

















### Success, Failure, Disaster: Cisco Measures Top Tasks

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Digital Technical Support Customer Experience

Service Industry Summit: October 28, 2015

### What is customer experience?

Why is customer experience important?

How do you manage digital customer experience?

## What is customer experience?

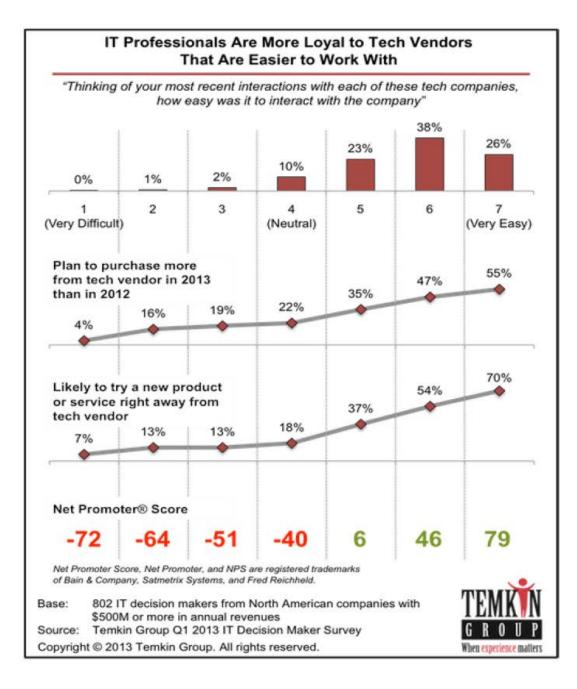
Customers' thoughts, emotions, and perceptions about their interactions with a company.

-Forrester

## Why is customer experience important?

A: What's good for the customer is good for the business.

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### Easy to do business with = Customer Loyalty

