## Eliminating Preventable Work to Free Up Your Time

CIPMM Regional Workshop - Montreal Craig Szelestowski craig@leanagility.com 01-10-2024



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## Overview

- 1. Three reasons why we are we so busy
  - Broken process
  - Personal time management decisions
  - Failure Demand
- 2. What is Failure Demand / Preventable Work
  - What causes it?
  - What can we do about it?
- 3. Wrap-up your next steps



## Overview

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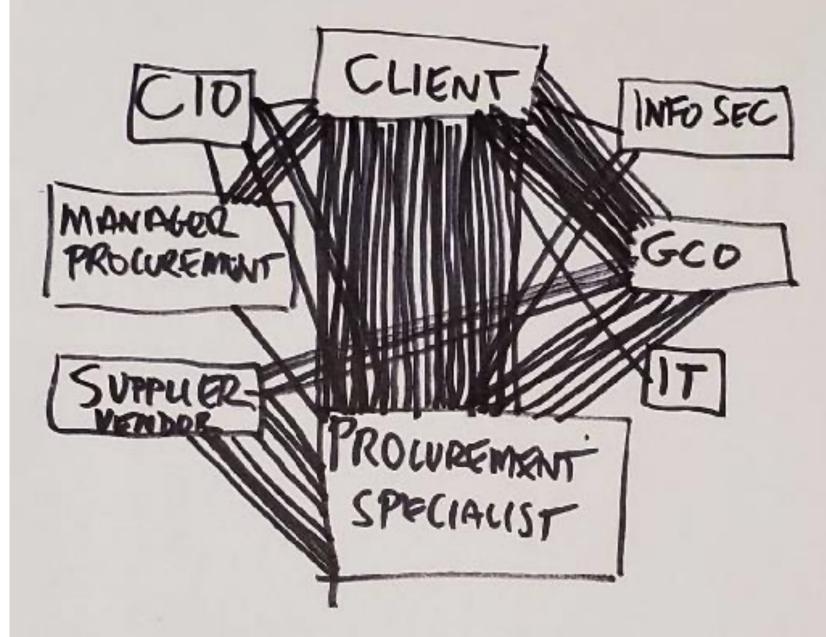
#### The Problem

#### Procuring Cloud Software > \$ 100k value

- Approximately 100 steps/handoffs
- 3-5 months of elapsed time
- Unhappy clients, procurement staff
- Procurement staff overloaded
- Slow process affecting delivery of core business

### NOW:

- 3 weeks elapsed time from start to finish, by default
- No heroics
- Procurement staff happier, less-stressed
- Clients delighted



## How Backlogs Develop

Causes

#### VARIATION

- 1. Variation in:
  - volume of work
  - # of resources available
  - skill profile
  - complexity of work
  - effectiveness of tools
  - other?



#### UNREASONABLENESS

2. Overwhelmed team, thus reduced productivity





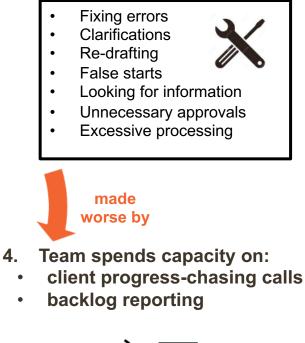
5. Fewer files finished, a growing backlog



allowing

#### WASTE

3. Team spends its reduced capacity on non-value added, preventable, work







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# **Personal Time Management Topics**

- 1. Boundaries
- 2. Switch-tasking vs focus
- 3. Interruptions
- 4. Meetings
- 5. Unclear Jobs to Be Done
- 6. Unclear requests & commitments
- 7. Sequential reviews/approvals
- 8. Waterfall style instead of focus
- 9. Working by email instead of F2F

10. Procrastination

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## Two Types of Demand



### Value Demand

- Contacts that we WANT Eg:
- Initiate a transaction

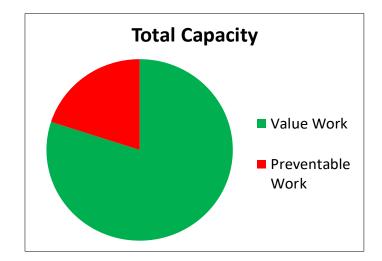


### Failure Demand

- Contacts we DON'T WANT
- Arising from a failure to do something or do something right

Eg:

- I don't understand can you explain?
- You got this wrong
- You missed something
- How do I do this?
- Who do I call?
- Progress chasing where is my stuff?





