Australian Government
Department of Agriculture

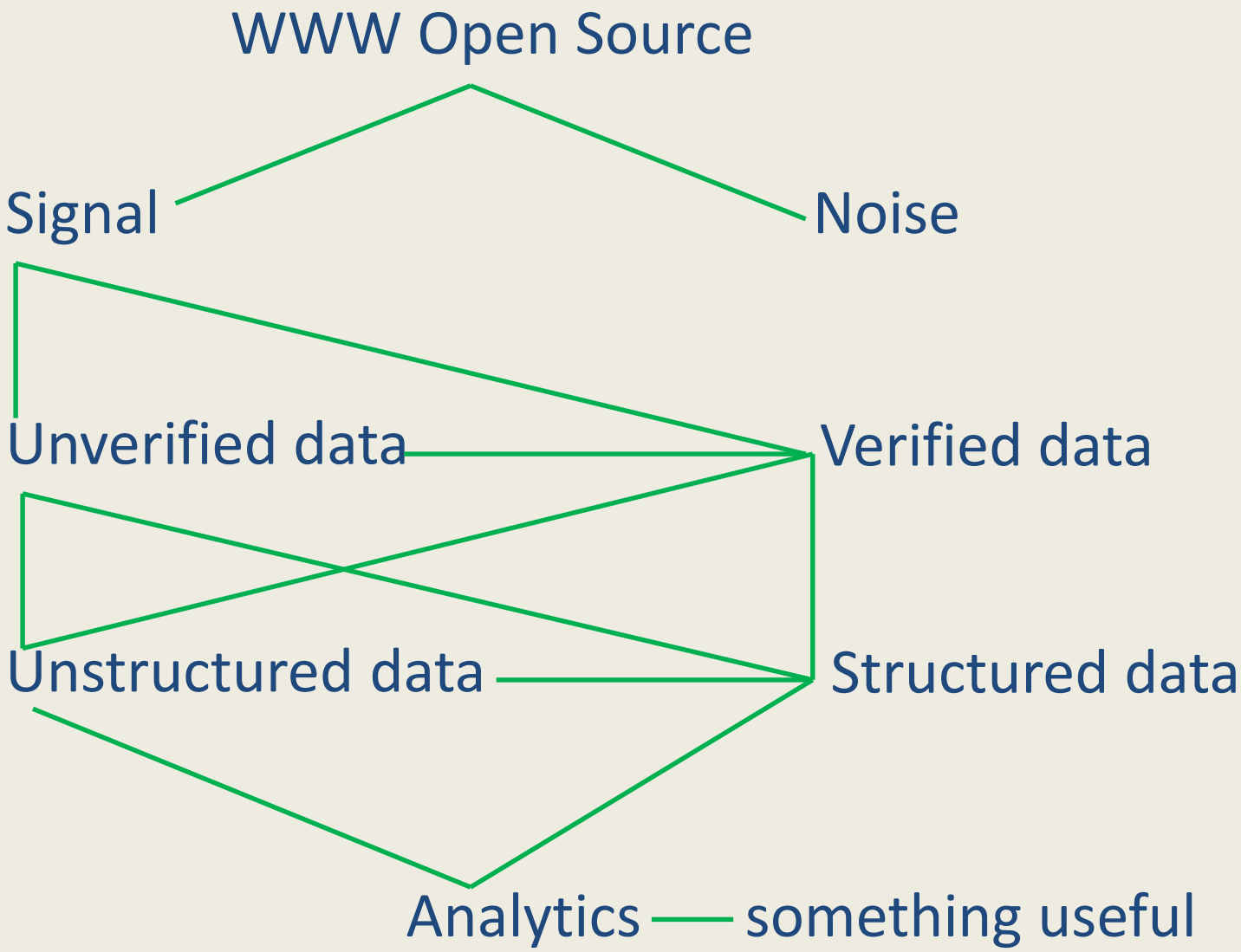
Intel and trigger based assessment and management of *Change in Biosecurity Risk*

EIOS Global Technical Meeting 2019
Seoul, South Korea

Dr Uday Divi

13 November 2019

The journey from KAOS to CONTROL



...source intel

Intelliriver Source International Biosecurity Intelligence System (IBIS)

Intelliriver Source | Outbreaks | Dashboard | NewsFeed | Information | Management | Help | uday.divi@agriculture.gov.au

Search for a theme name here

Aquatic Animal Health

Biosecurity Policy

Compliance

Environmental Biosecurity

FORESIGHT

Marine Biosecurity

Moderator Discussion

OIE

Overseas Counsellor (Agriculture)

