Free Agent
Petar Puskarich
@ppuskari



Checkpoint Technologies
Tom Horsfield



Checkpoint Technologies
Tim Nichols



Monthly Vivit Worldwide Performance Engineering SIG Webinars

Second Tuesday of Every Month

[BLOG: PE is Fastest Growing Special Interest Group In The World](#)

12 Jan 2016: Vivit Worldwide PE SIG 2016	9 Feb 2016: PE in Agile	8 Mar 2016: PE in a CoE
12 Apr 2016: PE and Value to the Business	10 May 2016: PE as a Competitive Differentiator	14 Jun 2016: PE and Your End User
12 Jul 2016: PE and Value to Technology	9 Aug 2016: PE and Proven Practices	13 Sep 2016: PE Education
11 Oct 2016: PE Tools	8 Nov 2016: PE Solution Overview	13 Dec 2016: PE Core Capabilities

Call for Speakers Survey: <http://goo.gl/forms/YmFJZIRna1>



Housekeeping

- This “LIVE” session is being recorded
Recordings are available to all Vivit members
- Session Q&A:
Please type questions in the Questions Pane



Webinar Control Panel

Toggle View Window between Full screen/window mode.

Questions



Today's Agenda

- PE and the Value to Technology.
- Real-world examples from our panelists:
 - Petar Puskarich
 - Tom Horsfield
 - Tim Nichols
- Q&A?



PE & Value to Technology



POKÉMON GO™

Our servers are experiencing issues. Please come back later.