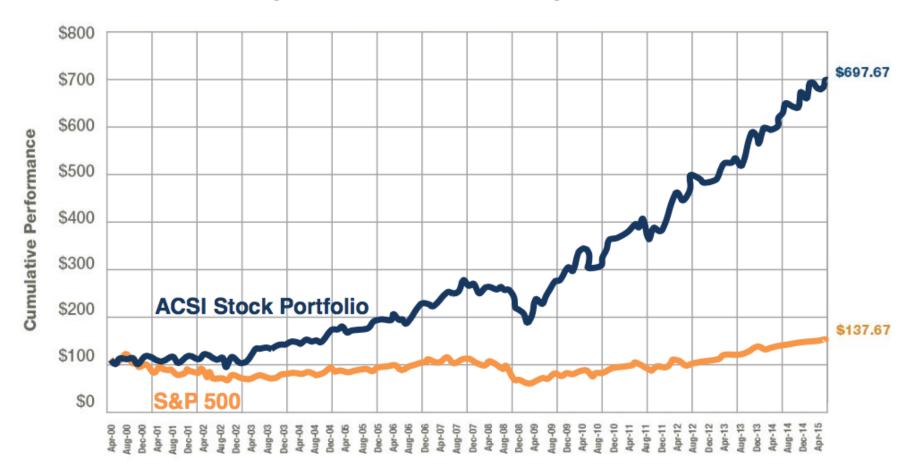
### **Customer Loyalty**

= Customers are more likelyto buy more and stay longer= Good for Business

Temkin Group 2013
IT Decision Maker Survey

### ASCI: Satisfaction, Expectancy, Performance

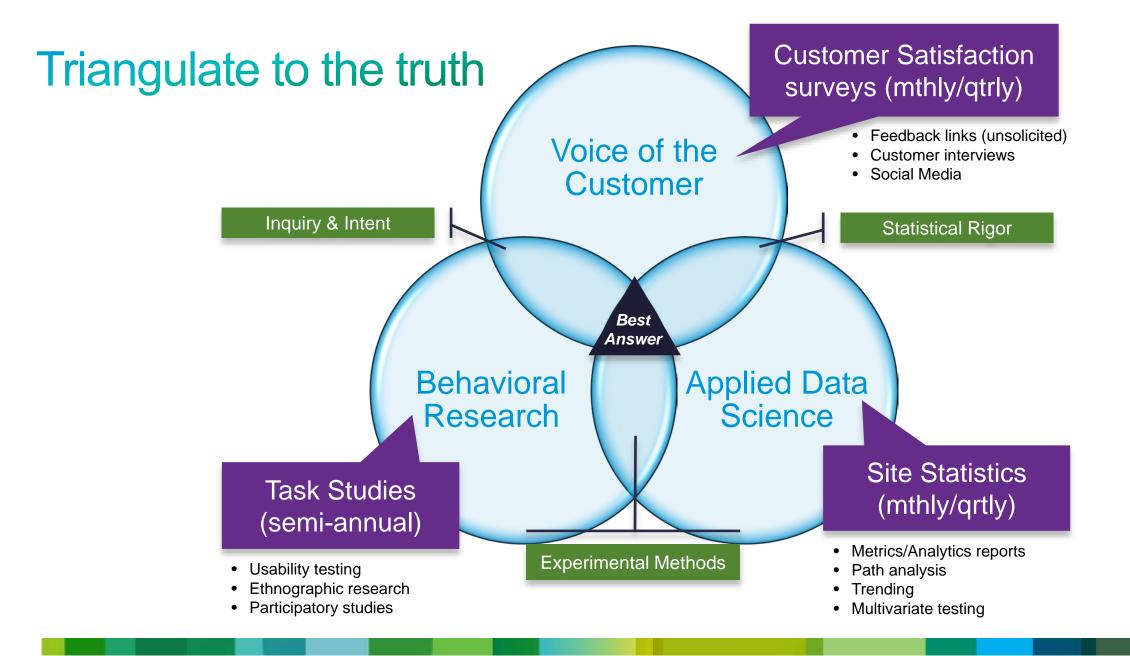
#### **Customer Experience Leaders Outperform the Market**



@kerrybodine Source: American Customer Satisfaction Index

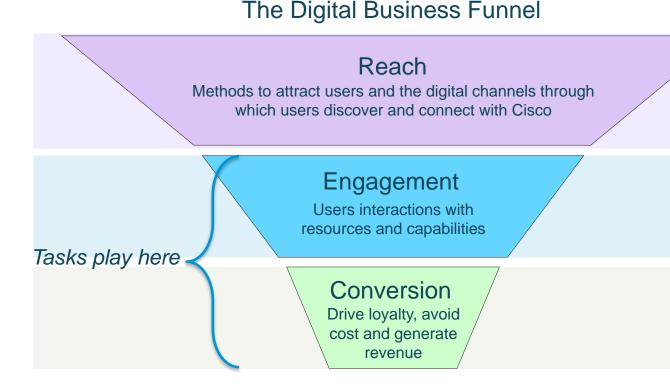
## How do you manage the customer experience?

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### Top Task Testing: Terminology

- Top Tasks
   The reason people come to the site
- Task Performance Indicator (TPI)
   A score for task effort
- Task study / TPI test
   Based on principles of usability testing



### Why test tasks?

- 1. Tasks are about utility. They serve a purpose and draw users to a site.
- 2. Tasks serve the customer. They define customer "expectations."
- 3. Task testing reveals impediments. It's the key to "ease of use."

The TPI score provides a quantitative measure of the site's experience. This can be used as a *benchmark* and allows managers to set *goals*.

## How easy is it for customers to complete top tasks on Cisco.com?



Cisco.com Overall task performance

### TPI Overview: How we test the top tasks

#### Identify the Top Tasks for the Site

Conduct a Top Tasks Survey with representative users Analyze survey results to identify Top Tasks Create Test Tasks

#### Determine the performance of the top tasks

Recruit subjects for test

Conduct TPI test

Analyze results and tally the TPI score

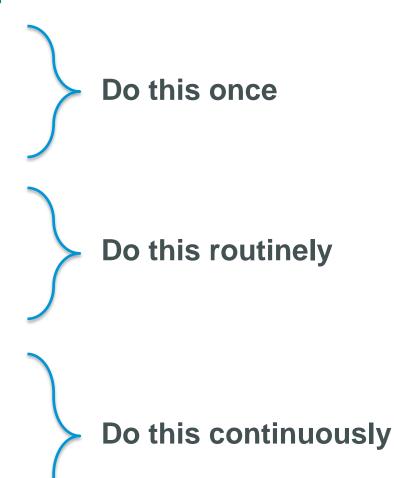
#### Drive action and improvements

Deep dives with teams responsible for parts of tasks

Make changes/improvements

ITERATE (test again to validate results)

Set goals!



