



Forestry Digital Services and upcoming changes to SPAR

Forestry Suite of Applications
Modernization Program

Introduction

The Forestry Suite of Applications monolith database comprises of over 50 legacy applications that are near or at the end of their lifecycle, and no longer meet the needs of the business or users. This highly integrated and complex database is critical to the management and operations of the forest industry in BC.

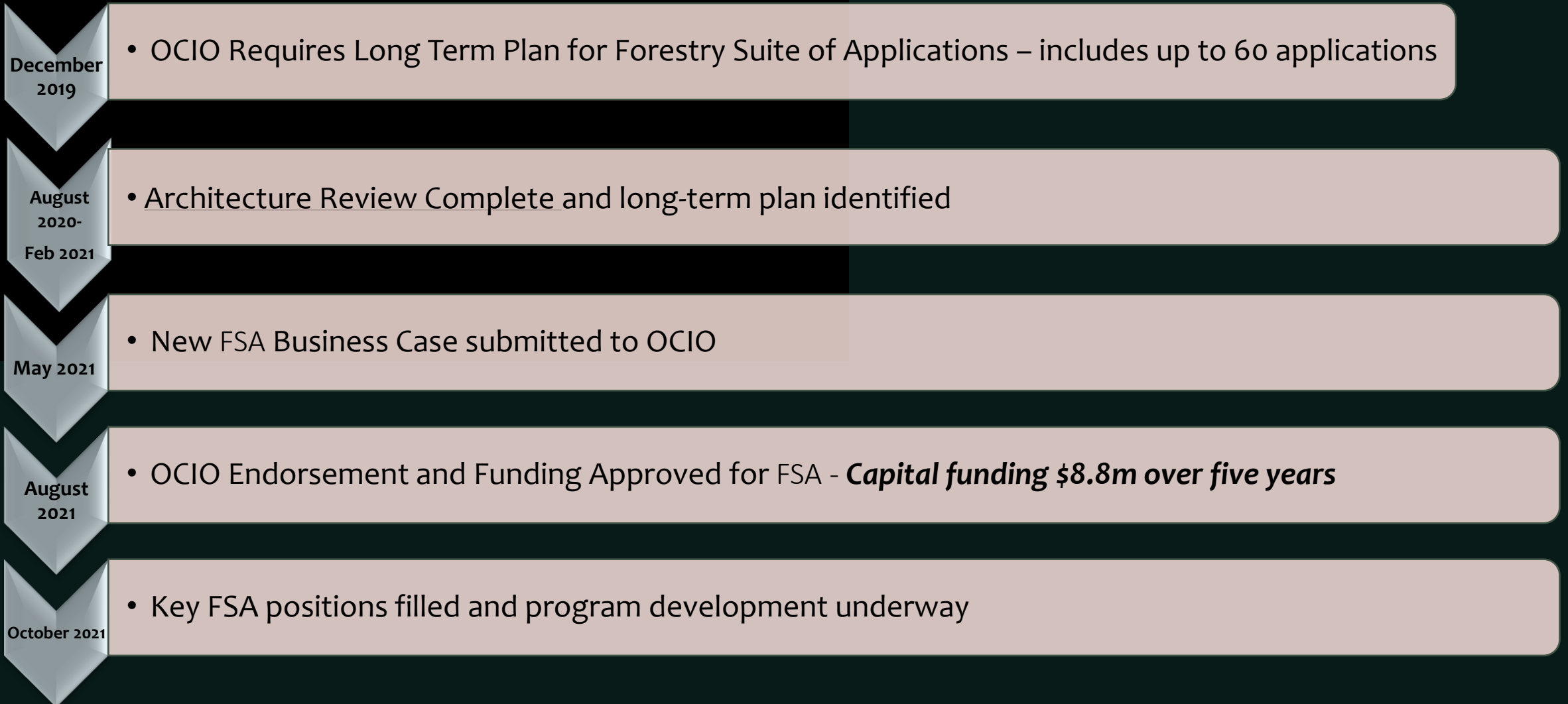




Background

FSA Program

How did we get here?



FSA Transformation - Drivers



FSA is critical to the Forestry Industry and Provincial Revenue



Tight integration of application data impedes responsiveness to business needs



Outdated technology and depleted knowledge increases risk to stakeholders



Sequential “waterfall” delivery model is costly and slow



Revitalization of the strategic IT vision for the FSA is needed



Forestry Digital Services

FSA Program

Forestry Digital Services FSA Program vision



To build sustainable and modern digital services that supports the BC Government in forest-based initiatives, and to transform the Forestry Suite of Applications (FSA) into digital products and services that will better serve and align with the strategic mandates of the Ministry.

