Case Study #4

Exploration

Strategizing and planning

Execution and iterations

Release and assessment

Shaping the probler space

Defining market

Product positioning

Foundational strategic direction

Competitive Intelligence

Feature prioritization and definition

Tactical and evaluative



Measuring impact and benchmarking

Opportunity Discovery

(Continuous strategic research)

IBM Research

IBM Research Challenges Portal

Identifying opportunities for enhancement of an internal tool

Strategic and operational study



Helping the product owner of IBM research internal portfolio management tool (Challenges Portal) define

and prioritize their 2019 roadmap.

Background

Challenges Portal is an internal portfolio management tool for IBM Research intended to become a catalyst for enabling transparency, collaboration and shared assets and a central way to manage IBM research transformation.

As this tool moved beyond MVP and was promoted as a tool all IBM research could use, the product team wanted to take a more evidence-based approach and understand what matters the most to the end users of this tool.

My Role:

I was not embedded with this team; however, I was brought in to help the team understand users needs and prioritize and validate some of the team's early improvement ideas. I did not have the bandwidth to conduct interviews, so I had to come up with a less time consuming but efficient way to answer all research questions.

"What do users come to CP for? What do they think of the tool so far? and what should I focus on in 2019?"

Product Manager - IBM Research - Emerging Technology Experiences

"What's Challenges portal NPS now and what are some opportunities for improvements?"

VP, Emerging Technology Engineering - IBM Research

Research Design Overview

Research Objective:

- To better understand the top tasks users come to accomplish in Challenges Portal
- Where do active users see the most value in the Challenges Portal and if those values differ between managers, non managers, theme and sub-theme leads.
- To understand if users feel confident in understanding the purpose of using the challenges portal.
- To prioritize features for the product roadmap
- To help define the future product roadmap priorities based on current user need.

Research Design

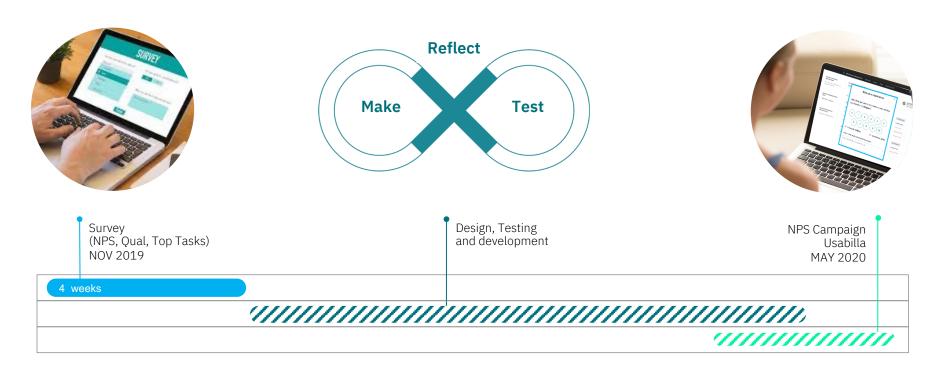
- Survey
- Top Tasks Study
- Usabilla NPS campaign (6 months later)

Survey Participants

- 165 participants
- 61% of the participants were non-manager researchers
- Less than 18% of participants were managers (n =30)

Research Design

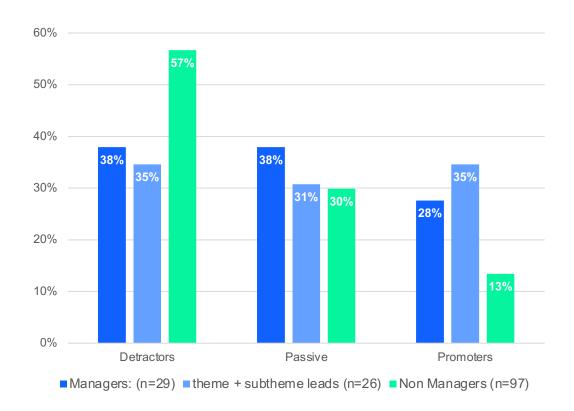
Due to time constraints a survey method was used where the survey had 3 sections, NPS benchmarking, qualitative questions, top tasks



Top Research Findings

Majority of non manager users are detractors

- The challenges portal overall NPS score is -38
- ~55% of all users are detractors
- <u>~60% of non managers are in</u> <u>detractor category</u>
- Only 13% of non managers are promoters
- There are ~ 20% more detractors amongst Non-Managers



Top Tasks (all) (n=165)