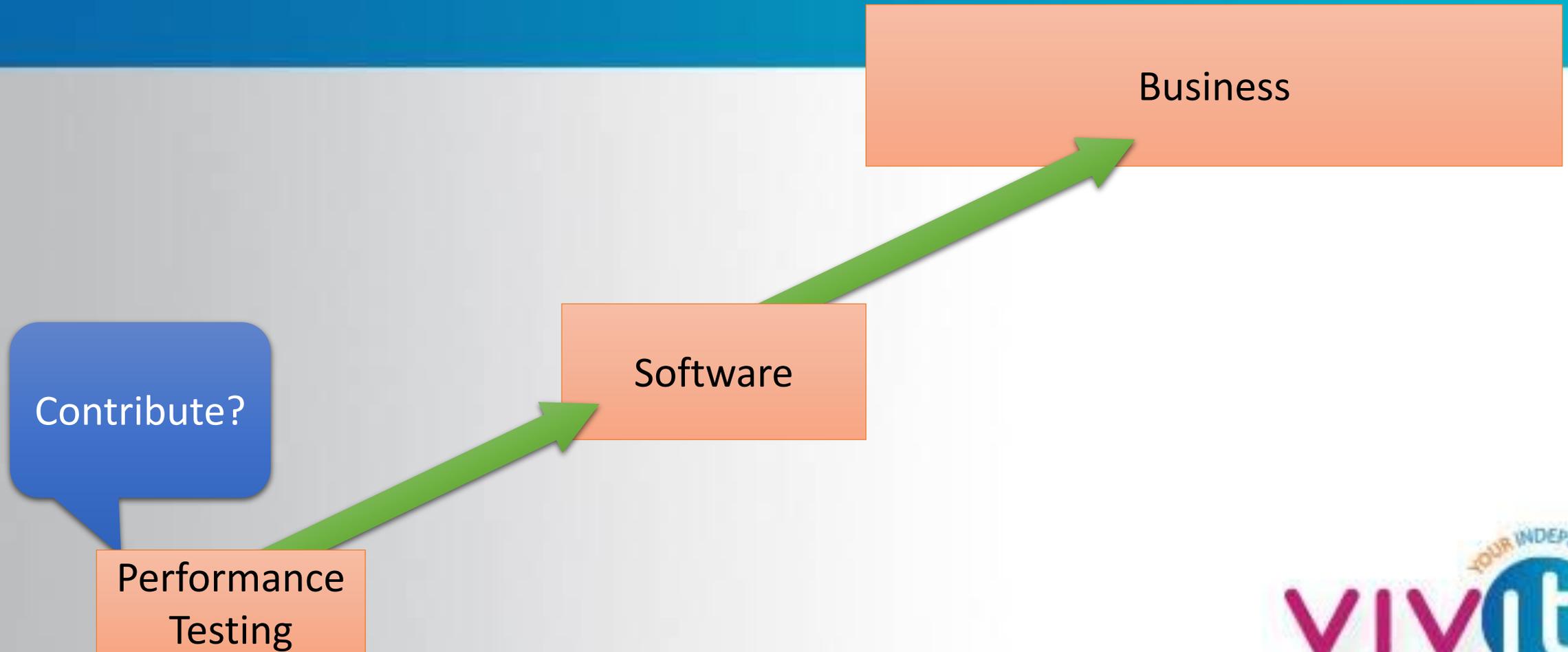
Polling Question #1

What is most challenging to your organization? [select one]

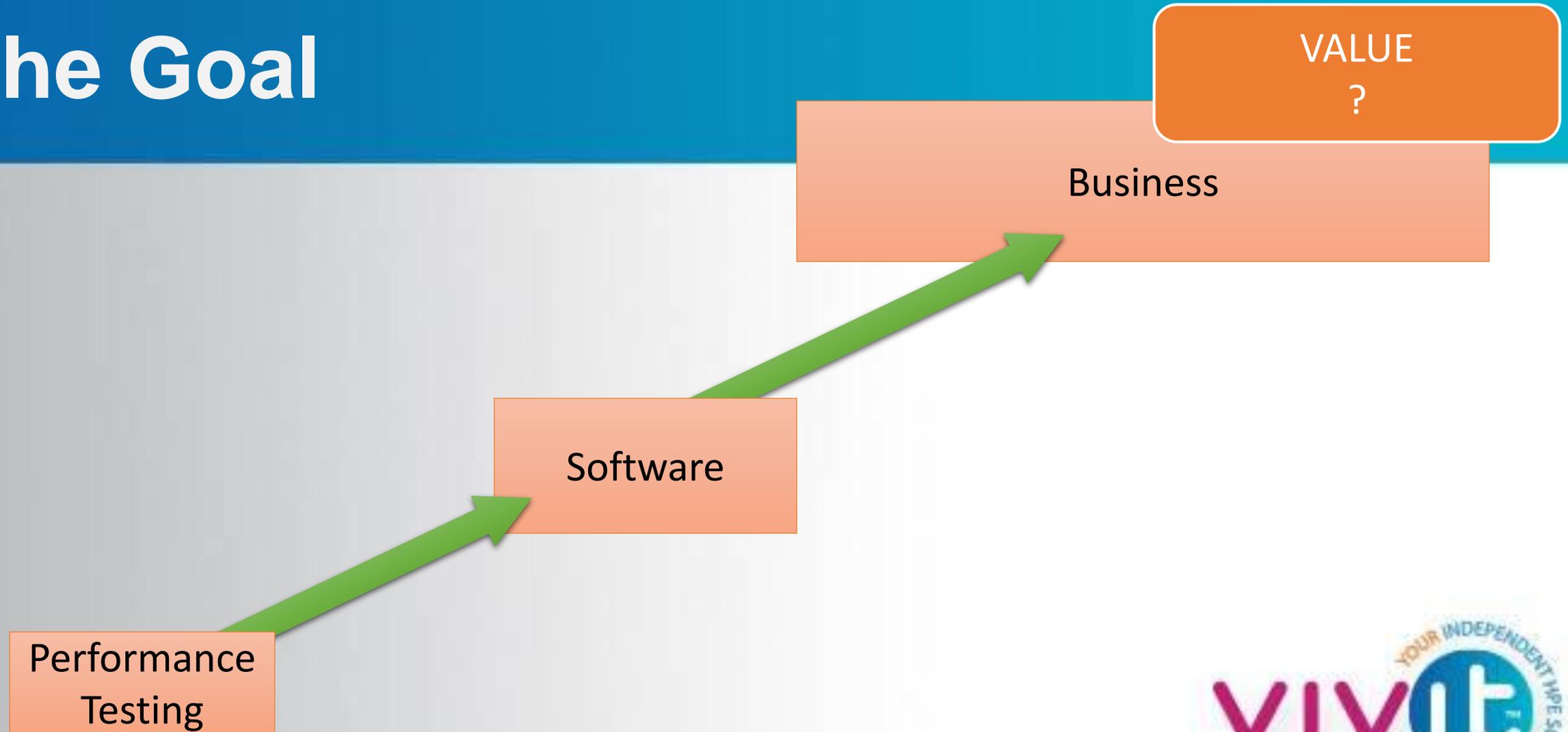
1. Preventing production incidents
2. End user satisfaction
3. PE not getting involved early enough
4. Lack of internal business champions for PE



