



Government of Canada

Website Case Study

James Alafriz | UX designer

Links

[Government of Canada Website](#)

[Desktop Prototype](#)

[Mobile Prototype](#)

[Figma Working File](#)

[Project Folder | Group Research](#)

[Project Folder | Individual](#)

[Previous Case Study Deck](#)

Roles

UX Research (with Danni Liang)

UX Design

UI Design

Art Direction & Design

Tools



Project Overview

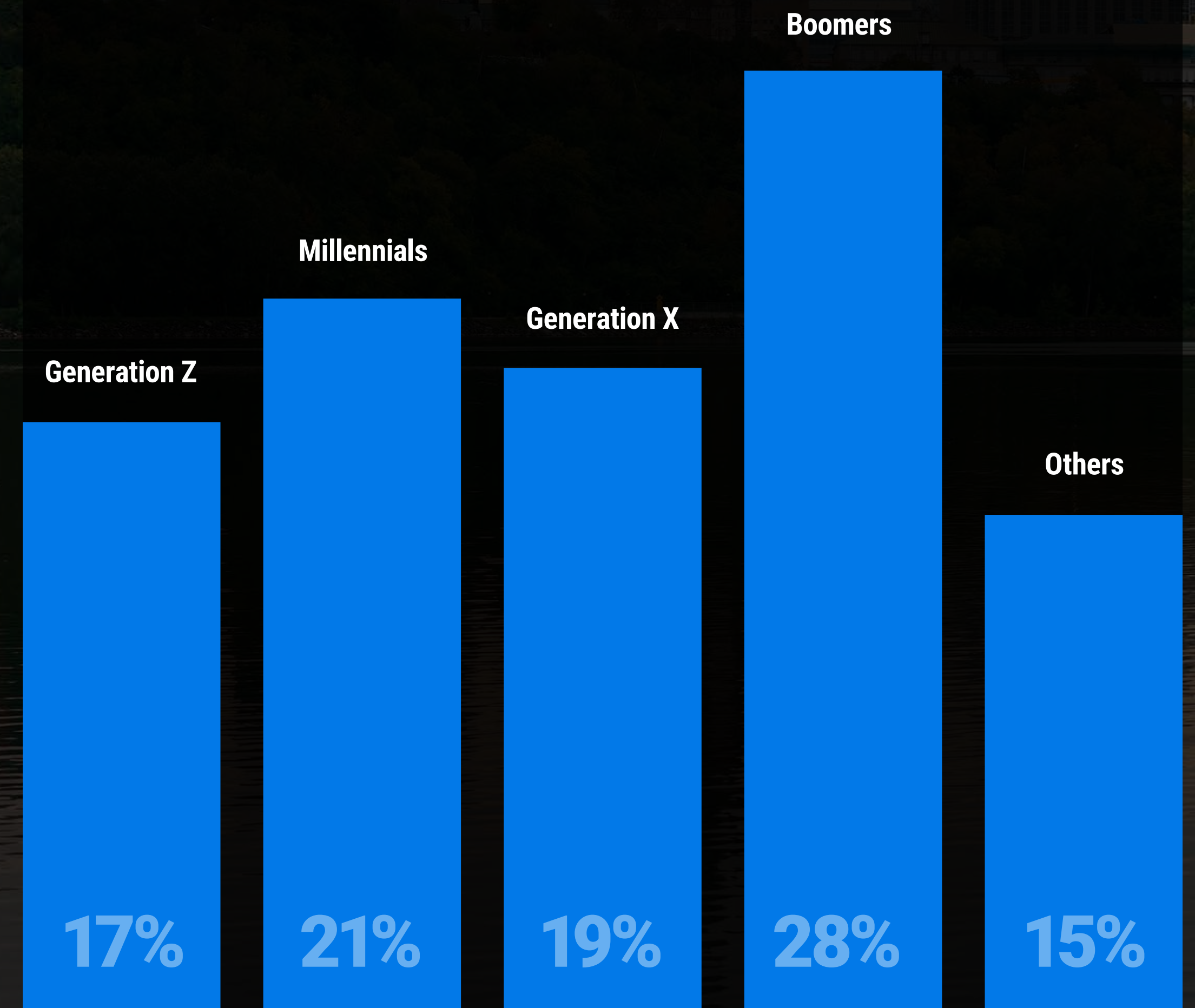
The [Government of Canada website](https://www.canada.ca) (Canada.ca) is an essential resource for Canadians looking for government-related information and services.

In 2023, we want to provide users with a website that resonates with the modern Canadian from a usability lens.

Target Audience

As of 2022 the distribution of population within Canada is fairly evenly distributed. Therefore, an array of our user's needs and limitations will be considered.

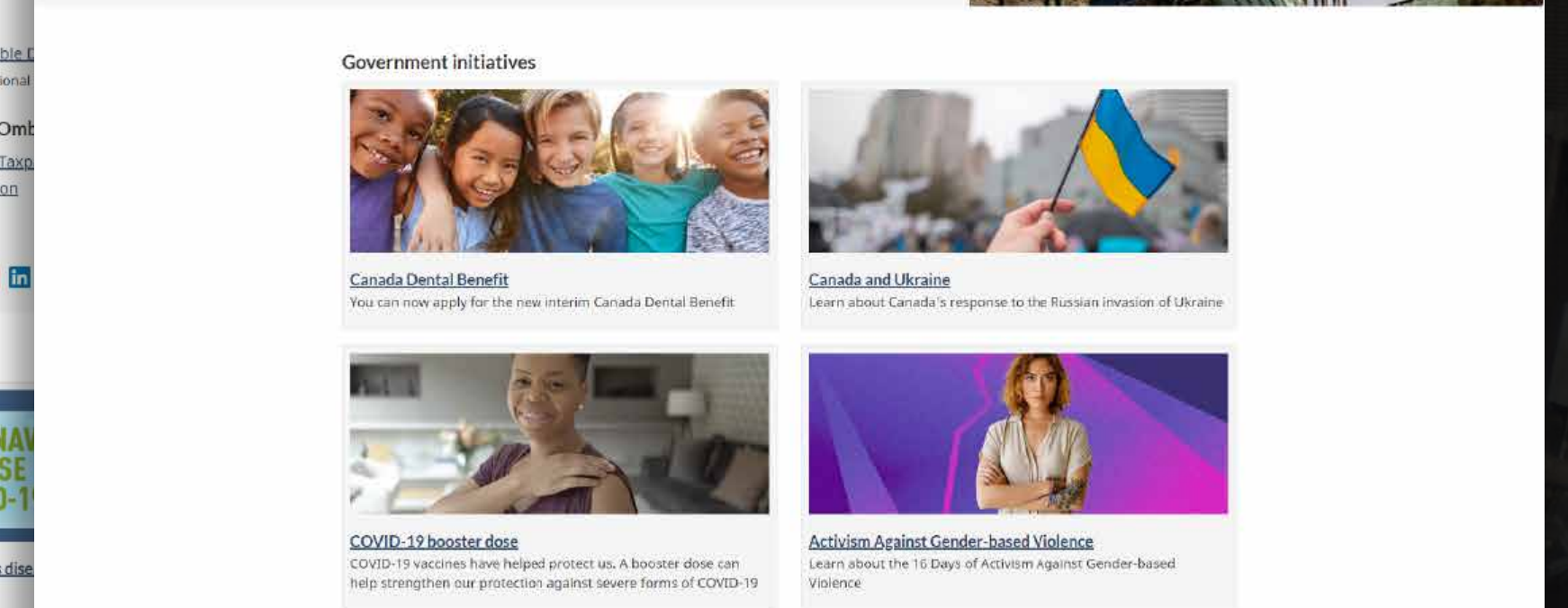
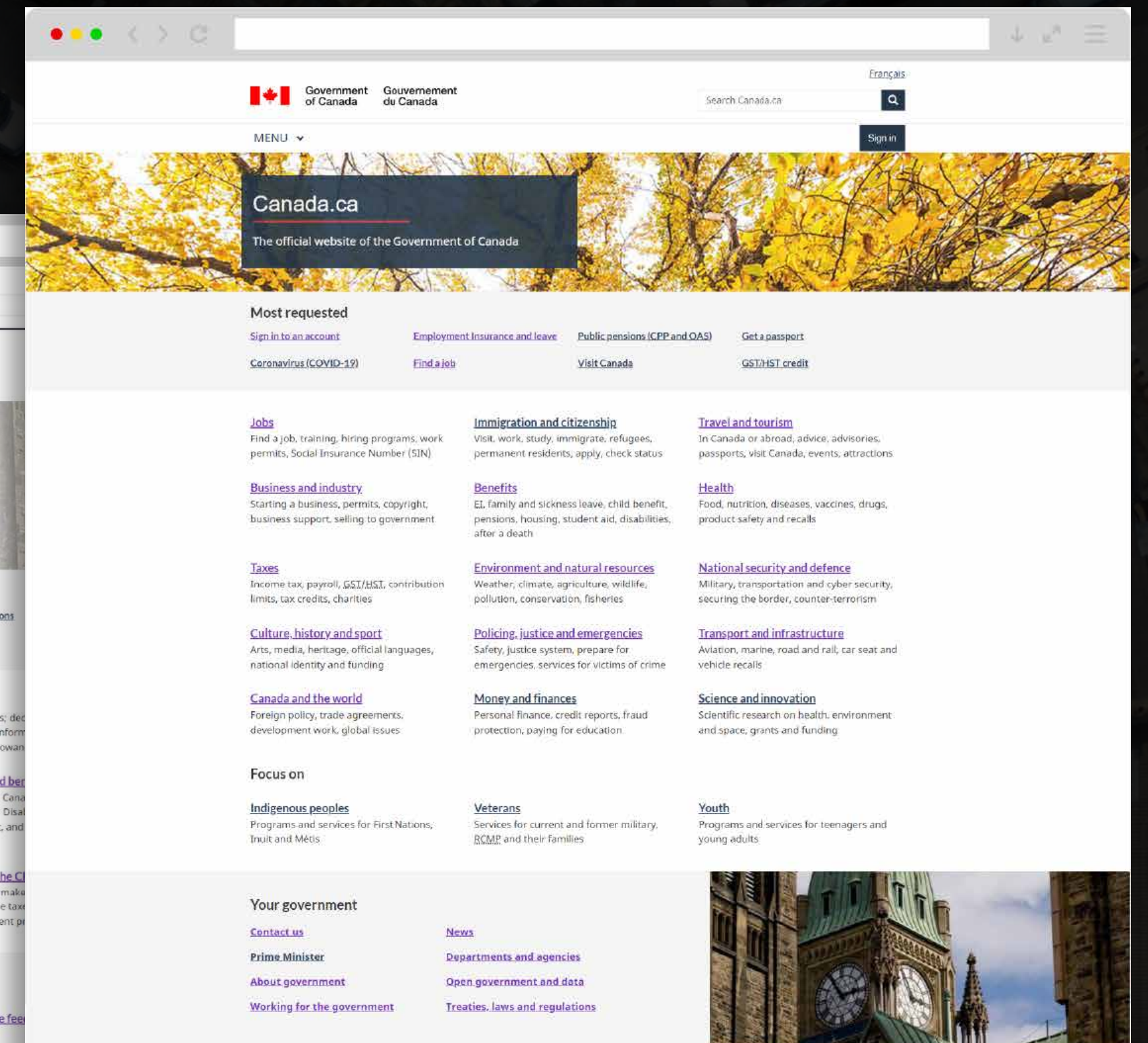
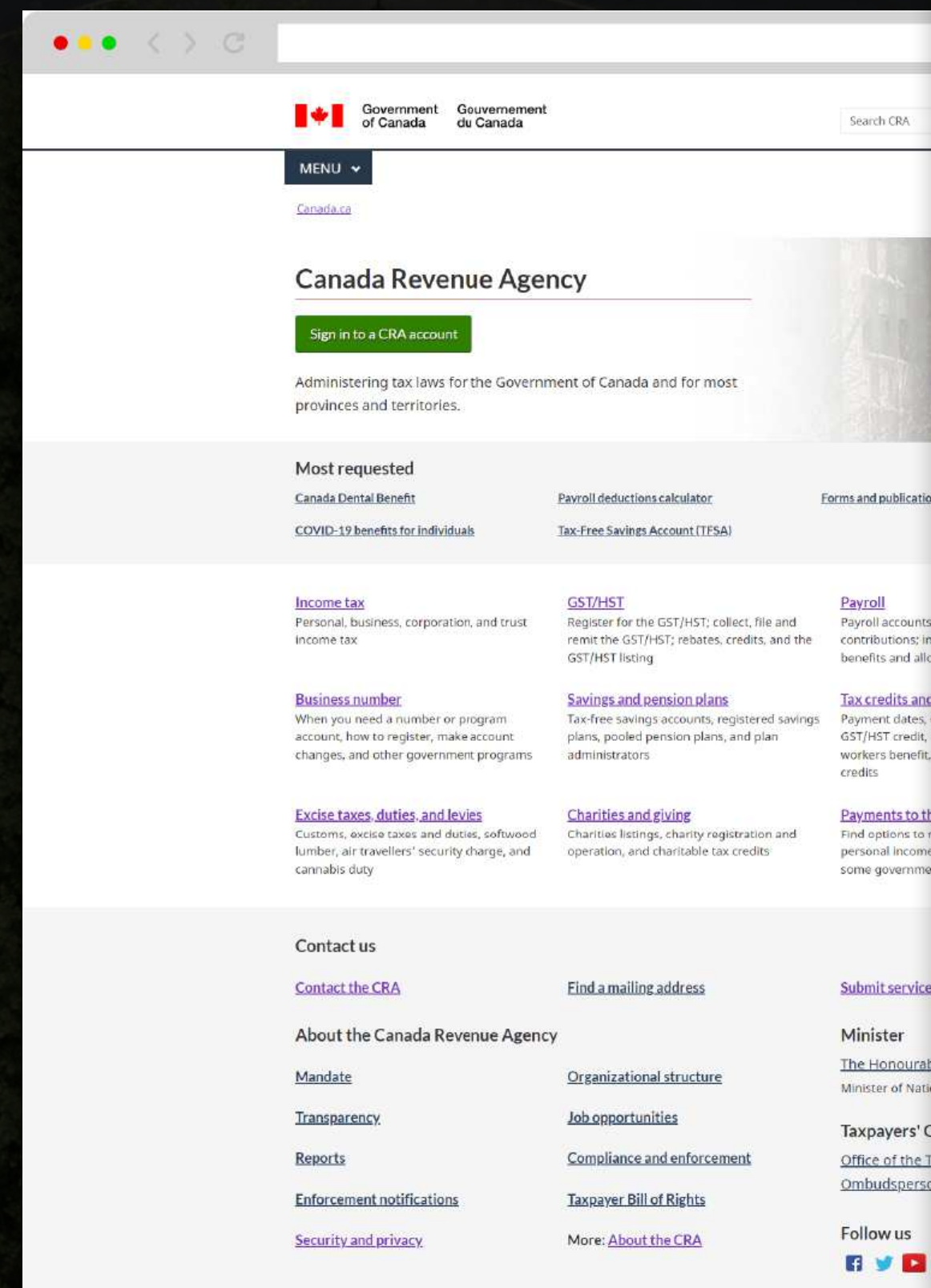
Source: <https://www.statista.com/>



Project Scope

Originally tasked with analyzing the [Canada Revenue Agency](#) website with a focus on improvements to the Information Architecture and general usability of the website.