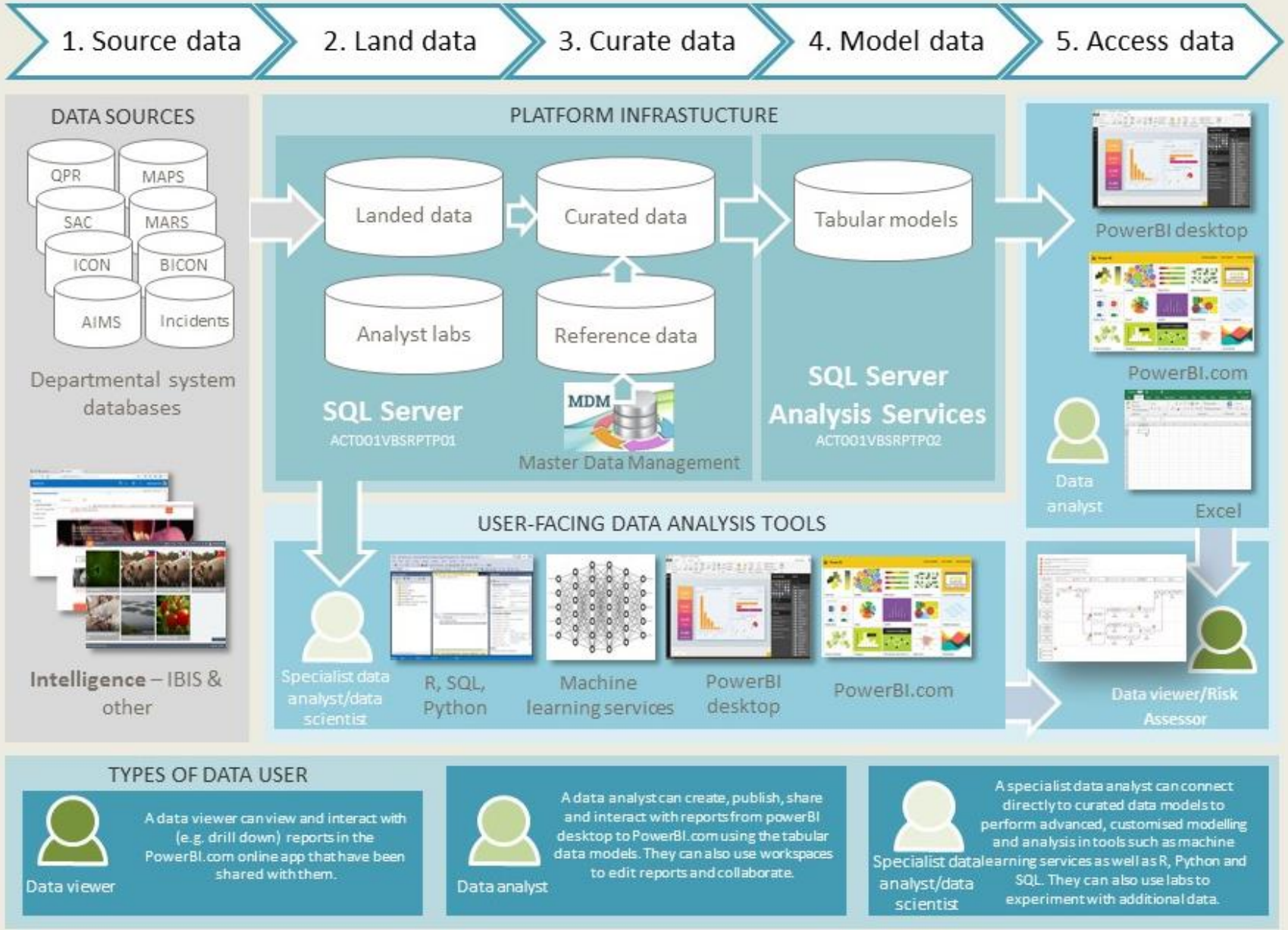
Plant Health

Terrestrial Animal Health

WELS

then what...

