

ENVIRONMENTAL ACCOUNTING PLATFORM

AGRICULTURAL INNOVATION AUSTRALIA

AIA ENVIRONMENTAL ACCOUNTING PLATFORM

Final Report prepared for AMPC September 2024

OUR GOAL

To provide Australian agriculture, fisheries and forestry with an accessible and standardised approach to carbon calculation





WHAT IS THE AIA EAP?



A **definitive** cross-sectoral carbon calculation engine for Australian agriculture, fisheries and forestry



It provides producers and their supply chains with a **common**, **consistent** and **standardised** way to calculate a carbon footprint at a commodity, enterprise and whole of business level



Pre-competitive solution that does not compete, but enables the market, leveraging channels producers already use and trust

AIA ENVIRONMENTAL ACCOUNTING PLATFORM

WHAT WE KNOW

Environmental accounting is complex - but can be effectively addressed using a cross-sectoral, collaborative approach

The AIA Environmental Accounting Platform (AIA EAP) leverages RDC funding and expertise to create a more efficient and effective whole-of-industry solution.

Growers can't improve what they don't know

The AIA EAP has been designed to enable farmers, fishers and foresters to know their carbon footprint and help to inform decision-making to reduce emissions, by providing a common, consistent and standardised approach to calculate carbon emissions.

The AIA EAP is designed to be Australia's single source of truth

The AIA EAP is a definitive accounting engine for Australia's agriculture, fisheries and forestry, which uses a common, consistent and standard calculation for GHG emissions. This level of cross-sectoral standardisation ensures confidence in carbon emissions and supports a united narrative of Australian agriculture's collective progress toward net zero targets.

The AIA EAP is designed to move with the changes of Australia's rural industries, including the ability to evolve the model to accommodate new factors, mitigations, functionality and the addition of emerging accounting frameworks, such as biodiversity and natural capital.