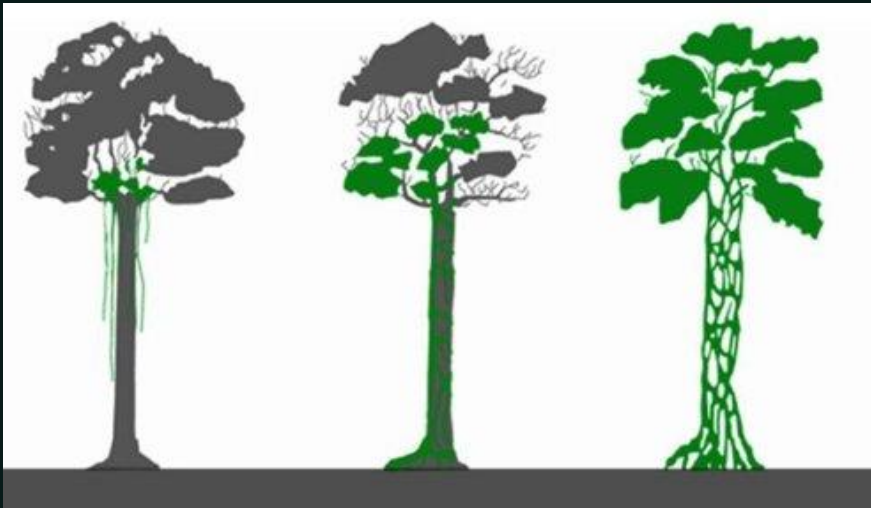
Forestry Suite of Applications Program – Product-Level teams



FSA BLOG:

<https://apps.nrs.gov.bc.ca/int/confluence/pages/viewrecentblogposts.action?key=FSAAR>

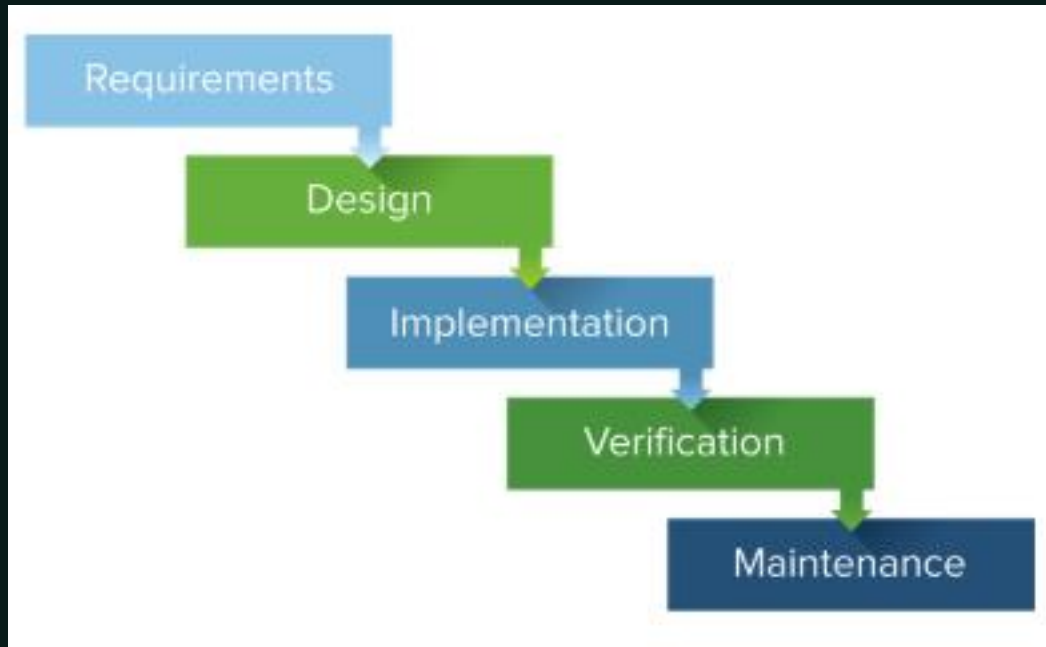
FSA Methodologies and Strategies



*“Strangler Fig Pattern”
Gradually and incrementally growing a
new system around the edges of the old.*



Delivering Value Iteratively



Traditional

- Value delivered once, at the end
- Sequential, linear phases
- Known, unchanging scope and risks
- Adherence to a plan



Agile

- Flexible and continuous planning
- Iterative delivery cycles
- Customer feedback and involvement
- Welcoming change

What is service design?

The practice that improves services by examining the “total experience”, rather than separate parts of the service.



