DISR - For release under the FOI Act Document 1 - FOI 300706

Application SNSGC000130

Report summary

Report

Progress report 1

Due date

30/1/2025

Status

Reviewed

Submitted date

20/2/2025

Submitted by

John Read

Report accepted date

24/2/2025

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Project progress

Milestones

Report against each milestone shown in your grant agreement.

001 - Requirements capture, design and test kit manufacture of novel Nest Protector

Description

Specifications for the ADIMA-triggered nest protector will be captured and appropriate test kit designed and manufactured

Estimated end date

5/5/2025

Actual end date

Current % complete

65

Progress comments

Requirements capture has been completed. Identified that a smaller than planned detection and actuator kit will be require for deployment high in trees – hence focus pivoted to camera/actuator design to minimise size and weight 100% complete

OTS parts list has been prepared for two options, but focus has been on developing light camera and battery 15% complete

Agreed end date

3/2/2025

Previous % complete

100

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002 - Build/Equip established deterrent tools with triggering via wireless ADIMA signal

Description

Build 2 x deer repellent sound broadcasters, 4 x 'Possum Keeper-outerers', 3 x nest protectors, 1 x automatic electric gate (with holding pen) and equip 2 x V3.2 Felixers and test triggering efficacy through use of ADIMA test kit.

Estimated end date

10/4/2025

Actual end date

Current % complete

70

Progress comments

Possum Keeper Outerer, automated gate and deer aggregators already activatable by ADIMA test kit. Process to activate Felixers remotely continuing as planned

Agreed end date

17/2/2025

Previous % complete

100

003 - Design and build 6 test units for initial tool trials

Description

Test kits incorporating sensor and camera technology but potentially with over-engineered battery and suboptimal user interface and housing will be constructed within weather-proof enclosures to expedite development and controlled testing of detection, distinction and triggering technology of the six conservation tools and to inform final design criteria for optimised ADIMA Camera prototype.

Estimated end date

28/4/2025

Actual end date

Current % complete

60

Progress comments

Thylation have employed a technical specialist to lead the assembly and trial of test kits for this project. The first test kit has been designed and built and is successfully triggering ADIMA actuation of conservation tools. After testing in a range of environments a further 5 test units will be built by the milestone date. In addition, a purpose-built enclosure is being designed for these test units and will be 3D printed and used for initial testing

Agreed end date

28/4/2025

Previous % complete

80

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004 - Requirements capture, design, testing and hardware development of ADIMA Camera

Description

Although key specifications for the ADIMA Cameras have already been captured, optimal components for vision, sensing, power, data management need to be selected, sourced and tested, within V.0 test units. In addition, this milestone will also design the hardware for the final field-ready camera/sensor units.

Estimated end date

1/7/2025

Actual end date

Current % complete

40

Progress comments

Detailed requirements have been captured for each of the Gamechanger variants of the ADIMA Camera, and selection of ke components has commenced. Proceeding to plan

Agreed end date

1/7/2025

Previous % complete

80

005 - Initial trials of 6 pest animal control tools

Description

Each of the prototype tools will be tested in a convenient/controlled environment with access to high detection rates of threat species to optimise and confirm efficacy. These data will provide the basis for efficacy publications for each device. Fo example, the optimised possum keeper outerer will be trialed by preventing access to boxes with food inside at ZoosVic, where possums/rats are abundant, the nest deterrent will be trialed using abundant xxxxx, the deer repellent will be trialed at two Corroboree Frog breeding sites in Kosciosko National Park, and the automated gate opener will be trialed at Mallee Refuge on Eyre Peninsula, SA.

Estimated end date

20/10/2025

Actual end date

Current % complete

0

Progress comments

Agreed end date

20/10/2025

Previous % complete

30

006 - Cloud Software Development

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Description

Software management systems will be developed to isolate, store and transmit key diagnostics and images of interest (notably automatically excluding all recognisable human images) , and enable updated firmware and algorithms to be uploaded to the ADIMA Cameras

Estimated end date

2/2/2026

Actual end date

Current % complete

0

Progress comments

Agreed end date

2/2/2026

Previous % complete

70

007 - Train AI algorithms to distinguish target animal species

Description

10,000's of images of animal species of relevance, including an increasing number of images collected from ADIMA cameras, will be used to train and retrain detection and identification algorithms and demonstrate improvement against quarantined datasets.

Estimated end date

2/3/2026

Actual end date

Current % complete

10

Progress comments

Images datasets have been sourced from a number of partners. A likely algorithm training consultant has ben identified and engaged in a trial project

Agreed end date

2/3/2026

Previous % complete

70

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008 - Embedded Firmware development of ADIMA Camera

Description

Customised, adaptable and user-friendly firmware will be developed to operate the ADIMA Camera, including the capacity to reliably trigger remote management devices through a built in actuator.

Estimated end date

16/3/2026

Actual end date

Current % complete

15

Progress comments

An experienced Systems Engineer has been contracted to develop and test customised firmware and has commenced design following weekly meetings on specifications since Early December

Agreed end date

16/3/2026

Previous % complete

85

009 - Field trials to assess efficacy of all conservation management devices

Description

Project partners will conduct field trials of all management devices triggered by ADIMA cameras Data from these studies will augment information collected from Milestone 8 for inclusion in final reporting and peer-reviewed publication of case studies.

Estimated end date

16/3/2026

Actual end date

Current % complete

0

Progress comments

Agreed end date

16/3/2026

Previous % complete

20

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010 - Design and build of V5 Felixer prototype, triggered by ADIMA Camera

Description

Building on previous milestones, Thylation R&D will fund the design and build of prototype V5 Felixer, to be woken from hibernation and triggered by separate ADIMA Cam, mounted above and behind firing line. This separation of the triggering and delivery mechanism will provide a greater field of view, giving more time and better quality images to improve the detection and discrimination of feral cats and foxes s 47(1)(b)

Estimated end date

30/3/2026

Actual end date

Current % complete

10

Progress comments

s 47(1)(b)

Agreed end date

30/3/2026

Previous % complete

70

Where applicable, describe any project activities completed during the reporting period that are not captured above.

In addition to the 6 conservation innovations that will be demonstrated through this grant, Thylation has also been contracted by PIRSA to test how well ADIMA Cams can actuate their customised Deer Aggregators, and have also contribute many deer and kangaroo images to our training database which will assist with our deer deterrent trials. The work for PIRSA is not funded or reportable under this grant, but will add value

Is the overall project proceeding in line with your grant agreement?

Yes

Are there any planned events relating to the project that you are required to notify us about in accordance with your agreement?

No

Have you submitted your progress report in MERIT, DCCEEW's online reporting tool?

No

Project outcomes

Outline the project outcomes achieved to date.

We have also secured the services of leading commercial camera enginee s 47F to oversee the design and build of ADIMA, which is a great coup.
We had planned to have prototype bird nest protectors built by now but requirements sourcing identified the need for their actuating cameras to be lighter weight than we had planned, so we have been devoting our attention to reducing the weight of ADIMA cameras. This won't affect our capacity to conduct trials as planned

We have held two meetings of all stakeholders since the grant was awarded and will keep holding these meetings on a twice yearly basis. The core ADIMA Team of John Read s 47F and s 47F are meeting at least weekly.

Main project outcomes achieved todate are:

Key Requirements captured,
Initial design contracts underway,
First ADIMA testkit designed, built and already actuating 2 conservation innovations
Data repository for training images established and starting to be populated
MERI plan completed through considerable collaboration with DCCEW, We are awaiting their final approval before our first MERI report can be submitted

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Project expenditure

Provide the following information about your eligible project expenditure.

If you are registered for GST, enter the GST exclusive amount. If you are not registered for GST, enter the GST inclusive amount. We may ask you to provide evidence of costs incurred.

Refer to the grant opportunity guidelines or contact us if you have any questions about eligible expenditure.

Expenditure table

Reporting period

1/7/2024 - 31/12/2024

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Head of expenditure	Financial year	Agreed project budget	Expenditure approved prior to this reporting period	Expenditure claimed in this reporting period	Expenditure claimed to date	Estimated expenditure for next reporting period [31/12/2024-29/6/2025]	Estimated total project expenditure
Administrative support and overheads		$60,000	$0	$15,000	$15,000	$15,000	$60,000
2024/25		$30,000	$0	$15,000	$15,000	$15,000	$30,000
2025/26		$30,000	$0	$0	$0	$0	$30,000
Communications and engagement		$165,000	$0	$0	$0	$25,000	$165,000
2024/25		$30,000	$0	$0	$0	$25,000	$30,000
2025/26		$135,000	$0	$0	$0	$0	$135,000
Contingency costs		$0	$0	$0	$0	$0	$0
2024/25		$0	$0	$0	$0	$0	$0
2025/26		$0	$0	$0	$0	$0	$0
Contract		$2,445,000	$0	$23,800	$23,800	$850,000	$2,445,000
2024/25		$915,000	$0	$23,800	$23,800	$850,000	$915,000
2025/26		$1,530,000	$0	$0	$0	$0	$1,530,000
Domestic travel		$47,000	$0	$464	$464	$20,000	$47,000
2024/25		$30,000	$0	$464	$464	$20,000	$30,000
2025/26		$17,000	$0	$0	$0	$0	$17,000
Equipment		$1,028,000	$0	$3,639	$3,639	$154,000	$1,028,000
2024/25		$158,000	$0	$3,639	$3,639	$154,000	$158,000
2025/26		$870,000	$0	$0	$0	$0	$870,000
Independent audit costs		$5,000	$0	$0	$0	$0	$5,000
2024/25		$0	$0	$0	$0	$0	$0
2025/26		$5,000	$0	$0	$0	$0	$5,000
Total		$4,175,000	$0	$76,478	$76,478	$1,224,000	$4,175,000

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Head of expenditure	Financial year	Agreed project budget	Expenditure approved prior to this reporting period	Expenditure claimed in this reporting period	Expenditure claimed to date	Estimated expenditure for next reporting period [31/12/2024-29/6/2025]	Estimated total project expenditure
Legal and financial advice		$0	$0	$0	$0	$0	$0
2024/25		$0	$0	$0	$0	$0	$0
2025/26		$0	$0	$0	$0	$0	$0
Salaries and on-costs		$375,000	$0	$33,575	$33,575	$150,000	$375,000
2024/25		$185,000	$0	$33,575	$33,575	$150,000	$185,000
2025/26		$190,000	$0	$0	$0	$0	$190,000
Staff training		$50,000	$0	$0	$0	$10,000	$50,000
2024/25		$10,000	$0	$0	$0	$10,000	$10,000
2025/26		$40,000	$0	$0	$0	$0	$40,000
Total		$4,175,000	$0	$76,478	$76,478	$1,224,000	$4,175,000

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Briefly explain the reason for any changes between the forecast and actual expenditure for the current reporting period and any significant changes to the forecast budget for the remainder of the project.

Contracts are underspent todate because we have just sourced main contractors - expenses should be close to budget by June 2025
Thylation tech specialist to undertake much of the work for this grant was filled in October - again staff costs/training and travel are expected to approach budget by June 2025

Is the project expenditure broadly in line with the activity budget in the grant agreement?