"Failure Demand" drains capacity but does not add value

Туре	Example	Waste
1. Something not done	Document, information missing – go find it	Defect
2. Something not done right	Wrong information, misplaced info – redo it	Defect
3. Something is not clear	Unclear instructions, requirements – go get clarification	Defect
4. Something takes too long	Chasing progress, answering	Waiting & Excessive processing

Procurement examples from your world?



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## The "North Star" Design Question

for forms, templates, web pages, instructions, etc.

Do:

- first-time users,
- busy, distracted, users, or
- your worst-performing users ...

... get it right, on the first attempt, unassisted, 19 times out of 20?

This is the theme of the February 7 follow-up session.



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#### Government Gouvernement of Canada du Canada

INSTRUCTIONS FOR PERSONNEL SCREENING CONSENT AND AUTHORIZATION FORM TBS/SCT 330-23E (Rev. 2002/02) Once completed, this form shall be safeguarded and handled at the level of Protected A.

General: If space allotted in any portion is insufficient please use separate sheet using same format.

1. Section A (Administrative Information) Authorized Departmental/Agency/Organizational Official

The Official, based on instructions issued by the Departmental Security Officer, may be responsible for determining, based on five year background history, what constitutes sufficient verification of personal data, educational and professional qualifications, and employment history. References are to be limited to those provided on the application for employment or equivalent forms.

#### SUPPLEMENTAL INFORMATION REQUIREMENTS

Persons who presently hold a SECURITY CLEARANCE and subsequently marry, remarry or commence a common-law partnership, in addition to having to update sections of the Security Clearance Form (TBS/SCT 330-60), are required to submit an original Personnel Screening, Consent and Authorization Form, with the following parts commelted:

Part A - As set forth in each question

Part B - As set forth in each question, excluding CRIMINAL CONVICTIONS IN AND OUTSIDE OF CANADA. Part C - Applicant's signature and date only are required

"Other". This should be used to identify if the security screening is for Site Access, NATO, SIGINT etc.

2. Section B (Biographical Information)

To be completed by the applicant. If more space is required use a separate sheet of paper. Each sheet must be signed.

Country of Birth - For "NEW" requests, if born abroad of Canadian parents, please provide a copy of your Certificate of Registration of Birth Abroad. If you arrived in Canada less than five years ago, provide a copy of the Immigration Visa, Record of Landing document or a copy of passport.

 List only criminal convictions for which a pardon has NOT been granted. Include on a separate attached sheet of paper, if more than one conviction. Applicant must include those convictions outside Canada.
 Offences under the National Defence Act are to be included as well as convictions by courts-martial are to be recorded.

3. Section C (Consent and Verification)

A copy of Section "C" may be released to institutions to provide acknowledgement of consent.

Criminal record checks (fingerprints may be required) and credit checks are to be arranged through the Departmental Security Office or the delegated Officer

Consent: may be given only by an applicant who has reached the age of majority, otherwise, the signature of a parent or guardian is mandatory.

The age of majority is: 19 years in NFLD., N.S., N.B., B.C., Yukon, Northwest Territories and Nunavut; 18 years in P.E.I., Que., Ont., Man., Sask. and Alta.

The applicant will provide initials in the " applicant's initials box".

The official who carried out the verification of the information will print their name, insert their initials and telephone number in the required space. - Reliability Scenning (for all types of screening identified within Section A): complete numbers 1 and 2 and 3 if applicable. - Security Clearance (for all types of screening identified within Section A): complete numbers 1 to 4 and 5 where applicable. - Other : number 5 is used only where prior Treasury Board of Canada Scentraria tapproval has been obtained.

4. Section D (Review)

To be completed by authorized Departmental/Agency/Organizational Official who is responsible for ensuring the completion of sections A to C as requested.