### Identify the Top Tasks for the Site

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### Survey to determine Top Tasks

- Internal teams create list of top tasks
- Determine the audience to be surveyed
- Respondents rank tasks
- Results summarized and Top Tasks emerge

Top Tasks are the most popular, most common and most important tasks, according to the users of the site.

Tasks	Total Vat
Download software, firmware, drivers, patches, updates Configure / set up a product (tech guides, notes, how-	Total Vot
to's)  Troubleshooting (bug fixes, diagnostics, guides)	2267
4 Install / ungrade /	
4 Install / upgrade / migrate (tech guides, notes, examples	1610
Support (TAC) service requests (case creation, tracking) Maintain / operate (tech guides, notes, examples) Network design (tech guides, notes)	1514
Network design (tech guides, notes, examples)  Service, support options examples	1316
8 Service, support options available for my product Product and technical communities (to the product)	1316
Product and technical communities (troubleshooting, developer, learning)	1043
Support alerts (new drivers, patches, software, security)  Networking certification requirements (COUTS)	813
TICCNA)	797
Talk / chat online with a support person	767
version) version)	632
Training (courses ask i	628
bandwidth dimensions)	561
Pre-purchase technical information (datasheets.	460
Solutions to match but	447
y, reduce my business)	436
Networking certification status, maintenance and renewal	420
Configure a product or service for the purpose of esearching or ordering	416
or ordering	392

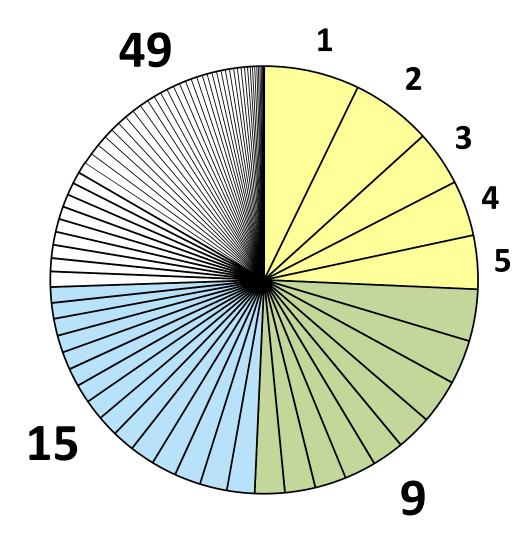
### Tasks Voting Trends

		491	983	1474	1966
	Tasks	Voters	Voters	Voters	Voters
1	Download software, firmware, drivers, patches, updates	8%	8%	9%	9%
	Configure / set up a product (tech guides, notes, how-				
2	to's)	9%	8%	8%	8%
3	Troubleshooting (bug fixes, diagnostics, guides)	7%	8%	8%	7%
4	Install / upgrade / migrate (tech guides, notes, examples)	6%	6%	6%	5%
5	Support (TAC) service requests (case creation, tracking)	6%	5%	5%	5%
6	Maintain / operate (tech guides, notes, examples)	4%	4%	4%	4%
7	Network design (tech guides, notes, examples)	5%	4%	5%	4%
8	Service, support options available for my product	3%	4%	3%	4%
	Product and technical communities (troubleshooting,				
9	developer, learning)	3%	3%	3%	3%
10	Support alerts (new drivers, patches, software, security)	2%	3%	3%	3%
	Networking certification requirements (CCIE, CCNP,				
11	CCNA)	2%	2%	2%	3%
12	Talk / chat online with a support person	3%	2%	2%	2%
	Compatibility / interoperability (software, hardware,				
40	varaian)	20/	20/	20/	20/