EAP STAGE 1 INVESTING RDCS













Wine Australia







EAP STAGE 1 JOURNEY



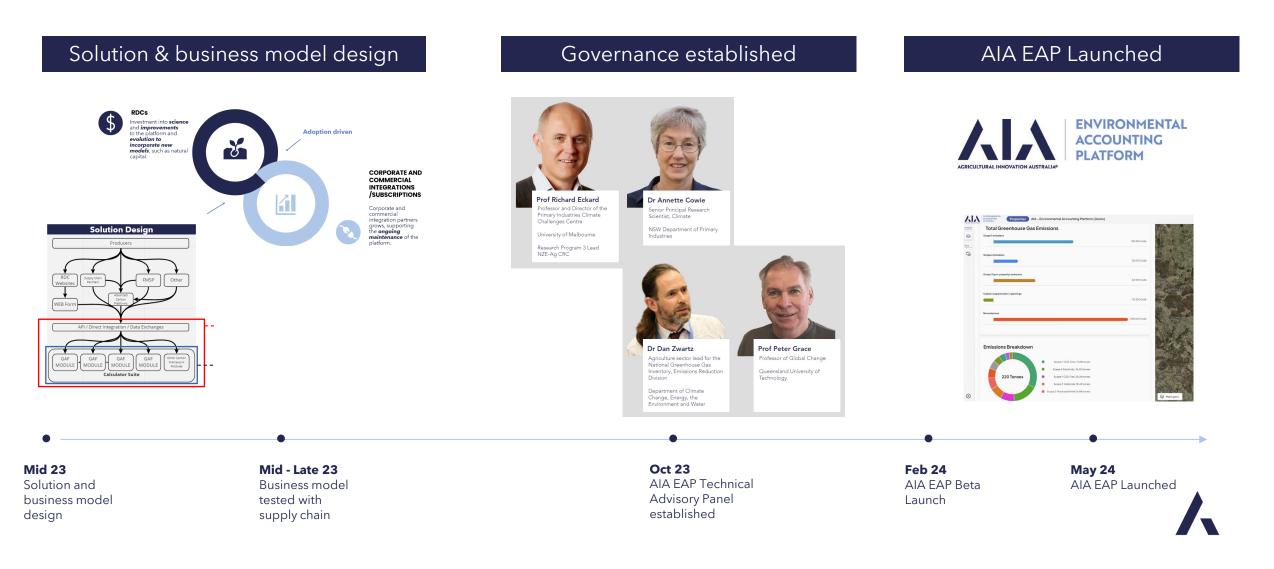
Evidence to support design



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Jul 23 AIA EAP Discovery Report

EAP STAGE 1 JOURNEY



DISCOVERY PHASE





CONFIDENTIAL DOCUMENT KNOW & SHOW YOUR CARBON FOOTPRINT Discovery Phase Insights Report July 2023

140+ interviews

With producers across all commodities, supply chain, software and service providers, financial institutions

International market analysis

With a focus on North America and New Zealand

Analysis of available tools, models + frameworks

Including inputs required for commonly used GHG calculators, licensing terms of available calculators, current commercial providers

DISCOVERY PHASE: KEY CHALLENGES SOLUTION NEEDED TO ADDRESS

- Carbon accounting is confusing + cumbersome, particularly for mixed enterprises
- Producers want to continue to engage with channels they already use and trust
- Calculators require constant maintenance/updating to align with latest research, standards + protocols
- Lack of a consistent, standardised approach leads to fragmentation and a proliferation of proprietary calculators



"It is bewildering for producers - there are so many different calculations.

There needs to be standardisation. It's so confusing!

No wonder people give up."

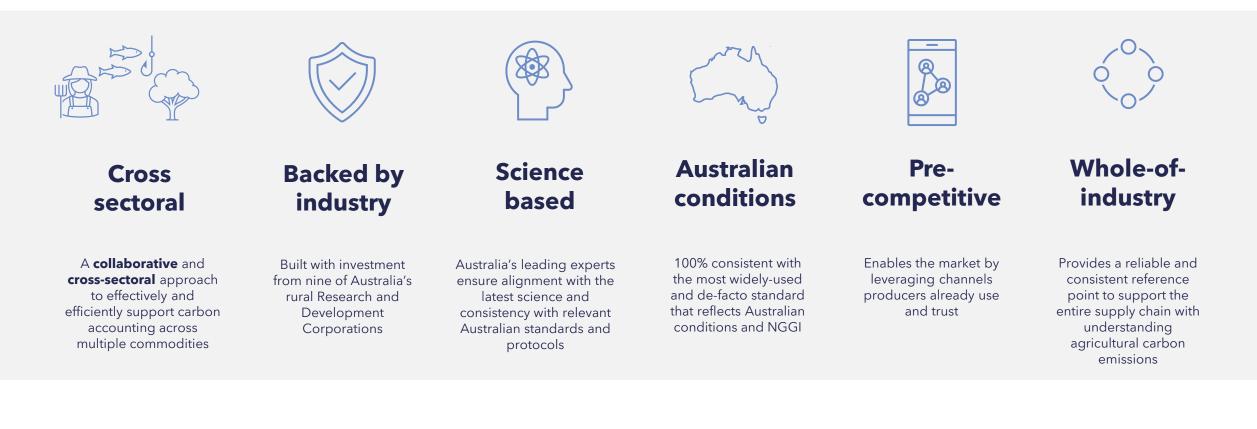
Red meat

SOLUTION

KEY PRINCIPLES APPLIED TO SOLUTION DESIGN

- \checkmark reducing the reliance on one provider
- \checkmark ensuring IP developed would be owned by AIA on behalf of industry
- ✓ creating pathways to meeting the market where it is currently at, whilst maintaining scalability for future enhancements
- ✓ focusing on the pre-competitive space, enabling the leveraging of existing pathways to reduce barriers to adoption
- ✓ focusing on a 'whole of agriculture, fisheries and forestry' solution
- ✓ working directly with the GAF experts
- ✓ enabling partnerships with commercial agribusiness and supply chain partners