But over the course of this project, the UX problem solving process unearthed a larger underlying problem that required a solution.



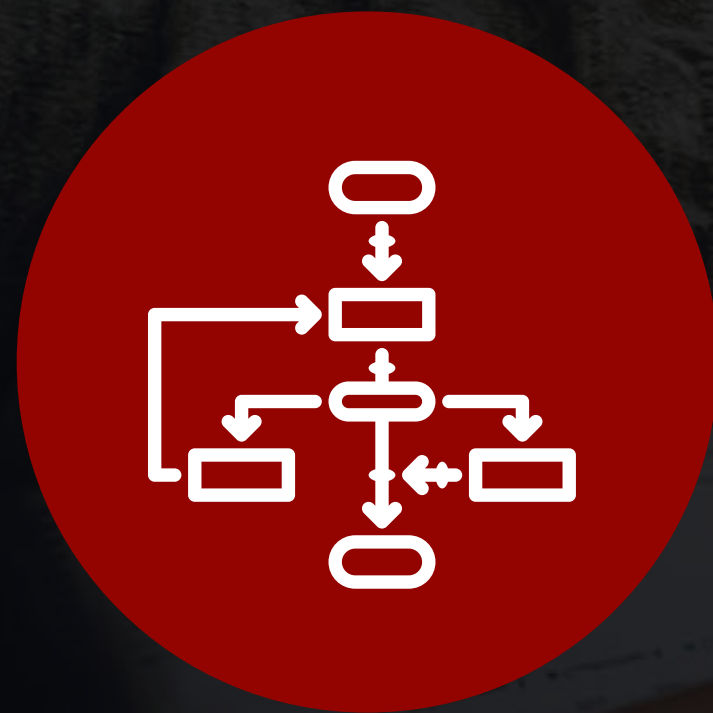
Exploring the problem

Evaluation and testing was critical when discovering key insights. User tasks, wire flows and heuristic evaluations provided a foundation for analysis.

The plan



Empathize



User & Wire flows



Initial User Testing



Heuristic Evaluation



Prototyping, Testing
& Iterating



LISA WANG

BIO

Lisa lives downtown Toronto. While she enjoys the freedom of controlling her own time as a busy single mother and entrepreneur, there are many administration items that require her time and attention. Lisa needs to manage her taxes carefully, making sure she understands the tax implications and deadlines that pertain to her business.

NEEDS

- Informed of all tax requirements and regulations.
- Knowledge of first-hand information from government websites to fully understand how taxes affect her business.
- Have resources that can answer her tax questions.

PAIN POINTS

- Struggles to find information on the website efficiently.
- Often gets lost navigating the CRA website.
- Can't keep track of all the tax requirements.

LIFE IS BUSY AND I
NEED TO EFFICIENTLY
MANAGE MY TAXES.

AGE: 46

LOCATION: TORONTO, ON

EDUCATION: BA COMMUNICATIONS

JOB: ENTREPRENEUR

FAMILY: SEPARATED WITH 2 KIDS

PERSONALITY TRAITS

PATIENCE



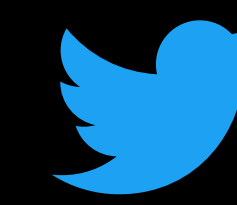
FLEXIBILITY



PROBLEM SOLVING



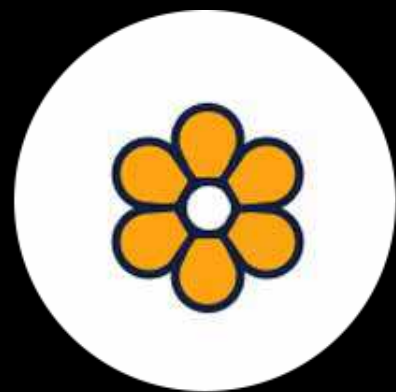
SOCIAL



TRUSTED BRANDS



Website Analysis Heuristic Evaluation



Aesthetic & Minimalist Design

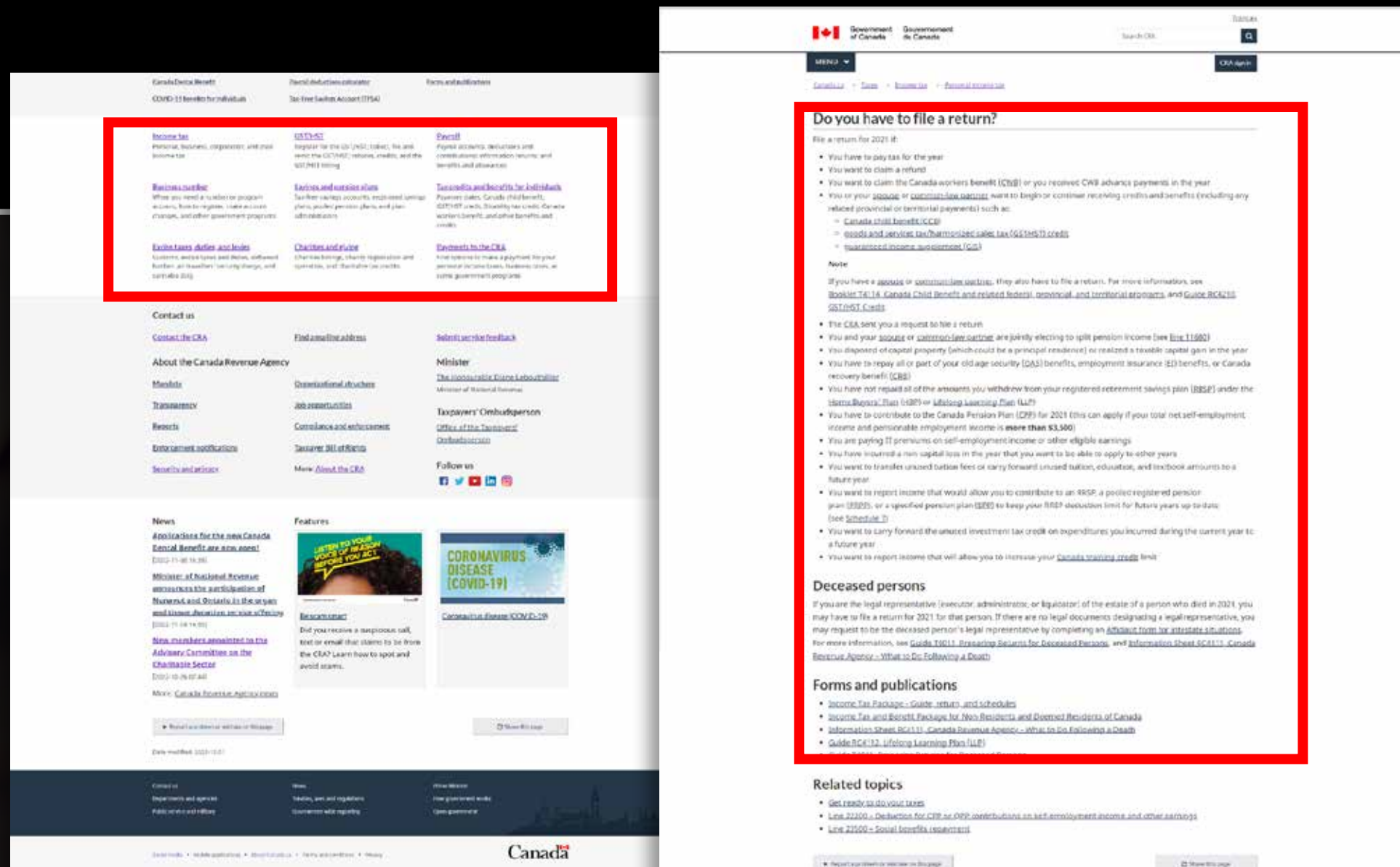
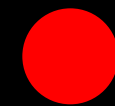
ISSUE

While the design is minimalist, it suffers from being copy heavy with few visual breaks for the user resulting in user fatigue.

RECOMMENDATION

Content segmentation with cards and colour blocking.

SEVERITY



Consistency & Standards

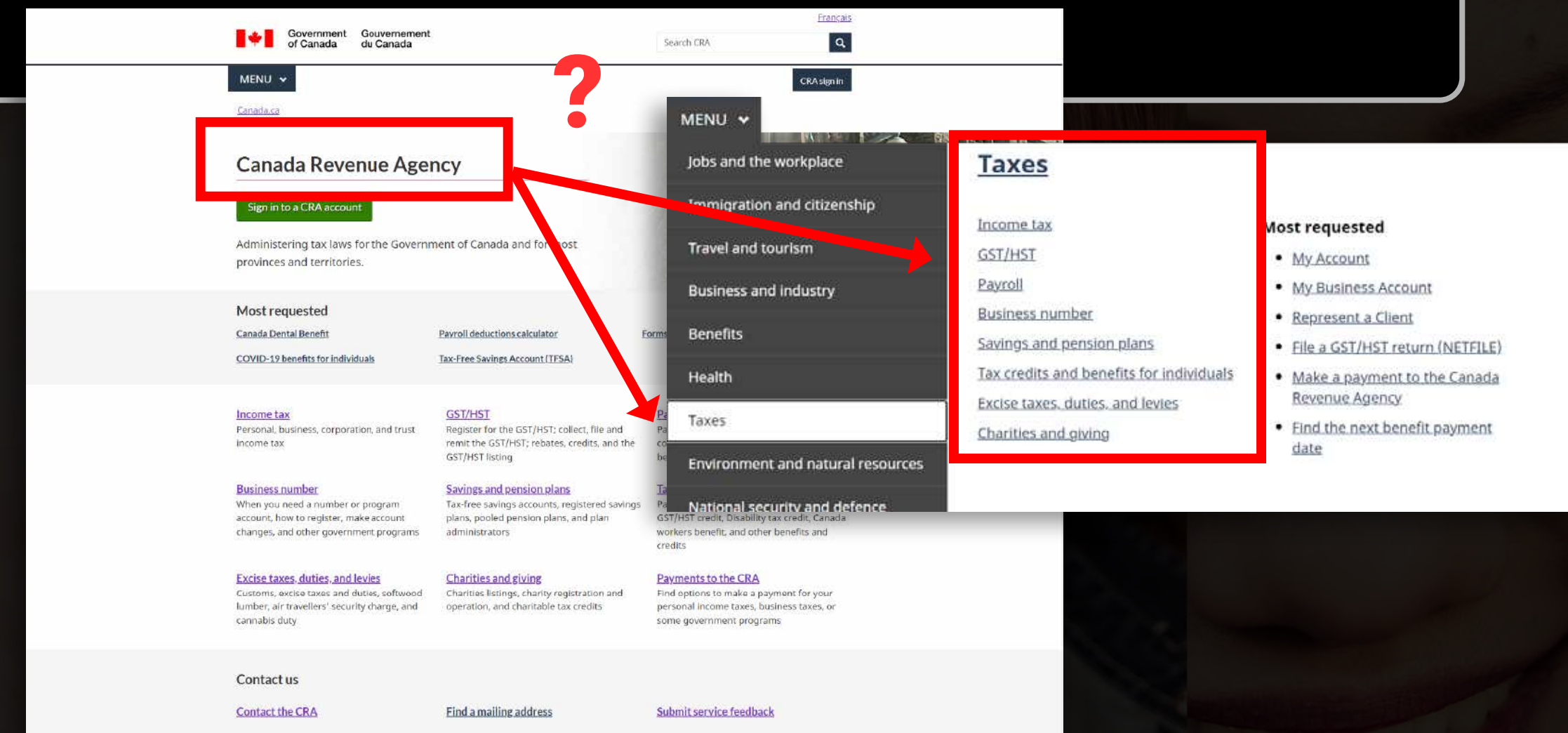
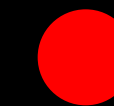
ISSUE

The CRA "website" is not an individual website, rather part of the larger Government site. Additionally, the landing page can't be found in the main menu revealing a high-level Information Architecture problem.

RECOMMENDATION

Revising the navigation system to make the CRA site easier to find.

SEVERITY



Website Analysis

Heuristic Evaluation

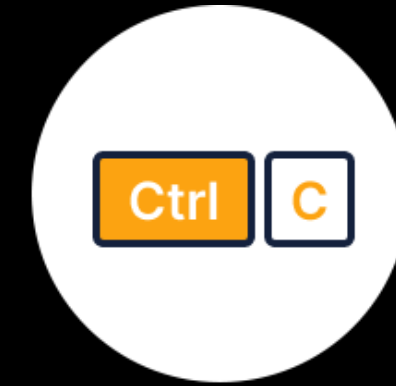
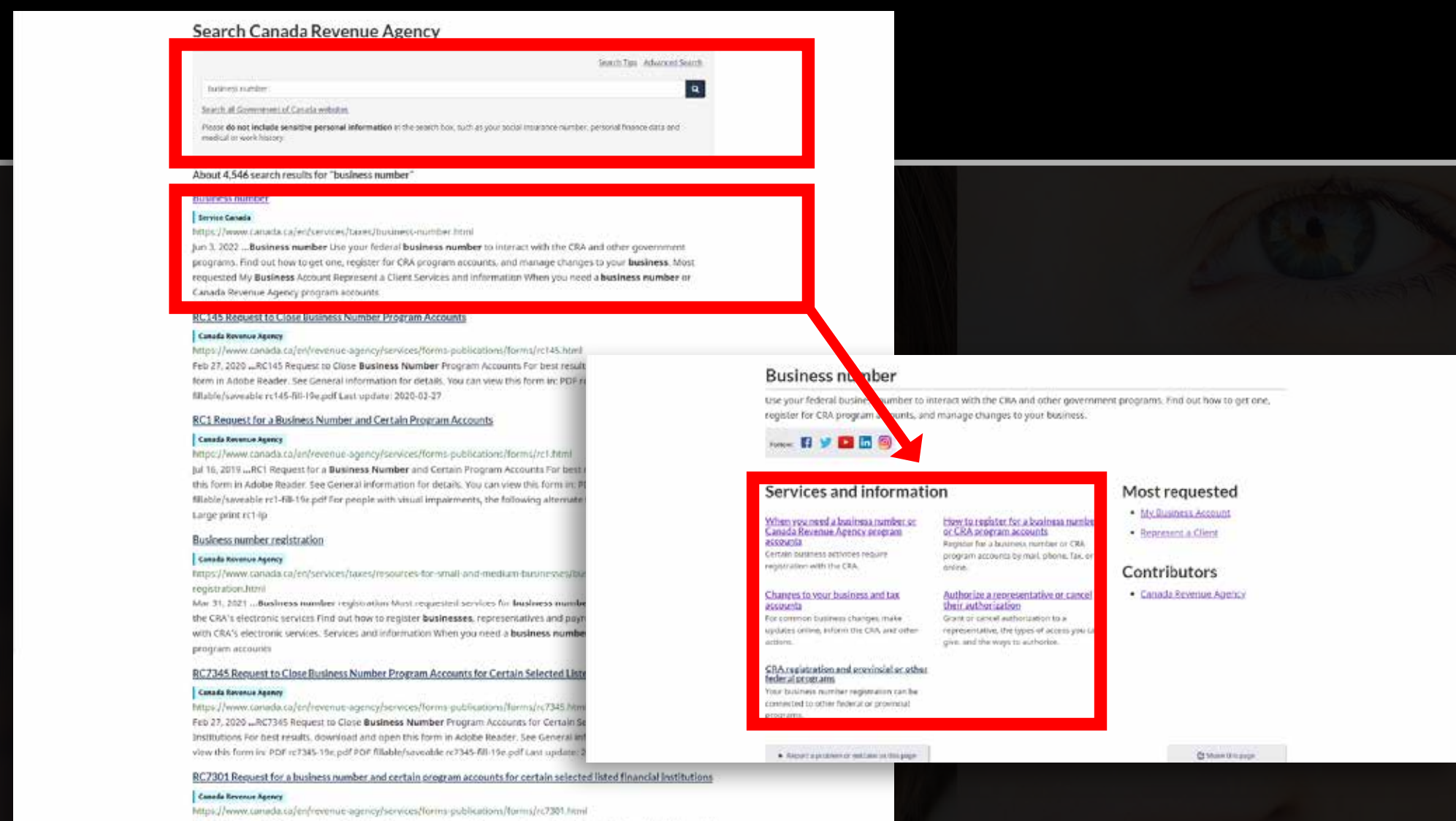


User Control & Freedom

ISSUE The search feature yields poor results which limits user control, flexibility and efficiency when looking to complete tasks.