#### 5. Section E (Approval)

Authorized Departmental/agency/Organizational Security Official refers to the individuals as determined by departments, agencies, and organizations that may verify reliability information and/or approve ineliability status and/or security clearances. Approved Reliability Status and Level I. Il and III, as well as the signature of the authorized security difficial remanager are added for Government of Canada use only. Applicants are to be briefed, acknowledge, and be provided with a copy of the "Security Screening Certificate and Briefing Form (TBS/SCT 330.47)". Note: Private sector organizations do not have the authority to approve any level of security screening.

Photographs: Departments/Agencies/Organizations are responsible for ensuring that three solowy photographs of gassport size are attached to the form for the investigating agency. Maximum dimensions are S0mm and minimum are 43mm. S4mm. The face length from chin to crown of head must be between 25mm x 35mm. The photographs must be signed by the applicant and an authorized security Oficial. The photographs must have been taken within the last is months. It is required for new or upgrade Level III security clearances for identification of the applicant during the security screening investigation by the investigating agency. The investigating agency may in specific incidents request a photograph for a Level I or II clearances when an investigation is required.

TBS/SCT 330-23E (Rev. 2006/02)

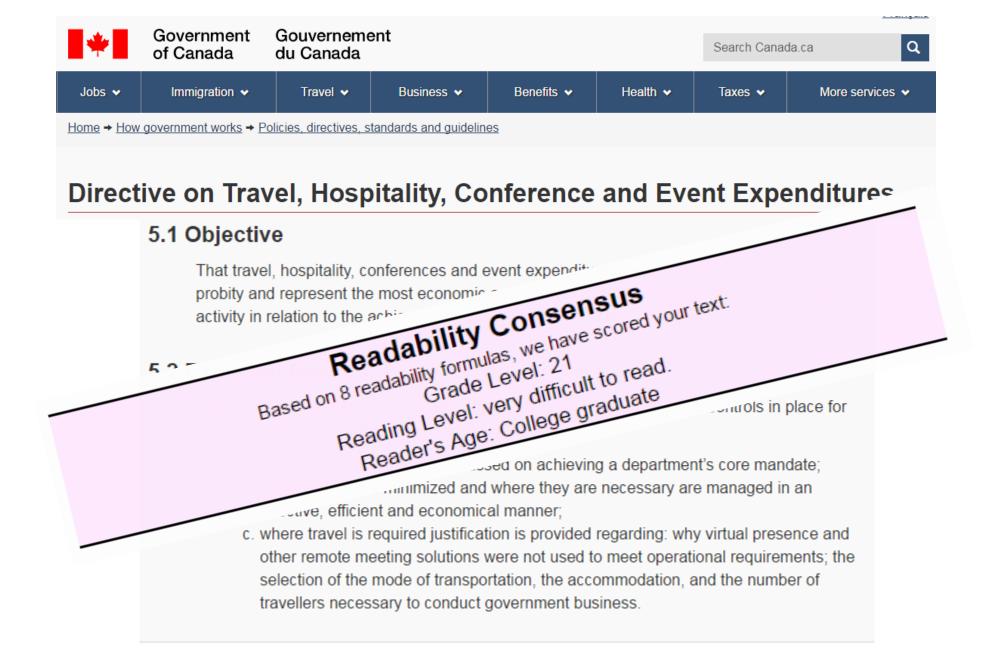
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**Causes of Failure Demand** 

## **COMPLICATED LANGUAGE**







**Causes of Failure Demand** 

## THE CURSE OF KNOWLEDGE



### The Curse of Knowledge: Put yourself in <u>their</u> shoes









**Causes of Failure Demand** 

## LAYOUT



## How Web Readers Read

Most online readers scan first.

Eye-tracking studies show that most people read web content in and F-Pattern starting at the top-left of a web page before moving further down through its content.



http://www.dal.ca/webteam/web\_style\_guide/writing\_for\_the\_web/best\_practices.html



#### Mute your earbuds before crossing the street

The research found that distractions such as texting and talking on the phone impaired participants' ability to cross the street safely, but listening to music posed the greatest risk. As a result Dr. Shwebel recommends encouraging kids to mute their earbuds while crossing the street. Kids should also avoid talking on the phone or texting and instead to pay full attention to the road and other surroundings.

http://www.dal.ca/webteam/web\_style\_guide/writing\_for\_the\_web/best\_practices.html