Top 25%

26-50%

51-75%

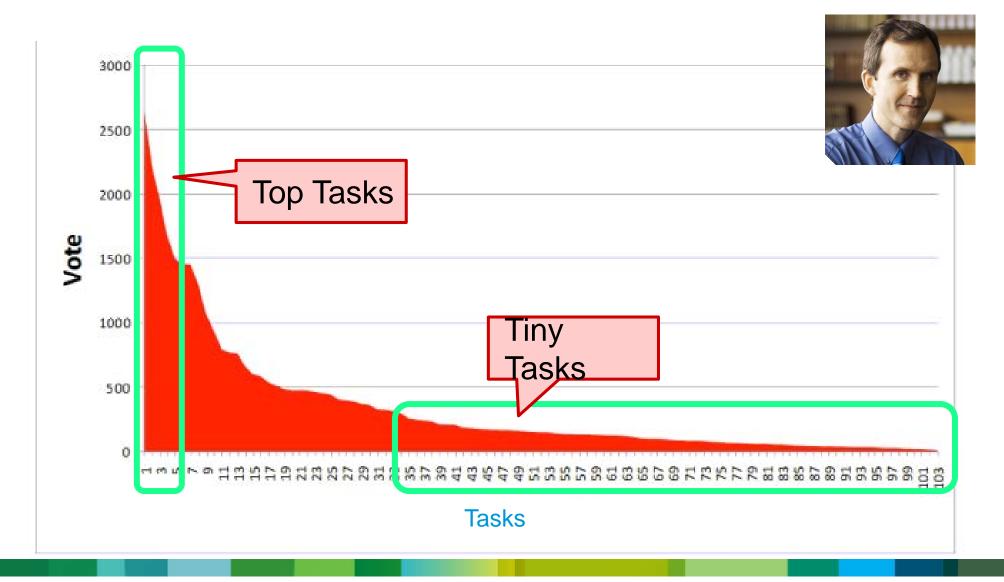


#### Cisco.com Results – 2014

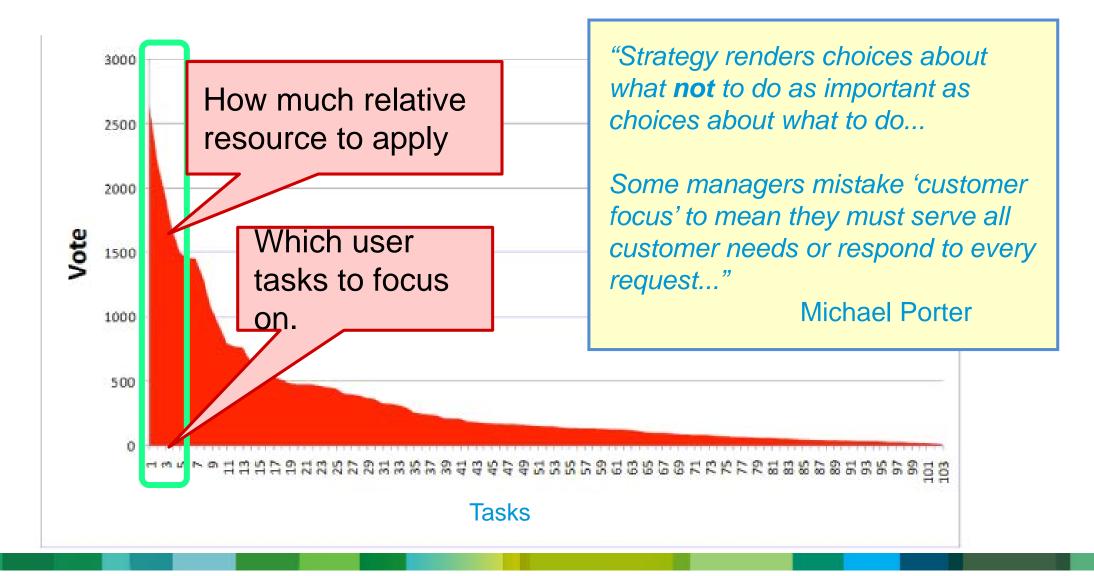
- 1. Download software, firmware, drivers, patches, updates
- 2. Configuration, set up, deployment
- 3. Pricing
- 4. Specifications / data sheets
- 5. Contact support / support requests (open, check status, escalate)

The Top task has as many votes as the bottom 26 tasks

### The 'long neck': Users' priorities



### The 'long neck': Management focus



### **Create Concrete Tasks**

- Teams with SMEs collaborate to create specific or concrete tasks based on top tasks.
- Real world: Task details are in the words of a customer and seems typical
- Tested we know it can be completed and we know the answer
- These are \*not\* trick questions, rather they are essential.

Obtain the latest firmware for your WRVS4400N Router – VPN v2.0.

Obtain version 3.1.06079 of the AnyConnect Secure Mobility Client software (web deployment package for Windows users) for distribution from your ASA device.