Principles of service design

Human
centred



Co-creative



Sequencing

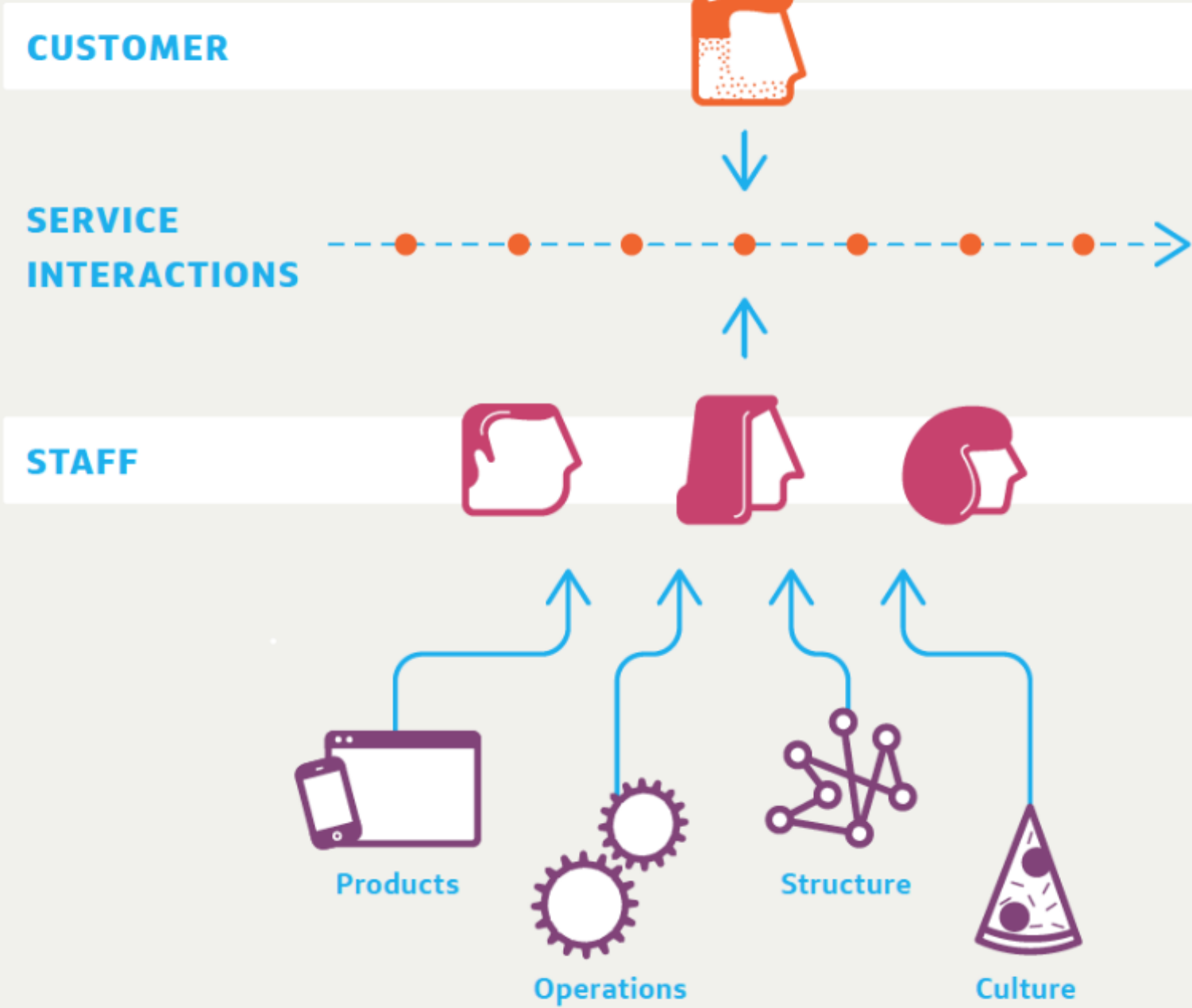


Evidencing



Holistic





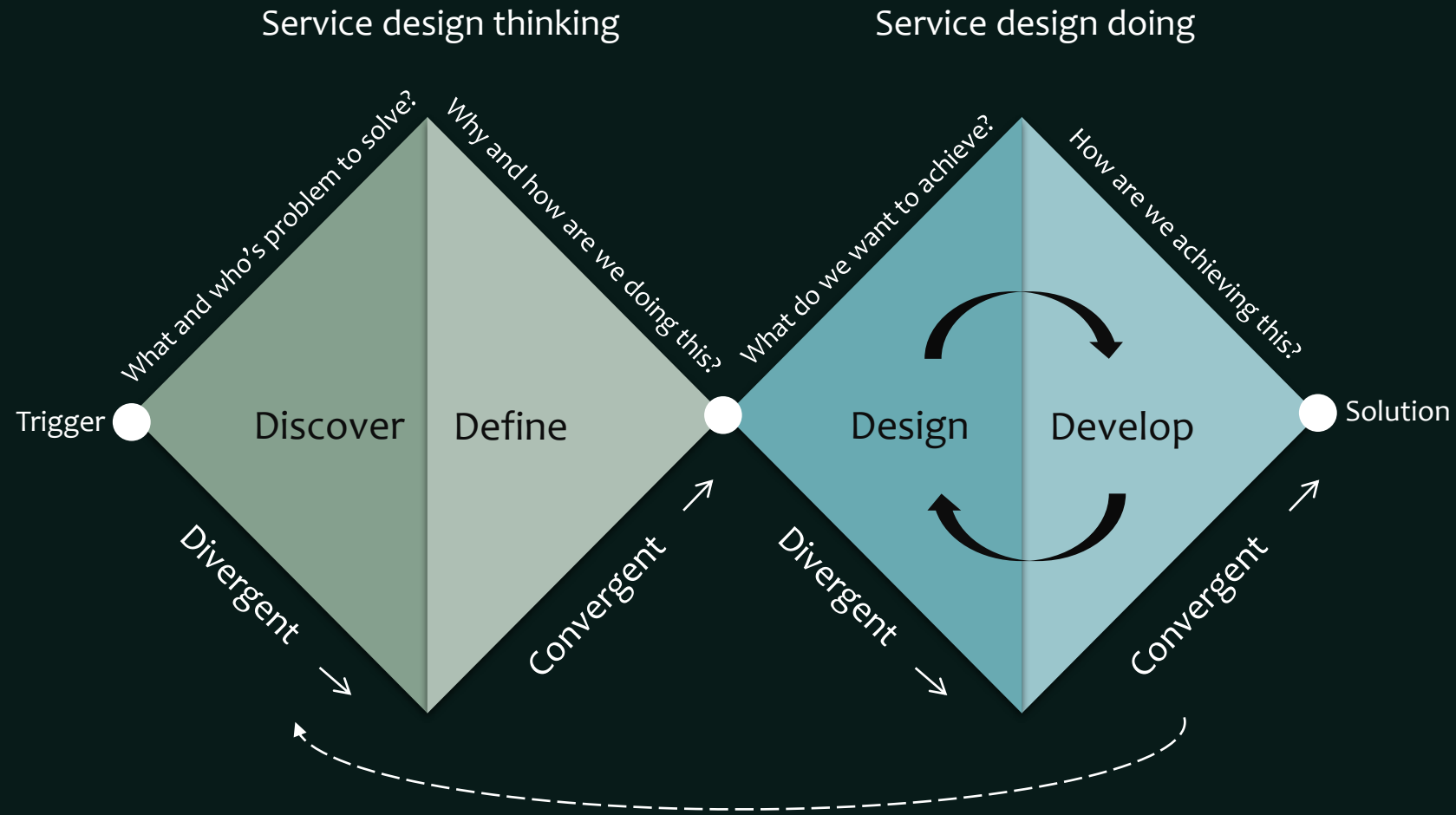
Why use a service design approach?

Build the right thing

- What our users want
- What the business needs