SOLUTION





Based on robust, peer-reviewed scientific research and data

Consistent with relevant Australian standards and protocols

Backed by panel of Australian experts in GHG accounting, emissions reduction, soil carbon management, lifecycle assessment and climate science Technical Advisory
PanelProf Richard EckardDr Annette CowieProf Peter GraceDr Dan Zwartz



 (r^2)

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Grains

Red meat (beef, sheep, feedlot, goat)

Cotton

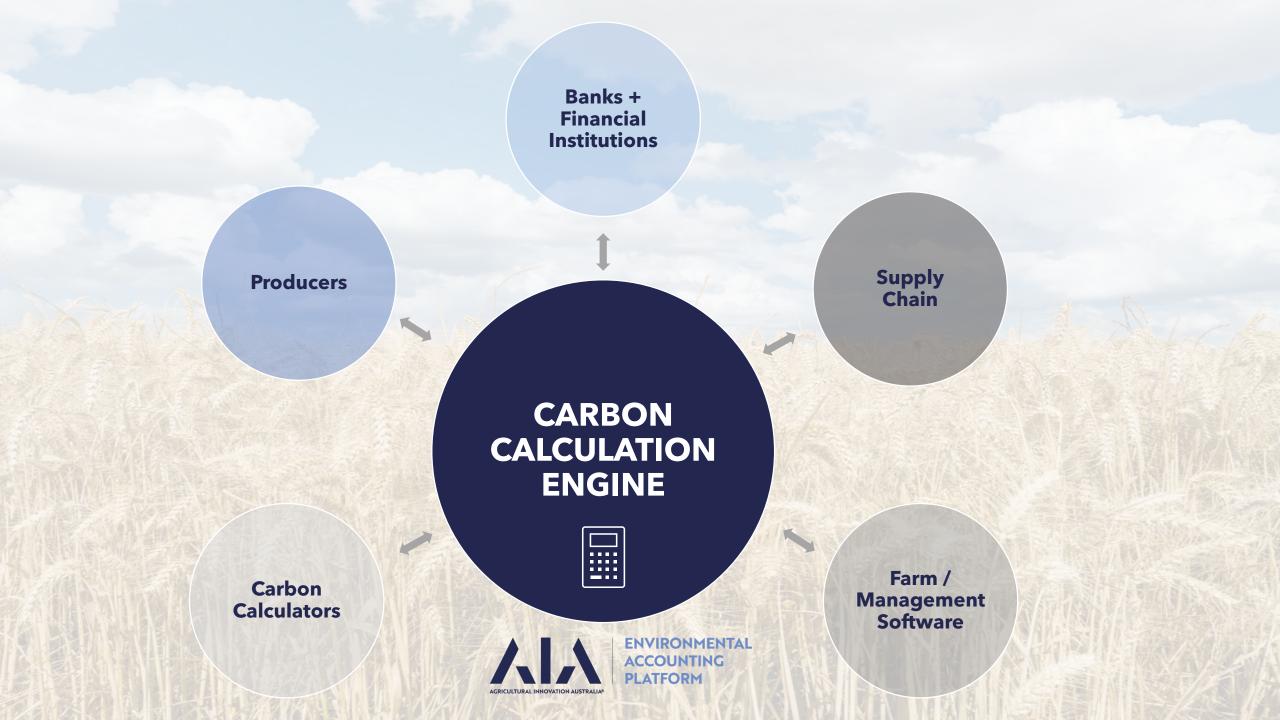
Horticulture

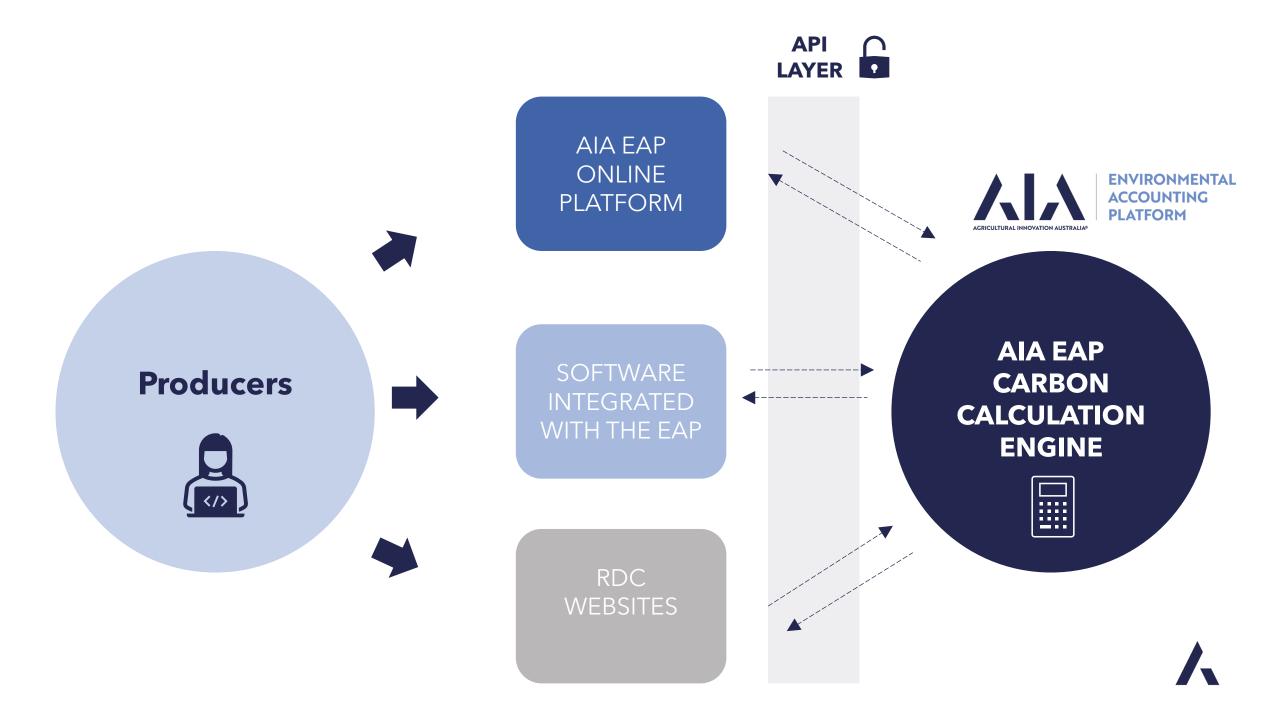
Poultry and Eggs

Pork

Sugar







IMPACT AND BENEFITS

HIGH LEVEL PROGRAM LOGIC

Inputs and Activities

Collaborate to develop carbon calculations consistently across all farm industries

Collaborate to develop platform that enables common access for all farm systems

Maintain carbon calculations in a timely and consistent way

Operate and maintain API so common access is maintained

Extend platform to enable other applications

Outputs

Centralised single repository for loading calculating and downloading of carbon data for all farms

> Carbon data can be entered by farmers in a regular, consistent and correct manner

Carbon data can be retrieved in a consistent manner

Carbon data has transparency and integrity

Intermediate outcomes

Australian farmers are able to calculate their carbon footprint

Carbon data can be downloaded by farmers, supply chains and service providers

Users have confidence in data from the platform

Long-term outcomes

Lower costs of calculating carbon footprint maintaining and operating carbon calculators

Farmers and supply chains are able to demonstrate their carbon footprint more accurately