- Search (Keyword)
 - **Progress updates**
 - My challenges (Access challenges I'm a member of)
 - Milestones Project planning & deliverables

Tiny tasks (no one selected these as top 5):

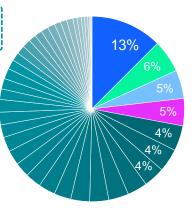
- Guidelines & FAO
- Access management
- Manage Contracts
- Printing
- Needed resources

From highest to lowest score

Search (Kevword)

- Progress updates (add/view progress, deliverables):
- My challenges (Access challenges I'm a member of)
- Milestone (project planning & deliverables): ■ Strategy - (learn the 3+3 objectives and metrics):
- Publications and IP (eminence, report/read publications & IP):
- Track challenges & progress
- Search (Challenge Number)
- Browsechal lenges
- Time com mitments & contributions
- Opportunities (Technology transfer or Re-use):
- Conferences.events.warkshaps
- Invite others to join achallenge
- Proposals (Submit, edit etc.)
- Join a challenge
- Share my challenge
- Manage people (FTE, plans, projects, etc.):
- Communication (teams, members, leads etc.):
- Code samples, libraries, scripts, open source
- Crowds ource ideas
- Analytics & aggregates - (Portal data):
- Follow a challenge
- Technical communities / Forums
- Get help with mysubmissions
- Skills/talent (Find talent):
- Realtime collaboration (realtime editing, version history):
- Communication from executives
- Dependencies & challenge overlaps (add/define/review):
- Coll ectprojects -(create groups of relevant challenges):
- Share information with external clients/partners
- Tagging
- Track mychallenge status
- Viewer analytics: (Find out who is looking atmycontent):

- Share information with Business Units
- Download reports
- Approvals
- Strategy planning
- My profile
- Resource management
- Alerts & notifications
- Add export control and data classification
- Risk (add/viewRiskslevels);
- Track husiness impact:
- Guidelines &FAO (how tousethe tool):
- Access management
- Manage contracts
- Printing



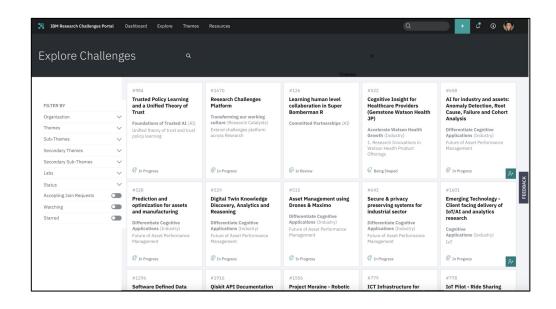
Percentage of all accumulated scores

Lack of "functional search" (Poor discoverability) was the top issue for all users with two key themes emerging

- Lack of ability to <u>search for specific people</u>
 Users often search for a researchers name only to find out that our search does not support people search.
- Search Result Page is <u>not easily</u> <u>scannable</u> There are too many results that are not sorted based on relevancy and are not easy to scan quickly
- The <u>search results are often considered</u> <u>irrelevant</u> or sorted based on recent updates rather than relevancy

"It's hard to find a specific person to see what challenges that they are working on, or finding a challenge that you don't know the exact name of"

Challenge Lead Austin



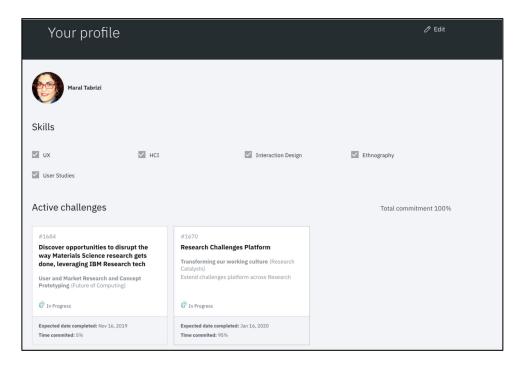
Users do want to use the portal to learn about other researchers, but lack of enough information renders the researcher profile page useless

 Researchers are <u>not motivated to update</u> <u>their user profiles</u> often

This is due to redundant information they must add and not enough options to accurately show their skills or past contributions

"I don't want to have to add my skills in CP manually, we already add them in 3 other portals, why not integrate with those, also profiles don't show previous challenges, or role or department, etc. so we still have to go into BluePages to figure out who this person is"

Challenge Lead Japan



Researchers are unable to easily manage (Add, review or update) Challenge milestones and progress made against them

- Today in order to add or update milestones researchers must leave the challenge page and go back to their original submission form. This is considered very disruptive, and inconvenient and many don't know that they can achieve this.
- Today in order to add or read progress updates, researchers must leave the milestone sections and navigate to a different tab users find this confusing and frustrating and avoid keeping their challenge pages up to date at all costs
- This means that the quality and accuracy of the data on challenge pages is considered unreliable

"The process of keeping a challenge up to date with new milestones or progress updates is so frustrating and time consuming that everyone is avoiding it at all costs. It all falls on the challenge lead which is sometimes not fully qualified to add updates about every milestone.