...integrated analysis capability



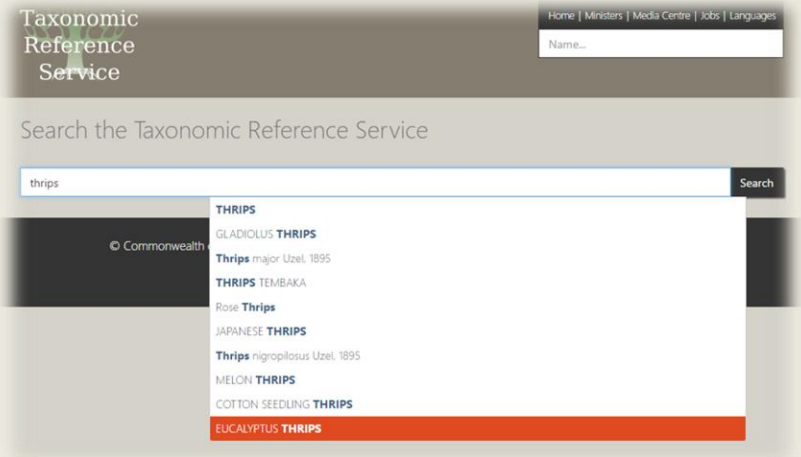
then what...

...prioritise threat

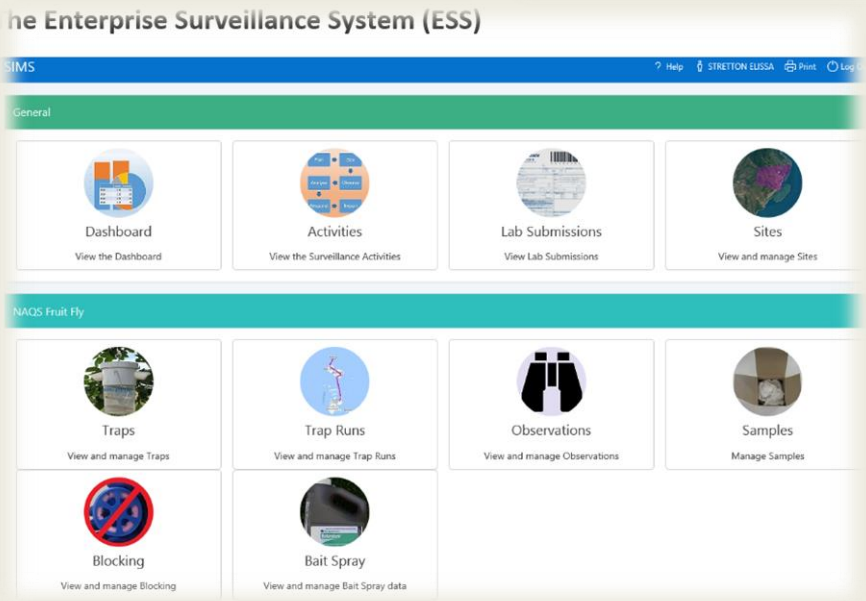
Existing '**source of truth**' systems for Biosecurity

PDR

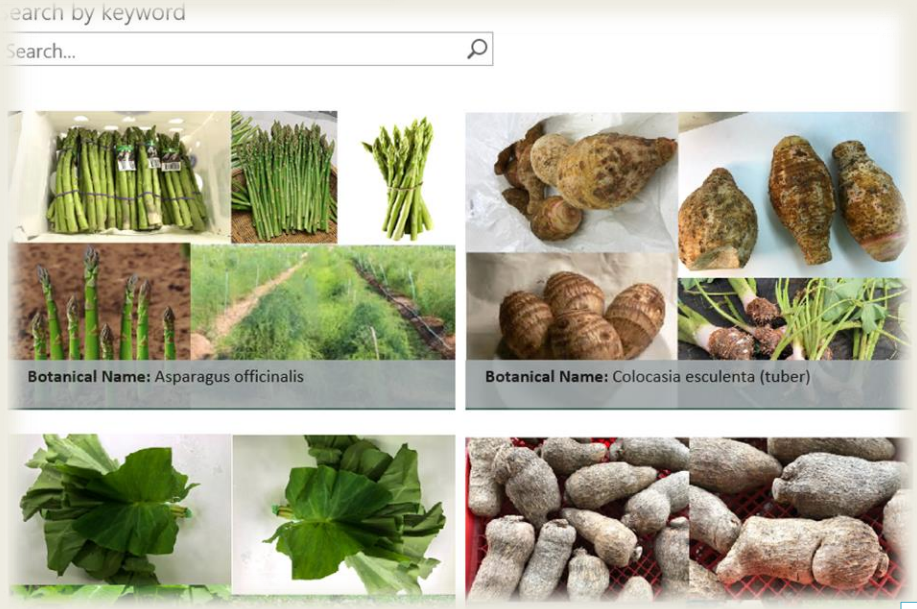
TaxaaS



Outbreak maps



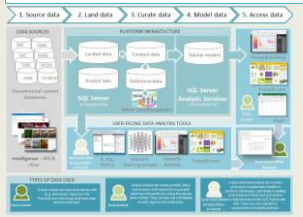
ESS



Plant Image Library

then what...