- What IT desires
- What our peers/industry are doing? Trends?

Service design process

Gather information about user needs, pain points and current state.





User Research

Field Trip

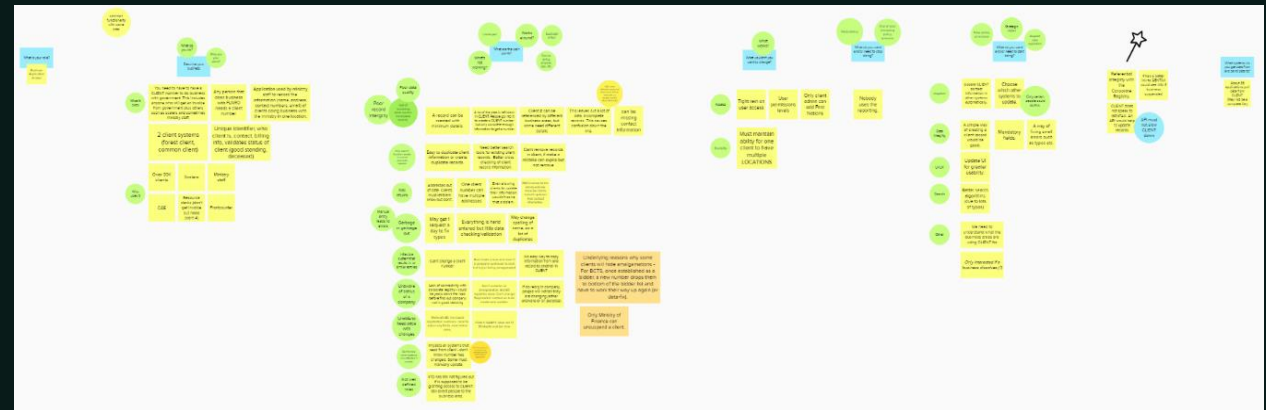
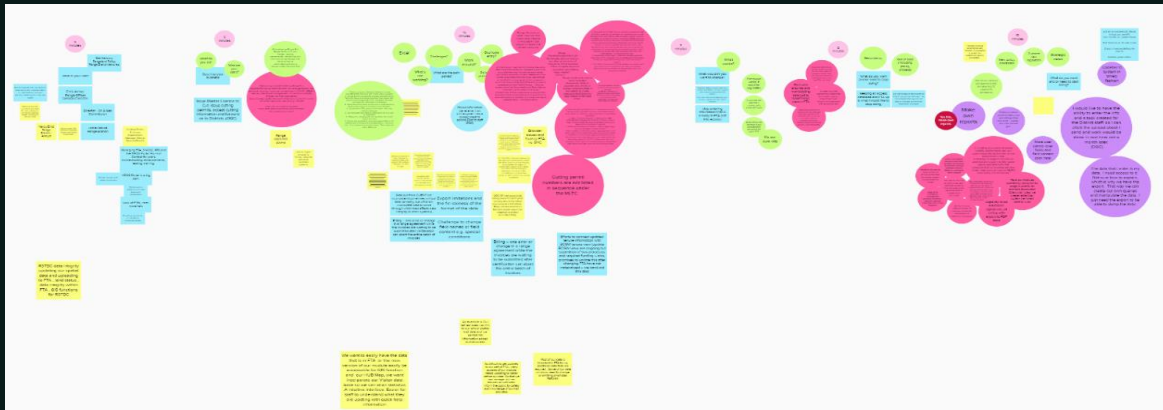
User Research