RECOMMENDATION UX copy writing for all headings with keyword considerations. Note: Likely outside of the scope of this project.

SEVERITY ●

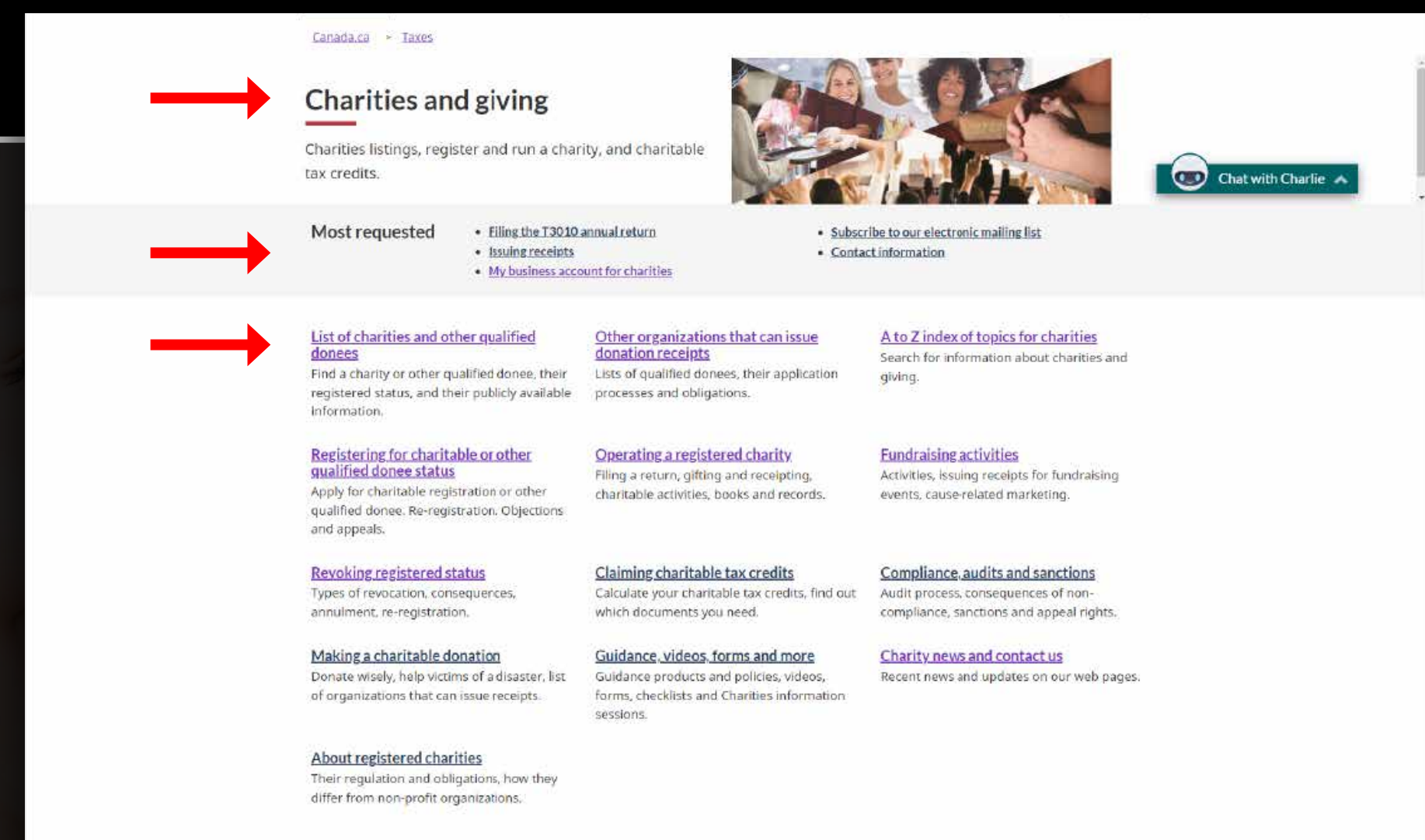


Flexibility & Efficiency of Use

ISSUE Content sections on the website all look similar forcing the user to read a large amount of text with a confusing hierarchy.

RECOMMENDATION Create different sections that will help the user differentiate and create associations with a hierarchy.

SEVERITY ●



Website Analysis

Heuristic Evaluation Takeaways

Strengths

- The CRA site showcases a minimalist design.
- There is an enormous amount of content on the site which makes it a valuable resource for Canadians looking for tax-related information
- Fast loading and no real issues with color accessibility
- Highly accessible for people with impairments

Opportunities

- The minimalist suffers from being too copy heavy with few visual breaks for the user.
- The search feature yields poor results which limits user control, flexibility and efficiency when looking to complete tasks.
- Help is not helpful, although there is a beta chat bot available for users.
- Information architecture is a high-level problem.

Website Analysis

User Tasks & Wire flows

Task flows & Screenshots

Wire flows

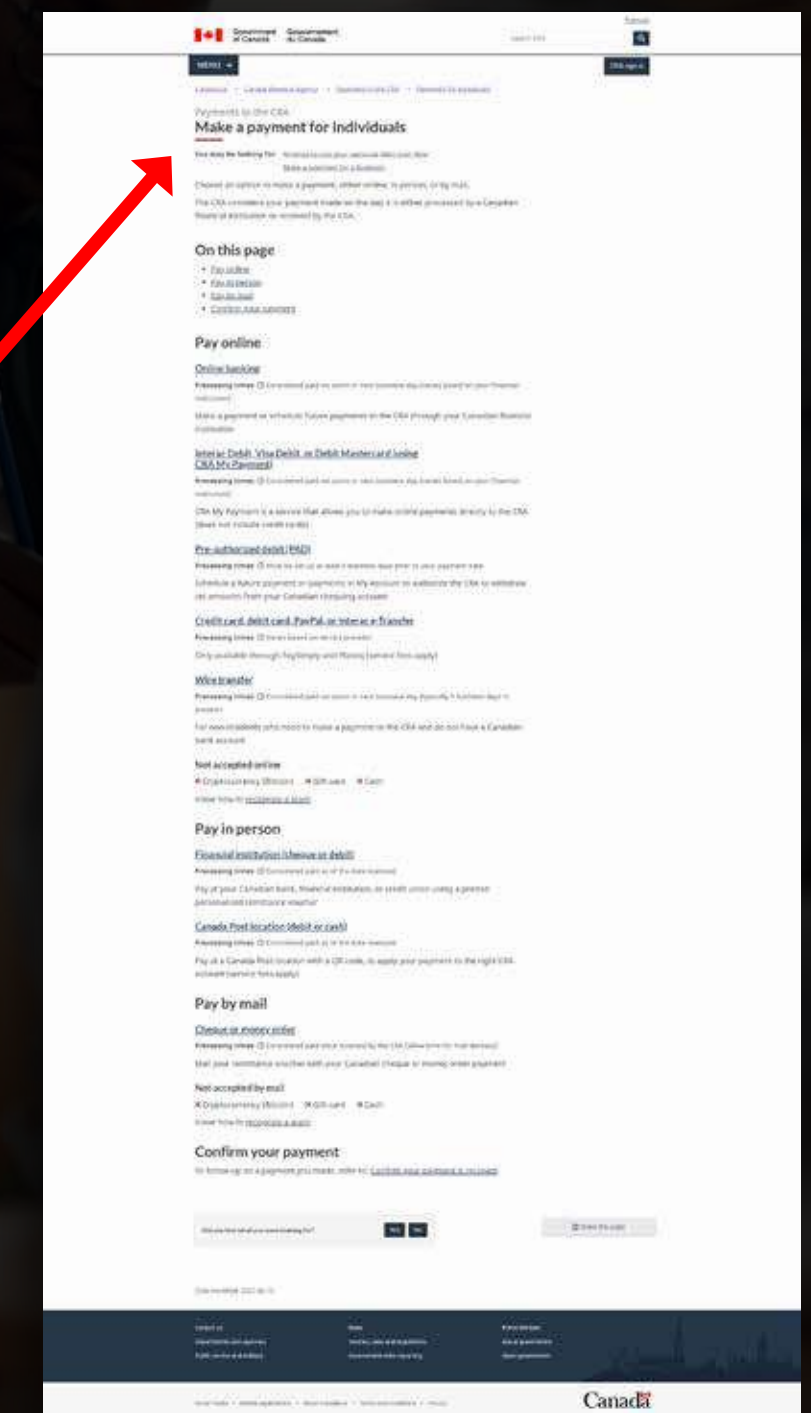
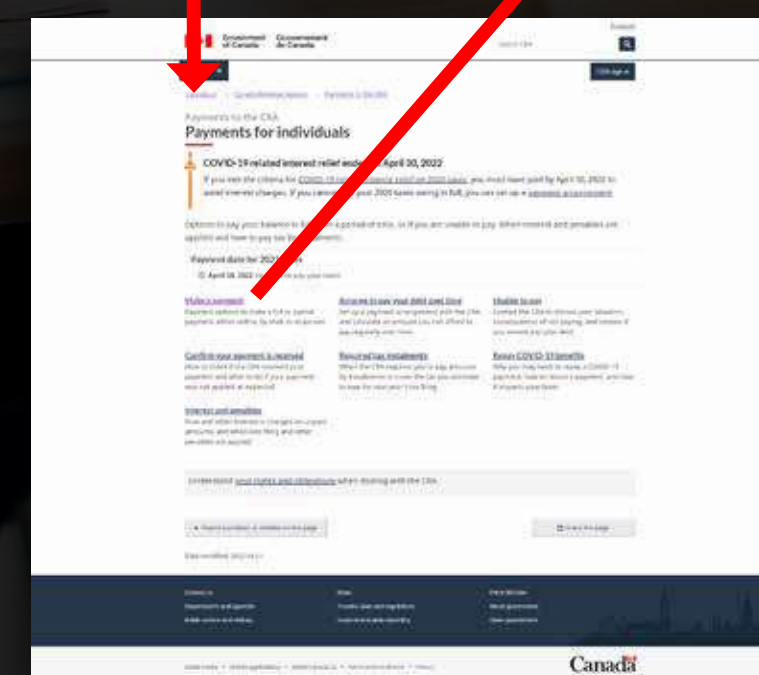
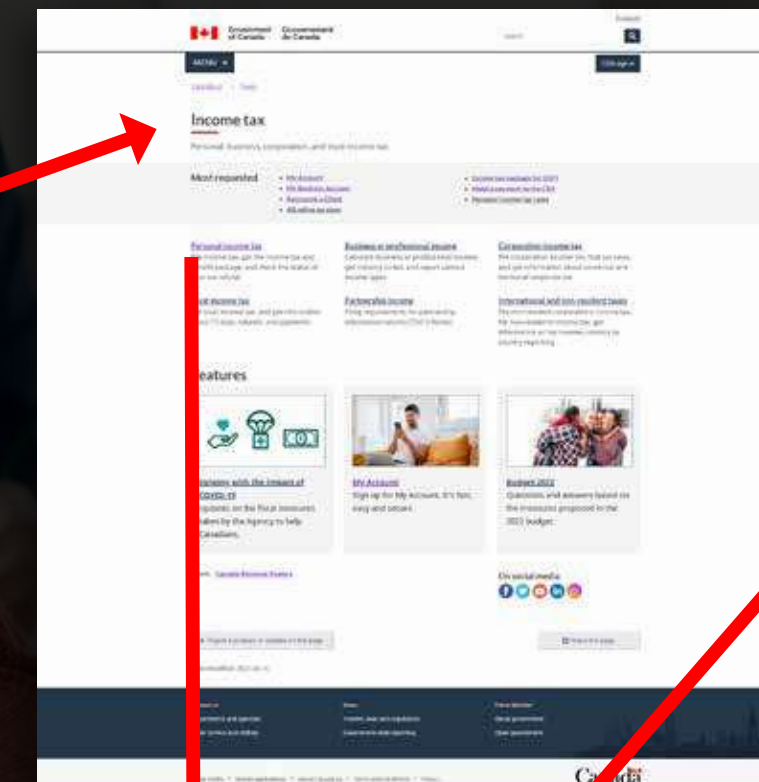
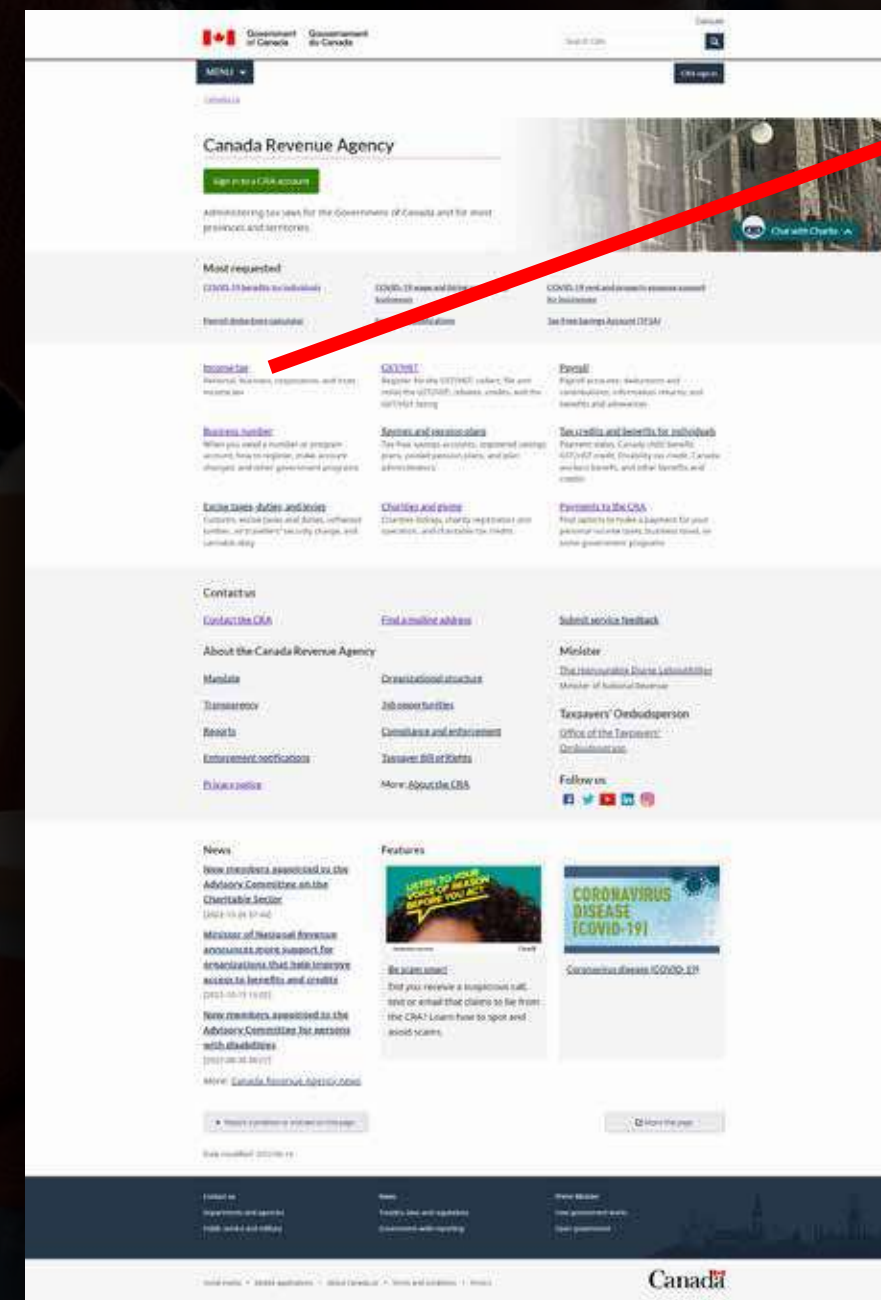
A series of tasks that a typical user might undertake as an individual, business & charity:

1 | Finding personal income tax filing dates

2 | Finding forms of acceptable payments by the CRA

3 | Researching requirements for obtaining a business number

4 | Researching requirements for operating a charity in Canada



Initial Usability Testing

Analysis & Key Takeaways

Poor search
functionality

Too much
copy!

Not enough visual
segmentation.

Unclear navigation
pathways.

User difficulty with
finding & searching for
specific information



[Usability Testing](#)

[Usability Test Recordings](#)

[Usability Analysis](#)

Post-Test Analysis

Navigation Heuristics | Desktop

Heuristic Annotations | Desktop

A navigation redesign could be helpful as users consistently have trouble finding specific information. Key Insights:

Taxes vs. CRA categories

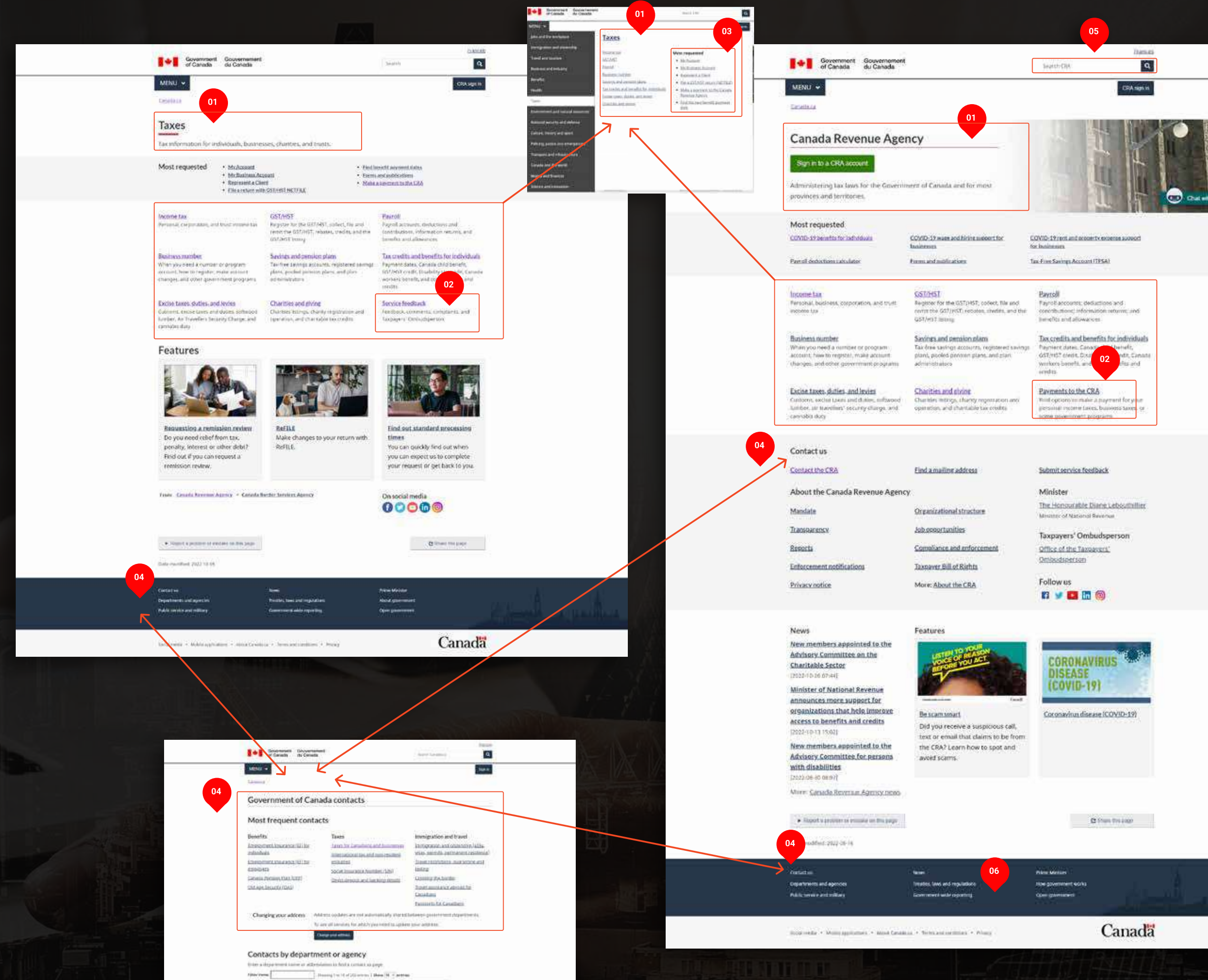
- Users arrive at different pages depending if they used the Gov of Canada home page, navigation or internal search engine vs. a Google search.

Tertiary content under Taxes

- People seem to have difficulty finding specific information within each of the third tier subcategories.

💡 IA needs to be streamlined and aligned with nav

💡 Rewrite navigation names and categories to be more concise



Post-Test Analysis


Navigation Heuristics | Mobile

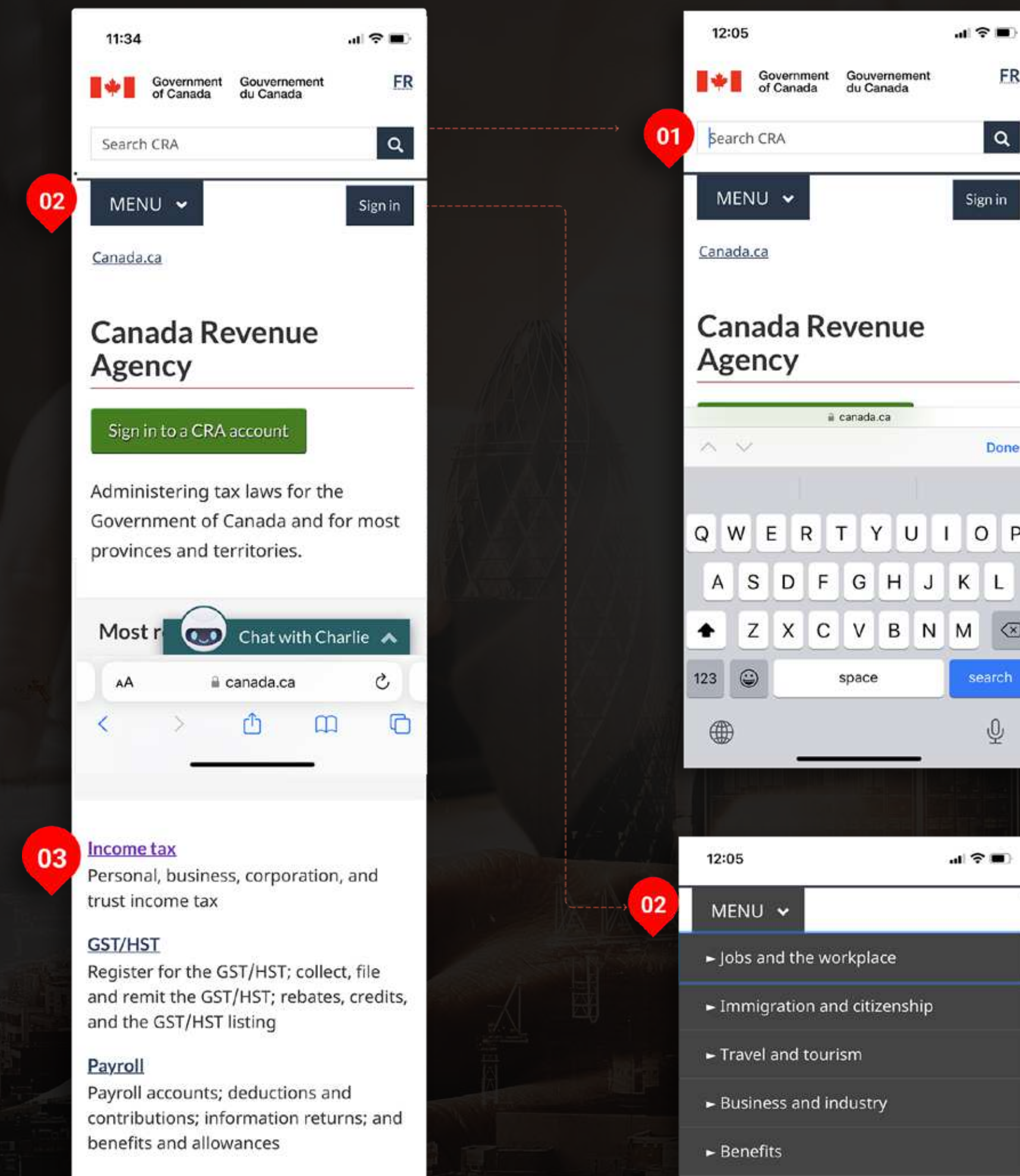
Discovery options are limited as the menu pertains to Government of Canada's top-level departments. Key Insights:

Taxes vs. CRA categories

- Users find it confusing to differentiate between the "Taxes" and "CRA" landing pages.
- Once on the Taxes landing page, users find it difficult to find content related to the subcategory

 IA needs to be streamlined and aligned with nav

 Rewrite navigation names and categories to be more concise

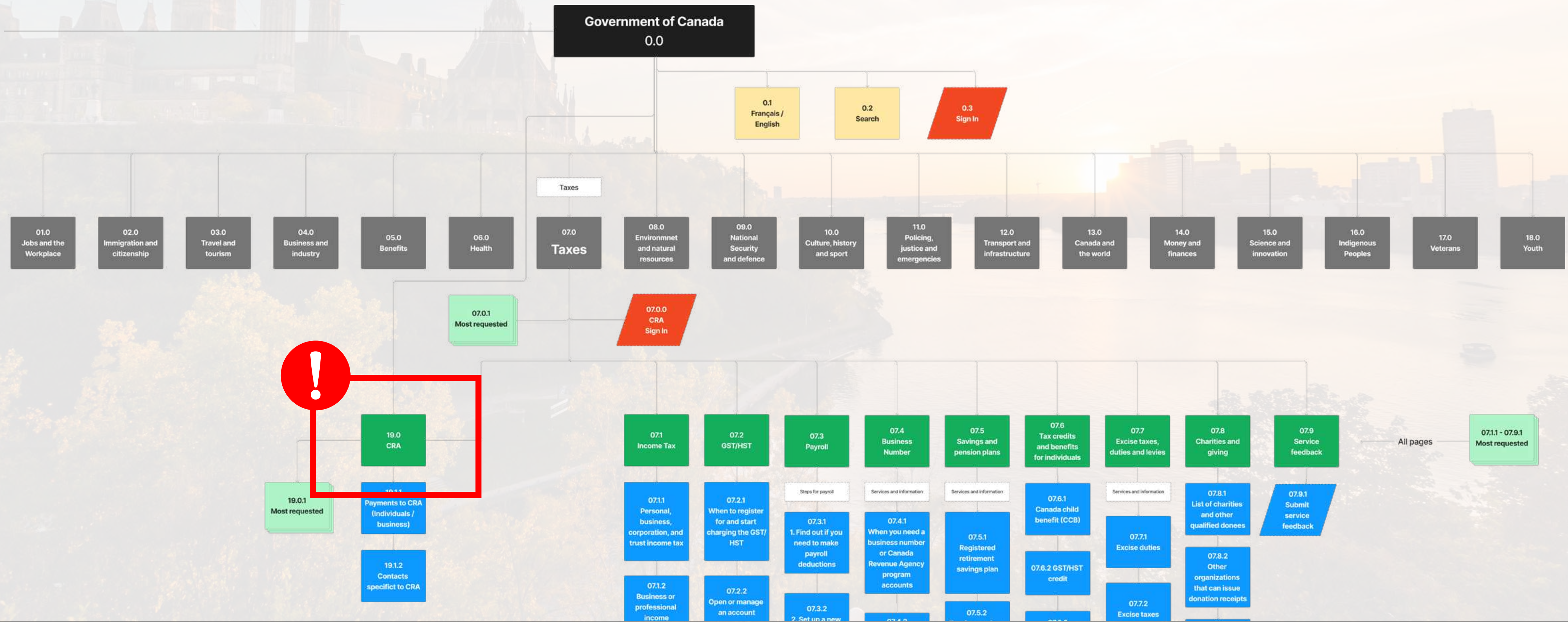


Sitemap Analysis

Problem

The CRA landing page can't be found under taxes or under the main menu. This is a big area of confusion.