…analyse threat

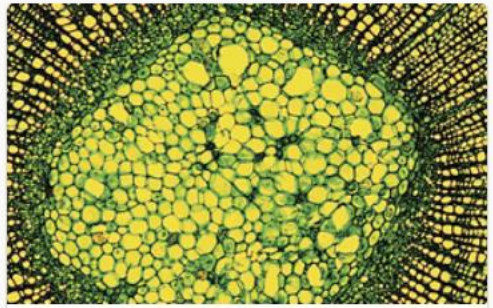


Enterprise data – **C**hange in **B**iosecurity **R**isk **(CBR)**

Cargo ›

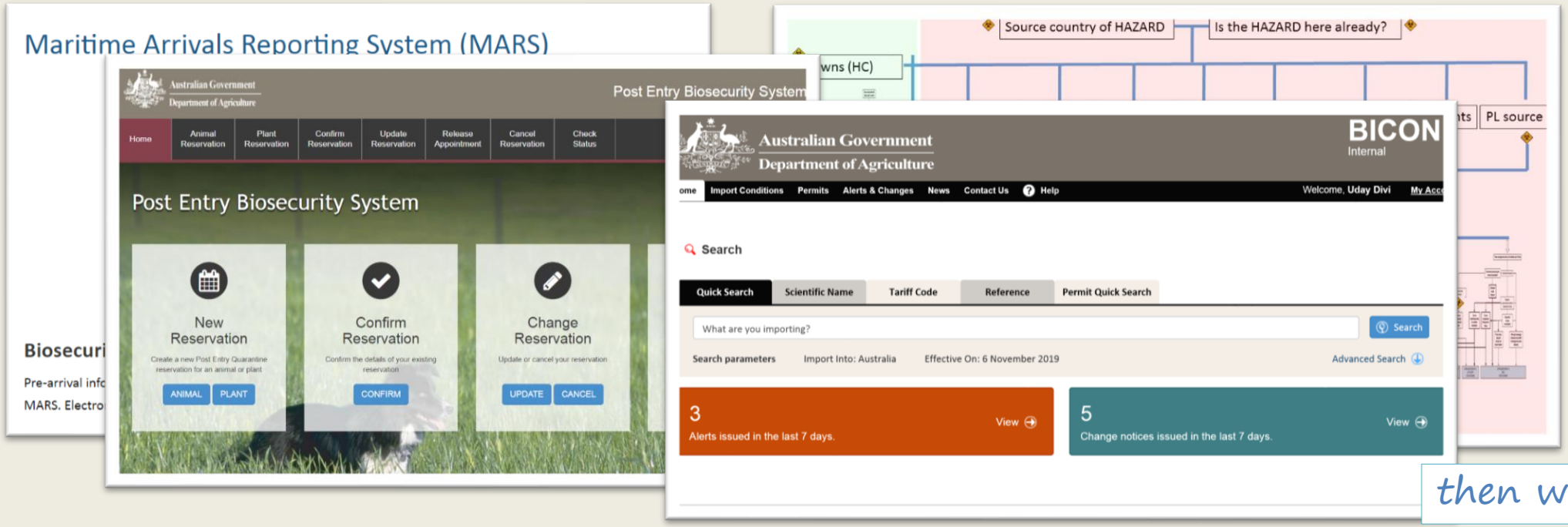
Import Management System

Approved Arrangements ›



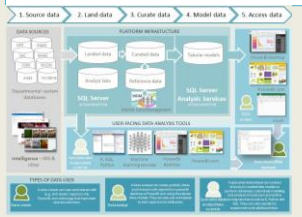
Threat and Risk Application ›

Pest and Disease Repository ›

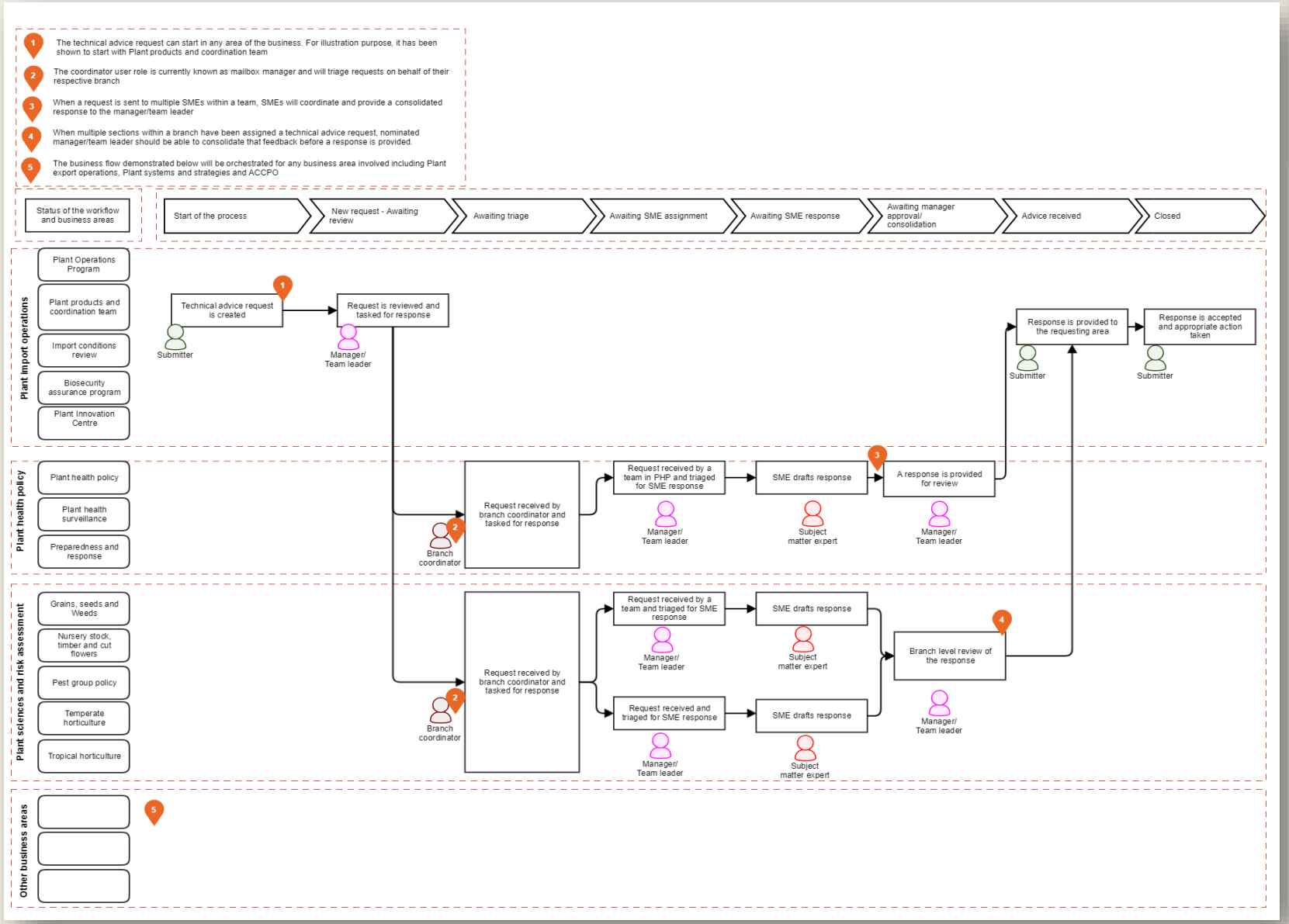


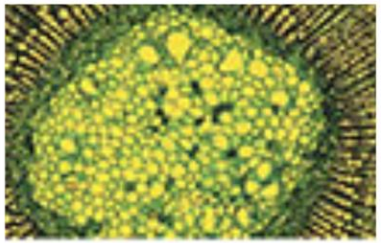
then what…

...assess risk



CBR case management workflow



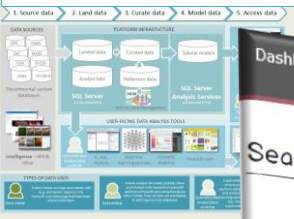


Threat and Risk Application

then what...

...rapid risk assessment and decision making

Integrated dashboards for qualitative/quantitative risk analysis



Dashboard | Post Border Detections | Threat and Risk Information System | Task list

Search Threat and Risk Data

Category: Plant - Change in biosecurity risk

Common name of the pest/disease | Status

From | Scientific nam

Search | To

Export search results | Create | New CBR item | New TAP request

There are 15 records

Ref	Submission date	Title	Status	Commodity	Pest/
201	Aug 15,2008	Tritolium repens and Lolium multiflorum seed	Open	Seeds for sowing	Severe
202	Aug 15,2008	Something on dried dates from Mexico	Open	Dates	-
203	Aug 17,2008	Fungal risks of Acacia seed and plants	Closed	Acacia	Hylurg
204	Aug 18,2008	Carrot exports - Jordan	Open	-	-
205	Aug 18,2008	BMSB status in Croatia	Open	-	-
206	Aug 20,2008	PEST NOTIFICATION - Endive necrotic mosaic virus (ENMV) of endive	Closed	Endive	Endive mosaic (ENMV)