Yes

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Project funding

Outline the sources of funding used to complete your project other than this grant.

Report Period Start Date

1/7/2024

Report Period End Date

31/12/2024

Contributions

Australian National University

Source type

Other non-government contribution

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$1,500	$0	$1,500	$360,000	3 planning and specifications meetings Key partner still making arrangements to transfer training images to Thylation
Total	$1,500	$0	$1,500	$360,000	

Ecological Horizons

Source type

Other non-government contribution

Contributions

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Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$15,000	$0	$15,000	$0	Built pen and customised sliding gate for smart gate trials
In-Kind	$5,000	$0	$5,000	$75,000	
Total	$20,000	$0	$20,000	$75,000	

NSW Department of Climate Change, Energy, the Environment and

Source type

Other non-Commonwealth government grants

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$1,500	$0	$1,500	$35,000	3 planning and specifications meetings
Total	$1,500	$0	$1,500	$35,000	

Robotics and Autonomous Systems for Conservation of Animals and Landscapes (RASCAL)

Source type

Other non-government contribution

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$1,000	$0	$1,000	$20,000	Specifications meetings
Total	$1,000	$0	$1,000	$20,000	

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Thylation R&D

Source type

Applicant's contribution

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$1,100,000	
In-Kind	$40,000	$0	$40,000	$355,000	John Read and s 47F have held weekly meetings and contributed on average 8hrs voluntary time a week to design and planning work for ADIMA Cameras, amounting to 20 days @ s 47(1)(b) of the $80K voluntary time committed to the project s 47(1)(b)
Total	$40,000	$0	$40,000	$1,455,000	

Wunambal Gaambera

Source type

Other non-government contribution

Contributions

DISR - For release under the FOI Act Document 1 - FOI 300706

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$0	$0	$0	$20,000	
Total	$0	$0	$0	$20,000	

WWF Australia

Source type

Other non-government contribution

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$1,000	$0	$1,000	$95,000	Stakeholder meetings to discus project
Total	$1,000	$0	$1,000	$95,000	

Other than the grant, was the project funded as outlined in the grant agreement?

Yes

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Bank account details

Have your bank account details changed since your last payment or since you last provided them?

If yes, we will provide you with a form to complete your new bank account details.
If you are not due any further payments, select not applicable.

No

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Attachments

Agreed evidence

Evidence to demonstrate project progress and eligible expenditure

Provide evidence to support project progress and eligible expenditure such as quotes, paid invoices, purchase orders, contracts, photographs (before and after) demonstrating progress of agreed project activities.

Comments

We have made a video clip of the first ADIMA prototype in action but I'm unable to add the file, I can share a link via email if desired

Thylation_R_D_Pty_Ltd_-_Gamechanger _Transactions Jan 2025.pdf

Evidence to demonstrate that Condition of Funding has been met

Evidence to demonstrate that Condition of Funding has been met

Applicant to seek permits from regulatory body (government)

Comments

No permits required yet

Copy of Thylation_R_D_Pty_Ltd_-_GameChanger Expenses Jan 2025.xlsx

2025_SecretRocks_FelixerApproval_41448_28898.pdf

87475 - 1080 Licence.pdf

Felixer cartridge registration label.pdf

Additional documents

Additional supporting information

If you need to provide additional documents such as copies of published reports etc related to the project, you should attach them here.

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Declaration

I am authorised by the grantee to submit this report and declare that:

- the information in this report is accurate, complete and not misleading and that I understand the giving of false or misleading information is a serious offence under the *Criminal Code 1995* (Cth)
- the activities identified in this report are for the purposes stated in the grant agreement
- I am aware of the grantee's obligations under their grant agreement, including the need to keep the Commonwealth informed of any circumstances that may impact on the objectives, completion and/or outcomes of the agreed project
- I am aware that the grant agreement empowers the Commonwealth to terminate the grant agreement and to request repayment of funds paid to the grantee where the grantee is in breach of the grant agreement.

By checking this box, I agree to all of the above declarations and confirm all of the above statements to be true.

Yes

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Application SNSGC000130

Report summary

Report

Progress report 2

Due date

30/7/2025

Status

Reviewed

Submitted date

14/8/2025

Submitted by

John Read

Report accepted date

15/8/2025

DISR - For release under the FOI Act Document 2 - FOI 300706

Project progress

Milestones

Report against each milestone shown in your grant agreement.

001 - Requirements capture, design and test kit manufacture of novel Nest Protector

Description

Specifications for the ADIMA-triggered nest protector will be captured and appropriate test kit designed and manufactured

Estimated end date

10/11/2025

Actual end date

Current % complete

75

Progress comments

Through several discussions with ANU partners we have decided that the nest protector should now also incorporate sound and light deterrents along with the directional squirter and we have engaged a independent deign engineer to design and manufacture prototype. However, this multi-deterrent device should not be trialed on Gang-gang nests until its efficacy has been confirmed. The plan now is to trial the nest protector and the PKO at Swift Parrot sites near Hobart in January 2026 where gliders and possums are abundant

Agreed end date

3/2/2025

Previous % complete

100

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002 - Build/Equip established deterrent tools with triggering via wireless ADIMA signal

Description

Build 2 x deer repellent sound broadcasters, 4 x 'Possum Keeper-outerers', 3 x nest protectors, 1 x automatic electric gate (with holding pen) and equip 2 x V3.2 Felixers and test triggering efficacy through use of ADIMA test kit.

Estimated end date

10/11/2025

Actual end date

Current % complete

80

Progress comments

We've arranged to source WASP deer deterrents from project partne s 47F . Thylation has redesigned the ANU's Possum Keeper Outerer to include a sensor door to prevent trapping of animals
One vehicle/kangaroo sliding gate has been fitted with ADIMA test kit (2 cameras) and is operating collecting data
A second hinged vehicle/kangaroo gate has been equipped with ADIMA Cam
A small 'bandicoot gate' has also been installed and equipped with ADIMA test kit
One Felixer has been paired with an ADIMA test kit camera which is collecting comparitive data for incorporation into the firing algorithm

Agreed end date

17/2/2025

Previous % complete

100

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003 - Design and build 6 test units for initial tool trials

Description

Test kits incorporating sensor and camera technology but potentially with over-engineered battery and suboptimal user interface and housing will be constructed within weather-proof enclosures to expedite development and controlled testing of detection, distinction and triggering technology of the six conservation tools and to inform final design criteria for optimised ADIMA Camera prototype.

Estimated end date

Actual end date

3/3/2025

Current % complete

100

Progress comments

The six initial test kits were delivered in March and have been installed on deer box, gate and Felixer trials as well as capturing possum data from Zoos Vic

Agreed end date

28/4/2025

Previous % complete

80

DISR - For release under the FOI Act Document 2 - FOI 300706

004 - Requirements capture, design, testing and hardware development of ADIMA Camera

Description

Although key specifications for the ADIMA Cameras have already been captured, optimal components for vision, sensing, power, data management need to be selected, sourced and tested, within V.0 test units. In addition, this milestone will also design the hardware for the final field-ready camera/sensor units.

Estimated end date

Actual end date

Current % complete

80

Progress comments

Considerable progress has been made on component selection and hardware design for more advanced V.1 cameras based on initial data from V.0 test kits. A second batch of 20 of these V.1 ADIMA Cameras is expected in early August to continue with testing and trials

The engineering team have live stream access to these test cameras and can modify settings and upload new firmware remotely

Agreed end date

1/7/2025

Previous % complete

80

DISR - For release under the FOI Act Document 2 - FOI 300706

005 - Initial trials of 6 pest animal control tools

Description

Each of the prototype tools will be tested in a convenient/controlled environment with access to high detection rates of threat species to optimise and confirm efficacy. These data will provide the basis for efficacy publications for each device. Fo example, the optimised possum keeper outerer will be trialed by preventing access to boxes with food inside at ZoosVic, where possums/rats are abundant, the nest deterrent will be trialed using abundant xxxxx, the deer repellent will be trialed at two Corroboree Frog breeding sites in Kosciosko National Park, and the automated gate opener will be trialed at Mallee Refuge on Eyre Peninsula, SA.

Estimated end date

9/2/2026

Actual end date

Current % complete

25

Progress comments

The trial PKO camera has been trialed at ZoosVic since May 2025, where it has collected considerable data and proven the capacity to distinguish possums and birds etc (see summary in appendix)
ADIMA Cams have been installed on 3 remotely activated electric gate designs and are currently collecting data

Agreed end date

20/10/2025

Previous % complete

30

DISR - For release under the FOI Act Document 2 - FOI 300706

006 - Cloud Software Development

Description

Software management systems will be developed to isolate, store and transmit key diagnostics and images of interest (notably automatically excluding all recognisable human images) , and enable updated firmware and algorithms to be uploaded to the ADIMA Cameras

Estimated end date

Actual end date

Current % complete

25

Progress comments

Consultants Orbital Engineering have developed the infrastructure and connectivity required to interrogate ADIMA cameras remotely which enables them to be rebooted or new firmware uploaded. The data stream also enables the engineering team to monitor diagnostics and make alterations where necessary
The masking of human identity has been completed, examples shown in appendix

Agreed end date

2/2/2026

Previous % complete

70

007 - Train AI algorithms to distinguish target animal species

Description

10,000's of images of animal species of relevance, including an increasing number of images collected from ADIMA cameras, will be used to train and retrain detection and identification algorithms and demonstrate improvement against quarantined datasets.

Estimated end date

Actual end date

Current % complete

40

Progress comments

The algorithms for Felixers and close-range identification of pest mammals have been significantly upgraded through detailed data curation, labelling and training
Partners and other stakeholders have contributed over 7 million training images for the different projects and an AI enginee is currently developing and upgrading algorithms Considerable progress has been made on these algorithms - details in appendix

Agreed end date

2/3/2026

Previous % complete

70

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008 - Embedded Firmware development of ADIMA Camera

Description

Customised, adaptable and user-friendly firmware will be developed to operate the ADIMA Camera, including the capacity to reliably trigger remote management devices through a built in actuator.

Estimated end date

Actual end date

Current % complete

30

Progress comments

Our systems engineers have been progressing the architecture, design and component selection for the embedded ADIMA camera that will be a long term outcome of this project. The inbuilt actuator that is currently being trialed and optimised on the test units will be replicated in the embedded version

Agreed end date

16/3/2026

Previous % complete

85

009 - Field trials to assess efficacy of all conservation management devices

Description

Project partners will conduct field trials of all management devices triggered by ADIMA cameras Data from these studies will augment information collected from Milestone 8 for inclusion in final reporting and peer-reviewed publication of case studies.

