

Food Standards Scotland

Digital and Data Strategy



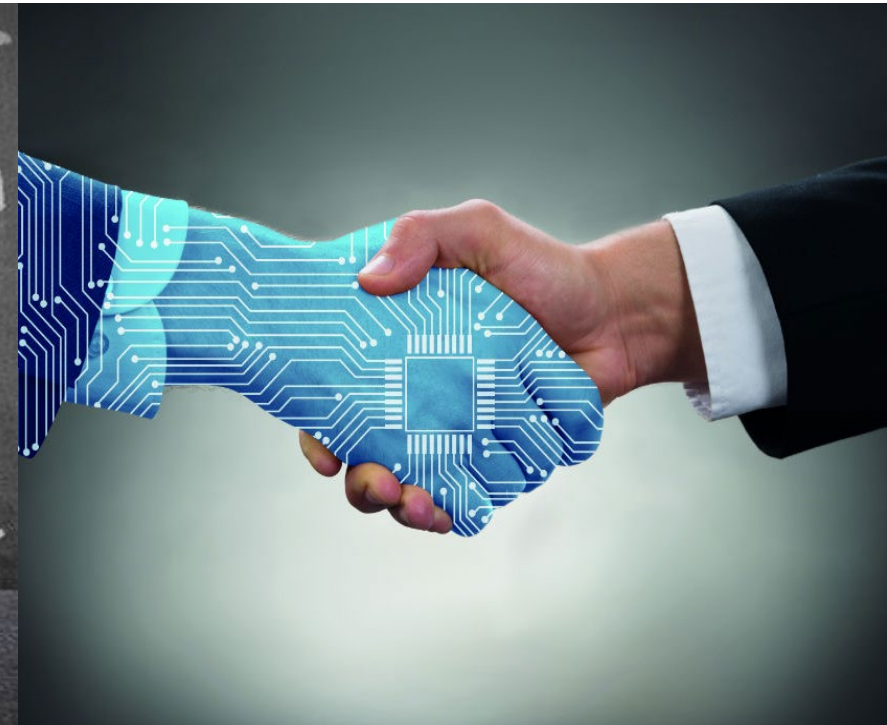
Background / Rational



More work to be done than head-count / budget supports



Scope to improve organisation data to inform decisions



Poorly positioned to take advantage of modern/future tech.

FSS Commitments



From Food Standards Scotland 2021-26 Strategy

Mission: “to be Scotland’s leading authority on food safety, standards and healthy eating; **using data and evidence** to provide assurance and advice that inspires consumer confidence and improves public health.”

Goal 3: “A **research and data science capability** which enables us to detect risks, monitor public health trends and consumer behaviours and translate evidence into action.”

From Food Standards Scotland Corporate Plan (Goal 2, Key Activities)

“Embedding **digitalisation and technology** into our Regulatory Strategy to provide a cohesive approach to the development of FSS-wide IT systems which allow us to record, monitor and target official control activities across all food and feed industry sectors

Developing appropriate tools and guidance which help businesses in Scotland to comply with food and feed law based on an understanding of the needs of different sectors and their barriers and motivators to compliance”

Our Digital and Data vision

“To be digitally enabled, data-driven and support the delivery of our 5 year strategy which underpins Food Standards Scotland as being a evidenced-based organisation”

Understanding our current landscape

Discovery Workshops:

Cross-branch, cross-functional workshops (including central Scottish Government Information and Technology Services – ‘ITECS’)

Branch-specific engagements

Informal digital forum

Scottish Government-wide best practices for digital & data

Proposed Direction of Travel

FROM:

Manual, “rear-view mirror”, periodic reporting only



TO:

Automated dashboards.
Answer questions in real time.
Advanced / predictive analytics

Disconnected applications; varying levels of effectiveness/ ease of use



Modern, user-centric apps, enabling new ways of working. Built on common platforms

Slow, costly projects for new / modifications to IT apps



Agile approach to solution development. Using blend of in-house, contract & vendors

