

Australian Agricultural
Sustainability Framework

Community of Practice Exchange

Canberra 20-21 March 2024



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Department of Agriculture,
Fisheries and Forestry

Interactive session: Data ecosystem

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Agenda – Day 1, Wednesday 20th March 2024

Session 1	1:15pm-2:45pm	Designing the future state of the AASF data ecosystem
Coffee break	2:45pm-3:15pm	Provided for you
Session 2	3:15pm-4:25pm	Unpacking risks to our future state Identifying potential uses of the AASF
Wrap up	4:25pm-4:30pm	Homework



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Reminder

Australian Agricultural Sustainability Framework

AASF Data Ecosystem

Vision

Objectives

Principles

Use
Cases

Structures



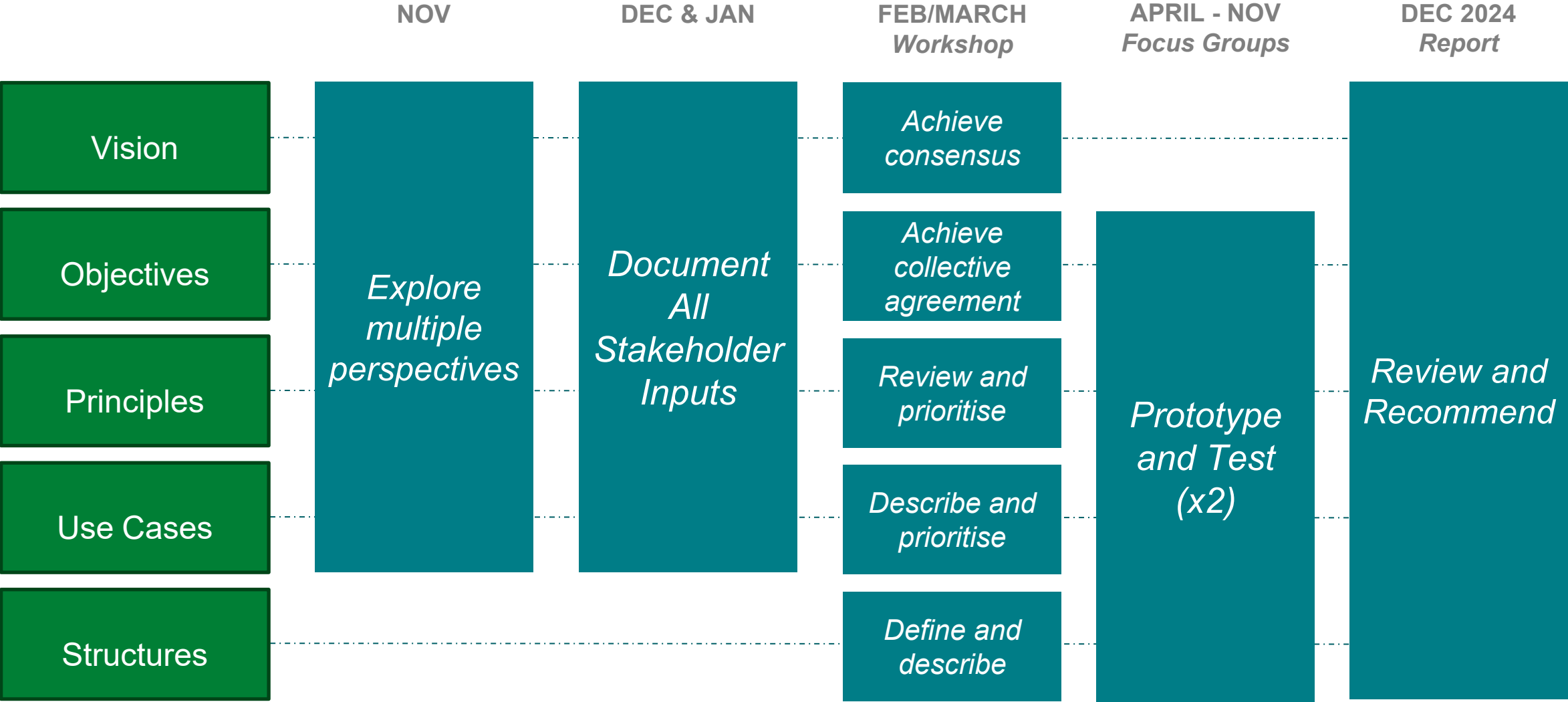
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Discovery Phase