### **Mute Your Earbuds Before Crossing The Street**

#### What Kids Should Do

- mute their earbuds while crossing the street
- avoid talking on the phone or texting
- pay full attention to the road and other surroundings

### The Evidence

Distractions that impair children's ability to cross the street safely included:

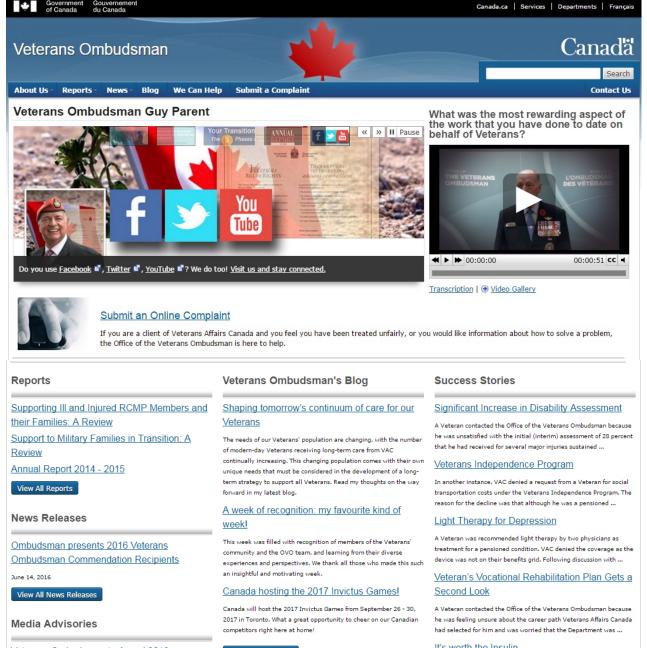
- listening to music
- texting
- talking on the phone



Causes of Failure Demand

## **CAN'T FIND IT**





Veterans Ombudsman to Award 2016 Commendation Recipients

June 13, 2016

View All Media Advisories

#### View All Blog Posts

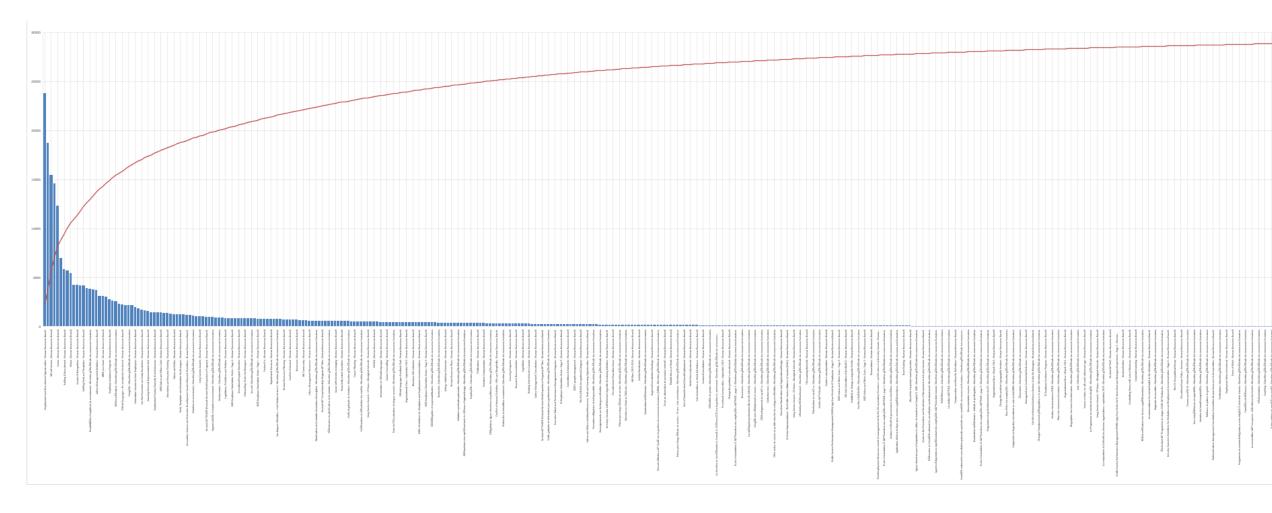
#### It's worth the Insulin

An 87 year old Veteran contacted the OVO indicating that he requires a specific type of insulin that is not covered through the VAC drug plan. The client submitted a Doctor's note ...