Staff time spent on manual processes



Repetitive processes automated.
Staff spend time on higher value activities

Dashboard

Filter data

Date

Local Authority

Food Categories

Food category
Drinks

Select a sub-category

FSS Surveys

Country of Origin

Overall Sample Result

Apply Reset

Download data

Links
Performance Reporting
Query Tool

1,100
Unique samples

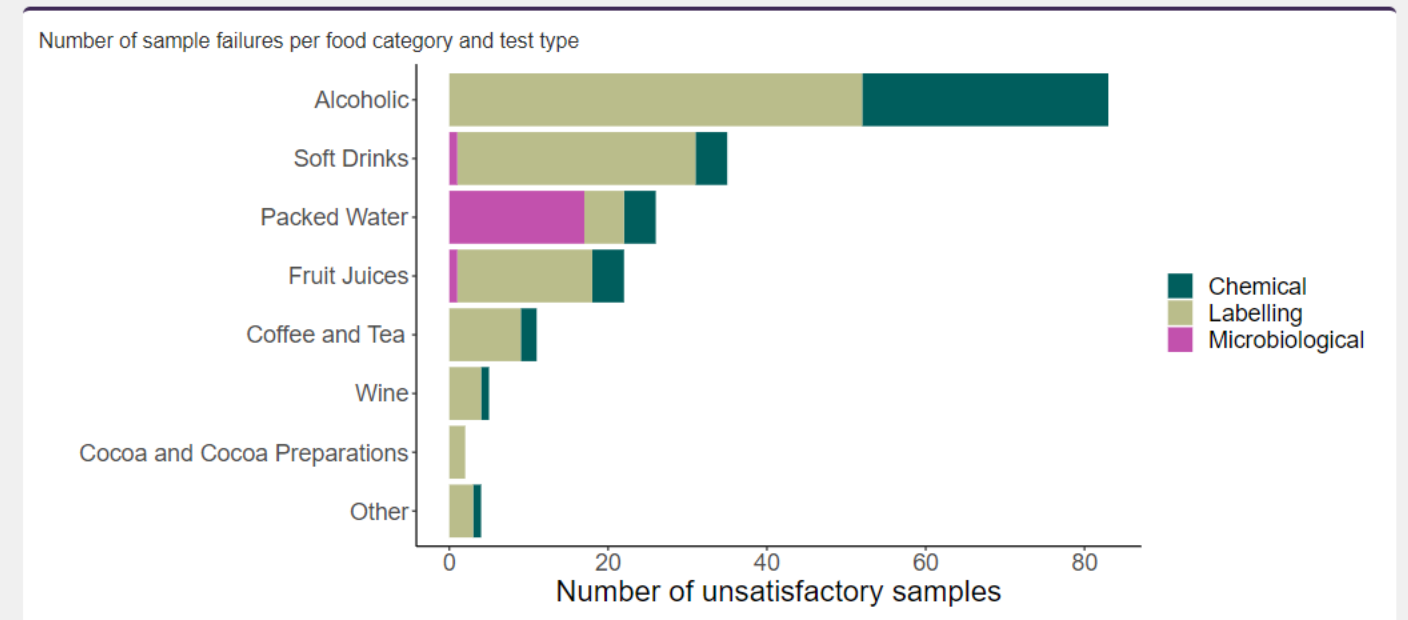
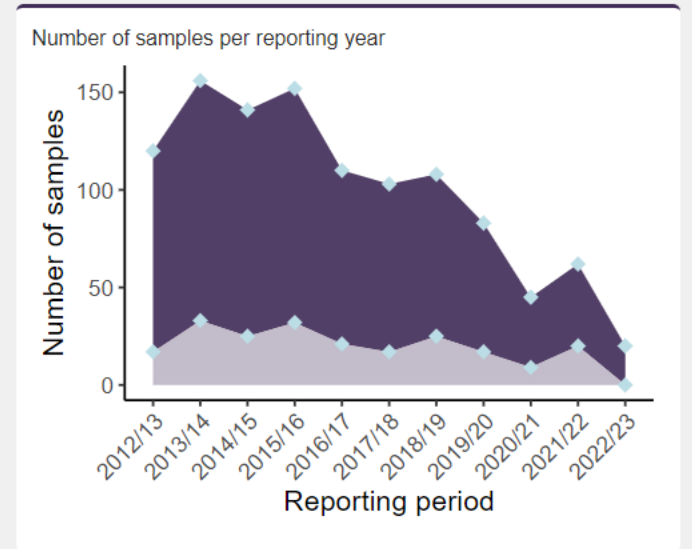
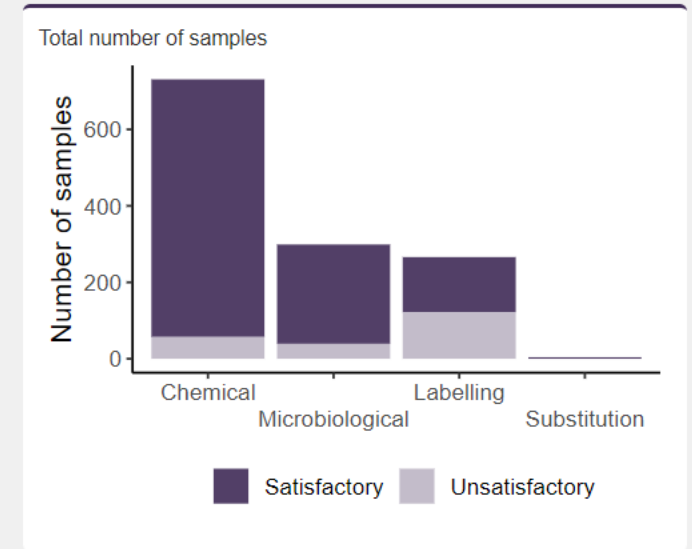
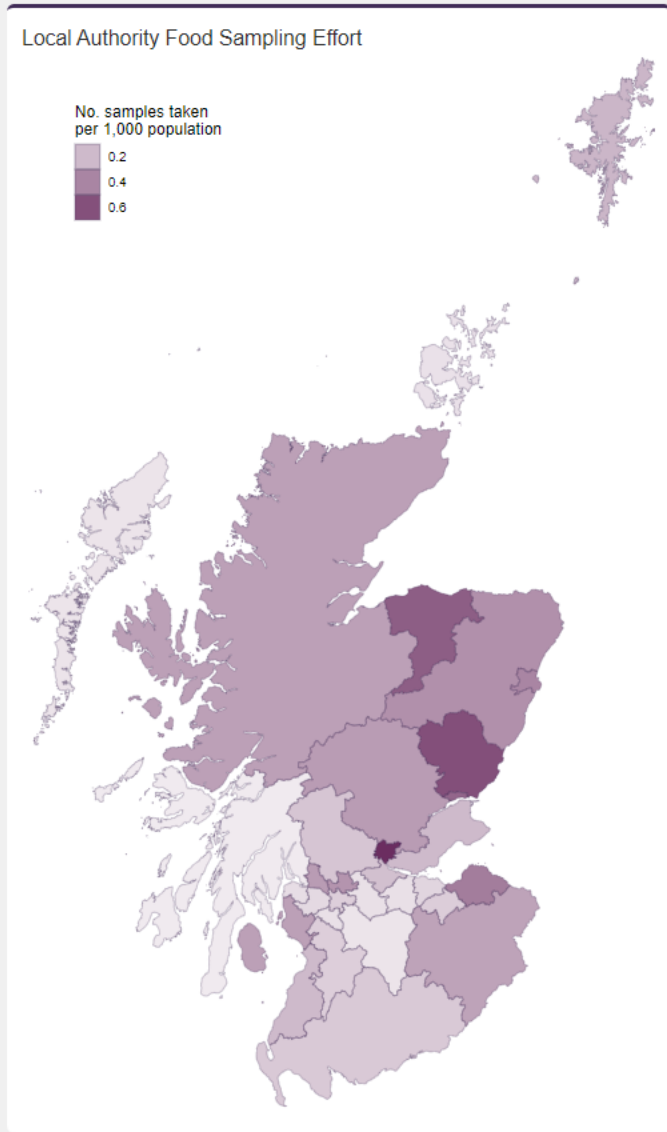
731
Chemical samples