- Interviews (33 Interviews, 58 Participants, 31 Organisations)
- Literature Review (Academic literature, company and project websites)
- Online Workshop (AASF CoP Nov 2023)

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What was discovered - cohorts

- **Data producers** – undertake activities from which they or others may wish to capture data for sustainability purposes
- **Tool providers** – provide tools/technologies that help with the measurement/collection/capture/sharing of sustainability related data
- **Data users** – need access to sustainability related data for their own purposes

OR

- Those involved/interested in **national scale reporting**
- Those involved/interested in **supply chain/portfolio reporting**

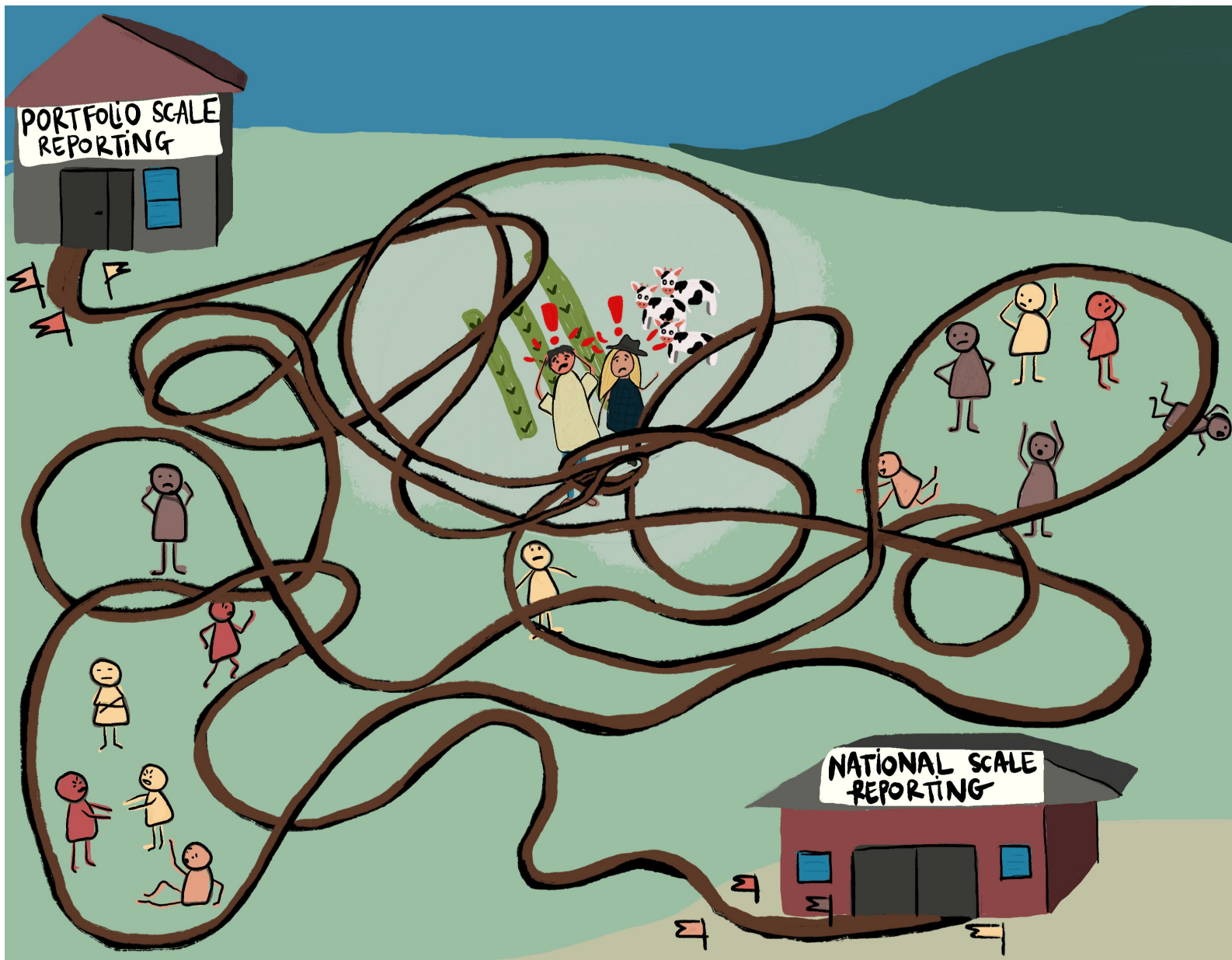


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What was discovered - insights

- The current agriculture sustainability data ecosystem is anarchic in nature
- Different drivers are informing how organisations develop their data practices, frameworks and governance arrangements
- Data sharing within the agricultural sustainability community is undertaken on an ad-hoc basis
- Different users will engage with and use the AASF and hence the AASF Data Ecosystem in different ways
- Stakeholders can see a range of benefits coming from the AASF Data Ecosystem
- The greatest opportunity of and the greatest risk to the data ecosystem is trust



What is a data ecosystem?

an interconnected, dynamic system comprising technical components and actors that collectively engage in the production, management, exchange, and consumption of data.

data ecosystems emphasise collaboration, sharing, and governance, enabling data to flow efficiently between different entities for mutual benefit.

“the complex environment of co-dependent networks and actors that contribute to data collection, transfer and use”¹

“A successful ecosystem balances two priorities:

- Building economies of scale ...*
- Cultivating a collaboration network ...”²*

1. Oliveira, Marcelo Iury S.; Lóscio, Bernadette Farias (2018-05-30). "What is a data ecosystem?". *Proceedings of the 19th Annual International Conference on Digital Government Research: Governance in the Data Age*. New York, NY, USA: Association for Computing Machinery. pp. 1–9. doi:10.1145/3209281.3209335

2. Abdulla, Ahmed (March 8, 2021). "Data ecosystems made simple". *McKinsey Digital*

What your data ecosystem does in 1 year / 5 years