A Performance Model



The Goal



Business Value

Revenue	Brand	Competitive Advantage
Today's Transaction Pass/Fail Fast/Slow	Repeat Business Friends & Family Social Media	Faster Stronger
Today's \$\$	Future \$\$\$\$\$\$\$\$\$	Draw/Keep Customers



Polling Question #2

Why do you see Performance Engineering as important for your organization? [select all that apply]

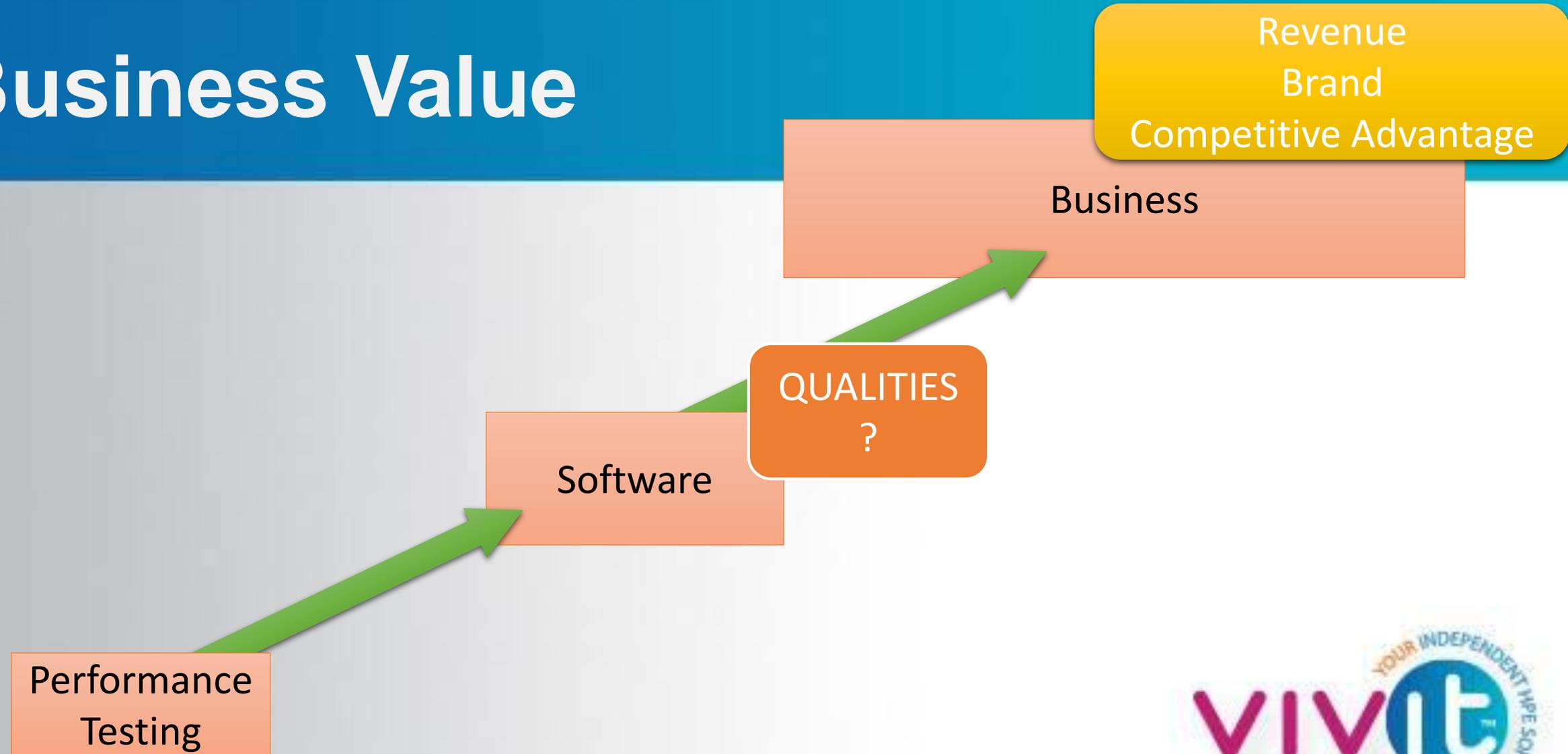
1. Revenue
2. Brand Value
3. Competitive Advantage
4. Customers (Acquisition and Retention)