299
Micro samples

4
Authenticity samples

266
Labelling samples

0
Allergen samples



(Data for illustrative purposes only)

Results of Proof of Concept work to date

Saves time



>5 months



Click of a button

Cost effective



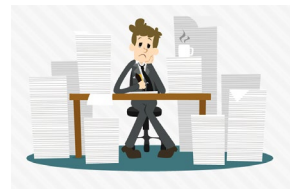
+£20,000 saved

Spend time on higher value task



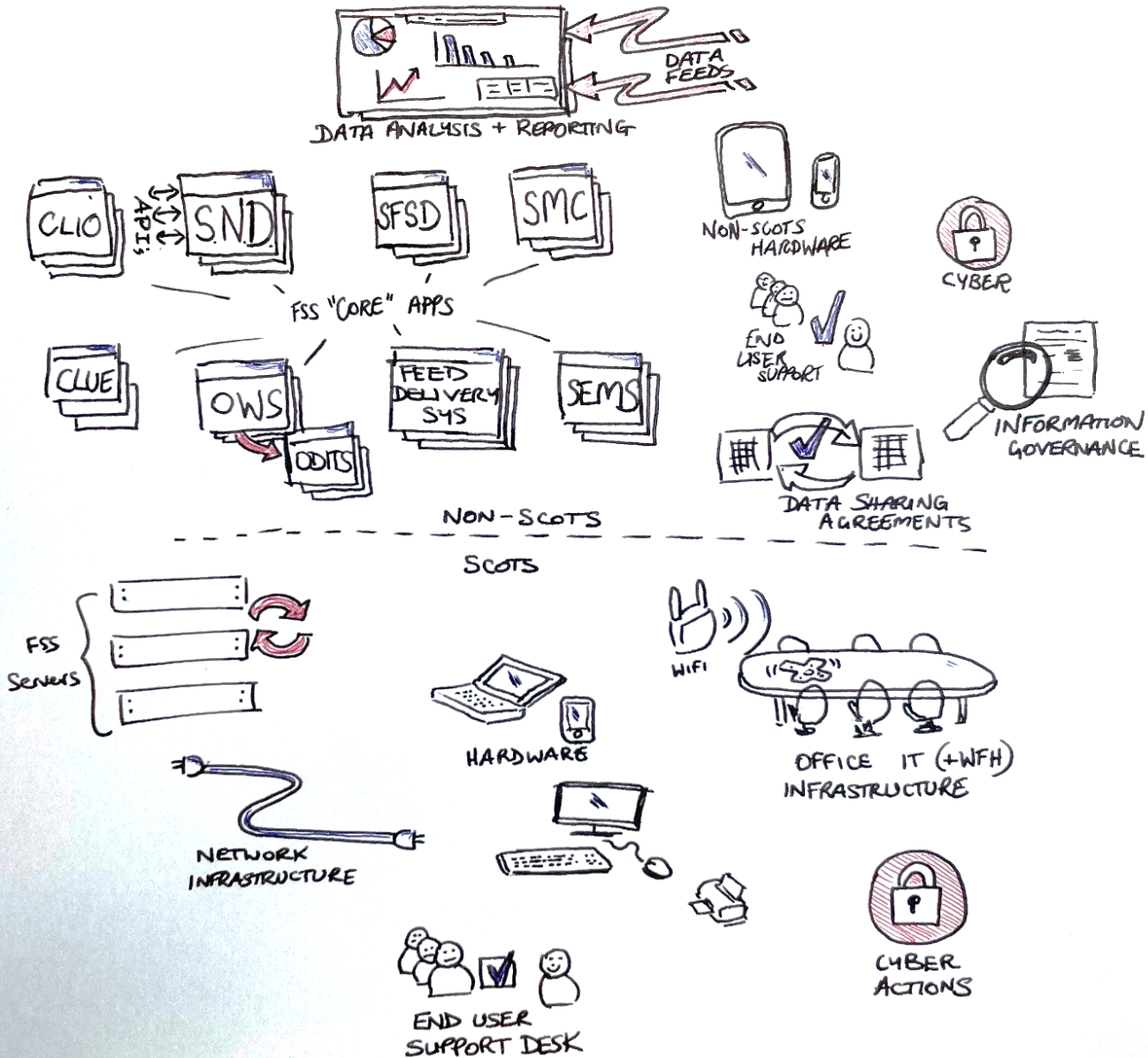
Higher value tasks

Reproducible/Auditable



Real time insights and visualisations to leverage data

Maintain current operational functionality



Ensure availability and security of current IT infrastructure.

Continue to provide business critical data science support across FSS.