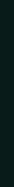
Prioritization criterion

- Strategic value
- Efficiency
- Urgency
- Feasibility
- Desirability

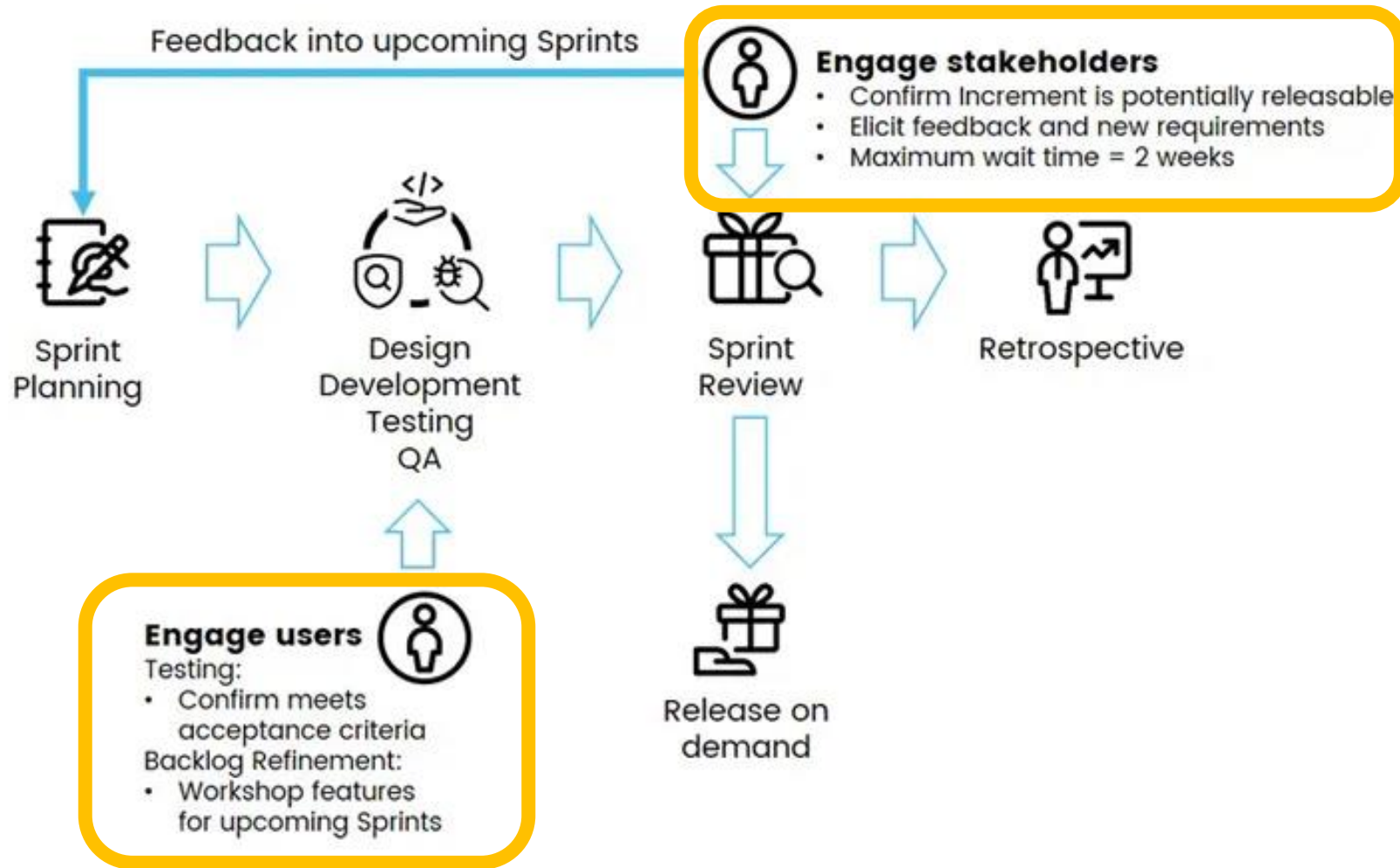




User Engagement



User Testing in Scrum



National Forest Week

- ▶ [Timber Supply Review and Allowable Annual Cut](#)
- ▶ [Sustainable Forest Management Practices](#)
- ▶ [Forest Inventory](#)
- ▶ [Forest health](#)
- ▶ [Old Growth Forests](#)
- ▶ [Soil conservation](#)
- ▶ [Forest Stewardship Plans](#)
- ▶ [Forest Landscape Plans](#)
- ▶ [Wildfire Management](#)
- ▶ [Integrated Resource Monitoring](#)
- ▶ [Silviculture](#)

Seed Planning and Registry Application (SPAR)

SPAR is a web-based information management system. It provides clients with direct online access to:

- A Provincial Registry of Forest Tree Seed
- A comprehensive seedling request system for meeting annual reforestation needs

To learn more about upcoming changes to the Seed Planning and Registry, please visit the [Forest Suite Application Modernization Program and SPAR webpage](#)

Main components

SPAR and Climate Based Seed Transfer

- [SPAR Release Summary August 18th, 2022](#)
- [SPAR Release Summary March 28th, 2022 \(PDF, 141KB\)](#)
- [Memorandum: Next Phase of Transition to Climate Based Seed Transfer \(PDF, 138KB\)](#)

Access SPAR

[Open the SPAR application](#)

Top FSA Applications



1. CONSEP + SPAR

2. CLIENT

3. FOP

4. RANGE

5. ESF

6. RESULTS

7. ECAS + GAS

8. LEXIS

9. FREP

10. WASTE

11. FTA

12. HBS

13. GBMS

14. SCALING

15. FSP

Seedlot Registration Discovery Phase

- How is seedlot registration is currently done?
- What are the barriers?
- What can be done to improve the user experience?

Define phase



- Getting ready to harvest the crop
- I'm concerned about using the system after so long
- Had a bad experience using SPAR before

- Start a new seedlot registration in SPAR
- I need to be very careful when filling in these inputs
- I always need to check the data in my spreadsheet.