[View current Sitemap](#)



Sitemap Analysis

Solution

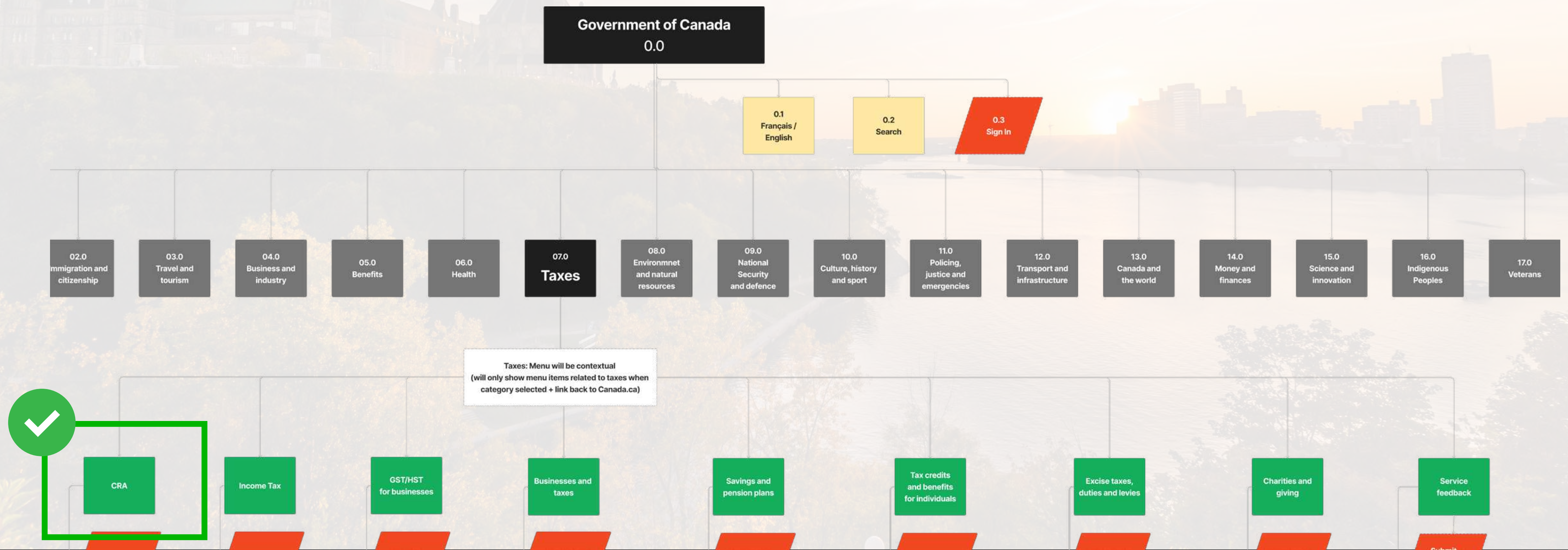
Nest CRA category under taxes and give the user multiple ways to navigate through associated content.

💡 **Sorting via sitemap proved more fruitful vs an attempted card sort**

[Redesigned Sitemap](#)

[CRA Website Inventory | Current](#)

[Card sorting Attempt](#)



Proposed Solutions

💡 Rethinking of the IA will be key to improving the user experience.

01

Redesign Navigation

- Improve discoverability

02

Cards and enhanced banner

- Improve hierarchy
- Reduce user fatigue

03

Improve sign in access

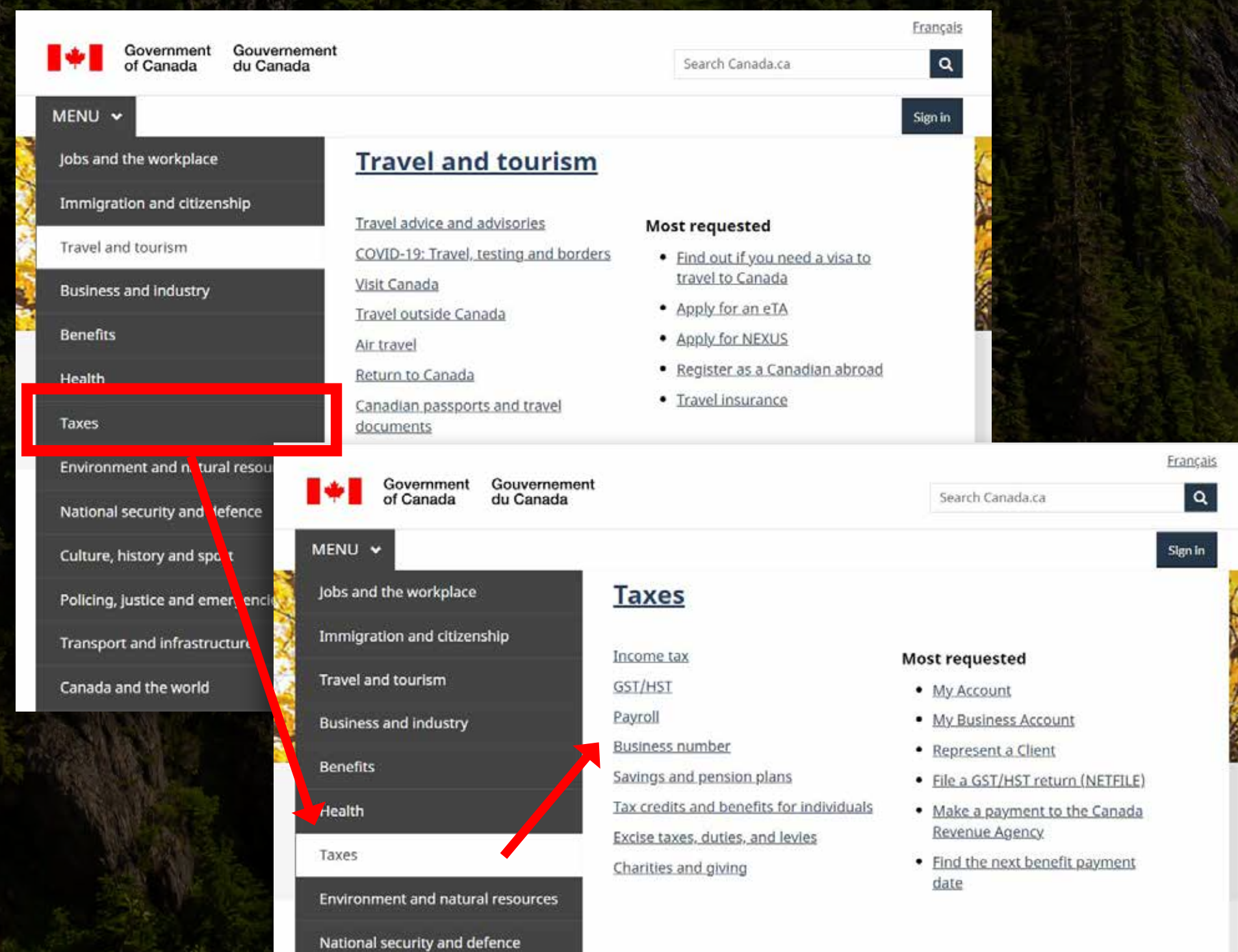
- Improve recognition over recall

01 Navigation

Desktop | Initial Redesign

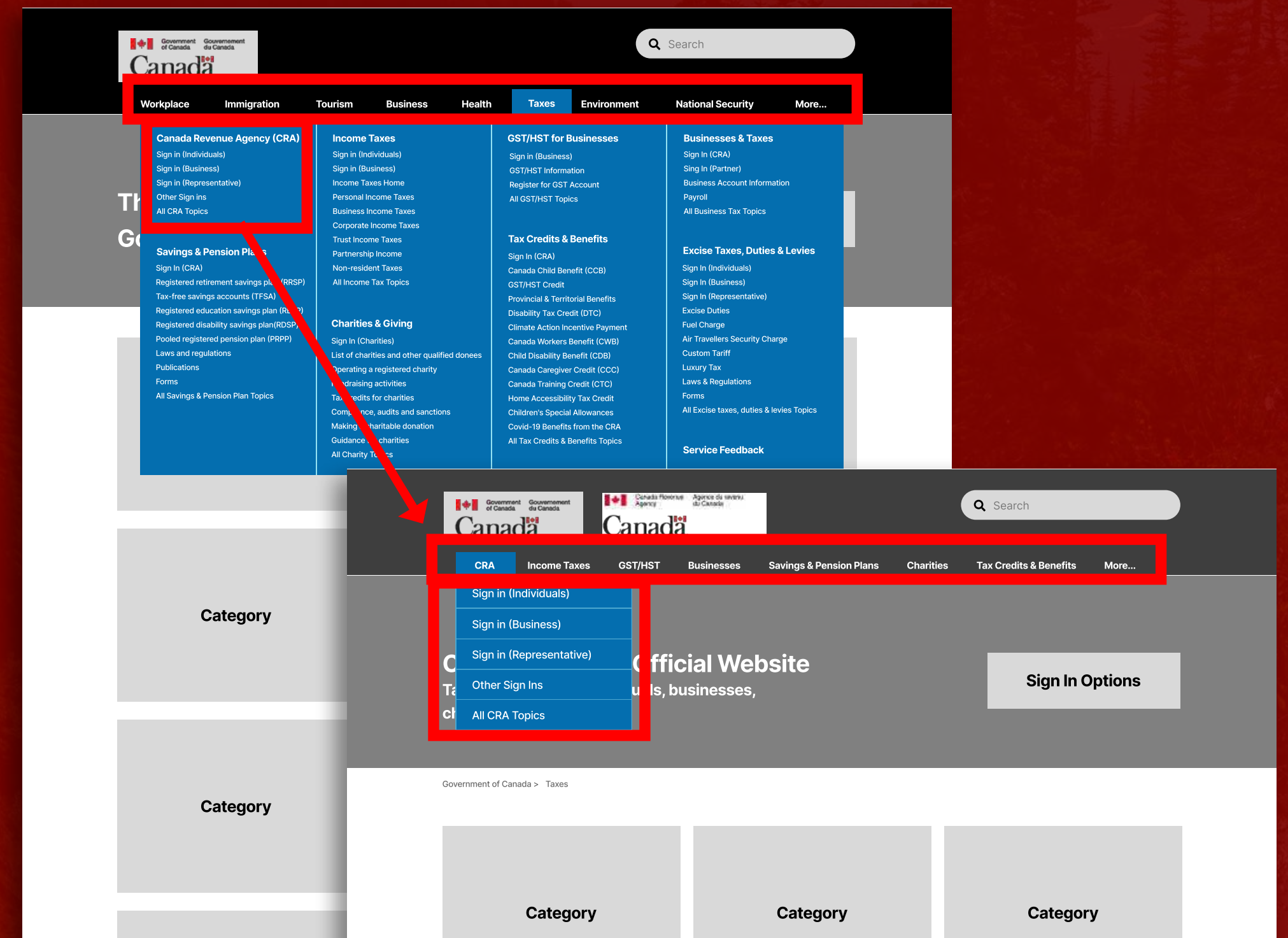
Before

- The menu only allows the user to see the top-level content for each department
- CRA is inaccessible from the menu



After

- Adjusted the mega nav to allow the user to view more of the content, including CRA.
- Each department's menu will be contextual with categories specific to that department appearing in the horizontal menu.
- A drop down menu for each department now gives the user access to additional content.