3 Key Pillars



Digital Transformation



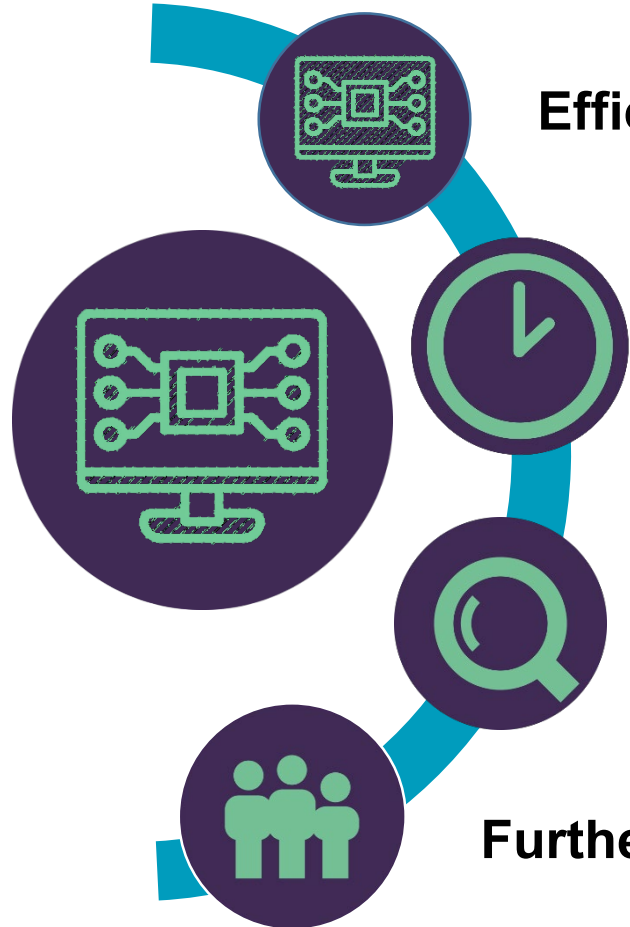
Putting our data to work



Governance

Organisational
Change Management

Digital Transformation



Efficiency, agility and consistency through common systems platforms

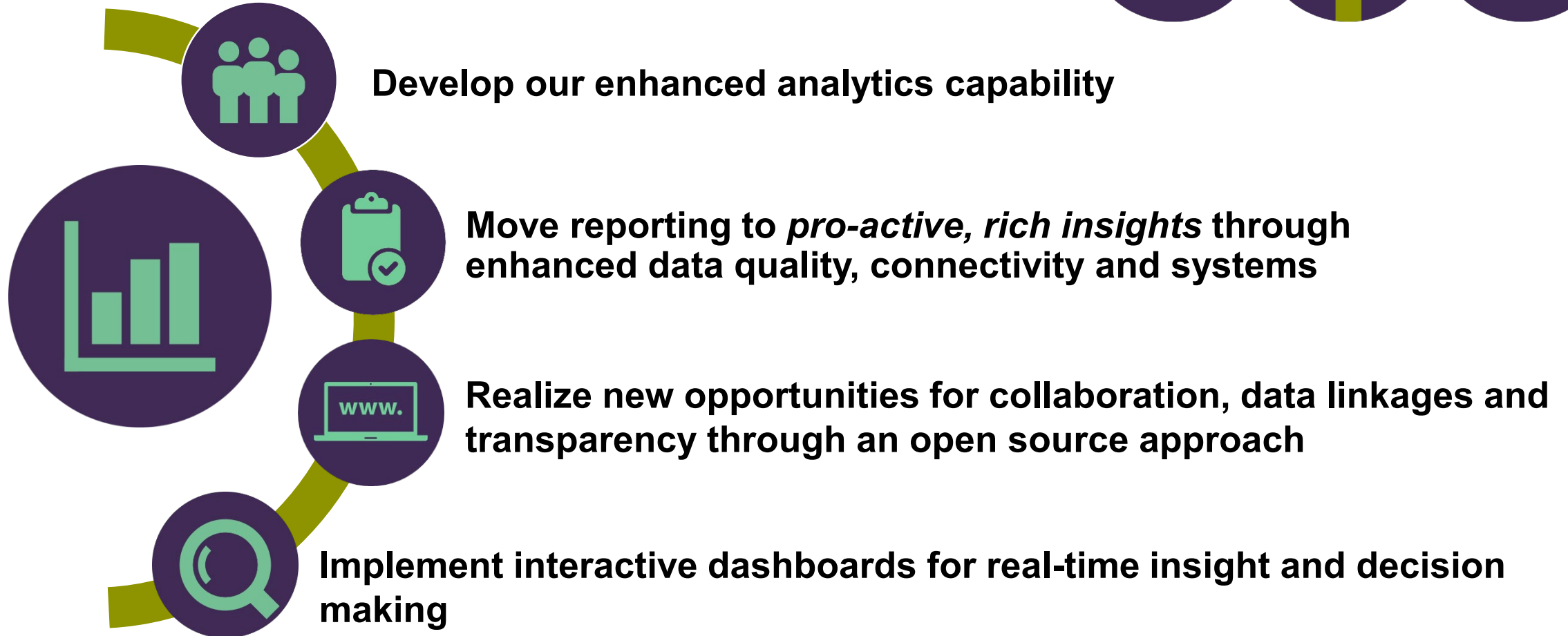
Rapid deployment and modification through in-house capabilities

Leverage emerging technology through horizon scanning and pro-active branch-level engagements

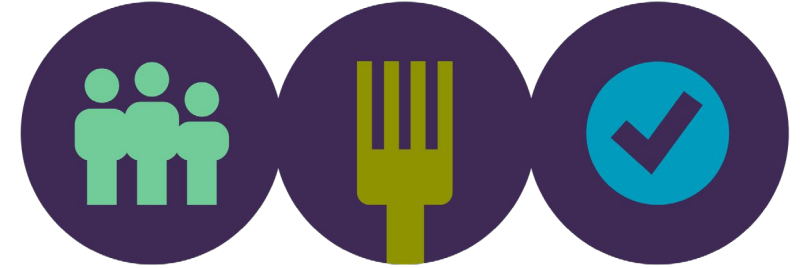
Further build workforce capabilities through Digital Skill building



Putting our data to work



Governance



Prioritise projects and resources across ALL FSS digital projects via steering board

**Consistency of approach through governance for digital projects
(Use simple Agile framework)**

**Ongoing engagements with third parties for sharing best practices
& data**

Simplified Timeline

Foundations

- Resources
- Technology
- Governance
- Standards

Implementation

- App Ecosystem (CORE)
- Dashboards & Automation
- Advanced Analytics
- Data & Digital Skills