Competitive Advantage



Business Value

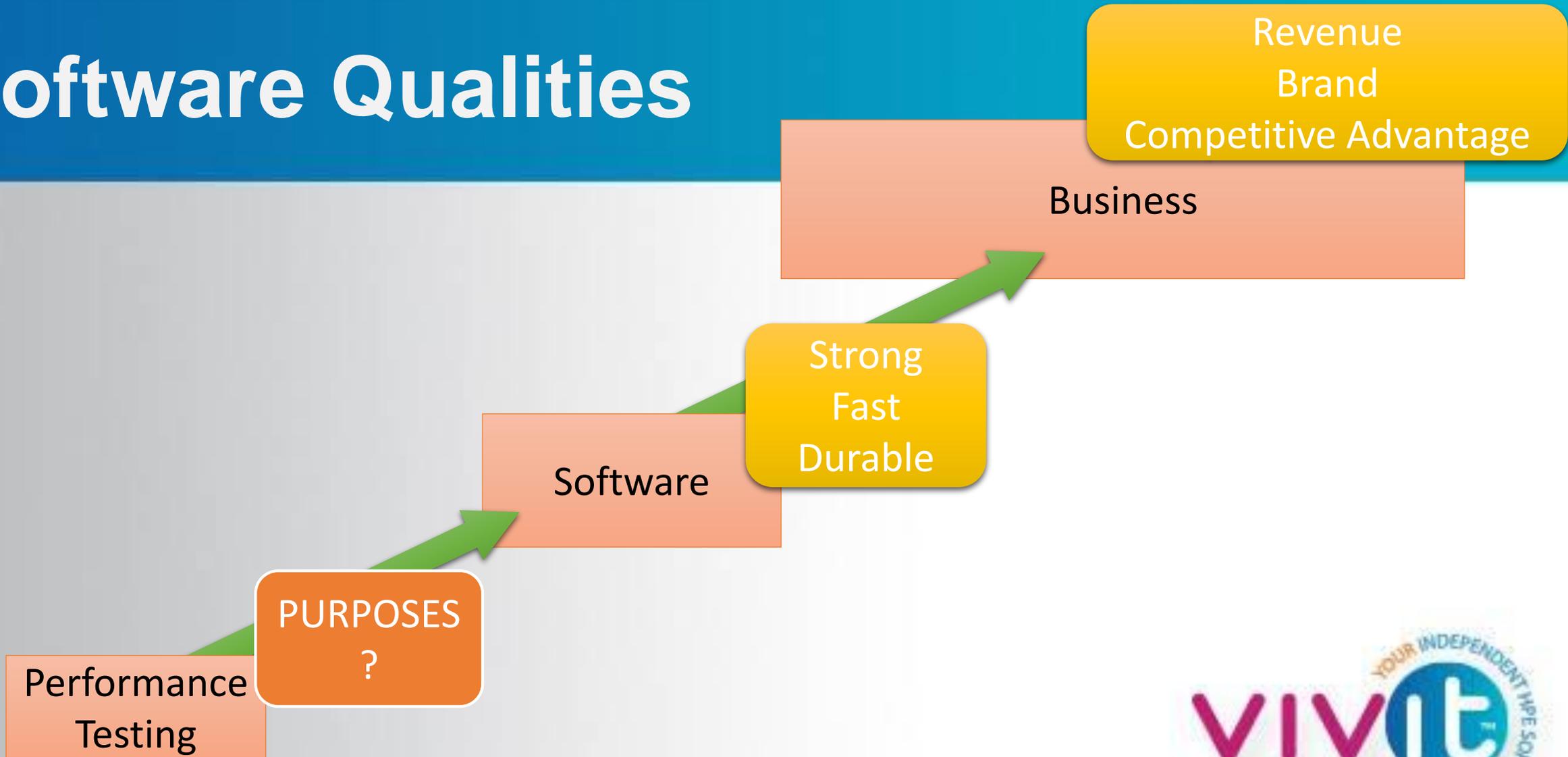


Software Qualities

- Strong *Enough*
- Fast *Enough*
- Durable *Enough*



Software Qualities

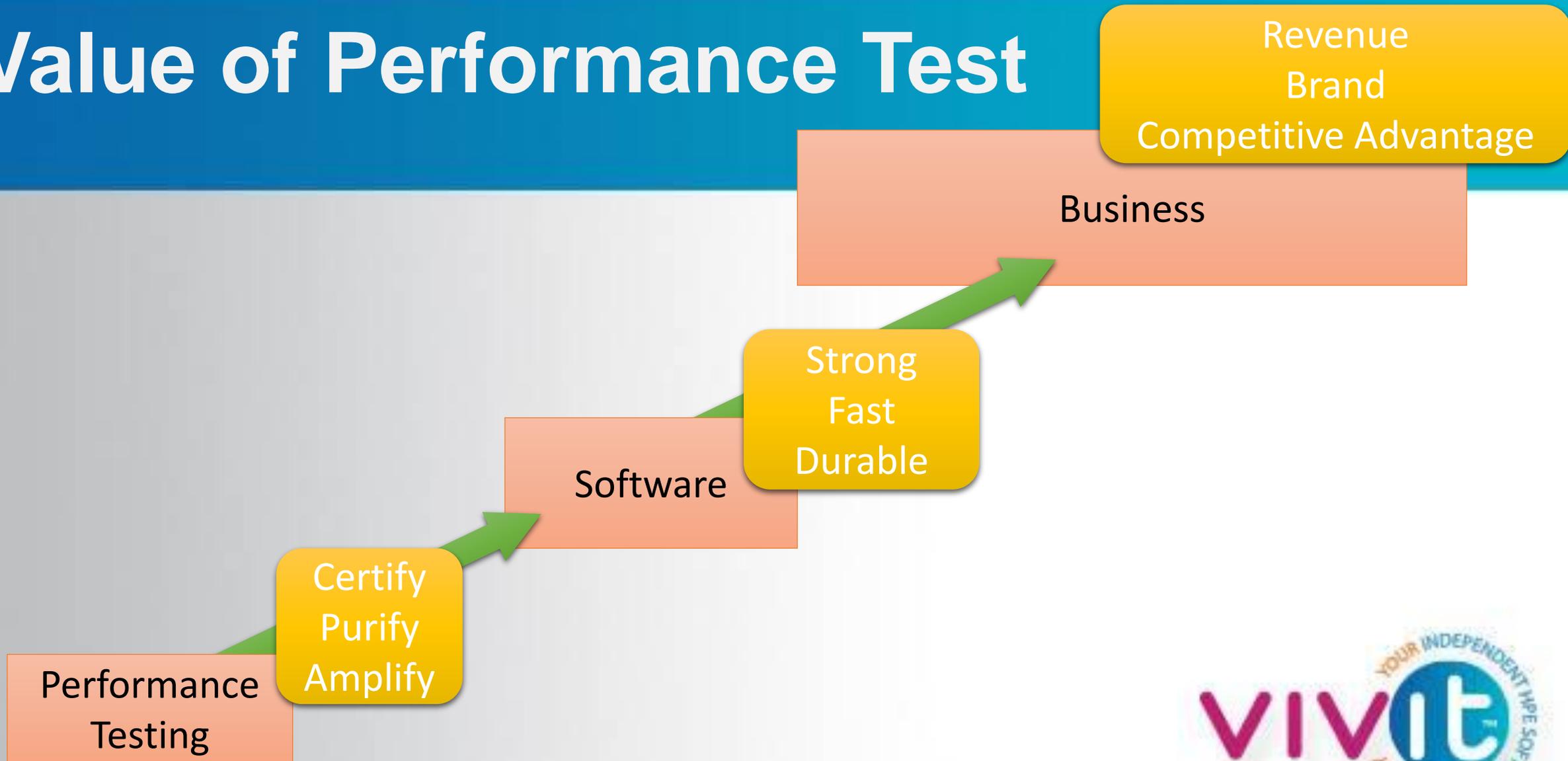


Perf Test Contributions

Purpose	Metaphor	Contribution
Certify	Crash Test Services <ul style="list-style-type: none">Types of crashesExceed/Pass/Fail the Standard	<ul style="list-style-type: none">❖ Go / No-Go?❖ Good candidate?
Purify	Golf Professional <ul style="list-style-type: none">Analyze swingFind/Fix problems	<ul style="list-style-type: none">❖ Pursue performance bugs❖ Prove bug resolution
Amplify	Boxing Trainer/Gym <ul style="list-style-type: none">Rigorous traininghave “what it takes”	<ul style="list-style-type: none">❖ ‘Bigger Bang for the Buck’❖ Right Size Infrastructure



Value of Performance Test



Polling Question #3

What is the focus of your PE organization? [select one]

1. Certify (Go/No Go; Candidate Trials)
2. Certify & Purify (Collaborative pursuit of bugs)
3. Certify, Purify, & Amplify (Proper System sizing; Capacity Planning)
4. None, what is a PE organization?



Grass Roots Example

- Assisted with a proof-of-concept for a customer who had been working on a challenge for a couple of weeks
- Winsock recording of Delphi application.
- Correlated the hexadecimal data and had it working an a few hours
- You're hired!



Grass Roots Example

One day on a Tuesday, the boss calls:

“We have a hot project which is about to roll out to a national audience. . . Someone woke up and realized they should do some performance testing before they go live.”

Me: *“When do they turn up the application?”*



Grass Roots Example

“FRIDAY!”



Me - “No problem”



Grass Roots Example