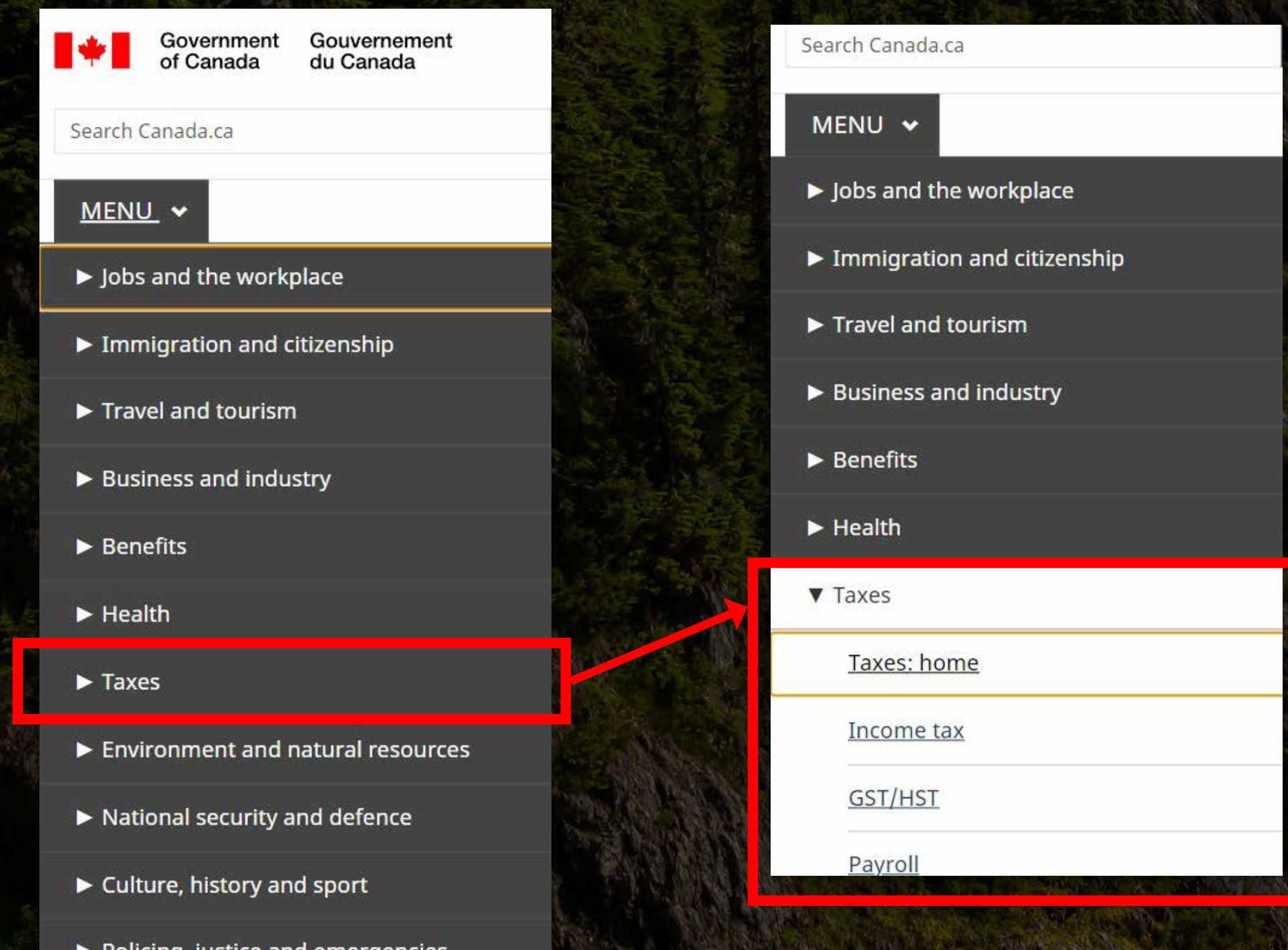


01 Navigation

Mobile | Initial Redesign

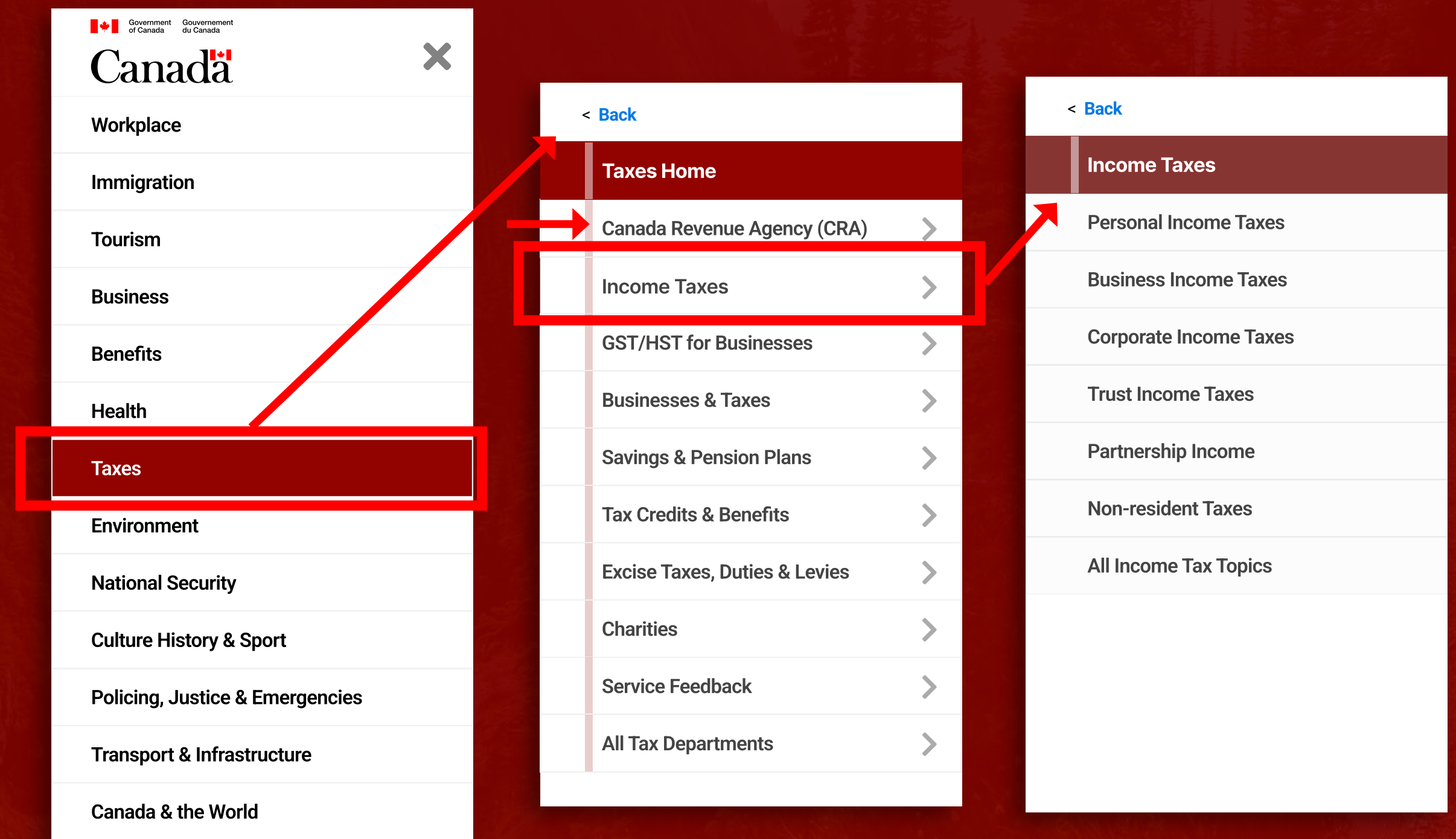
Before

- The menu only allows the user to see the top-level content for each department
- CRA is inaccessible from the menu



After

- CRA has now been added to the menu.
- Each department's menu will be contextual with categories specific to that department appearing in the hamburger menu.

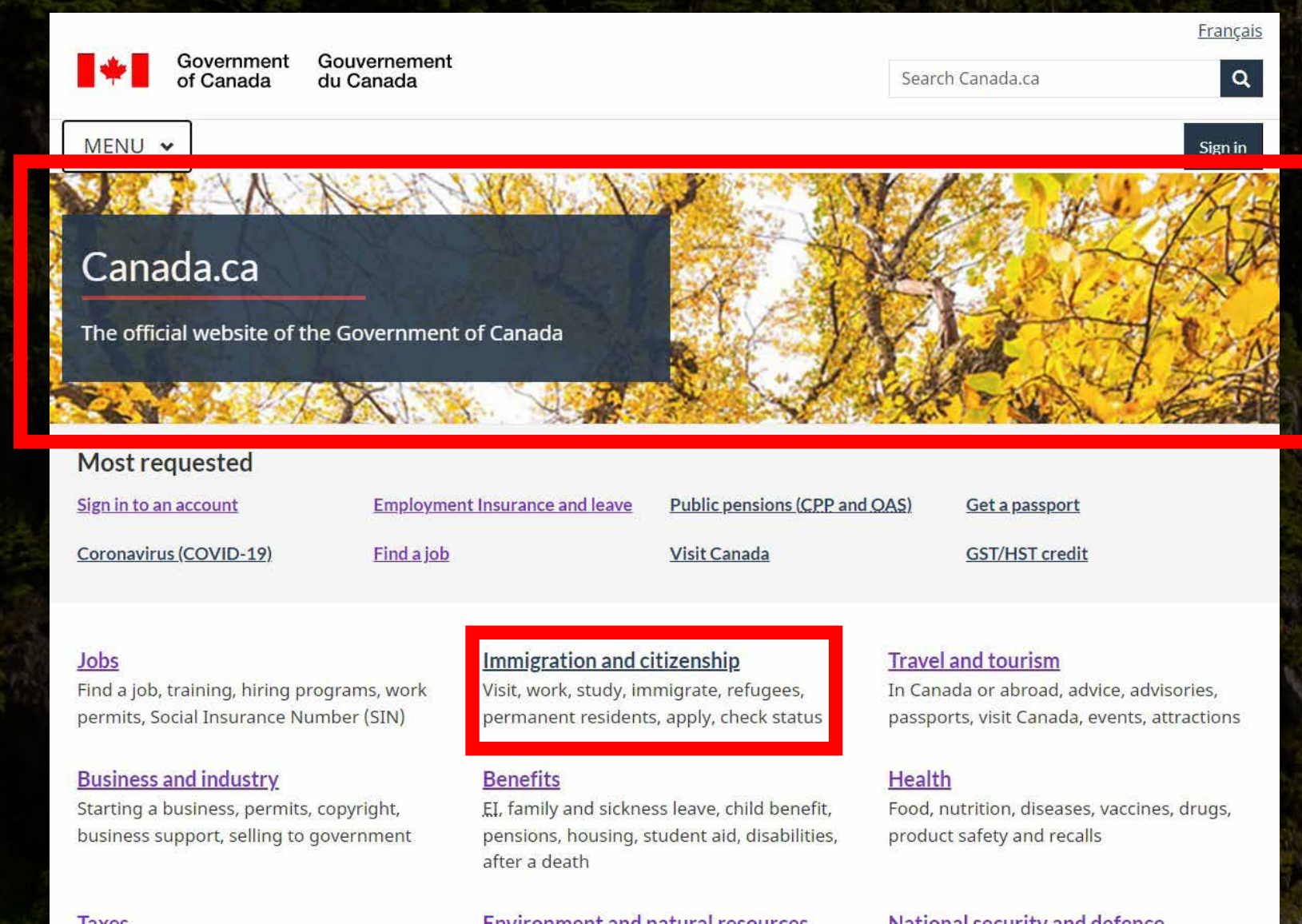


02 Cards & Banner

Desktop | Initial Redesign

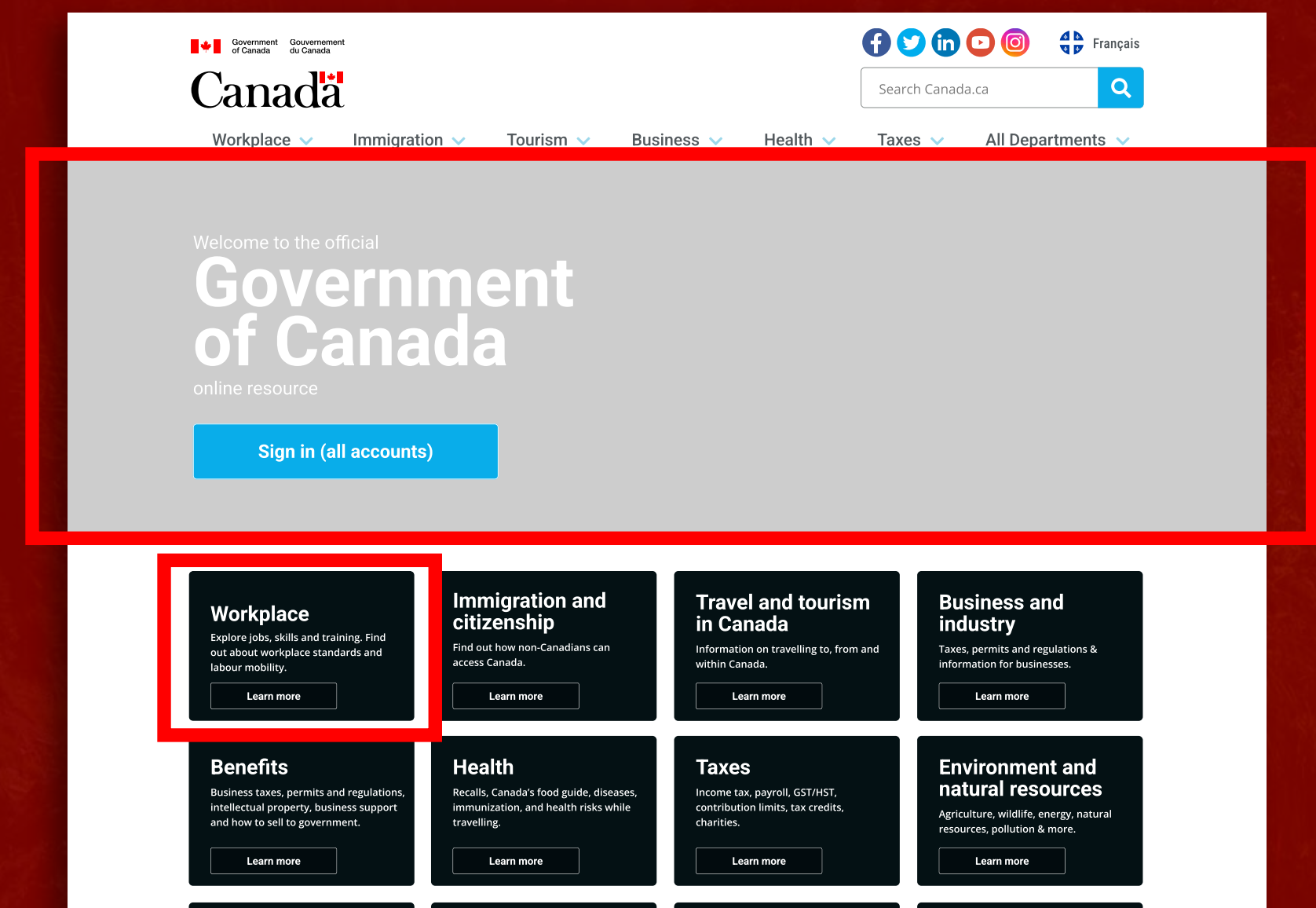
Before

- Department categories are set in as text only making them difficult to differentiate.
- The banner could be better utilized and more consistent across the site.



After

- Utilized cards for departments with CTAs to help block the content and create visual separation.
- Housing the sign in button in the banner for prominence & keep the style consistent across the site.

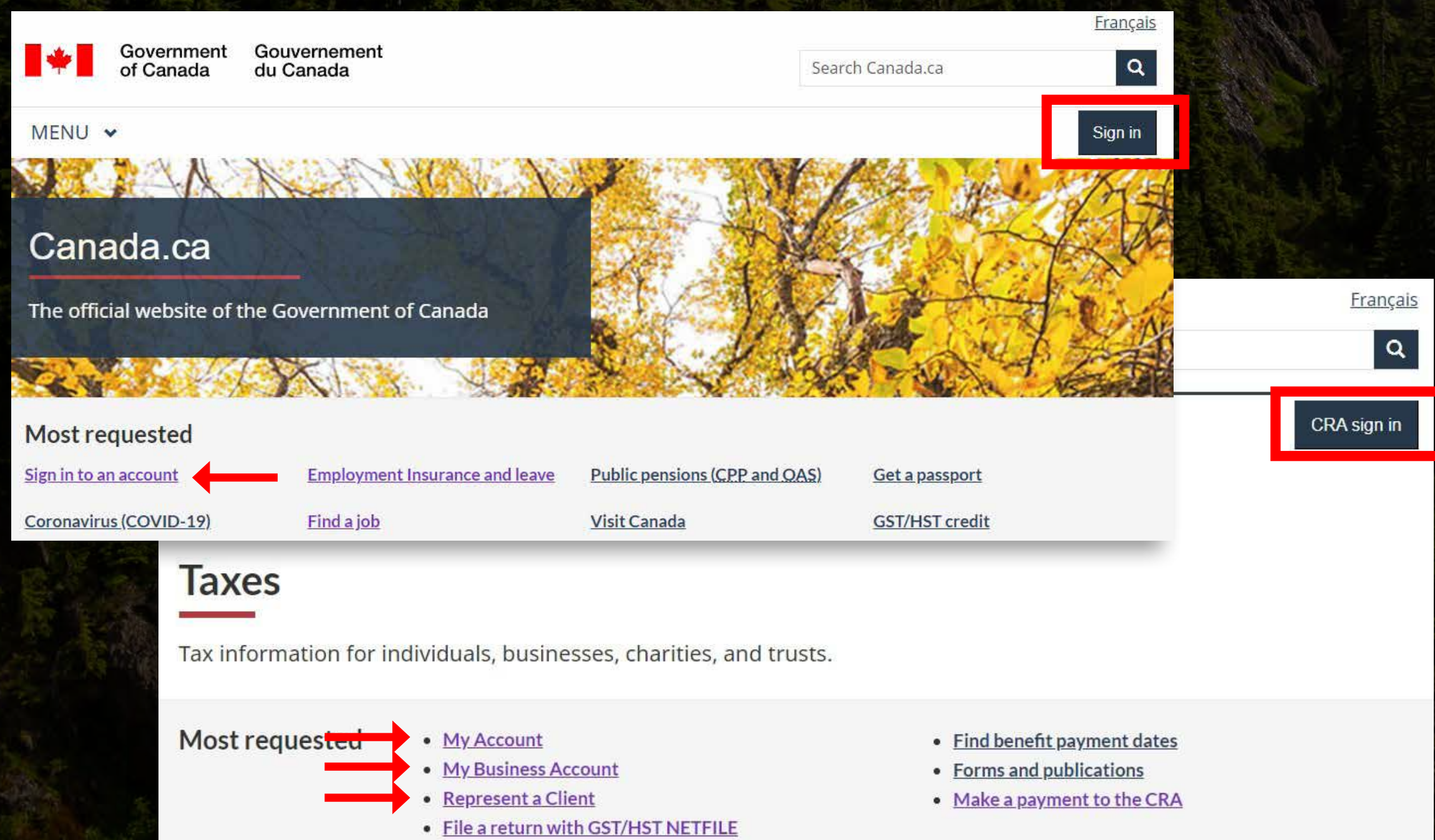


03 Sign in

Desktop | Initial Redesign

Before

- There are multiple sign in options for most departments.
- Sign in buttons are inconsistently found in multiple areas but don't stand out.