Evolution

- Horizon scanning
 - External-facing Apps
 - Open Data
-

Digital tools required

Currently Available	Required
<ul style="list-style-type: none">• “R” Statistical package (with limited functionality)• Excel	<ul style="list-style-type: none">• Data analysis platform with fully functioning statistical tools• Low code statistical tools for Science/Nutrition teams• Cloud database & application tools• Open data portal• Client Portal(s) & connectors to our cloud databases

Upskilling and Culture Shift

Continued development of the digital skills across FSS workforce

Change management will be key, supporting new ways of working

Next Steps

Details discussion with ELT

Proposals / approvals / decisions to Board

Key Projects being progressed

Real-time dashboards for: SFSD (Food Sampling Database), Operations and Incidents

Advanced data analytics: Imports and Surveillance

Fish Hubs Data Capture Application

LA Blueprint and Food Business Portal concept work

Operations Workflow System / ODITS (Operational Delivery IT System)

Core FSS Cloud Infrastructure, Tools and Security

Preparations for new Microsoft Office 365 toolset

Upskilling Digital team and planning for FSS wide digital skills

Drafting and implementing Governance

Questions





Supplementary slides

Example dashboard screenshots

(all data for illustrative purposes only)

Not specified | 0 1000 2000 3000 4000
Number of unsatisfactory samples

 Download table

Show 25 entries

Search:

FoodDescription	FoodCategory	Pass/Fail Labelling	Pass/Fail Chemical	Pass/Fail Substitution	Pass/Fail Microbiological	Pass/Fail Contamination	Unsatisfactory Test Substances	Satisfactor
BUTTER BEANS IN WATER	Fruit and Vegetables	Satisfactory	Satisfactory	Not tested	Not tested	Not tested	None	Drained W or comme
BRITISH SLICED CARROTS IN WATER	Fruit and Vegetables	Satisfactory	Satisfactory	Not tested	Not tested	Not tested	None	Label (pre Drained W
WHOLE GREEK QUEEN OLIVES IN BRINE	Fruit and Vegetables	Satisfactory	Satisfactory	Not tested	Not tested	Not tested	None	Drained W or comme
SCOTTISH BLOSSOM HONEY	Others	Not tested	Satisfactory	Satisfactory	Not tested	Not tested	None	Moisture, Glucose, Acidity, Ins Other, Hyc Conductiv Activity, G Total Redu
SET SCOTTISH								Moisture, Glucose, Acidity, Ins

Showing 1 to 25 of 62,677 entries

Previous 1 2 3 4 5 ... 2508 Next

Links

Performance Reporting

Query Tool

Quarterly Performance Reporting

Annual Reporting

This feature is still under development

Select the reporting year:

2022/2023

Manual input Upload csv

Sampling Priority 1

Microbiological

FSS222301

E. coli

Enter a survey description

Sampling Priority 2

Select a test type category

Select the survey code(s)

E. coli ✓
Salmonella

Enter a survey description

Sampling Priority 3

Select a test type category

Select the survey code(s)

Select the relevant test substa

Enter a survey description

Sampling Priority 4

Select a test type category

Select the survey code(s)

Select the relevant test substa

Enter a survey description

Sampling Priority 5

Select a test type category

Select the survey code(s)

Select the relevant test substa

Enter a survey description

Sampling Priority 6

Select a test type category

Select the survey code(s)

Select the relevant test substa

Enter a survey description

Sampling Priority 7

Select a test type category

Select the survey code(s)

Select the relevant test substa

Enter a survey description

Sampling Priority 8

Select a test type category

Select the survey code(s)

Select the relevant test substa

Enter a survey description

Sampling Priority 9

Select a test type category

Select the survey code(s)

Select the relevant test substa

Enter a survey description

Links

Performance Reporting

Query Tool

Quarterly Performance Reporting

Annual Reporting

This feature is still under development

Select the reporting year:

2022/2023

Manual input Upload csv

Upload CSV file

Browse... Sampling priorities 2020-2021.csv

Upload complete

Generate document