- Harvest the cones, they're cleaned and stored in bags
- Schedule cones' shipment
- I hope this year crop be good!
- Scheduling the shipment to the agency could be easier

- Search the seedlot number in her documents or spreadsheet
- It's hard to decipher the form's filling order and how the inputs should be filled
- Improve the registration's flow and make inputs easier to fill



OWNERSHIP

- Declare the seedlot's ownership and % of seeds in reserve or surplus
- This is a quick and easy step to do

• I can lose all the data if I leave this page now without saving it first



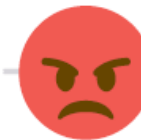
STATUS CHANGE

- Manually changes the status from "Incomplete" to "Pending"
- Parent tree contribution can only be accessed with pending (or above) status
- I don't know why I have to do this, but that's how the registration works today



PARENT TREE CONTRIBUTION

- I feel like this should be improved
- This is the WORST part of the process!
- This is very time consuming and this table should be easier to fill
- Additionally, this table has memory errors!
- Why is the parent tree list empty? Oh - I need to save the form first
- Argh, where did I go wrong this time? I knew this would be painful to do!
- I always get confused on which button I should click to save and continue the registration



INTERIM CONE STORAGE

- Some sections were automatically filled by the system
- Need to have the exact start and end date of the storage
- It's all done, this is the end of my responsibilities, I'm glad this is over!



STATUS CHANGE

- Manually changes the status from "Pending" to "Submitted"
- Why do I need to change the status before accepting the declaration?
- The agency will finalize the form now



ACCEPT DECLARATION

- Check the checkbox to accept the declaration
- I need to save the form with the new status so the changes can be applied
- I just need to accept the declaration and it's all done!