After

- Make sign in options more clear for users who are looking for the different sign in options.
- For each department, it should be more clear what specific sign in options are available.



User Testing Navigation

Insights

- Users appeared to have better navigation success with the redesign for both desktop and mobile.
- The combination of direct and indirect success rates means that the strategy of giving users multiple pathways to content was a good choice.
- Comments overall pointed to good comprehension of the IA.

Next Steps

- Refinements to the navigation include better colour contrast to improve readability and recognition.

[View testing results](#)

Desktop Sample results

Direct Success Testers who completed the mission via the expected path(s). 44.44% 4%	Indirect Success Testers who completed the mission via unexpected paths. 33.33% 3%	Give-up / Bounce Testers who left or gave up the mission. 22.22% 2%
Direct Success Testers who completed the mission via the expected path(s). 66.67% 6%	Indirect Success Testers who completed the mission via unexpected paths. 22.22% 2%	Give-up / Bounce Testers who left or gave up the mission. 11.11% 1%
Direct Success Testers who completed the mission via the expected path(s). 66.67% 6%	Indirect Success Testers who completed the mission via unexpected paths. 11.11% 1%	Give-up / Bounce Testers who left or gave up the mission. 22.22% 2%

Mobile Sample results

Direct Success Testers who completed the mission via the expected path(s). 28.57% 2%	Indirect Success Testers who completed the mission via unexpected paths. 71.43% 5%	Give-up / Bounce Testers who left or gave up the mission. 0% 0%
Direct Success Testers who completed the mission via the expected path(s). 85.71% 6%	Indirect Success Testers who completed the mission via unexpected paths. 14.29% 1%	Give-up / Bounce Testers who left or gave up the mission. 0% 0%
Direct Success Testers who completed the mission via the expected path(s). 71.43% 5%	Indirect Success Testers who completed the mission via unexpected paths. 28.57% 2%	Give-up / Bounce Testers who left or gave up the mission. 0% 0%

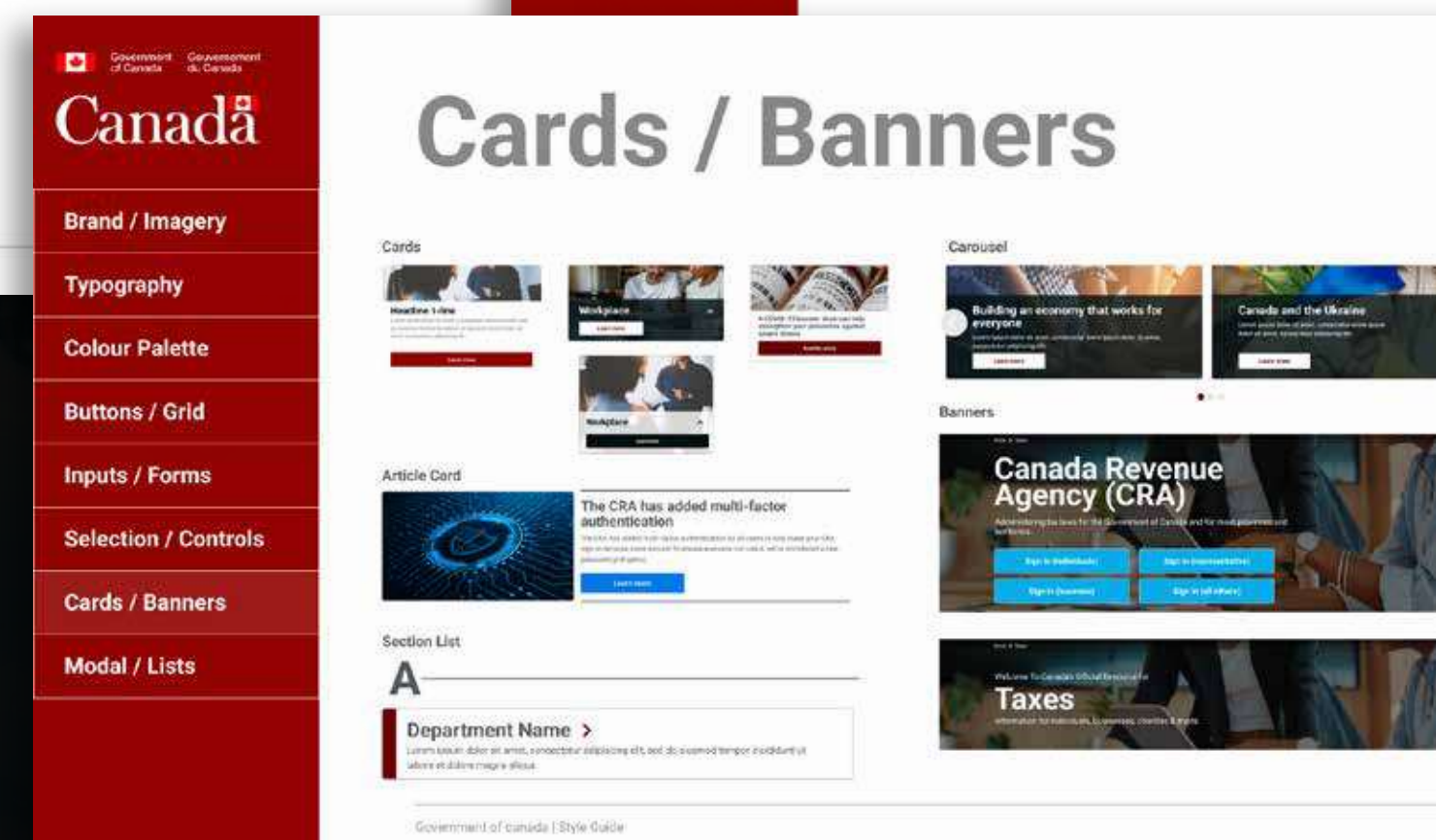
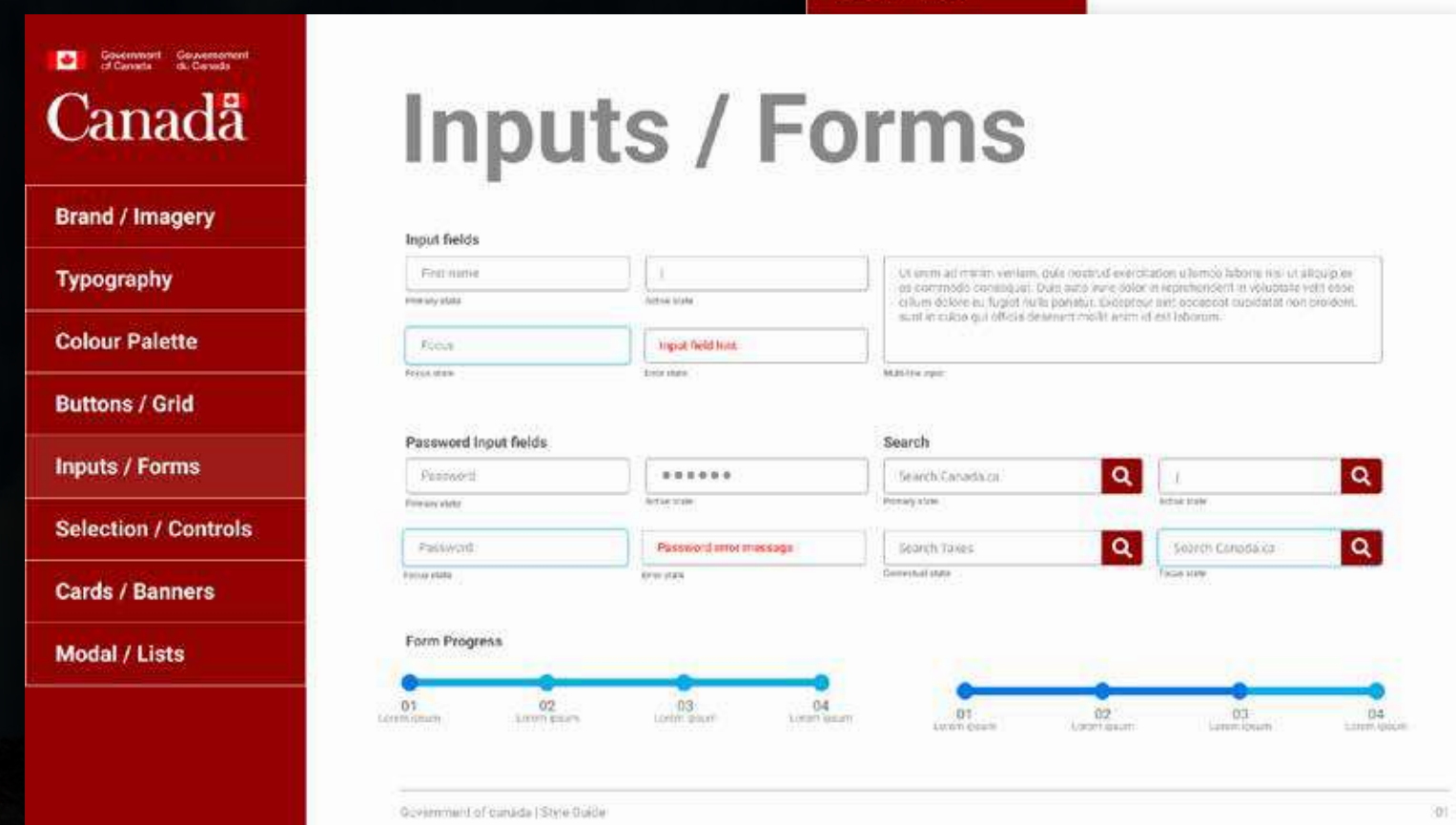
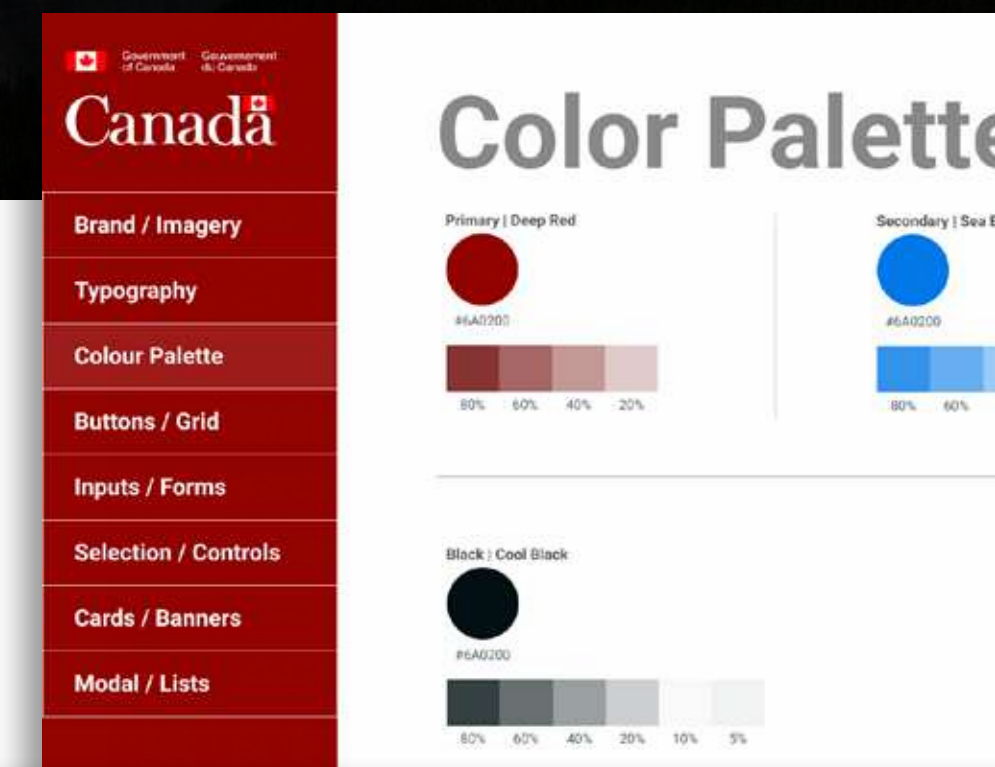
Style Guide

- Brand tone is decidedly Canadian featuring landscapes from sea to sky & and representative of all provinces and territories.
- Indigenous peoples and a multi-ethnic are the subject images that are inclusive.
- Clean flexible elements help establish content hierarchy and improve scannability.

Note: Guide will continue to evolve

[View style guide](#)

[View mood board](#)