Estimated end date

Actual end date

Current % complete

10

Progress comments

Field trials of the three automated gates have just commenced
The first Felixer has been paired with an ADIMA Cam

The other trials are planned to commence in:
October (deer deterrent trials, ganggang cockatoo nest protector)
November (canetoad trials)
January 2026 (PKO trials)

Agreed end date

16/3/2026

Previous % complete

20

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010 - Design and build of V5 Felixer prototype, triggered by ADIMA Camera

Description

Building on previous milestones, Thylation R&D will fund the design and build of prototype V5 Felixer, to be woken from hibernation and triggered by separate ADIMA Cam, mounted above and behind firing line. This separation of the triggering and delivery mechanism will provide a greater field of view, giving more time and better quality images to improve the detection and discrimination of feral cats and foxes s 47(1)(b)

Estimated end date

Actual end date

Current % complete

25

Progress comments

s 47(1)(b)

Agreed end date

30/3/2026

Previous % complete

70

Where applicable, describe any project activities completed during the reporting period that are not captured above.

A presentation to the International Conservation Biology Congress on the ADIMA Cam activated gates was presented in May 2025

Is the overall project proceeding in line with your grant agreement?

Yes

Are there any planned events relating to the project that you are required to notify us about in accordance with your agreement?

No

Have you submitted your progress report in MERIT, DCCEEW's online reporting tool?

No

Project outcomes

Outline the project outcomes achieved to date.

A team of four full time and two part time engineers and two ecologists are now working on this project along with considerable engineering and administrative support from others. 6 test kit cameras have been installed and a further 20 updated cameras are soon to be deployed and considerable progress has been made on designing the embedded camera and detection algorithms for some key species. The human detection model has now been developed and a masking achieved (see image in attachments) that will be hardwired into field deployments.

Several images (some were videos in powerpoint presentation) of ADIMA progress are provided in the ICCB Conference presentation from June 2025 in the attachments section. These include images of the test kit cameras, the 3 gates that are currently being activated by the cameras and the Felixer setup paired with the camera. This presentation also acknowledged the contribution of this grant to the development. Presentations on other ADIMA Camera deliverables have been accepted for the South Australian Pest and Weed Conference in September and the Ecological Society of Australasia in November 2025.

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Project expenditure

Provide the following information about your eligible project expenditure.

If you are registered for GST, enter the GST exclusive amount. If you are not registered for GST, enter the GST inclusive amount. We may ask you to provide evidence of costs incurred.

Refer to the grant opportunity guidelines or contact us if you have any questions about eligible expenditure.

Expenditure table

Reporting period

1/1/2025 - 30/6/2025

DISR - For release under the FOI Act Document 2 - FOI 300706

Head of expenditure	Financial year	Agreed project budget	Expenditure approved prior to this reporting period	Expenditure claimed in this reporting period	Expenditure claimed to date	Estimated expenditure for next reporting period [30/6/2025-30/12/2025]	Estimated total project expenditure
Administrative support and overheads		$60,000	$15,000	$15,000	$30,000	$15,000	$60,000
2024/25		$30,000	$15,000	$15,000	$30,000	$0	$30,000
2025/26		$30,000	$0	$0	$0	$15,000	$30,000
Communications and engagement		$165,000	$0	$9,910	$9,910	$40,000	$165,000
2024/25		$30,000	$0	$9,910	$9,910	$0	$30,000
2025/26		$135,000	$0	$0	$0	$40,000	$135,000
Contingency costs		$0	$0	$0	$0	$0	$0
2024/25		$0	$0	$0	$0	$0	$0
2025/26		$0	$0	$0	$0	$0	$0
Contract		$2,445,000	$23,800	$404,570	$428,370	$800,000	$2,453,000
2024/25		$915,000	$23,800	$404,570	$428,370	$0	$1,508,000
2025/26		$1,530,000	$0	$0	$0	$800,000	$945,000
Domestic travel		$47,000	$464	$1,600	$2,064	$6,000	$47,000
2024/25		$30,000	$464	$1,600	$2,064	$0	$20,000
2025/26		$17,000	$0	$0	$0	$6,000	$27,000
Equipment		$1,028,000	$3,639	$18,009	$21,648	$220,000	$1,020,000
2024/25		$158,000	$3,639	$18,009	$21,648	$0	$90,000
2025/26		$870,000	$0	$0	$0	$220,000	$930,000
Independent audit costs		$5,000	$0	$0	$0	$0	$5,000
2024/25		$0	$0	$0	$0	$0	$0
2025/26		$5,000	$0	$0	$0	$0	$5,000
Total		$4,175,000	$76,478	$503,649	$580,127	$1,196,000	$4,175,000

DISR - For release under the FOI Act Document 2 - FOI 300706

Head of expenditure	Financial year	Agreed project budget	Expenditure approved prior to this reporting period	Expenditure claimed in this reporting period	Expenditure claimed to date	Estimated expenditure for next reporting period [30/6/2025-30/12/2025]	Estimated total project expenditure
Legal and financial advice		$0	$0	$0	$0	$0	$0
2024/25		$0	$0	$0	$0	$0	$0
2025/26		$0	$0	$0	$0	$0	$0
Salaries and on-costs		$375,000	$33,575	$54,560	$88,135	$95,000	$375,000
2024/25		$185,000	$33,575	$54,560	$88,135	$0	$130,000
2025/26		$190,000	$0	$0	$0	$95,000	$245,000
Staff training		$50,000	$0	$0	$0	$20,000	$50,000
2024/25		$10,000	$0	$0	$0	$0	$0
2025/26		$40,000	$0	$0	$0	$20,000	$50,000
Total		$4,175,000	$76,478	$503,649	$580,127	$1,196,000	$4,175,000

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Briefly explain the reason for any changes between the forecast and actual expenditure for the current reporting period and any significant changes to the forecast budget for the remainder of the project.

The main deviance from planned budge is underspend of contract expense. A milestone report and new payment for major engineering contractors (now employing 4 staff full time) has been delayed from end June to end July and is expected any day
Travel and equipment expenses will increase once field trials commence in the next period

Is the project expenditure broadly in line with the activity budget in the grant agreement?

Yes

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Project funding

Outline the sources of funding used to complete your project other than this grant.

Report Period Start Date

1/1/2025

Report Period End Date

30/6/2025

Contributions

Australian National University

Source type

Other non-government contribution

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$160,000	$1,500	$161,500	$360,000	
Total	$160,000	$1,500	$161,500	$360,000	

Ecological Horizons

Source type

Other non-government contribution

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$15,000	$15,000	$0	
In-Kind	$45,000	$5,000	$50,000	$75,000	
Total	$45,000	$20,000	$65,000	$75,000	

NSW Department of Climate Change, Energy, the Environment and

Source type

Other non-Commonwealth government grants

DISR - For release under the FOI Act Document 2 - FOI 300706

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$20,000	$1,500	$21,500	$35,000	
Total	$20,000	$1,500	$21,500	$35,000	

Robotics and Autonomous Systems for Conservation of Animals and Landscapes (RASCAL)

Source type

Other non-government contribution

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$2,000	$1,000	$3,000	$20,000	
Total	$2,000	$1,000	$3,000	$20,000	

Thylation R&D

Source type

Applicant's contribution

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$1,100,000	
In-Kind	$120,000	$40,000	$160,000	$355,000	
Total	$120,000	$40,000	$160,000	$1,455,000	

Wunambal Gaambera

Source type

Other non-government contribution

DISR - For release under the FOI Act Document 2 - FOI 300706

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$0	$0	$0	$20,000	
Total	$0	$0	$0	$20,000	

WWF Australia

Source type

Other non-government contribution

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$80,000	$1,000	$81,000	$95,000	
Total	$80,000	$1,000	$81,000	$95,000	

Other than the grant, was the project funded as outlined in the grant agreement?

Yes

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Bank account details

Have your bank account details changed since your last payment or since you last provided them?

If yes, we will provide you with a form to complete your new bank account details.
If you are not due any further payments, select not applicable.

No

DISR - For release under the FOI Act Document 2 - FOI 300706

Attachments

Agreed evidence

Evidence to demonstrate project progress and eligible expenditure

Provide evidence to support project progress and eligible expenditure such as quotes, paid invoices, purchase orders, contracts, photographs (before and after) demonstrating progress of agreed project activities.

Comments

Project report 2 appendix contains a list of images received from different stakeholders, an update on the image labelling and algorithm improvements and photos from field trials A separate attachment demonstrated the human masking component that has been developed A copy of financial transactions incurred during the reporting period is also appended copy of the presentation given to ICCB is attached in 'additional documents'

Ninticam human masking 1.jpg

Progress report 2 appendix.pdf

Thylation_R_D_Pty_Ltd_-_Account_Transactions for progress report 2.pdf

Additional documents

Additional supporting information

If you need to provide additional documents such as copies of published reports etc related to the project, you should attach them here.

Monday_M3_1145_talk5_Read_AB1735.pdf

DISR - For release under the FOI Act Document 2 - FOI 300706

Declaration

I am authorised by the grantee to submit this report and declare that:

- the information in this report is accurate, complete and not misleading and that I understand the giving of false or misleading information is a serious offence under the *Criminal Code 1995* (Cth)
- the activities identified in this report are for the purposes stated in the grant agreement
- I am aware of the grantee's obligations under their grant agreement, including the need to keep the Commonwealth informed of any circumstances that may impact on the objectives, completion and/or outcomes of the agreed project
- I am aware that the grant agreement empowers the Commonwealth to terminate the grant agreement and to request repayment of funds paid to the grantee where the grantee is in breach of the grant agreement.

By checking this box, I agree to all of the above declarations and confirm all of the above statements to be true.

Yes

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Application SNSGC000130

Report summary

Report

Progress report 3

Due date

30/1/2026

Status

Reviewed

Submitted date

23/2/2026

Submitted by

John Read

Report accepted date

24/2/2026

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Project progress

Milestones

Report against each milestone shown in your grant agreement.

001 - Requirements capture, design and test kit manufacture of novel Nest Protector

Description

Specifications for the ADIMA-triggered nest protector will be captured and appropriate test kit designed and manufactured

Estimated end date

Actual end date

10/12/2025

Current % complete

100

Progress comments

The nest protector has been designed and built and is awaiting a stable ADIMA Cam for testing. Testing is planned for early march 2026

Agreed end date

3/2/2025

Previous % complete

100

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002 - Build/Equip established deterrent tools with triggering via wireless ADIMA signal

Description

Build 2 x deer repellent sound broadcasters, 4 x 'Possum Keeper-outerers', 3 x nest protectors, 1 x automatic electric gate (with holding pen) and equip 2 x V3.2 Felixers and test triggering efficacy through use of ADIMA test kit.

Estimated end date

17/12/2025

Actual end date

10/12/2025

Current % complete

100

Progress comments

Each of these tools has been designed and built and are awaiting testing when we have a stable ADIMA Camera

Agreed end date

17/2/2025

Previous % complete

100

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003 - Design and build 6 test units for initial tool trials

Description

Test kits incorporating sensor and camera technology but potentially with over-engineered battery and suboptimal user interface and housing will be constructed within weather-proof enclosures to expedite development and controlled testing of detection, distinction and triggering technology of the six conservation tools and to inform final design criteria for optimised ADIMA Camera prototype.