Find documentation describing how to adjust the amount of time a client can sleep and wake up without having to re-authenticate on a 2504 Wireless LAN Controller running version 7.5 software.

During installation, you are unable to get your Cisco Catalyst 2960-8TC-S Switch to connect to your network. Report the problem online. Serial Number: FOC1638V497

**Examples of Concrete Tasks** 

OR COMMONMENT

### Determine performance of the site



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### Tasks and task studies

A TPI study asks 15-18 subjects to perform 10-12 tasks.

TPI testing is performed remotely, on the live site.

TPI tasks are designed to represent the most important, typical tasks.

Sample task: Find Bug Information

"Your 7600 router crashed after entering the "show mpls forwarding with owner ..." command. Determine if there are any workarounds for this known issue."

### Sample Methodology

• 13 top tasks were given to 19 participants

Size of business: 11 Enterprise, 8 SMB

Frequency of being on website: 10 daily, 6 weekly, and 3 monthly

Relationship to Cisco: 9 Partners, 10 customers

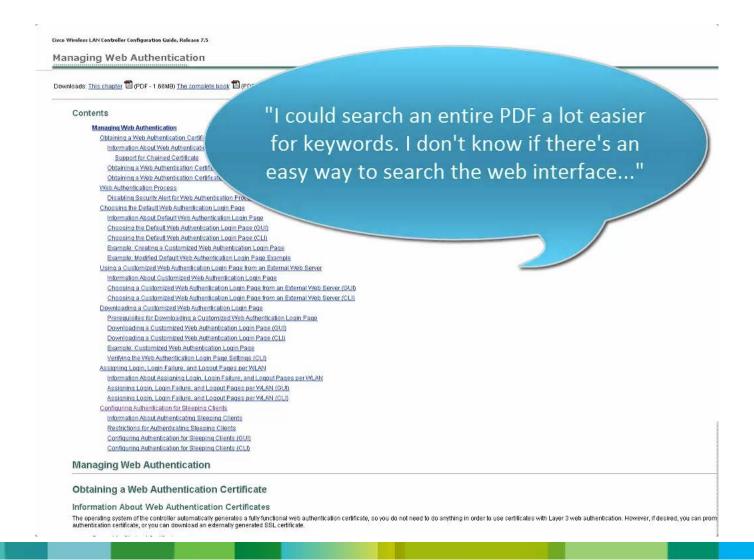
Test sessions lasted 50-60 minutes

Testing conducted remotely via Webex (recorded)

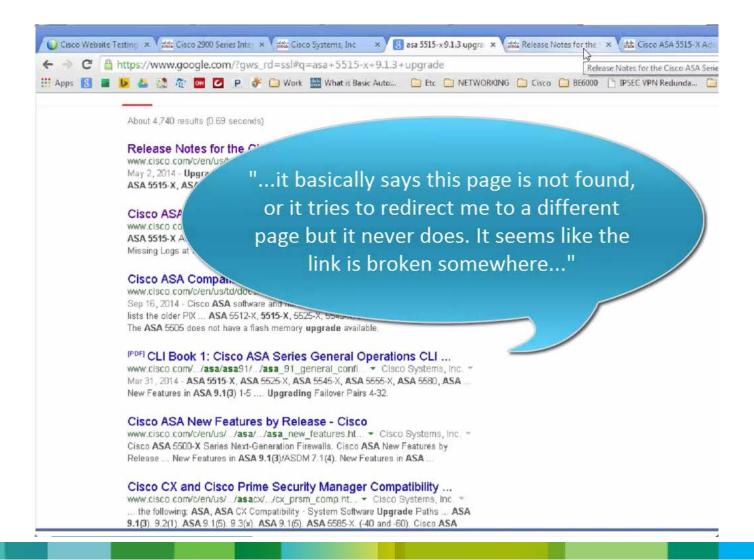
Discussion was minimized during a task to get a reasonable estimate of the time to complete each task

Scored SUCCESS, FAILURE, or DISASTER (when people thought they had completed the task successfully but were seriously wrong)