Cool things happened:

- Got to test across the WAN which had previously been denied.
- Got to meet a great set of people I did not know existed.
- Showed off LoadRunner's ability to pivot on a dime and get the job done right now.



Grass Roots Example

- System Admins watched their respective sub-systems and were able to see real time bottlenecks.
- Servers were added and configurations tweaked.
- Highly visible enterprise customer facing application was delivered on time.
- The value of Performance Engineering was noticed across the organization.
- Application project teams were knocking on our door for performance testing.



Grass Roots Example - TODAY

- All application builds must come to us for evaluation. There are currently 250+ applications.
- We perform a formal risk evaluation of their project and requirements in order to help identify high risk areas and determine if we will independently test for performance.
- We performance test 4x as many applications.
- All of this grew from a small Winsock seed. . . .



Polling Question #4

Do you feel your organization needs a similar grass roots effort in order to get organizational buy-in? [select all that apply]

1. Yes
2. No
3. Not to that degree, but organizational visibility is lacking.



HTTP/2

What is it?

Why is it a change for Performance Engineering?

How do you incorporate it into your testing?

Use Case/Examples



Network Virtualization

What is it?

Where does this fit in Performance Engineering?

How do you incorporate it into your testing?

Use Case/Examples



Internet of things

What is it?

What is the big deal IoT to Performance Engineering?

How do you incorporate it into your testing?

Use Case/Examples



Converged Infrastructure

What is it?