Estimated end date

Actual end date

2/3/2025

Current % complete

80

Progress comments

The six initial test kits were delivered in March and have been installed on deer box, gate and Felixer trials as well as capturing possum data from Zoos Vic

s 47(1)(b)

Agreed end date

28/4/2025

Previous % complete

80

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004 - Requirements capture, design, testing and hardware development of ADIMA Camera

Description

Although key specifications for the ADIMA Cameras have already been captured, optimal components for vision, sensing, power, data management need to be selected, sourced and tested, within V.0 test units. In addition, this milestone will also design the hardware for the final field-ready camera/sensor units.

Estimated end date

Actual end date

11/3/2026

Current % complete

80

Progress comments

s 47(1)(b)

Agreed end date

1/7/2025

Previous % complete

80

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005 - Initial trials of 6 pest animal control tools

Description

Each of the prototype tools will be tested in a convenient/controlled environment with access to high detection rates of threat species to optimise and confirm efficacy. These data will provide the basis for efficacy publications for each device. Fo example, the optimised possum keeper outerer will be trialed by preventing access to boxes with food inside at ZoosVic, where possums/rats are abundant, the nest deterrent will be trialed using abundant xxxxx, the deer repellent will be trialed at two Corroboree Frog breeding sites in Kosciosko National Park, and the automated gate opener will be trialed at Mallee Refuge on Eyre Peninsula, SA.

Estimated end date

Actual end date

Current % complete

30

Progress comments

The tools have all been developed and tested in the worksho s 47(1)(b)

Limited field trials have been conducted on three gate designs and the Possum Keeper Outerer but it is hoped that Field trials will commence in earnest in March 2026

Agreed end date

20/10/2025

Previous % complete

30

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006 - Cloud Software Development

Description

Software management systems will be developed to isolate, store and transmit key diagnostics and images of interest (notably automatically excluding all recognisable human images) , and enable updated firmware and algorithms to be uploaded to the ADIMA Cameras

Estimated end date

Actual end date

Current % complete

70

Progress comments

Data management systems have been developed to access, store and upgrade key animal targets. Masking of human identity has been developed and tested, with full images of humans being masked but less important partial images still challenging to mask

Agreed end date

2/2/2026

Previous % complete

70

007 - Train AI algorithms to distinguish target animal species

Description

10,000's of images of animal species of relevance, including an increasing number of images collected from ADIMA cameras, will be used to train and retrain detection and identification algorithms and demonstrate improvement against quarantined datasets.

Estimated end date

Actual end date

Current % complete

70

Progress comments

Initial AI models were partly successful at detecting and identifying animals of interest for the field trial s 47(1)(b)

Agreed end date

2/3/2026

Previous % complete

70

008 - Embedded Firmware development of ADIMA Camera

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Description

Customised, adaptable and user-friendly firmware will be developed to operate the ADIMA Camera, including the capacity to reliably trigger remote management devices through a built in actuator.

Estimated end date

Actual end date

Current % complete

85

Progress comments

The 'Thylationlink' actuator has been developed and tested to trigger a range of conservation tools from the ADIMA Camera Field trials in March and April will be required to confirm efficacy

Agreed end date

16/3/2026

Previous % complete

85

009 - Field trials to assess efficacy of all conservation management devices

Description

Project partners will conduct field trials of all management devices triggered by ADIMA cameras Data from these studies will augment information collected from Milestone 8 for inclusion in final reporting and peer-reviewed publication of case studies.

Estimated end date

Actual end date

Current % complete

20

Progress comments

s 47(1)(b)

Agreed end date

16/3/2026

Previous % complete

20

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010 - Design and build of V5 Felixer prototype, triggered by ADIMA Camera

Description

Building on previous milestones, Thylation R&D will fund the design and build of prototype V5 Felixer, to be woken from hibernation and triggered by separate ADIMA Cam, mounted above and behind firing line. This separation of the triggering and delivery mechanism will provide a greater field of view, giving more time and better quality images to improve the detection and discrimination of feral cats and foxes s 47(1)(b)

Estimated end date

Actual end date

Current % complete

70

Progress comments

The Felixer firmware has been partly updated to enable a signal from the remote NintiCam and previous bluetooth blocking of Felixers has been disabled for test units
Great progress is also being made on the design of the V5 Felixer (which is outside the scope of this grant but complimentary) This Felixer is predicted to be 1/3 the size and weight of existing Felixers, have less biosecurity issu s 47(1)(b)

Agreed end date

30/3/2026

Previous % complete

70

Where applicable, describe any project activities completed during the reporting period that are not captured above.

In addition to the 6 deliverables of this grant, Thylation has also been developing a canetoad lure and a bait dispenser, also activated by the ADIMA Cameras

Is the overall project proceeding in line with your grant agreement?

No

Identify any changes or anticipated issues.

Comment on any impacts on project timing and outcomes and how you expect to manage these.

s 47(1)(b)

Are there any planned events relating to the project that you are required to notify us about in accordance with your agreement?

No

Have you submitted your progress report in MERIT, DCCEEW's online reporting tool?

No

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Project outcomes

Outline the project outcomes achieved to date.

Thylation have a comprehensive understanding of the requirements and specifications of the edgeAI cameras to be developed and have accumulated and curated a large dataset of animal images for AI training. Project partners are engaged and field trials are all planned s 47(1)(b)

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Project expenditure

Provide the following information about your eligible project expenditure.

If you are registered for GST, enter the GST exclusive amount. If you are not registered for GST, enter the GST inclusive amount. We may ask you to provide evidence of costs incurred.

Refer to the grant opportunity guidelines or contact us if you have any questions about eligible expenditure.

Expenditure table

Reporting period

1/7/2025 - 31/12/2025

DISR - For release under the FOI Act Document 3 - FOI 300706

Head of expenditure	Financial year	Agreed project budget	Expenditure approved prior to this reporting period	Expenditure claimed in this reporting period	Expenditure claimed to date	Estimated expenditure for next reporting period [30/6/2024-29/6/2026]	Estimated total project expenditure
Administrative support and overheads		$60,000	$30,000	$15,000	$45,000	$15,000	$60,000
2024/25		$30,000	$30,000	$0	$30,000	$0	$30,000
2025/26		$30,000	$0	$15,000	$15,000	$15,000	$30,000
Communications and engagement		$165,000	$9,910	$905	$10,815	$60,000	$70,815
2024/25		$30,000	$9,910	$0	$9,910	$0	$9,910
2025/26		$135,000	$0	$905	$905	$60,000	$60,905
Contingency costs		$0	$0	$0	$0	$0	$0
2024/25		$0	$0	$0	$0	$0	$0
2025/26		$0	$0	$0	$0	$0	$0
Contract		$2,445,000	$428,370	$650,492	$1,078,862	$380,000	$1,458,862
2024/25		$915,000	$428,370	$0	$428,370	$0	$428,370
2025/26		$1,530,000	$0	$650,492	$650,492	$380,000	$1,030,492
Domestic travel		$47,000	$2,064	$11,400	$13,464	$25,000	$38,464
2024/25		$30,000	$2,064	$0	$2,064	$0	$2,064
2025/26		$17,000	$0	$11,400	$11,400	$25,000	$36,400
Equipment		$1,028,000	$21,648	$32,567	$54,215	$90,000	$144,215
2024/25		$158,000	$21,648	$0	$21,648	$0	$21,648
2025/26		$870,000	$0	$32,567	$32,567	$90,000	$122,567
Independent audit costs		$5,000	$0	$0	$0	$7,000	$7,000
2024/25		$0	$0	$0	$0	$0	$0
2025/26		$5,000	$0	$0	$0	$7,000	$7,000
Total		$4,175,000	$580,127	$780,816	$1,360,943	$687,500	$2,048,443

DISR - For release under the FOI Act Document 3 - FOI 300706

Head of expenditure	Financial year	Agreed project budget	Expenditure approved prior to this reporting period	Expenditure claimed in this reporting period	Expenditure claimed to date	Estimated expenditure for next reporting period [30/6/2024-29/6/2026]	Estimated total project expenditure
Legal and financial advice		$0	$0	$0	$0	$12,000	$12,000
2024/25		$0	$0	$0	$0	$0	$0
2025/26		$0	$0	$0	$0	$12,000	$12,000
Salaries and on-costs		$375,000	$88,135	$67,702	$155,837	$85,000	$240,837
2024/25		$185,000	$88,135	$0	$88,135	$0	$88,135
2025/26		$190,000	$0	$67,702	$67,702	$85,000	$152,702
Staff training		$50,000	$0	$2,750	$2,750	$13,500	$16,250
2024/25		$10,000	$0	$0	$0	$0	$0
2025/26		$40,000	$0	$2,750	$2,750	$13,500	$16,250
Total		$4,175,000	$580,127	$780,816	$1,360,943	$687,500	$2,048,443

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Briefly explain the reason for any changes between the forecast and actual expenditure for the current reporting period and any significant changes to the forecast budget for the remainder of the project.

s 47(1)(b)

Thylation are committed to delivering on budge s 47(1)(b)
and will absorb additional costs

Is the project expenditure broadly in line with the activity budget in the grant agreement?

Yes

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Project funding

Outline the sources of funding used to complete your project other than this grant.

Report Period Start Date

1/7/2025

Report Period End Date

31/12/2025

Contributions

Australian National University

Source type

Other non-government contribution

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$45,000	$161,500	$206,500	$360,000	
Total	$45,000	$161,500	$206,500	$360,000	

Ecological Horizons

Source type

Other non-government contribution

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$15,000	$15,000	$0	
In-Kind	$15,000	$50,000	$65,000	$75,000	
Total	$15,000	$65,000	$80,000	$75,000	

NSW Department of Climate Change, Energy, the Environment and

Source type

Other non-Commonwealth government grants

DISR - For release under the FOI Act Document 3 - FOI 300706

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$2,000	$21,500	$23,500	$35,000	
Total	$2,000	$21,500	$23,500	$35,000	

Robotics and Autonomous Systems for Conservation of Animals and Landscapes (RASCAL)

Source type

Other non-government contribution

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$9,000	$3,000	$12,000	$20,000	
Total	$9,000	$3,000	$12,000	$20,000	

Thylation R&D

Source type

Applicant's contribution

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$145,000	$0	$145,000	$1,100,000	
In-Kind	$85,000	$160,000	$245,000	$355,000	
Total	$230,000	$160,000	$390,000	$1,455,000	

Wunambal Gaambera

Source type

Other non-government contribution

DISR - For release under the FOI Act Document 3 - FOI 300706

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$12,000	$0	$12,000	$20,000	
Total	$12,000	$0	$12,000	$20,000	

WWF Australia

Source type

Other non-government contribution

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$5,000	$81,000	$86,000	$95,000	
Total	$5,000	$81,000	$86,000	$95,000	

Other than the grant, was the project funded as outlined in the grant agreement?

Yes

DISR - For release under the FOI Act Document 3 - FOI 300706

Bank account details

Have your bank account details changed since your last payment or since you last provided them?

If yes, we will provide you with a form to complete your new bank account details.
If you are not due any further payments, select not applicable.