SEEDLOT IS LIVE

- The seedlot is approved when the tests are done
- The TSC will review the form and its content
- Status changes from "Submitted" to "Approved"
- Seedlot is live on SPAR

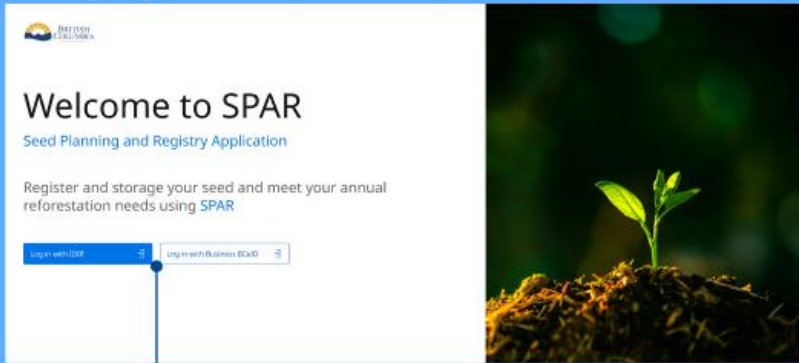


Solutions

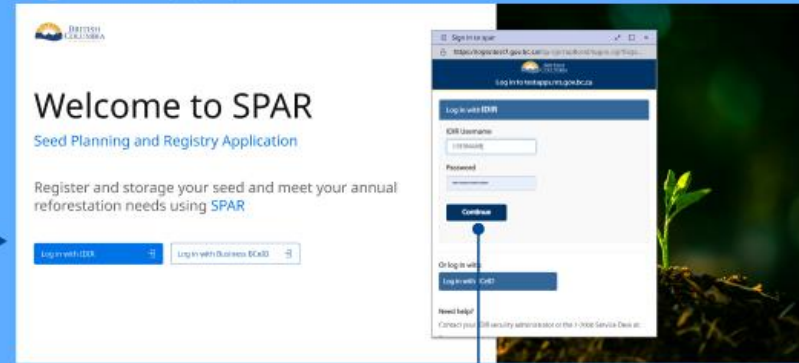
- Autosave
- Informative system feedback
- New forms with helper text and placeholders
- New intuitive workflow and organization