0 of 10 submissions selected | Select all 10 submissions | Clear all | View on map

1 2 > >>

Dashboard | Post Border Detections | Threat and Risk Information System | Task list

Details | Workflow Activity | Workflow visual

Submission ID: 2018 - 201 Status: Open Submission type: Changing biosecurity r

Submission details

Date	27/08/2018 07:00 AEST
Category	Biological risk
Title	Myrtle rust has been disco
Description	Myrtle rust has been disco
What does the hazard relate to	Emerging offshore risk
Common name of the pest	Myrtle rust
Scientific name of the pest	Puccinia psidii
Arrival mode	N/A
Country of origin	New Zealand
Commodities affected	Lorem Ipsum
Does the hazard relate to commodity, packaging or pathway?	Commodity
Controls	Change in conditions to reflect associated commodities comin
Further information	IBIS Daily Digest Report cre

Recommendations

Plant sciences and strategies

Plant health policy

Back

Dashboard | Post Border Detections | Threat and Risk Information System | Task list

Details | Workflow Activity | Workflow visual

Submission ID: 2018 - 201 Status: Open Submission type: Change in biosecurity risk

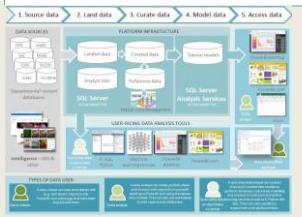
Workflow activity

Date/time	User	Team	Event	Notes
August 31, 2018 11:55 AM	System		Recommendation distributed to all stakeholders	
August 31, 2018 11:55 AM	Martin Brooks	PHP - Preparedness and response	Recommendation approved	
August 30, 2018 08:11 AM	William Hicks	PHP - Preparedness and response	Submission assigned to Martin brooks for review	Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor
August 20, 2018 10:13 AM	Martin Brooks	PHP - Preparedness and response	Submission assigned to William Hicks	
August 15, 2018 05:10 PM	Mel Robins	PHP - Preparedness and response	Submission assigned to Plant preparedness and response team	
August 10, 2018 08:00 AM	David Brooks	PHP - Preparedness and response	Submission assigned to Plant preparedness and response team	
August 6, 2018 09:13 AM	Brett Evans	PIO - Import conditions review	Submission assigned to Plant health policy, and Plant sciences and risk assessment	
August 5, 2018 10:00 AM	Sarah Shield	PIO - Import conditions review	Submission created	