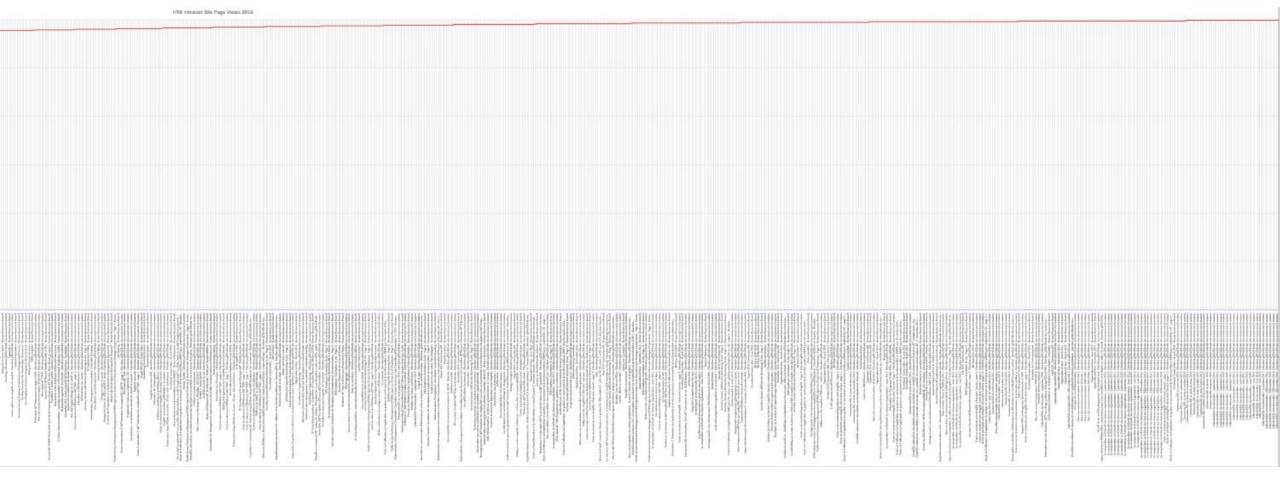




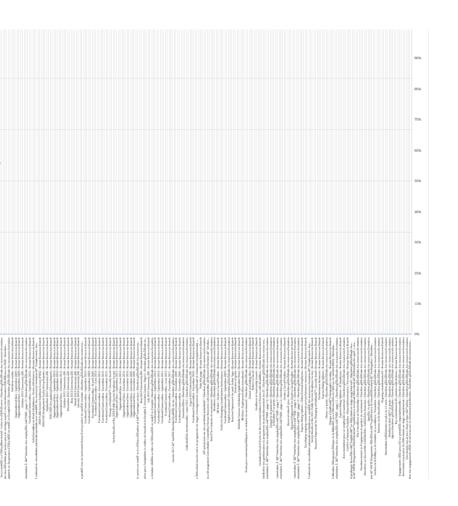
#### Intranet Page Views in Past 12 Months











In past 12 months:

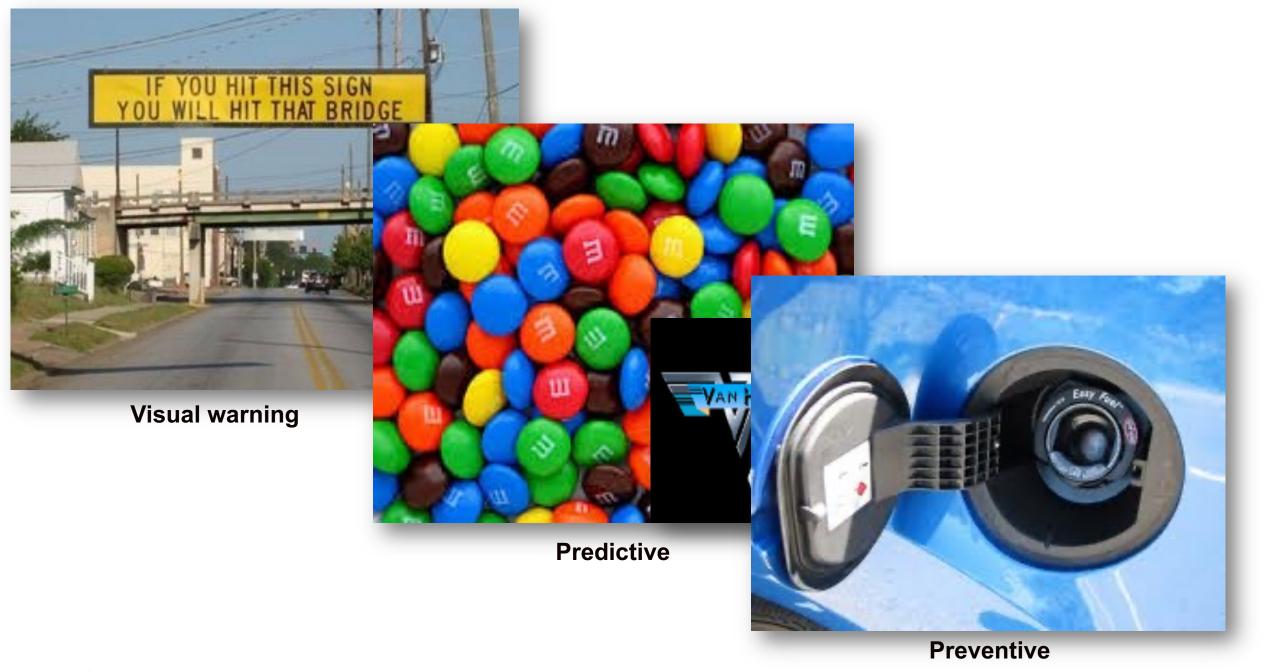
- 1110 pages on Intranet site
- Top 3 pages account for 28% of views
- Top 5 pages account for 32% of views
- Top 18 pages account for 75% of views
- How many pages have almost no views?



**Causes of Failure Demand** 

## **NOT ERROR-PROOFED**







## Overview

- 1. Three reasons why we are we so busy
  - Broken process
  - Personal time management decisions
  - Failure Demand
- 2. What is Failure Demand / Preventable Work
  - What causes it?
  - What can we do about it?
- 3. Wrap-up your next steps



# Steps to Eliminate Failure Demand

- 1. Measure it
- 2. Drill into it with real-life users and data
- 3. Protype
- 4. Test with real-life users



# Measure It

### **Unclear/Incorrect Client Application Forms**

### **DESCRIPTION:** 75% XYZ of application forms received with:

- Action requested unclear
- Incorrect financial info

### **IMPACT:**

- Analyst has to contact applicant, sometimes multiple times, to ask for corrections and changes; then review re-submitted form. ANALYST: extra 45 mins effort each time
- Slows down process by 5-10 business days



Process Step: What Happens they submit form Unclear " Action re	'Action Requested" quested and details do not mate Officers going back to clients at I	plication Form blication forms	, 75% of the time	<ul> <li>Application form asks overly broad questions that do not guide client to provide specific, detailed answers (e.g. justification)</li> <li>No fields in form for certain required information</li> <li>Written in procurement language, not language of client</li> <li>Client does not know what a successfully-completed form looks like</li> <li>Form not understandable "at a glance"</li> </ul>			
	ge of files does it happen to?	75% of appl	ication forms	Solutions:			
Number of files		Avg .100		Update application form to eliminate root causes of unclear and incorrect			
Number of affe	cted files per month:	75 Intake fo	rms per month	<ul> <li>responses</li> <li>1. Create prototype with clearer, detailed question and example of</li> </ul>			
Who is affected and what is impact when this happens <u>once</u> ?				correctly-filled out form			
Officer Client	Note problems and advise client via email, explain issue and how to resolve		30 mins. effort 30 mins. effort	<ol> <li>Test prototype on 5 "occasional" clients, obtain their feedback at time of use</li> <li>Adjust prototype</li> <li>Launch new form</li> </ol>			
Officer	information and form		15 mine offert	Quick Wins:			
	Officer  • Review re-submitted form 15 mins. effort		15 mins. effort	Include example of properly filled-out form to client in rework email to clier			
Total Preventa	ble Effort (by month)			Prediction:			
Intake Officer			per month month	If we modify the form THEN we would expect that the percentage of unclear/incorrect forms would drop from 75% to 25%, saving 6 days of Offic			
Client	30 min X 75 files = 2,250 min	37.5 hours per month		effort per month.			
Elapsed Time Impact: Adds 5-10 business days of delay to the typical request			the typical	What have we learned from this experiment? • •			