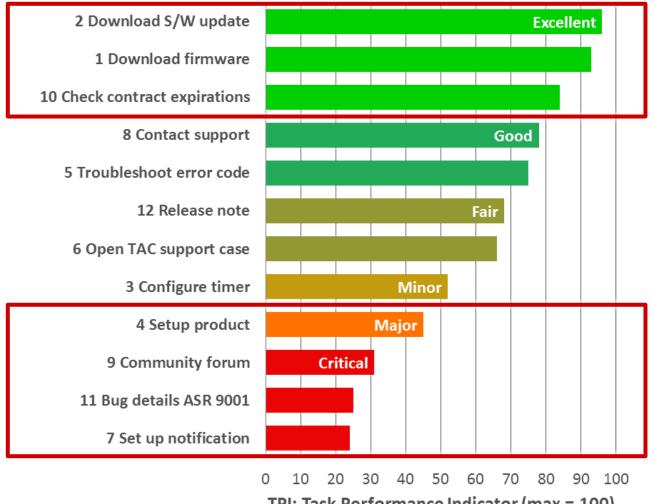
### What a TPI test looks like



### What a TPI test looks like



### Task Performance Indicator (TPI) by Task



TPI = 61 Fair

TPI: Task Performance Indicator (max = 100)

### **Drive Action and Improvements**

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### **Turning Results to Action**

TPI was first performed at Cisco in 2010 with a "top tasks" survey.

**ABLE TO EXCEL [95-100] HEALTHY (85-94) MONITORING (75-84)** MEDICATED [65-74] **HOSPITALIZED** [55-64] ICU [45-54] LIFE SUPPORT [35-44]

The TPI score is easy to understand

TPI = 61



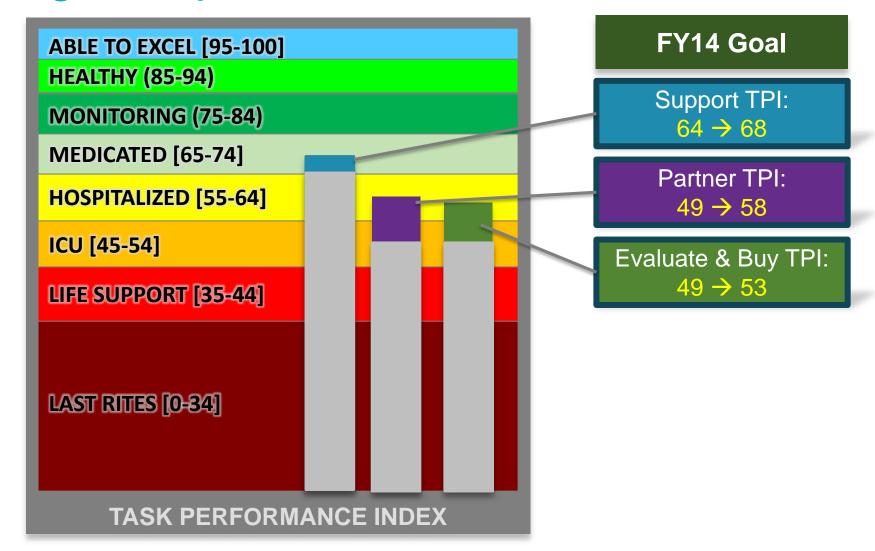
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TASK PERFORMANCE

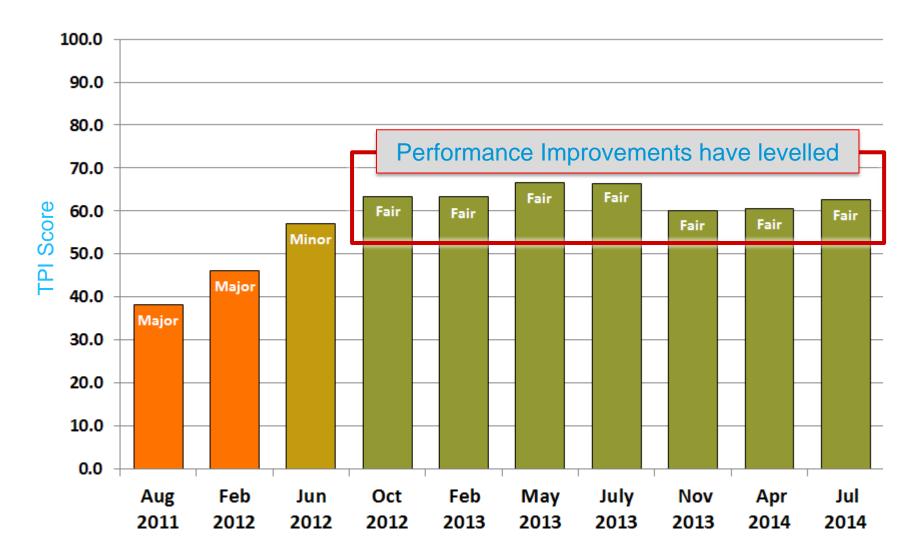
LAST RITES [0-34]