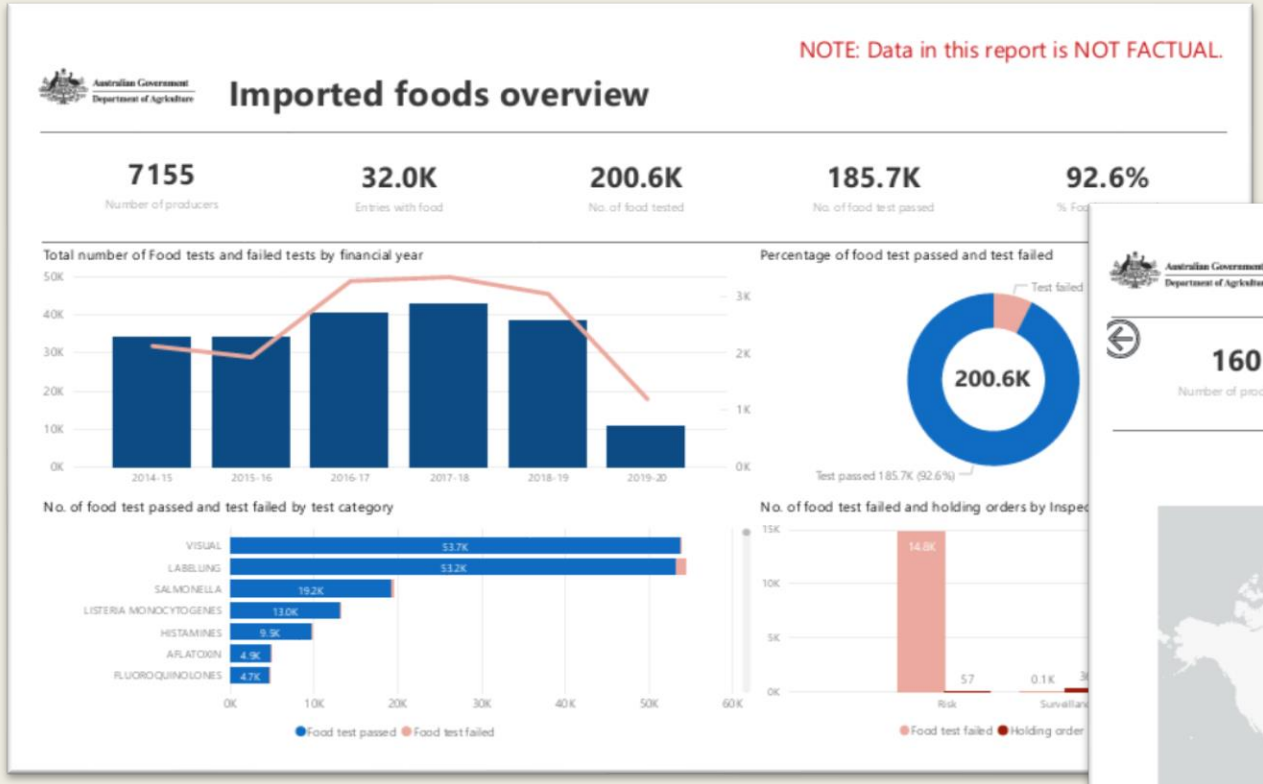
Back

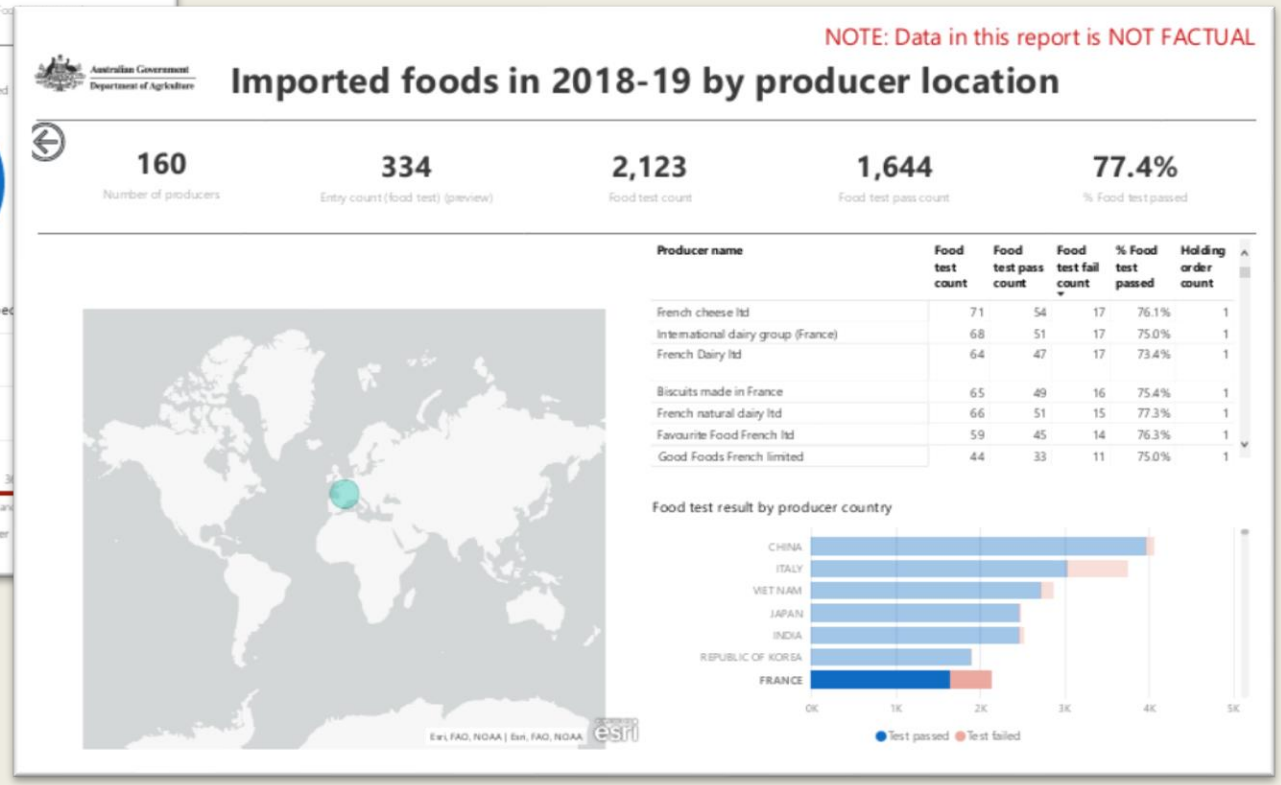
then what...