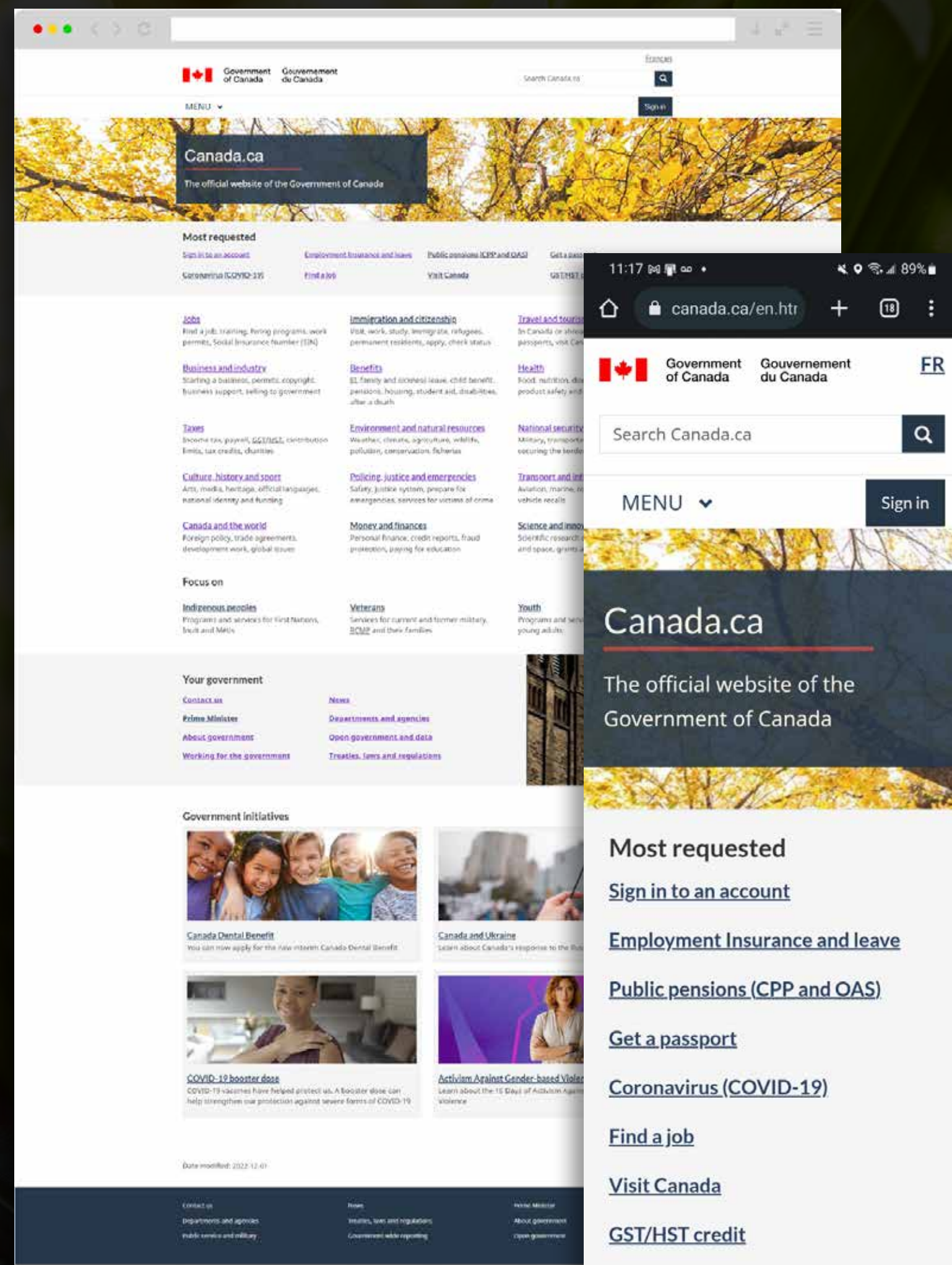


Prototype

Desktop Prototype

Mobile Prototype

Before

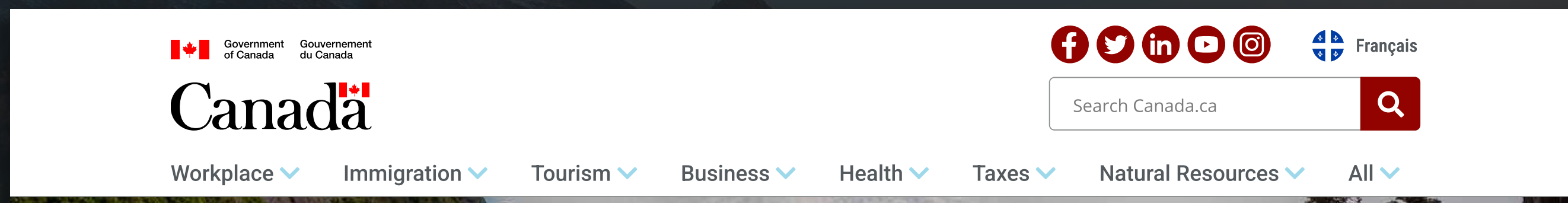


After



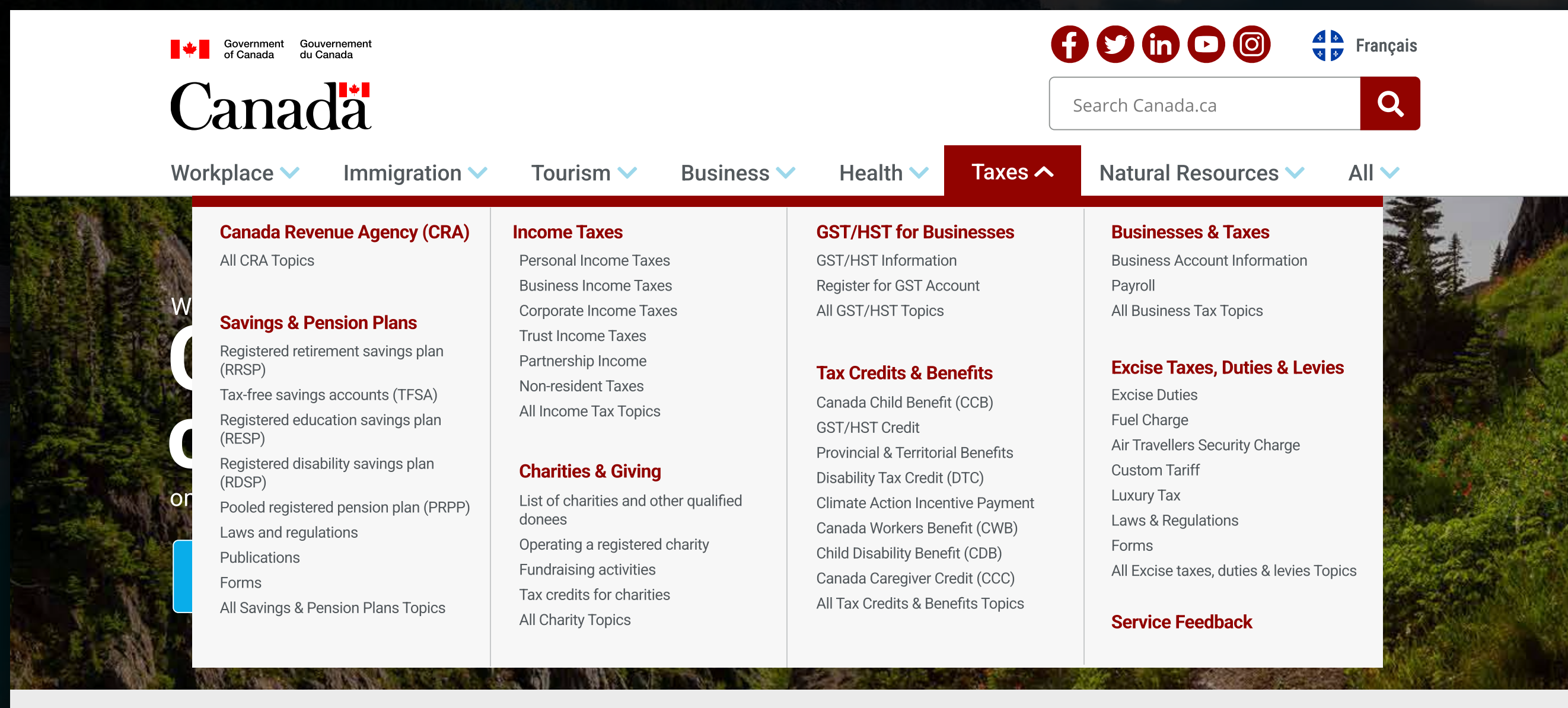
Prototype

Key UI Elements



Horizontal Banner

- Improves user recognition & discovery



Mega Navigation

- Improved recognition & content scannability

Prototype

Key UI Elements



Canada Revenue Agency (CRA)
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore dolor sit amet, consectetur adipiscing eli.

[Learn more](#)



A COVID-19 booster dose can help strengthen your protection against severe illness

[Read the article](#)




Building an economy that works for everyone
Lorem ipsum dolor sit amet, consectetur orem ipsum dolor sit amet, consectetur adipiscing elit.

[Learn more](#)



Indigenous peoples

[Learn more](#)



Building an economy that works for everyone
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Canada and the Ukraine
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[Learn more](#)

Cards

- Improved scannability, aesthetics.
- Different style cards for visual hierarchy.

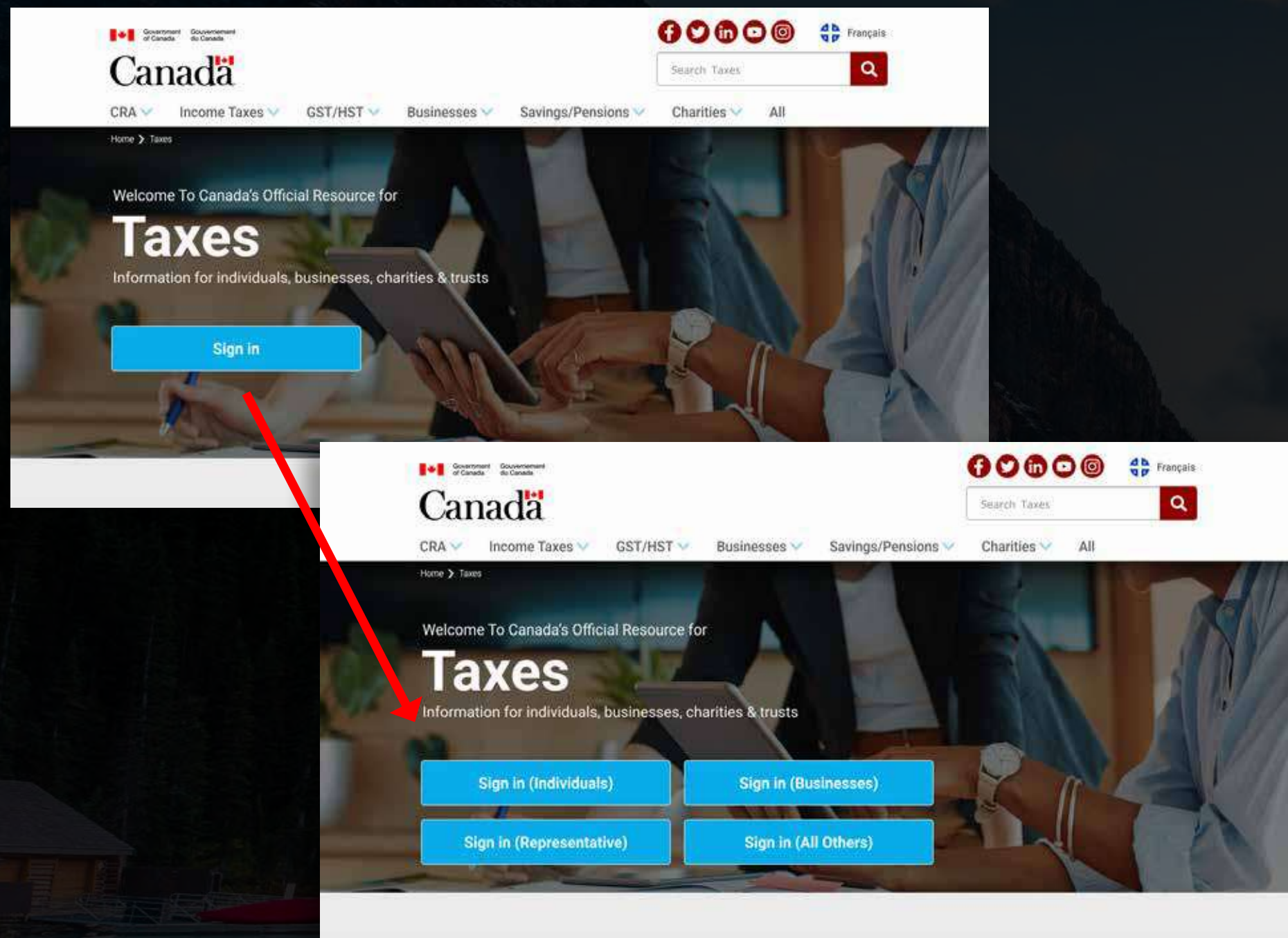
Carousels

- Provides access to additional content in a smaller vertical footprint.



Prototype

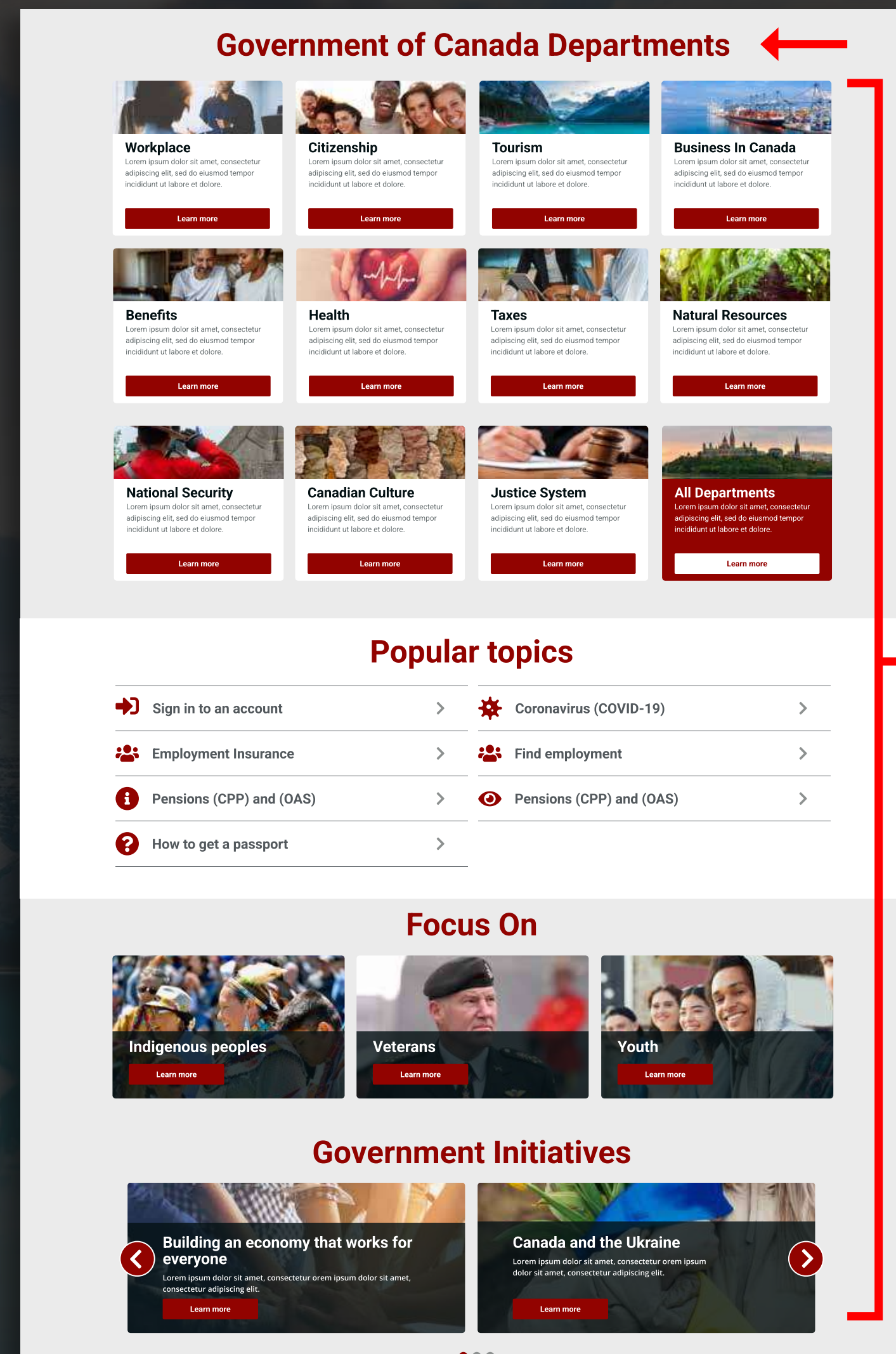
Key UI Elements



Sign in micro interactions

- Enhances recognition, reduces clutter

[View banner micro interactions](#)



Section Labels

- Improved recognition & visual separation

Content Variation

- Reduces user fatigue
- Establishes hierarchy

Summary

The power of Information Architecture is invaluable.

It provides a foundation for platforms with a large amount of content and is a compass for growth and guiding users.

The research, testing, analysis and prototype iteration cycle led to powerful rapid prototyping and resulted in a number of potential solutions.

Looking Forward

It might be worth exploring the treatment of each department like more of a micro site and, in turn enabling them to develop their own personality and optimized IA.

By doing that, the umbrella Government of Canada website could be treated as more of a portal and optimize its own unique IA.

Future exploration may include overhauling the search engine and keyword application to offer users more useful search results.