## **Collect Data**

What is Reviewed	Procurement Specialists	GCO	Manager Procurement	IT Financial Procurement Specialist	
Internal Request				-	
Non-Competitive procurements - cost is beyond threshold				100%	
Duration/term missing or unclear				80%	
Insufficient business rationale (general)				75%	
Draft RFP					
Term, scope, evaluation, pricing, mis-alignment between rated/scope/appendix A	1 - 80% 2 - 60% 3 - 30%				
Wrong procurement vehicle	30-40%				
An element of the Scope of Work/description of product unclear, lacks detail		70-90%			
Evauation criteria and weighting do not fully reflect 1.) business requirements; 2.) pricing response, 3.) term sheet/service agreement response		60-80%			
Wrong version, not current RFP template		15-30%			
Response Template questions don't reflect scope of work		30-50%			
Changing business terms eg. Price		40-60%			
Proposals					
Completion, missing element in Bravo	10-20%				
Evaluation Template					
Missing comments / rationale	25%				
Evaluation					
Variance or discrepancy in results	<b>10-20%</b>				
CIF/Mem o					
Missing info: -No GCO contact -Wrong exemption -Addition errors Missing history - spend	50%				
No access to project files needed to prepare CIF				70-90%	
Inconsistencies between contract, CIF and memo			10%		
Memo-basic info missing what, why, how much, budget			10%		
Issues with math, dates, budget, procurement method, exemption (Schedule A), type, completeness, signatories			50%		
Contract					
Issues with Appendix A, dates, ceiling, disb/taxes, signatories			5%		
LEGEND					



#### LEGEND

X = reviewed at this step, no feedback on frequency of errors 30% = reviewed at this step and criteria not satisfied 30% of the time.

# Drill into it with real-life users

### **Power Users**

- + Optimize
- + Learn shortcuts
- + Make it work great for Power Users
- Atypical of larger user base?
- May not work for Worst-Performing Users

### **Worst-Performing Users**

- + Often most typical of user base
- + If it works for them, it will work for anyone
- Miss out on insights of Power Users?
- May not allow Power
   Users to perform at peak anymore?



# Hallway Usability Test

- Ask someone with no background in the VWI's topic to read it and provide feedback
- Ask them to speak their current thoughts as they use the VWI

Can a first-time user get this right 19 times out of 20 without any assistance?



- 1. What part(s) were clear?
- 2. What was unclear?
- 3. How would you change it to make it easier to use and more effective?



## **Observation Test**

Observe a target user performing the task with aid of the prototype.

- 1. Did the user perform the task effectively?
- 2. What parts did they use?
- 3. What parts did they skip?
- 4. Where did they get stuck?

Can a first-time user get this right 19 times out of 20 without any assistance?





## **Testing Question Sheet**

What triggers you to complete and submit these forms? How do you know when to submit these forms?	
Where do you find the forms?	
Who/what is impacted by completing and submitting these forms?	
Who do you (who would you) contact if you have questions on how to complete these forms?	
Please fill in the form, section by section and talk us through your thought process Show us which specific part(s) are clear Show us which specific part(s) are unclear How/why?	
How would you change the form to make them easier to use and more effective?	
Other Notes:	