...report, recommend, record



efficient and targeted ***risk management resource allocation***

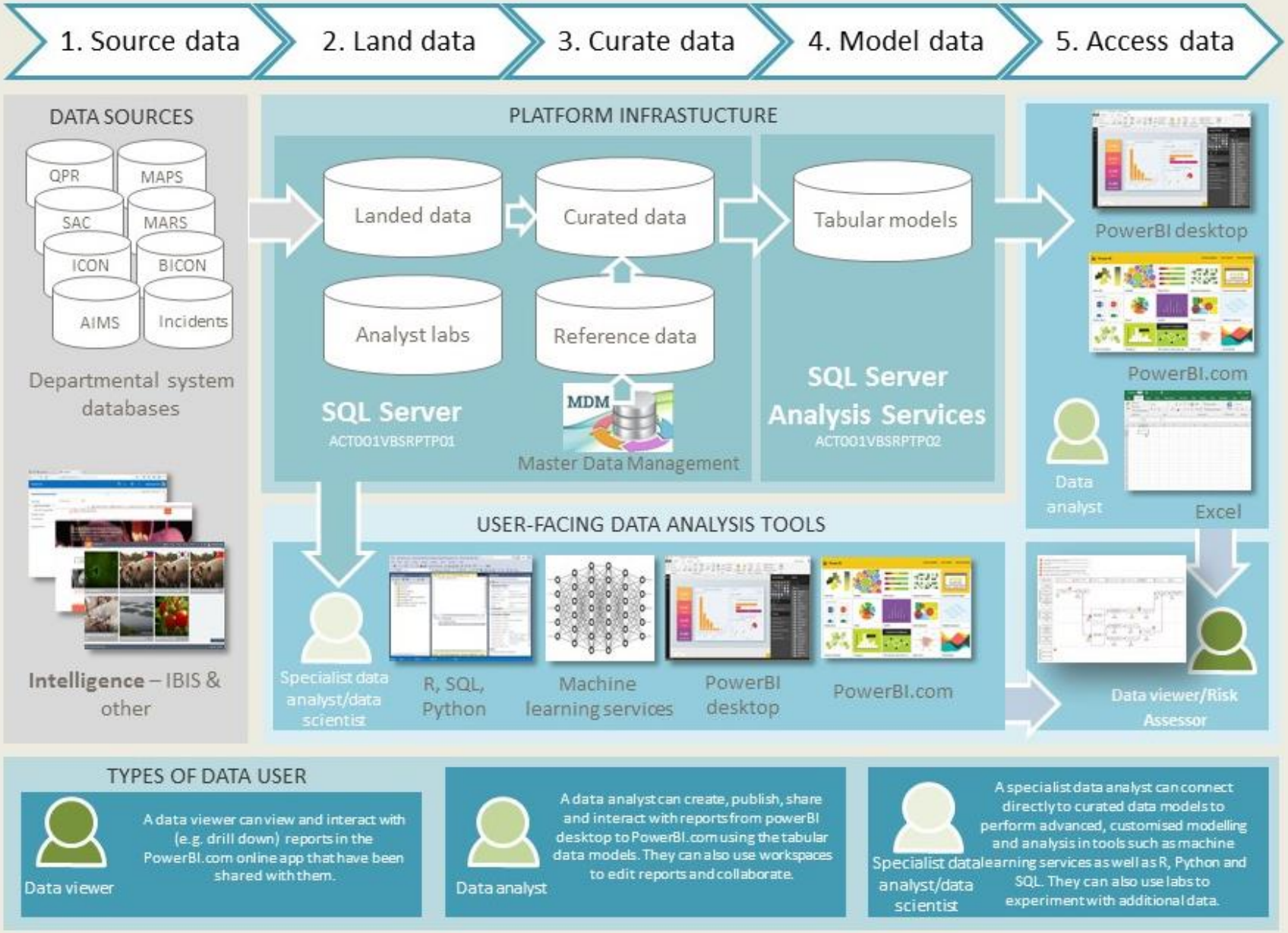




What next...

...rinse & repeat

Biosecurity Integrated Information Systems & Advanced Analytics



1. early warning

2. integrated automated data & analytics

3. case management work flow

4. efficient risk management resource allocation

… journey from KAOS to CONTROL

WWW Open Source

Signal — Noise

Unverified data — Verified data

Unstructured data — Structured data

Analytics — something useful

ASF outbreak

INTELL- & INFO-MATCH DASHBOARD

INCREASED PASSENGER SURVEILLANCE