This means that the data quality and accuracy of challenge pages is really low, which also means that we can't rely on what we see on challenge pages and have to directly reach out to challenge teams for more accurate information"

Challenge member India

Recommendations

If we intend to improve our NPS score within the next 6 months, we must improve the experience of non manager Research Staff:

We need to shift our short-term focus to **the individual contributors, their work and their progress** rather than the IBM Research pillars strategies, approval and review etc.

There are **7 recommendations for actions** we can take to make the experience more tolerable for non managers using Challenges Portal for their specific usecases



Recommended actions

Severity legend

High

Frequently effects users and critical to success of their work.

Medium

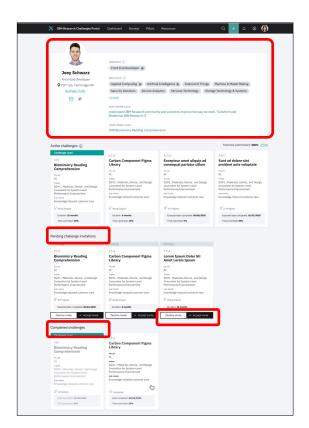
Lower frequency or criticality to their work

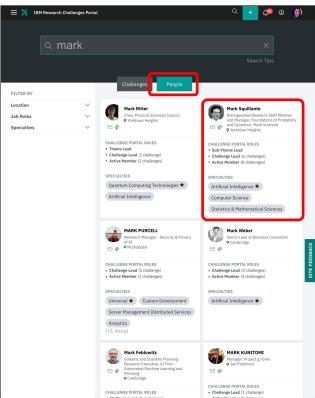
Low

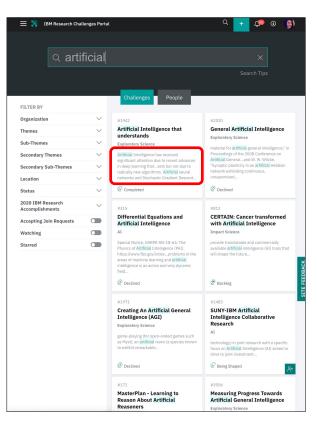
Quality of life nuisance, not mission critical

Recommendations	Estimated severity	Estimated time to fix (sizing from dev and design)
Add people search	HIGH	2 months
Add SERP highlights	HIGH	3 weeks Immediate
Enhance SERP relevancy (Exact > AND > OR results)	HIGH	3 weeks Immediate
Integrate with BluePages to import skills, title, department, slack & email	MEDIUM	1 month
Allow for users to update their contributions from their profiles page	MEDIUM	1 month
Improve milestones usability (Edit/add/view directly from challenge page)	MEDIUM	2 months
Include past and pending challenges on the profile page	LOW	1 month

Impact





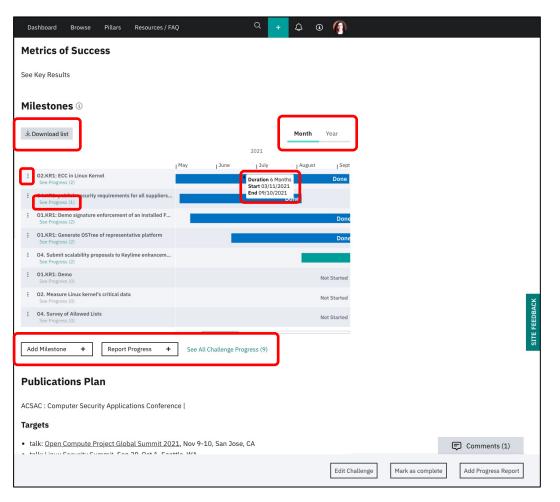


Impact

After

before





Impact

Actions taken:

- Team tackled the immediate actions.
- 6 months of design, testing and development went into enhancing the individual researcher experience

Outcomes

Addition of recommended functionalities yielded a **40 point increase in NPS** within 6 months

The enhancements increased user engagement with the Challenges Portal which led to reported higher quality of data