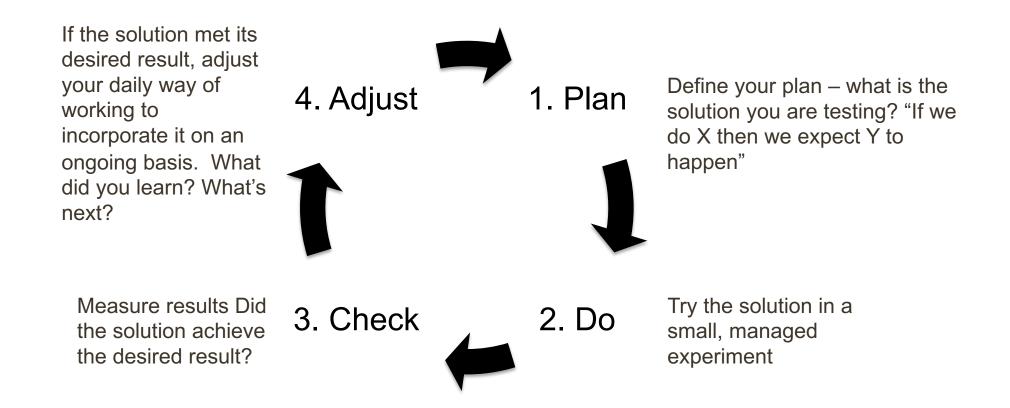


# Prototype It, Then Re-Test

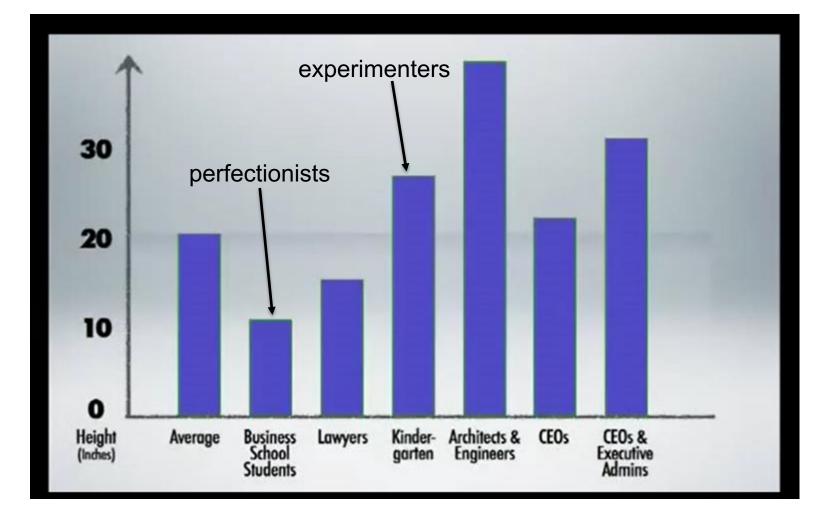
- Create a new prototype based on your initial testing
- Test it with a different set of users



### Test your solution ideas Plan, Do, Check, Adjust







Excellence is not created by perfectionism. It is created through experimentation, learning and iteration.



### Google's Research on High Performing Teams

### **Psychological Safety**

Team members feel safe to take risks and be vulnerable in front of each other.

### Dependability

Team members get things done on time and meet Google's high bar for excellence.

### Structure & Clarity

3

5

C LEAN A

Team members have clear roles, plans, and goals.

### Meaning

Work is personally important to team members.

#### Impact

Team members think their work matters and creates change.

"A group of us in Google's People Operations what we call HR) set out to answer this uestion using data and rigorous analysis: What makes a Google team effective? We shared our research earlier today with the Associated Press, and we're sharing the findings here, as well.

Over two years we conducted 200+ interviews with Googlers (our employees) and looked at more than 250 attributes of 180+ active Google teams. We were pretty confident that we'd find the perfect mix of individual traits and skills necessary for a stellar team -- take one Rhodes Scholar, two extroverts, one engineer who rocks at AngularJS, and a PhD. Voila. Dream team assembled, right?

We were dead wrong. Who is on a team matters less than how the team members interact, structure their work, and view their contributions. So much for that magical algorithm."

https://rework.withgoogle.com/blog/five-keysto-a-successful-google-team/

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# **Psychological Safety Exercise**

Round table, by unit, each participant shares with the others at the table:

- 1. Something in their career that they are proud of
- 2. An embarrassing moment in their career



None of us are perfect, so why pretend? And if we're always trying to look perfect, then we won't likely identify problems and solve them.



## Overview

- 1. Three reasons why we are we so busy
  - Broken process
  - Personal time management decisions
  - Failure Demand
- 2. What is Failure Demand / Preventable Work
  - What causes it?
  - What can we do about it?
- 3. Wrap-up your next steps



# Three Things You Can Do Next

- 1. Identify your worst forms of failure demand; measure their cost
- 2. Identify root causes
- 3. Prototype and test solutions



## Have fun!





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Better, faster, more efficient government and inspired people.