New FSA Design System

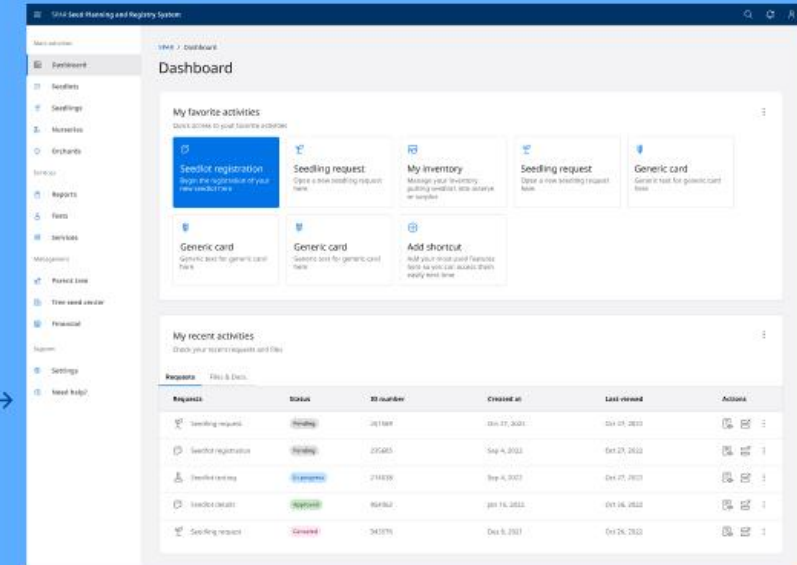
Landing Page



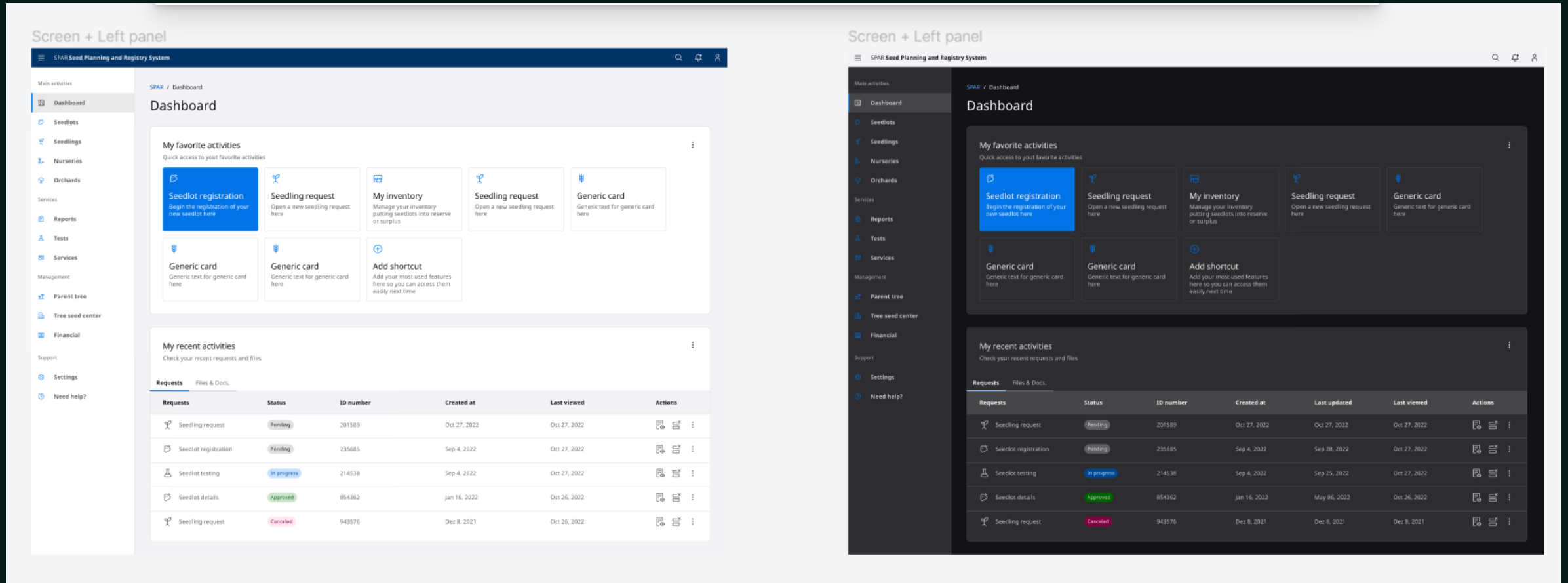
Login with a popup



Home screen



Design System





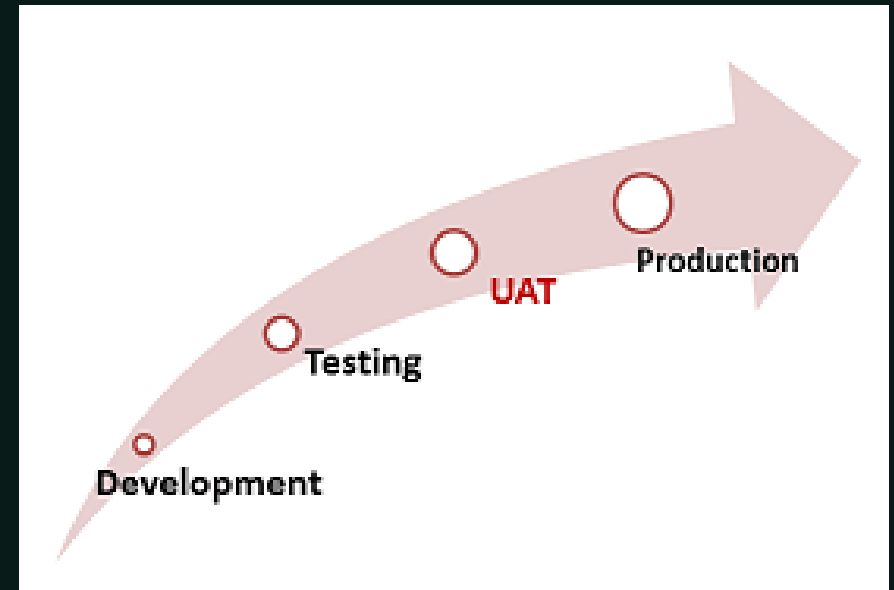
Let's check out some of the new
screens!



User Acceptance Testing (UAT)

What does it look like?

- Purpose is to validate business flow
- It does not focus on cosmetic errors, spelling mistakes or system testing
- carried out in a separate testing environment with production-like data setup
- Performed by clients and end users
- Iterative!



User testing of the seedlot registration screen

- Proto-type screens and workflows are nearing completion
- Back-end (the data links and code) currently under development
- Proto-type testing will begin in roughly 2-4 weeks
- Testing/feedback is iterative and will re-occur approximately every 3 weeks

To participate in testing please sign up!!

- <https://www.surveymonkey.com/r/6GRKWFG>

Thank you

How you can get more involved and aware of what is happening within the FSA program?

-Monthly “Road Maps and Bridges” meeting open to anyone that wants to attend

FSA Program Space

-[Forestry Suite of Applications - FSA - Forestry Suite of Applications - Confluence \(gov.bc.ca\)](#)

-[Forestry Digital Services – Forestry Suite of Applications - Natural Resource Information and Digital Services \(gov.bc.ca\)](#)

FSA Program Video

For any additional questions, please contact:
FSAModernizationProgram@gov.bc.ca