Improved third party outcomes

2

3

BENEFITS PROVIDED BY THE EAP

PRODUCERS

- ✓ calculate a whole of enterprise carbon footprint
- ✓ baseline their enterprise
- ✓ scenario plan to inform decisionmaking around reducing emissions
- share outputs with consultants, advisors, supply chain

INDUSTRY

- common, consistent and standardised approach to carbon accounting
- ✓ integrated whole of sector + supply chain solution
- ✓ supports a united Australian narrative around emissions
- ✓ can evolve to support new calculators and frameworks

LONG TERM OUTCOMES

Lower costs of calculating carbon footprint maintaining and operating carbon calculators

 Lower cost to farmers to input
data to one system – avoided duplication

Lower cost of maintain data systems in central location

Farmers and supply chains are able to demonstrate their carbon footprint more accurately

2

Data has more integrity to third parties through common language regular maintenance and improved accuracy

Farmers and supply chains can shape value of products and services by demonstrating carbon footprint

Maintain access to markets and maintain consumer trust both at national and commodity level Farmers and processors modify their

Improved third party outcomes

3

 production systems to reduce their carbon footprint

Carbon calculators integrity avoids loss of confidence or need to demonstrating integrity in other ways

3rd parties share cost of system maintenance through leverage of benefits



\checkmark	Creates a single point of calculation and retrieval for carbon footprint of mixed farms
\checkmark	Single platform creates efficiencies instead of maintaining individual calculators (refer to ROI slide 22)
\checkmark	A centrally managed platform ensures data integrity and timely maintenance and update of calculators
\checkmark	A public not for profit ensures independence and integrity of data
\checkmark	A centralised independent platform can leverage 3rd party cost sharing more effectively
\checkmark	Standardisation of language and calculations improve trust and use of the data
\checkmark	Addresses missing and replaces outdated calculators (wine, fish, aquaculture)
ongoing	Improved expertise and specialisation in carbon methodologies increases future innovation

RETURN ON INVESTMENT

17:1

Benefit : Cost ratio

of research, development and maintenance of a single, common platform

\$84m

Approx net benefits

of research, development and maintenance of a single, common platform

More cost effective

11x

than an individual commodity specific calculator approach

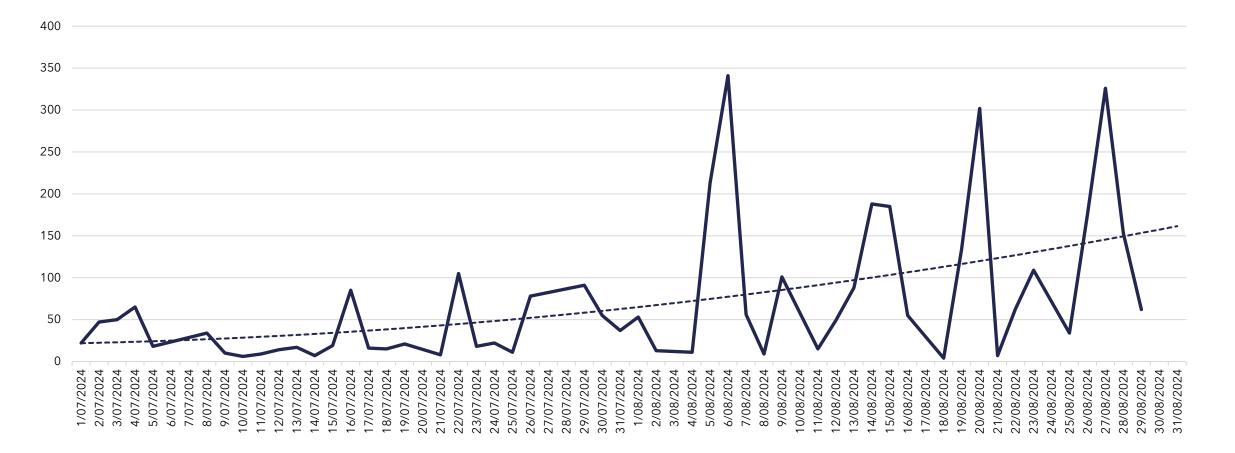
\$52m

Approx saving

of investment in a single, common platform vs individual commodity calculator approach