Use case

noun

A specific situation or scenario in which a system could potentially be used to achieve the goal of the user.

Designers leverage use cases to inform design and development of systems / services / products. They articulate a clear understanding of how the system should function (requirements) and how it could meet user needs.



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Welcome – Day 2

Angela Schuster
Schuster Consulting Group



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Use Cases

Table	Use Case
1	Primary producers access data to inform/guide practice change on farm to improve/increase sustainability/resilience/profitability
2	Austrade/DFAT/DAFF access national scale data to prove sustainability credentials in market access negotiations
3	Retailers/exporters/processors able to trace sustainability credentials along supply chain
4	NFF/commodity level SFs access national scale data to support sustainability reporting
5a	Corporate entity accesses data associated with their supply chain/portfolio of clients to undertake regulatory reporting
5b	Finance sector accesses relevant individual's/organisation's data to assess risk and provide products
6a	Producers, processors, corporate entities benchmark themselves against standards
6b	Industry/govt accesses data to understand sustainability at a local /regional scale
7a	Govt uses sustainability data to guide policy development, investment and management
7b	Industry groups/govt are able to identify gaps in data availability to support further data investment
8	Researchers access sustainability data to support research activities
9	Research investors analyse data to prioritise research investment



Vision statement

Speaks to aspirations. Your goals and ideals for the future, and the impact you have created

Ben & Jerry's:

"Making the best ice cream in the nicest possible way"

LinkedIn:

"Create economic opportunity for every member of the global workforce"

Tesla:

"Accelerate the world's transition to sustainable energy"

Amazon:

"To be earth's most customer-centric company, where customers can find and discover anything they might want to buy online"

IKEA:

"To create a better everyday life for the many people"

TED:

"Spread ideas"

Nike:

"To bring inspiration and innovation to every athlete in the world"





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End of Exchange

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