No

DISR - For release under the FOI Act Document 3 - FOI 300706

Attachments

Agreed evidence

Evidence to demonstrate project progress and eligible expenditure

Provide evidence to support project progress and eligible expenditure such as quotes, paid invoices, purchase orders, contracts, photographs (before and after) demonstrating progress of agreed project activities.

Comments

Appended are some images of progress todate Unfortunately because mp4 files could not be uploaded I cant share videos of gates being opened and closed as kangaroos and numbats move through them These files in order show 1,2 Two new designs of ADIMA Cameras in 2026 s 47(1)(b) 3 Use of a recognisable code that needs to be distinguished in correct position by ADIMA Camera in order to activate tool (in this case the kangaroo gate) 4) A second (slave) camera remote from main (master) camera on kangaroo gate. Progress this period included the capacity for multiple cameras to inform decision to open or close gate 5) four prototype canetoad lures to be tested to see if they improve efficacy of toad detection at Kimberley trial planned for March 19-21 6) PDF of a powerpoint presentation on the outcomes todate of this grant 7,8) Bespoke nest protector deterrent device designed and built for this project

DB Ninticam Feb 26.jpg

Thylation Ninticam Feb26.jpg

QR code reliability tester.jpg

slave and master roo gate.jpeg

toad lure trial SR.jpeg

Game Changers Field Trials.pdf

spray deterrent b.jpg

spray deterrent a.jpg

Additional documents

Additional supporting information

If you need to provide additional documents such as copies of published reports etc related to the project, you should attach them here.

DISR - For release under the FOI Act Document 3 - FOI 300706

Declaration

I am authorised by the grantee to submit this report and declare that:

- the information in this report is accurate, complete and not misleading and that I understand the giving of false or misleading information is a serious offence under the *Criminal Code 1995* (Cth)
- the activities identified in this report are for the purposes stated in the grant agreement
- I am aware of the grantee's obligations under their grant agreement, including the need to keep the Commonwealth informed of any circumstances that may impact on the objectives, completion and/or outcomes of the agreed project
- I am aware that the grant agreement empowers the Commonwealth to terminate the grant agreement and to request repayment of funds paid to the grantee where the grantee is in breach of the grant agreement.

By checking this box, I agree to all of the above declarations and confirm all of the above statements to be true.

Yes

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Application SNSGC000130

Report summary

Report

End of project report

Due date

30/7/2026

Status

Submitted

Submitted date

30/7/2026

Submitted by

John Read

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Project achievements

Milestones

Report against each milestone shown in your grant agreement.

001 - Requirements capture, design and test kit manufacture of novel Nest Protector

Description

Specifications for the ADIMA-triggered nest protector will be captured and appropriate test kit designed and manufactured

Estimated end date

Actual end date

9/12/2025

Current % complete

100

Progress comments

The nest protector was trialed in May and June 2026 see update below in milestone 5

Agreed end date

3/2/2025

Previous % complete

100

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002 - Build/Equip established deterrent tools with triggering via wireless ADIMA signal

Description

Build 2 x deer repellent sound broadcasters, 4 x 'Possum Keeper-outerers', 3 x nest protectors, 1 x automatic electric gate (with holding pen) and equip 2 x V3.2 Felixers and test triggering efficacy through use of ADIMA test kit.

Estimated end date

16/12/2025

Actual end date

9/12/2025

Current % complete

100

Progress comments

Updates in Milestone 5 below

Agreed end date

17/2/2025

Previous % complete

100

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003 - Design and build 6 test units for initial tool trials

Description

Test kits incorporating sensor and camera technology but potentially with over-engineered battery and suboptimal user interface and housing will be constructed within weather-proof enclosures to expedite development and controlled testing of detection, distinction and triggering technology of the six conservation tools and to inform final design criteria for optimised ADIMA Camera prototype.

Estimated end date

Actual end date

23/4/2026

Current % complete

100

Progress comments

s 47(1)(b)

A total of 10 'Thylation Ninticams' were manufactured and 12 'DB Ninticams' were built in February/March 2026 for the field trials, hence overachieving on Thylation's commitments under this gran s 47(1)(b)

Through April to June 2026 additional design changes enabled both 4G and illumination to be included into subsequent upgrades to the cameras.

Agreed end date

28/4/2025

Previous % complete

80

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004 - Requirements capture, design, testing and hardware development of ADIMA Camera

Description

Although key specifications for the ADIMA Cameras have already been captured, optimal components for vision, sensing, power, data management need to be selected, sourced and tested, within V.0 test units. In addition, this milestone will also design the hardware for the final field-ready camera/sensor units.

Estimated end date

Actual end date

1/7/2025

Current % complete

100

Progress comments

Two mature and stable test designs were built and tested from Feb to April 2026 s 47(1)(b)

Agreed end date

1/7/2025

Previous % complete

80

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005 - Initial trials of 6 pest animal control tools

Description

Each of the prototype tools will be tested in a convenient/controlled environment with access to high detection rates of threat species to optimise and confirm efficacy. These data will provide the basis for efficacy publications for each device. For example, the optimised possum keeper outerer will be trialed by preventing access to boxes with food inside at ZoosVic, where possums/rats are abundant, the nest deterrent will be trialed using abundant xxxxx, the deer repellent will be trialed at two Corroboree Frog breeding sites in Kosciosko National Park, and the automated gate opener will be trialed at Mallee Refuge on Eyre Peninsula, SA.

Estimated end date

Actual end date

17/10/2025

Current % complete

100

Progress comments

The nest protector was trialed in May and June 2026 by mounting it to a tree frequented by brush tailed possums. For two weeks prior to the trial, fruit lures were placed in two locations representing nest sites for hollow-nesting birds. Possum visitation was monitored by an ADIMA camera and fruit removal/retention was recorded each morning. The nest protector was mounted to 'protect' one bait site for a week and then moved to the other site for the following week. Visitation and bait removal were monitored as per the pre treatment period. During each week of operation the spray, light and sound were operated for the first 3 days and just the sound and light for the last 4 days.

The nest protector was correctly activated on a brush tailed possum at the first trial site which was deterred and did not return to the site, which is positive news. A rabbit was also subsequently scared off by the sprayer. At the second site .....

Agreed end date

20/10/2025

Previous % complete

30

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006 - Cloud Software Development

Description

Software management systems will be developed to isolate, store and transmit key diagnostics and images of interest (notably automatically excluding all recognisable human images) , and enable updated firmware and algorithms to be uploaded to the ADIMA Cameras

Estimated end date

Actual end date

8/4/2026

Current % complete

100

Progress comments

Continuous improvement iterations of the firmware and AI models have been uploaded remotely onto the fleet of ADIMA Cameras. This continuous improvement is ongoing as the gamechangers trials are concluded or extended and new trials of additional edgeAI triggered tools are initiated

Agreed end date

2/2/2026

Previous % complete

70

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007 - Train AI algorithms to distinguish target animal species

Description

10,000’s of images of animal species of relevance, including an increasing number of images collected from ADIMA cameras, will be used to train and retrain detection and identification algorithms and demonstrate improvement against quarantined datasets.

Estimated end date

Actual end date

1/6/2026

Current % complete

100

Progress comments

Detailed analysis by the Australian Institute of Machine Learning (AIML - Adelaide University) in Feb-March 2026 revealed that the efficacy of the AI algorithms had plateaued due to limited numbers of 'within domain training images captured with the lens and positioning of ADIMA Cameras. Since March, monthly updates to AI models have been trained and verified by Thyation's software engineer using the backbone provided by AIML to integrate recently 'scraped' images from ADIMA Cameras into the models, which has improved their recall.

Agreed end date

2/3/2026

Previous % complete

70

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008 - Embedded Firmware development of ADIMA Camera

Description

Customised, adaptable and user-friendly firmware will be developed to operate the ADIMA Camera, including the capacity to reliably trigger remote management devices through a built in actuator.

Estimated end date

Actual end date

13/3/2026

Current % complete

100

Progress comments

The Thylation-link actuator, which has been operating devices since October 2025 has been augmented in the final stages of this project by:
1) Area of Interest bounding boxes that enable different triggers on either side of a fence
2) Relabeling software that enables users to readily accept or correct edgeAI species identification
3) Removal of duplicate or inanimate events by deleting repeated identical images from the same bounding box
4) Email alerts send to users if animal of interest is identified by the ADIMA camera
5) Continuously updated diagnostics including frame rate, camera performance and temperature and activations provided

Agreed end date

16/3/2026

Previous % complete

85

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009 - Field trials to assess efficacy of all conservation management devices

Description

Project partners will conduct field trials of all management devices triggered by ADIMA cameras Data from these studies will augment information collected from Milestone 8 for inclusion in final reporting and peer-reviewed publication of case studies.

Estimated end date

Actual end date

Current % complete

90

Progress comments

The cane toad and feral cat detection and notification project was a success, with both species of interest being identified in the field by test cameras and the ranger alert notifications tool being demonstrated to not only Wanabal Gumbarra rangers but also other ADIMA camera users. This trial was written up in a regional newspaper - the online article is appended to this final report

The Felixer activation project was also a success, with details summarised in the draft manuscript in preparation (Maino et al) that is appended to this final report

The one way gate (nicknamed Bandigate) designed to let threatened wildlife out of reserves but not let cats, foxes or dogs enter was successfully trialed at the Mallee Refuge exclosure, with provisional results included in the manuscript (Read) appended to this final report

The possum keeper outerer was trialed successfully in Tasmania and correctly identified sugar gliders and possums as threats and closed the nest box containing fruit bait - pictures attached to this report

The bird nest deterrent did deter pests as planned but valid concerns were raised about trialing on threatened bird nests for fear of deterring the birds as well. This experience has prompted collaborators to draft a risk matrix manuscript describing conditions under which such trials should be contemplated and features that should be incorporated into the deterrent and triggering mechanism to maximise net benefit and minimise risk.

Agreed end date

16/3/2026

Previous % complete

20

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010 - Design and build of V5 Felixer prototype, triggered by ADIMA Camera

Description

Building on previous milestones, Thylation R&D will fund the design and build of prototype V5 Felixer, to be woken from hibernation and triggered by separate ADIMA Cam, mounted above and behind firing line. This separation of the triggering and delivery mechanism will provide a greater field of view, giving more time and better quality images to improve the detection and discrimination of feral cats and foxe s 47(1)(b)

Estimated end date

Actual end date

30/6/2026

Current % complete

100

Progress comments

The design and build of V5 Felixer is progressing ahead of schedule s 47(1)(b)
have completed CAD design drawings for the V5 Felixer which will involv s 47(1)(b)
and a series of other upgrades that will reduce the weight by two thirds s 47(1)(b)

delivery mechanisms have achieved this specification and we are now awaiting the relatively low risk production of the first completed prototype s 47(1)(b) , two months before schedule. Thylation have allocated separate funds, as planned, to complete this development post grant

s 47(1)(b) firing trialed and tested

s 47(1)(b)

Agreed end date

30/3/2026

Previous % complete

70

Have you submitted your progress report in MERIT, DCCEEW's online reporting tool?

No

Project outcomes

Outline the project outcomes achieved by the project end date.