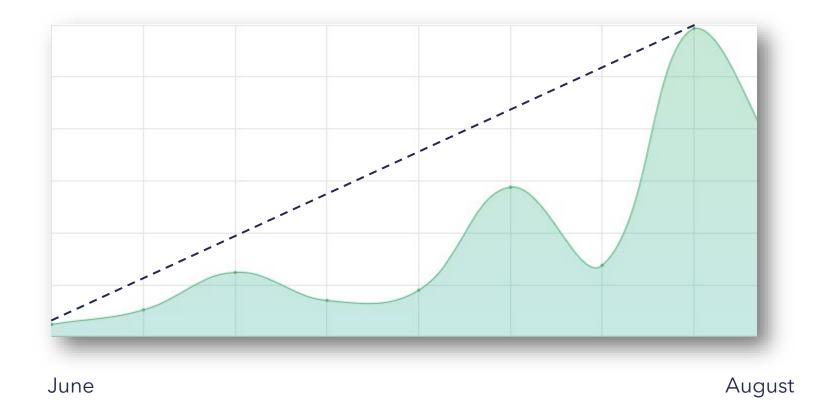
USAGE

API CALLS PER DAY (VIA INTEGRATIONS)

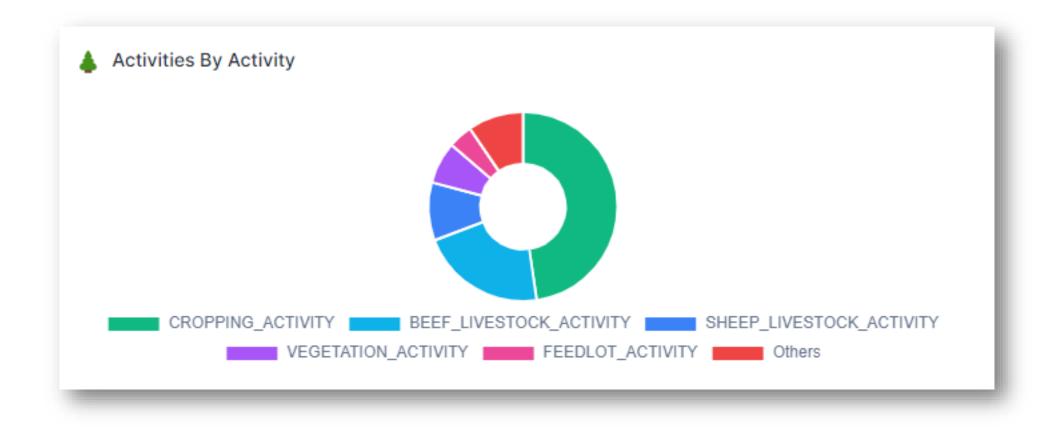


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EMISSIONS CALCULATION USAGE PER WEEK (VIA DIRECT WEB ACCESS)



USAGE – BY ACTIVITY



www.aiaeap.com

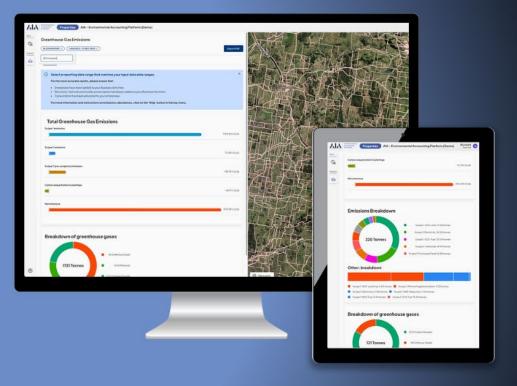
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A definitive carbon calculation engine

for Australian agriculture, fisheries and forestry

Read FAQs



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