INDEX

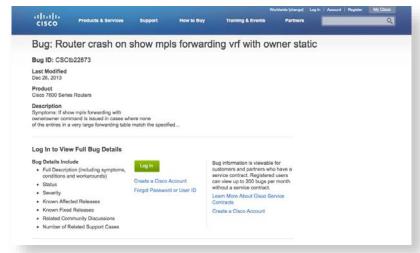
### Digital Experience Measures & Goals: TPI and EoDB



#### TPI Scores Over Time – For 9 Consistent Tasks

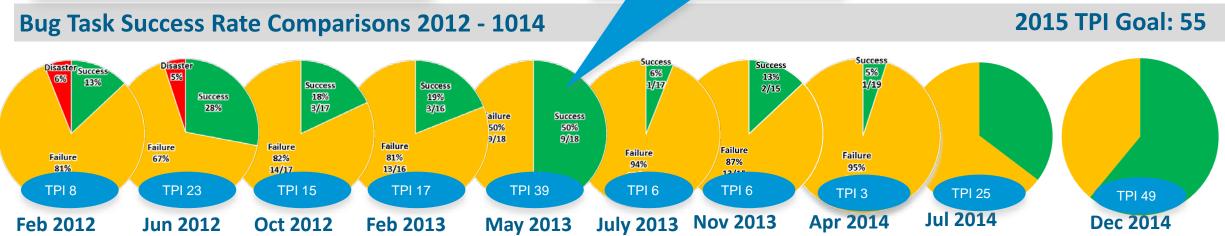


### **Turning Results into Action**



We monitor Top Task performance on an ongoing basis

Ran a pilot test to simulate a possible solution. It worked!



### **Turning Results into Action**

Success

28%

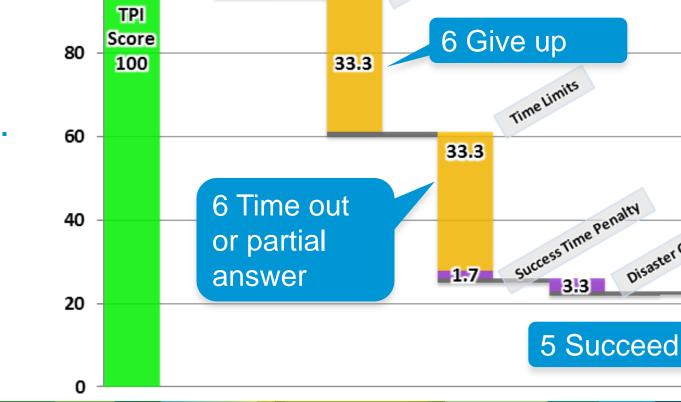
Top Tasks
Management
diagnoses what is
wrong and clearly
indicates how to fix it.

Failure

67%

**TPI 23** 

**Jun 2012** 



saster Confidence Penalty

Critical

TPI=23

JUNE 2012 Bug Task - 18 Subjects

5.6

Disaster

Max

100

### Method to Remediation

13/18 failed or disaster 5/18 successful

All 13 failures were due to the user's attempt to search:

- → Cisco.com site search (8 failures)
- → Google (5 failures)

If we fix SITE SEARCH, 13/18 (5 successful + 8 more) should succeed

### Method to Remediation

If we fix SITE SEARCH, 13/18 (5+8) should succeed

If 13 succeed we predict: Task Performance Score increases to 70

#### Assumptions:

Increase success rate to 13/18 participants

Limiting the additional incremental penalties (e.g. excessive success time and disaster confidence) to be ~2-3

### Task Performance Score Correlates with Action

Top Tasks scoring is predictable and statistically reliable.

**Able to Excel (95-100)** 

Healthy (85-94)

Monitoring (75-84)

Medicated (65-74)

Hospitalized (55-64)

ICU (45-54)

Life Support (35-44)

Last Rites (0-34)

FY15
Task Performance
Target =



**Original Score = 23** 

Thank you.

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