This project delivered upon the 6 outcomes specified in the grant application and described in the project achievements, namely:

1) toad and feral cat detector - trialed and demonstrated with Wunambal Gaambera rangers at Mitchell Falls after collating thousands of canetoad images and training detector and classified models. Email notifications of cane toad and cat detections from cameras running at Mitchell falls from March to July are still being sent to ranger coordinator. Article on trial deployment published in Broome Observer

2)Automatic wildlife management gate: Ten of thousands of wildlife images were used for ai model training Two different designs trialed, a small version to enable bandicoot, small wallaby, numbat sized animals to egress bit not allow ingress by cats and foxes and a larger gate version that enables kangaroos and emus to safely egress without allowing ingress by dingoes or wild dogs. Images of both gates are included in the attachments, along with a draft manuscript documenting the background, strategy, success and limitations of the smart gate trial.

3) Nest protector: A bespoke device that deters nest predators with target triggered squirt, alarm sound and bright lights (each configurable) was designed, built and trialed by aiming to deter possums from food lures in central Victoria. Planned deployment at gang gang cockatoo nests were postponed by ANU collaborators due to uncertainties in disturbing nesting rare birds. A draft manuscript describing the technology and decision tree around safe deployment is included in the attachments

4) Possum Keeper Outerer: An edgeAI camera triggered door was retrofitted to the original PKO design and trialed near Hobart, where the two most dangerous predators of Swift parrots (sugar gliders and brush-tailed possums) were common. Trials (images in attachments) showed that the AI camera could detect and trigger closure of the nest box door when a glider or possum were detected, but the speed of door closure was not always sufficient to prevent access. Modifying the door to a rapid (but not forceful) gravity close is identified in the appended paper as the key step to implementing this technology for protecting nest-box using birds from arboreal predators.

5) Deer deterrent: Thousands of camera trap images of deer, then supplemented with AI camera images were used to train bespoke detector and classifier models to detect large ungulates. A robust field ready bluetooth activated speaker system triggered by deer detections was developed and both devices (along with Starlink comms) were installed by NPWS partners in Kosciusko National Park

6) V5 Felixer: Tens of thousands of images of feral cats, foxes and important nontarget species such as possums, quolls, wallabies, devils and wombats were used to train bespoke AI models for triggering Felixers The timing and accuracy of target identification was compared with existing Felixers (with more simple greyscale camera) showing likely increases in firing rates on cats and further reduced offtarget risks of Felixers. This study is written up comprehensively in the attached manuscript

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Do the achieved project outcomes align with those specified in the grant agreement?

Yes

Are there any planned events relating to the project that you are required to notify us about in accordance with your agreement?

No

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Project benefits

What benefit has the project achieved?

Thylation's edgeAi camera triggering of conservation tools project has provided the confirmation and assurance that edgeAi cameras are likely to be the future of advanced V5 Felixer design, thus improving the target specificity s 47(1)(b) of feral cat control.

Furthermore, this project has highlighted the variety of applications of this technology to the point that it is already being used for additional projects to:
1) trigger opening of deer feeders to prevent access by possums and corvids
2) provide real-time feedback to rangers of feral cat, fox and deer sightings in an important bird conservation sanctuary (Australian International Bird Sanctuary)
3) conduct proof of concept safe gates to enable kangaroos and emus to egress through barrier fences (eg the Dingo Fence) to mitigate against animal welfare risks and habitat degradation, whilst maintaining the integrity of the fence against predators
4) triggering target specific fox baiters (under development) to enable fox control in areas used by domestic or working dogs or dingoes
5) detecting activity of malleefowl and foxes at remote malleefowl mounds
6) Counting kangaroos and other herbivores independently on both sides of fences to help measure exclosure integrity and total grazing pressure management success
7) providing real time updates to indigenous rangers and hunters of rare wallaby, feral cat and fox sightings in the APY Lands

What ongoing impact will the project have?

As discussed above, this project is likely to provide the capacity for a wide range of conservation tools, for a wide range of users, including farmers and indigenous rangers.
The human masking capacity makes this technology particularly useful for Traditional Owners with cultural sensitivity concerns about their images being sent to 'the cloud' and also for deployment of wildlife monitoring or management tools in areas where public privacy is a concern.

The project also facilitated data capture and curation such that images and metadata of authorised events can be uploaded through WildObs to the Atlas of Living Australia, potentially generating 200,000+ valuable biological records a year from Felixer and NintiCams

Did the project result in any unexpected benefits?

Yes

Provide details of the unexpected benefits.

described above

Did the project result in any unexpected negative impacts?

No

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Is there any other information you wish to provide about your project?

No

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Project expenditure

Provide the following information about your eligible project expenditure.

If you are registered for GST, enter the GST exclusive amount. If you are not registered for GST, enter the GST inclusive amount. We may ask you to provide evidence of costs incurred.

Refer to the grant opportunity guidelines or contact us if you have any questions about eligible expenditure.

As this is your final budget claim, your estimated total project expenditure in the last column will be the same as all expenditure claimed to date.

Reporting period

1/7/2024 - 30/6/2026

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Head of expenditure	Financial year	Agreed project budget	Expenditure approved prior to this reporting period	Expenditure claimed in this reporting period	Expenditure claimed to date	Estimated total project expenditure
Administrative support and overheads		$60,000	$45,000	$15,000	$60,000	$60,000
2024/25		$30,000	$30,000	$0	$30,000	$30,000
2025/26		$30,000	$15,000	$15,000	$30,000	$30,000
Communications and engagement		$165,000	$10,815	$12,081	$22,896	$22,896
2024/25		$30,000	$9,910	$0	$9,910	$9,910
2025/26		$135,000	$905	$12,081	$12,986	$12,986
Contingency costs		$0	$0	$0	$0	$0
2024/25		$0	$0	$0	$0	$0
2025/26		$0	$0	$0	$0	$0
Contract		$2,445,000	$1,078,862	$541,285	$1,620,147	$1,620,147
2024/25		$915,000	$428,370	$0	$428,370	$428,370
2025/26		$1,530,000	$650,492	$541,285	$1,191,777	$1,191,777
Domestic travel		$47,000	$13,464	$19,123	$32,587	$32,587
2024/25		$30,000	$2,064	$0	$2,064	$2,064
2025/26		$17,000	$11,400	$19,123	$30,523	$30,523
Equipment		$1,028,000	$54,215	$86,811	$141,026	$141,026
2024/25		$158,000	$21,648	$0	$21,648	$21,648
2025/26		$870,000	$32,567	$86,811	$119,378	$119,378
Total		$4,175,000	$1,360,943	$756,810	$2,117,753	$2,117,753

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Head of expenditure	Financial year	Agreed project budget	Expenditure approved prior to this reporting period	Expenditure claimed in this reporting period	Expenditure claimed to date	Estimated total project expenditure
Independent audit costs		$5,000	$0	$2,250	$2,250	$2,250
2024/25		$0	$0	$0	$0	$0
2025/26		$5,000	$0	$2,250	$2,250	$2,250
Legal and financial advice		$0	$0	$10,484	$10,484	$10,484
2024/25		$0	$0	$500	$500	$500
2025/26		$0	$0	$9,984	$9,984	$9,984
Salaries and on-costs		$375,000	$155,837	$69,776	$225,613	$225,613
2024/25		$185,000	$88,135	$0	$88,135	$88,135
2025/26		$190,000	$67,702	$69,776	$137,478	$137,478
Staff training		$50,000	$2,750	$0	$2,750	$2,750
2024/25		$10,000	$0	$0	$0	$0
2025/26		$40,000	$2,750	$0	$2,750	$2,750
Total		$4,175,000	$1,360,943	$756,810	$2,117,753	$2,117,753

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Was the expenditure incurred in accordance with the activity budget in the grant agreement?

No

Explain the reason for a project underspend or overspend, or any other significant changes to the budget.

There was minor variation in two line items, expenditure in all other categories exactly met budget.

In 24/25 the contract amount claimed included an invoice for $23800 that was paid in January 25/26 so was overstated. The 25/26 numbers were adjusted to reflect that.

Staff training has a rounding difference more than our financial figures of $1

The Communications and Engagement category was underspent in 2025-26 to correct the input error for 2024-25 in that $9910 was entered instead of $991

$2750 was allocated to training expenditure in late 2025 but was reclassified as inkind expense for final report (but earlier entry couldn't be changed)

Importantly, all budgeted expenditure was acquitted in the audited financial report an s 47(1)(b) along with an invoice that was received after June 30 were absorbed both financially and inkind by Thylation R&D

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Project funding

Outline the sources of funding used to complete your project other than this grant.

Report Period Start Date

1/7/2024

Report Period End Date

30/6/2026

Contributions

Australian National University

Source type

Other non-government contribution

Contributions

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Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$85,500	$206,500	$292,000	$360,000	The planned trials at GangGang nest sites were postponed due to concerns about nest abandonment. A risk assessment publication concerning automated nest protectors is being prepared as a prelude to future field trials on rare bird nests, that will account for the remainder of the committed in kind contribution
Total	$85,500	$206,500	$292,000	$360,000	

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Ecological Horizons

Source type

Other non-government contribution

Contributions

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$15,000	$15,000	$0	
In-Kind	$35,000	$65,000	$100,000	$75,000	s 47(1)(b)
Total	$35,000	$80,000	$115,000	$75,000	

NSW Department of Climate Change, Energy, the Environment and

Source type

Other non-Commonwealth government grants

Contributions

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Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$11,500	$23,500	$35,000	$35,000	DCCEE staff deployed two cameras and deer deterrents in remote frog breeding ponds in Koskiusko National Park and needed to revisit both sites twice to fix damage cause by chewing foxes
Total	$11,500	$23,500	$35,000	$35,000	

Robotics and Autonomous Systems for Conservation of Animals and Landscapes (RASCAL)

Source type

Other non-government contribution

Contributions

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Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$0	$12,000	$12,000	$20,000	The RASCAL deterrent was unfortunately unfit for field deployment, which instead was coordinated by Thylation R&D, which meant that RASCALs planned field work did not eventuate
Total	$0	$12,000	$12,000	$20,000	

Thylation R&D

Source type

Applicant's contribution

Contributions

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Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$105,000	$145,000	$250,000	$1,100,000	Thylation has an outstanding contract with CapGemini payable on delivery of V5 prototypes in September 2026 of $424,000 and a planned furhter expenditure of $450,000 for final design, variants and tooling which will bring the cash contribution to the budgetted amount
In-Kind	$185,000	$245,000	$430,000	$355,000	Thylation's inkind contribution was much higher than
Total	$290,000	$390,000	$680,000	$1,455,000	

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Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
					budgeted because our engineers needed to backstop contractors who failed to deliver on time, and also greater role in project management that was needed to be absorbed
Total	$290,000	$390,000	$680,000	$1,455,000	

Wunambal Gaambera

Source type

Other non-government contribution

Contributions

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Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$8,000	$12,000	$20,000	$20,000	Three rangers travelled to the Mitchell Falls area for training and deployment for 3 days and then have subsequently assisted with image verification, dashboard optimisation and testing the ranger alert notification process
Total	$8,000	$12,000	$20,000	$20,000	

WWF Australia

Source type

Other non-government contribution

Contributions

DISR - For release under the FOI Act Document 4 - 300706

Contribution type	Contribution this period	Total previously reported	Contribution to date	Agreed total contribution	Comments
Cash	$0	$0	$0	$0	
In-Kind	$9,000	$86,000	$95,000	$95,000	
Total	$9,000	$86,000	$95,000	$95,000	

Other than the grant, was the project funded as outlined in the grant agreement?