Convergence is good right?

What are the important aspects of this technology to consider?

Use Case/Examples



Artificial Intelligence/Machine learning

What does Performance Engineering have to do with AI/ML anyway?

Why does it matter to the business?

How can you even test this?

Use Case/Examples



Polling Question #5

Which is most critical to your PE organization? [select one]

1. HTTP/2
2. Network Virtualization
3. Internet of Things
4. Converged Infrastructure
5. Artificial Intelligence/Machine learning



More Information

HPE Software Performance Engineering

<http://www.HPE.com/Software/PE>

TechBeacon Performance

<http://techbeacon.com/performance>

Blogs: LoadRunner and Performance Center

<http://bit.ly/HPE-LRPCBlog>

Vivit Worldwide: PE SIG

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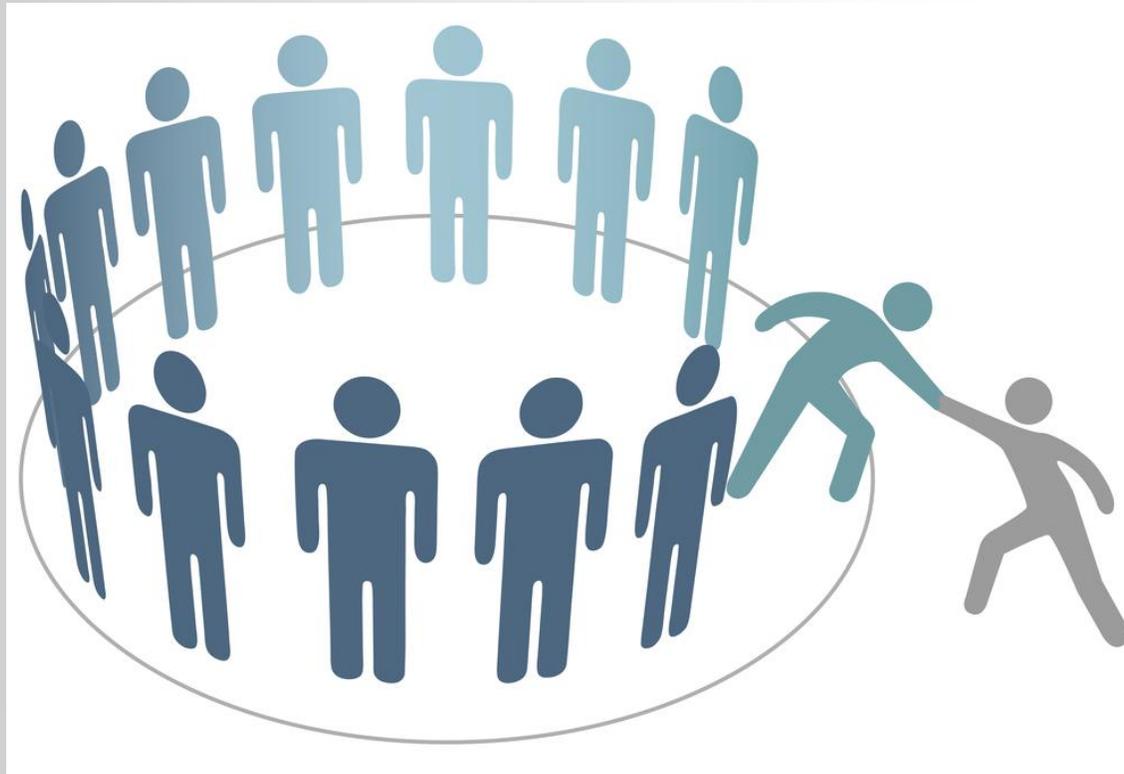
PE Core Capabilities

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Get Involved! [Call for Speakers]

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HPE Discover Europe - 2016

Save the Date!

November 29th – December 1st

London

Look for registration information/discounts from Vivit in the upcoming months.



Questions & Thank you

**Vivit Worldwide
Performance Engineering
Special Interest Group**

<http://bit.ly/VIVITPE>