Yes

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Bank account details

Have your bank account details changed since your last payment or since you last provided them?

If yes, we will provide you with a form to complete your new bank account details.
If you are not due any further payments, select not applicable.

No

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Attachments

Agreed evidence

Evidence to demonstrate project completion and eligible expenditure

Provide evidence to support project completion and eligible expenditure such as paid invoices, contracts, photographs (before and after) demonstrating completion of agreed project activities.

Comments

The attached PDF includes images ad descriptions of all Gamechangers field trials plus four additional projects conducted to help test and train NintiCams

pictorial support document for final report.pdf

Independent audit report

An audit report is used to verify you spent the grant in accordance with the grant agreement. Requirements for the audit report are attached to your grant agreement.

Comments

Audit documents from Pitcher Partners attached

pictorial support document for final report.pdf

Audit report - Thylation.pdf

Attachment C.pdf

Acquittal Signing page.pdf

Additional documents

Additional supporting information

If you need to provide additional documents such as copies of published reports etc related to the project, you should attach them here.

Screenshot 2026-07-24 202727.png
Enhanced_Felixer_manuscript DRAFT for Gamechangers report.pdf
AI to protect bird nests DRAFT for final report.pdf
Gate Trials manuscript july 26.pdf

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Declaration

I am authorised by the grantee to submit this report and declare that:

- the information in this report is accurate, complete and not misleading and that I understand the giving of false or misleading information is a serious offence under the *Criminal Code 1995* (Cth)
- the grant was spent in accordance with the grant agreement
- I am aware of the grantee's obligations under their grant agreement, including survival clauses
- I am aware that the grant agreement empowers the Commonwealth to terminate the grant agreement and to request repayment of funds paid to the grantee where the grantee is in breach of the grant agreement.

By checking this box, I agree to all of the above declarations and confirm all of the above statements to be true.

Yes

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Document 5 - FOI 300706

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INDEPENDENT AUDITOR'S REPORT

Independent audit report in relation to Thylation R&D Pty Ltd's statement of grant income and expenditure to the Department, represented by the Department of Industry, Science and Resources (the Department).

We have audited:

a. the accompanying statement of grant income and expenditure of Thylation R&D Pty Ltd for the period 01 of July 2024 to 30 June 2026, a summary of significant accounting policies and other explanatory information, and management's attestation statement thereon (together "the financial statement") reported online on Department's portal. The financial statement has been prepared by management using the cash basis of accounting described in note 3.2 to the financial statement; and

b. Thylation R&D Pty Ltd's compliance with the terms of the grant agreement between Thylation R&D Pty Ltd and the Department for the period 01 July 2024 to 30 June 2026 (the grant agreement).

Management's responsibility

Management is responsible for:

a. the preparation and fair presentation of the financial statement in accordance with the basis of accounting described in note 3.2, this includes determining that the cash basis of accounting is an acceptable basis for the preparation of the financial statement in accordance with the grant agreement;

b. compliance with the terms of the grant agreement;

c. such internal control as management determines is necessary to:

   i enable the preparation of the financial statement that are free from material misstatement, whether due to fraud or error; and

   ii enable compliance with the terms of the grant agreement.

Pitcher Partners is an association of independent firms. Pitcher Partners SA Partnership ABN 63 157 542 737. Liability limited by a scheme approved under Professional Standards Legislation. Pitcher Partners is a member of the global network of Baker Tilly International Limited, the members of which are separate and independent legal entities.

Independent audit report in relation to Thylation R&D Pty Ltd's statement of grant income and expenditure to the Commonwealth, represented by the Department of Industry, Science and Resources (the Department).

Auditor's responsibility

Our responsibilities are:

To express an opinion, based on our audit, on:

i the financial statement; and

ii Thylation R&D Pty Lyd's compliance, in all material respects, with the terms of the grant agreement.

We conducted our audit of the financial statement in accordance with Australian Auditing Standards. The applicable Standards require that we comply with relevant ethical requirements and plan and perform our work to obtain reasonable assurance about whether the financial statement is free from material misstatement and that Thylation R&D Pty Ltd has complied, in all material respects, with the terms of the grant agreement

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statement and about the Grantee's compliance with the grant agreement. The procedures selected depend on the auditor's judgement, including the assessment of the risks of material misstatement of the financial statement, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Grantee's preparation and fair presentation of the financial statement, and to the Grantee's compliance with the grant agreement, in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Grantee's internal control. An audit also includes evaluating the appropriateness of accounting policies used by management, as well as evaluating the overall presentation of the financial statement.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion:

a. the financial statement presents fairly, in all material respects, the grant income and expenditure of Thylation R&D Pty Ltd for the period 01 July 2024 to 30 June 2026 in accordance with the cash basis of accounting described in note 3.2 and the terms of the grant agreement, dated 01 July 2024 with the Department; and

b. Thylation R&D Pty Ltd has complied, in all material respects, with the requirements of the grant agreement between the organisation and the Department for the period 1 July 2024 to 30 June 2026.

DISR - For release under the FOI Act

Document 5 - FOI 30006

Independent audit report in relation to Thylation R&D Pty Ltd's statement of grant income and expenditure to the Commonwealth, represented by the Department of Industry, Science and Resources (the Department).

Basis of Accounting and Restriction on Distribution

Without modifying our opinion, we draw attention to note 3.2 to the financial statement, which describes the basis of accounting. The financial statement is prepared to provide information to the department in accordance with the grant agreement, dated 01 July 2024. As a result, the financial statement may not be suitable for another purpose.

Use of Report

This report has been prepared for Thylation R&D Pty Ltd and the Department in accordance with the requirements of the grant agreement between Thylation R&D Pty Ltd and the Department, dated 01 July 2024. We disclaim any assumption of responsibility for any reliance on this report to any persons or users other than Thylation R&D Pty Ltd and the Department, or for any purpose other than that for which it was prepared.

s 47F

Pitcher Partners

Pitcher Partners

Principal

Adelaide

Date: 27/07/2026

DISR - For release under the FOI Act

Document 6 - FOI 300706

PITCHER PARTNERS

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Department of Industry, Science and Resources
Of 10 Binara Street CANBERRA ACT 2600
GPO Box 2013
Canberra ACT 2601

I understand that the Commonwealth, represented by the Department of Industry, Science and Resources and Thylation R&D Pty Ltd "Grantee" have entered into a grant agreement for the provision of financial assistance under the Saving Native Species Grants to the Grantee for the project. The condition of funding under the grant agreement is that the Grantee provides a statement of grant income and expenditure certifying that expenditure on approved project items has been incurred within the relevant audit period and paid in accordance with the grant opportunity guidelines and is supportable by appropriate documentation.

In fulfilment of the condition, I hereby certify that:

a. I am a member of Chartered Accountants Australia and New Zealand (as a Public Practice Certified Member).

b. I have prepared the independent audit report on Thylation R&D Pty Ltd's statement of grant income and expenditure in accordance with the details of the grant agreement between the Grantee and the Commonwealth, project no SNSGC000130 dated 1 July 2024.

c. I have reviewed the grant agreement between the Grantee and the Commonwealth, project no SNSGC000130 dated 01 July 2024, and related grant opportunity guidelines and understand the requirements pertaining to financial reporting and eligible expenditure contained therein.

d. I have audited the online copy of Thylaton R&D Pty Ltd's statement of eligible expenditure that I used to prepare the independent audit report.

e. I have complied with the professional independence requirements of Chartered Accountants Australia and New Zealand. I specifically certify that I:

   i am not, and have not been, a director, office holder, or employee of Thylation R&D Pty Ltd or related body corporate of Thylation R&D Pty Ltd

   ii have not been previously engaged by Thylation R&D Pty Ltd for the purpose of preparing their Saving Native Species Grants application or any report required under the grant agreement

   iii have no financial interest in Thylation R&D Pty Ltd.

s 47F

Pitcher Partners

Pitcher Partners

Principal

Adelaide

Date: 27/07/2026

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Attachment A – Statement of grant income and expenditure

Grant opportunity name	Saving Native Species Grants for game changers for threatened species
Project number	SNSGC000130
Grantee	Thylation R&D Pty Ltd
Project title	Optimising ADIMA; AI-enabled conservation monitoring and management
Reporting period start date	01 July 2024
Reporting period end date	30 June 2026

This statement of grant income and expenditure must be prepared by the Grantee and contain the following:

- Statement of funds, Grantee contributions and other financial assistance*
- Statement of eligible expenditure*
- Notes to the statement of eligible expenditure, explaining the basis of compilation
- Certification by directors of the Grantee
- *We will compare this information to that detailed in the grant agreement.

1. Statement of funds, Grantee contributions and other financial assistance

Complete the following table for all cash [and in-kind] contributions for your project for the period in question, including:

- the grant
- other government funding
- your own contributions
- partner or other third party contributions
- any additional private sector funding.

Insert rows as required.

Contributor	Cash amount (GST excl)	[Estimated in-kind amount (GST excl)]	Total (GST excl)
Grant	$2,115,000	$0	$2,115,000
Grantee	$0	$680,000	$680,000
NSW Department of Climate Change, Energy, the Environment and	$0	$35,000	$35,000
Australian National University	$0	$292,000	$292,000

Contributor	Cash amount (GST excl)	[Estimated in-kind amount (GST excl)]	Total (GST excl)
Ecological Horizons	$0	$115,000	$115,000
Robotics and Autonomous Systems for Conservation of Animals and Landscapes (RASCAL)	$0	$12,000	$12,000
Wunambal Gaambera	$0	$20,000	$20,000
WWF Australia	$0	$95,000	$95,000
Total	$2,115,000	$1,249,000	$3,364,000

2. Statement of eligible expenditure

You must provide detail of the eligible expenditure that has been incurred and paid for during the reporting period in a 'Statement of eligible expenditure' that contains the following information.

No. of expenditure item	Eligible expenditure category (as per grant agreement)	Eligible expenditure item	Supplier name	Supplier invoice number	Supplier invoice date	Invoice amount GST exclusive	Date invoice paid (if applicable)

REFER ATTACHED TRANSACTION REPORT

Comment on any variance between the expenditure items and amounts detailed in the grant agreement and the actual items and amounts detailed in the attached statement of eligible expenditure.

There was minor variation in two line-items in the final report, expenditure in all other categories exactly met budget.

In 24/25 the contract amount claimed included an invoice for $23,800 that was paid in January 25/26 so was overstated. The 25/26 numbers were adjusted to reflect that.

Staff training has a rounding difference more than our financial figures of $1.

The Communications and Engagement category was underspent in 2025–26 to correct the input error for 2024–25 in that $9,910 was entered instead of $991.

$2,750 was allocated to training expenditure in late 2025 but was reclassified as in-kind expense for final report (but earlier entry couldn't be changed).

Importantly, all budgeted expenditure was acquitted in the audited financial report and s 47(1)(b) along with an invoice that was received after June 30, were absorbed both financially and in-kind by Thylation R&D.

3. Note to the statement of eligible expenditure

3.1 Eligible expenditure

The eligible expenditure as reported in the statement of eligible expenditure is in accordance with the grant opportunity guidelines.

3.2 Basis of compilation

This statement of eligible expenditure has been prepared to meet the requirements of the grant agreement between Thylation R&D Pty Ltd and the Commonwealth represented by the Department of Industry, Science and Resources. Significant accounting policies applied in the compilation of the statement of grant income and expenditure include the following:

The statement has been prepared in accordance with the requirements of the grant agreement and reflects all income, expenditure, and contributions relating to the project for the reporting period.

Expenditure is recognised when goods or services are performed or invoiced.

Costs are allocated to budget categories based on the nature of the expenditure.

In-kind contributions are recognised at fair value

Related-party costs are recorded on an arm’s-length basis and supported by documentation.

The same accounting treatments and classification principles are applied throughout the grant period.

Input errors or misallocations identified in prior periods are corrected where possible in the current reporting period to ensure accurate acquittal against the approved budget.

All reported expenditure is supported by invoices, receipts, payroll records, and evidence of payment.

4. Certification by directors

Thylation R&D Pty Ltd

SNSGC000130

For the period 01/07/2024 to 30/06/2026

We confirm that, to the best of our knowledge and believe, having made such enquiries as we considered necessary for the purpose of appropriately informing ourselves:

Statement of grant income and expenditure

a. We have fulfilled our responsibilities for the preparation of the statement of grant income and expenditure in accordance with the cash basis of accounting and the terms of the grant agreement with the Commonwealth, represented by the Department of Industry, Science and Resources dated 22 July 2024; in particular, the statement of grant income and expenditure presents fairly in accordance therewith.

b. All events subsequent to the date of the statement of grant income and expenditure which require adjustment or disclosure so as to present fairly the statement of grant income and expenditure, have been adjusted or disclosed.

c. [Where applicable] The effects of uncorrected misstatements are immaterial, both individually and in the aggregate, to the statement of grant income and expenditure as a whole. A list of the uncorrected misstatements is attached to this representation letter.

d. That all Grantee contributions and other financial assistance were spent for the purpose of the project and in accordance with the grant agreement and that the Grantee has complied with the grant agreement and relevant accounting policies.

e. That salaries and allowances paid to persons involved in the project are in accordance with any applicable award or agreement in force under any relevant law on industrial or workplace relations.

s 47F

Signature . .....

Name John Read

Director

Date 08/18/2026

s 47F

Signature .....

Name Geoff Thomas

Director

Date 08/19/2026

I certify that this statement of grant income and expenditure is the one used to prepare my independent audit report dated 27/07/2026 for the Department of Industry, Science and Resources.

s 47F

Pitcher Partners

Principal

Pitcher Partners

Adelaide

Date: 27/07/2026

Attachment A - SNSGC000130

Final Audit Report 2026-08-18

Created:	2026-08-18
By:	s 47F @thylation.com)
Status:	Signed
s 47(1)(b)	CBJCHBCAABAAmYSaL0MTlYHp_RPv6HSUnGJ0iXIQHjig

"Attachment A - SNSGC000130" History

Document created by s 47F
2026-08-18 - 04:58:39 GMT

Document emailed to John Read s 47F) for signature
2026-08-18 - 04:58:46 GMT

Document emailed to Geoff Thomas s 47F for signature
2026-08-18 - 04:58:47 GMT

Email viewed by John Read s 47F
2026-08-18 - 05:59:00 GMT

Document e-signed by John Read s 47F
Signature Date: 2026-08-18 - 05:59:19 GMT - Time Source: server - Signature appearance selected: IMAGE

Email viewed by Geoff Thomas s 47F
2026-08-18 - 20:52:16 GMT

Document e-signed by Geoff Thomas s 47F
Signature Date: 2026-08-18 - 20:53:32 GMT - Time Source: server - Signature appearance selected: IMAGE

Agreement completed.
2026-08-18 - 20:53:32 GMT

From: John Read s 47F
Sent: Tuesday, 3 March 2026 2:09 PM
To: s 47F
Cc: SNS - Saving Native Species Grants; s 47F

Subject: Re: Variation to Saving Native Species Grants for game changers for threatened species grant agreement SNSGC000130 [SEC=OFFICIAL]

OFFICIAL

CAUTION - This email originated from outside of the organisation. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Dear s 47F and SNS team

I confirm acceptance of the variation outlined in the appended email

Nyura wiru atunmara kanyintjanguru, thanks for caring

John Read

CEO **Thylation Group of Companies**

Director **Ecological Horizons**

M s 47F

E s 47F

Thylation Ecological Horizons

Enabling conservation through innovation.

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www.tetepare.org

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OFFICIAL

From: s 47F @industry.gov.au>
Sent: Tuesday, 3 March 2026 1:05 PM
To: s 47F
Cc: SNS - Saving Native Species Grants s 47E(d) @industry.gov.au>
Subject: Variation to Saving Native Species Grants for game changers for threatened species grant agreement SNSGC000130 [SEC=OFFICIAL]

OFFICIAL

Dear John,

I refer to the grant agreement between THYLATION R&D PTY LTD (the Grantee) and the Commonwealth. Thank you for contacting us on 27 February 2026 to explain the current situation for your project, and to request a variation to your agreement SNSGC000130. The variation below has been approved by the program delegate. This email constitutes a formal variation to the current agreement.

For this variation to take effect, you must confirm your acceptance of the terms of this variation by return email. The grant agreement is varied as follows:

Clause C is varied by deleting the Duration of the Grant and replacing it with the following:

The Activity starts on 01 July 2024 and ends on 30 June 2026, which is the Activity Completion Date.

The Agreement ends on 07 December 2026 which is the Agreement End Date.

Clause C is varied by deleting the Activity Schedule and replacing it with the following:

Milestone number	Milestone name and description	Due date
001	Requirements capture, design and test kit manufacture of novel Nest Protector Specifications for the ADIMA-triggered nest protector will be captured and appropriate test kit designed and manufactured	3/02/2025
002	Build/Equip established deterrent tools with triggering via wireless ADIMA signal Build 2 x deer repellent sound broadcasters, 4 x 'Possum Keeper-outerers', 3 x nest protectors, 1 x automatic electric gate (with holding pen) and equip 2 x V3.2 Felixers and test triggering efficacy through use of ADIMA test kit.	17/02/2025
003	Design and build 6 test units for initial tool trials Test kits incorporating sensor and camera technology but potentially with over-engineered battery and suboptimal user interface and housing will be constructed within weather-proof	30/06/2026

	enclosures to expedite development and controlled testing of detection, distinction and triggering technology of the six conservation tools and to inform final design criteria for optimised ADIMA Camera prototype.	
004	Requirements capture, design, testing and hardware development of ADIMA Camera Although key specifications for the ADIMA Cameras have already been captured, optimal components for vision, sensing, power, data management need to be selected, sourced and tested, within V.0 test units. In addition, this milestone will also design the hardware for the final field-ready camera/sensor units.	30/06/2026
005	Initial trials of 6 pest animal control tools Each of the prototype tools will be tested in a convenient/controlled environment with access to high detection rates of threat species to optimise and confirm efficacy. These data will provide the basis for efficacy publications for each device. For example, the optimised possum keeper outerer will be trialed by preventing access to boxes with food inside at ZoosVic, where possums/rats are abundant, the nest deterrent will be trialed using abundant xxxxx, the deer repellent will be trialed at two Corroboree Frog breeding sites in Kosciosko National Park, and the automated gate opener will be trialed at Mallee Refuge on Eyre Peninsula, SA.	30/06/2026
006	Cloud Software Development Software management systems will be developed to isolate, store and transmit key diagnostics and images of interest (notably automatically excluding all recognisable human images) , and enable updated firmware and algorithms to be uploaded to the ADIMA Cameras	30/06/2026
007	Train AI algorithms to distinguish target animal species 10,000's of images of animal species of relevance, including an increasing number of images collected from ADIMA cameras, will be used to train and retrain detection and identification algorithms and demonstrate improvement against quarantined datasets.	30/06/2026
008	Embedded Firmware development of ADIMA Camera	30/06/2026

	Customised, adaptable and user-friendly firmware will be developed to operate the ADIMA Camera, including the capacity to reliably trigger remote management devices through a built in actuator.	
009	Field trials to assess efficacy of all conservation management devices Project partners will conduct field trials of all management devices triggered by ADIMA cameras Data from these studies will augment information collected from Milestone 8 for inclusion in final reporting and peer-reviewed publication of case studies.	30/06/2026
010	Design and build of V5 Felixer prototype, triggered by ADIMA Camera Building on previous milestones, Thylation R&D will fund the design and build of prototype V5 Felixer, to be woken from hibernation and triggered by separate ADIMA Cam, mounted above and behind firing line. This separation of the triggering and delivery mechanism will provide a greater field of view, giving more time and better quality images to improve the detection and discrimination of feral cats and foxes. s 47(1)(b)	30/06/2026

Clause E is varied by deleting the clause and replacing it with the following:

The Grantee agrees to provide the following reports to the Commonwealth representative in accordance with the reporting requirements.

Report type	Period start date	Period end date	Agreed evidence	Due date
Progress Report 1	1/07/2024	31/12/2024	Evidence to demonstrate that Condition of Funding has been met, Evidence to demonstrate project progress and eligible expenditure	30/01/2025

Progress Report 2	1/01/2025	30/06/2025	Evidence to demonstrate project progress and eligible expenditure	30/07/2025
Progress Report 3	1/07/2025	31/12/2025	Evidence to demonstrate project progress and eligible expenditure	30/01/2026
Ad-Hoc Update	01/01/2026	31/03/2026	Update via email on Milestone Progress and Expenditure status. Photo and Video evidence of project activities that demonstrate progress to be uploaded via BGH Sigbox	30/04/2026
Final Report	1/07/2024	30/06/2026	End of Project Report due 30 days after Project End-date - Evidence to demonstrate project completion and eligible expenditure. Independent Audit Report due 90 days after Project End-date (28/09/2026)	30/07/2026

During the Agreement period, the Commonwealth may ask the Grantee for ad-hoc reports on the project. The Grantee must provide these reports in the timeframes notified by the Commonwealth.

Yours sincerely,

s 47F

Business Grants Division | Assurance and Grant Programs Branch
Department of Industry, Science and Resources

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Acknowledgement of Country

Our department recognises the First Peoples of this Nation and their ongoing cultural and spiritual connections to the lands, waters, seas, skies, and communities.

We Acknowledge First Nations Peoples as the Traditional Custodians and Lore Keepers of the oldest living culture and pay respects to their Elders past and present. We extend that respect to all First Nations Peoples.

