

Appendix 1: Terms of reference for the IPI review panel

1. The task of the Review Panel is to conduct an independent evaluation of the effectiveness and impact of the Insect Pollinators Initiative (IPI).
2. Specifically, the Panel is asked to review the information presented and to:
 - a. assess the quality and international standing of the research supported by IPI
 - b. assess the outcomes and achievements of the research supported through IPI, including the accessibility of the data, tools and resources produced
 - c. assess the potential economic and societal impacts of the research supported through IPI and the extent to which it is likely to inform the management and conservation of insect pollinators
 - d. comment on the extent to which IPI fostered collaboration between researchers from different disciplines
 - e. comment on the extent to which IPI built capacity and capability in UK pollinator research
 - f. comment on the extent to which IPI fostered knowledge exchange between researchers and stakeholders, and engagement with the public
 - g. comment on the coordination and management of IPI, including the effectiveness of:
 - workshops and other networking activities held as part of the initiative
 - the coordinator's role
 - h. comment on the effectiveness of the funders working together to deliver IPI
 - i. make recommendations on ways to build on successes and ways to address any identified gaps and issues present

Appendix 2: Membership of the IPI Review Panel

Name	Affiliation
Professor Alison Smith (Chair)	John Innes Centre
Professor Lin Field	Rothamsted Research
Professor Jeff Ollerton	University of Northampton
Professor Robert Pickard	Independent
Professor Mark Reed	Newcastle University
Professor Piran White	University of York

Appendix 3: Questionnaire sent to IPI Grant holders



EVALUATION OF THE INSECT POLLINATORS INITIATIVE

Survey of Insect Pollinators Initiative (IPI) grant holders

Thank you for participating in the evaluation of IPI.

Please note:

- The information you provide in this survey will be treated as confidential. All responses will be collated and made **non-attributable** before being viewed by the Review Panel or other staff employed by the funders.
- There are 16 questions in this survey. To help reduce the time taken to complete the survey we have used 'tick-box' questions where possible. However, we would also appreciate your written comments.
- Please return your completed questionnaire to valerie.nadeau@bbsrc.ac.uk.
- We are also collecting data on the outcomes and achievements of IPI grants. You should have received an e-mail recently asking you to ensure that you have submitted an up-to-date Researchfish entry for your IPI grant.

A. YOUR DETAILS

Please enter your details below:

Grant holder name	
Institution	

B: YOU AND YOUR RESEARCH

1. At the time of your IPI grant application, had you previously received funding to conduct research relating to pollinators from any of the funders listed?

Please select all that apply

	✓
BBSRC	
Defra	
NERC	
The Scottish Government	
Wellcome Trust	
Other funders (please specify below)	

Other funders

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If yes to any of the above, please indicate how long you had been working on pollinator research at the time of your application.

Please only consider your time as an independent scientist (i.e. do not include your time as a PhD student or postdoctoral researcher)

Less than 5 years	5 to 10 years	11 to 15 years	16 to 20 years	More than 20 years

2. Does the main focus of your research programme currently relate to pollinators?

Please select one option and provide brief comments if you wish

Yes	
No	
Not applicable (e.g. I am no longer actively involved in research)	

Comments

For example, if the main focus of your research programme currently relates to pollinators, please provide information regarding your current sources of funding

If the main focus of your research programme does not currently relate to pollinators, please comment on the reasons for this

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C: THE INSECT POLLINATORS INITIATIVE

In 2010 BBSRC, Defra, NERC, The Scottish Government and the Wellcome Trust launched the Insect Pollinators Initiative (IPI) to promote innovative research aimed at understanding and mitigating the biological and environmental factors that adversely affect insect pollinators.

Specific outcomes and impacts attributable to IPI grants should be recorded within Researchfish. Please, therefore, ensure that the Researchfish entry for your IPI grant is up to date.

This survey is intended to complement the information captured within Researchfish, such as your views on the effectiveness of key aspects of the initiative. You will not be asked for information which you have already provided in Researchfish.

IPI WORKSHOPS AND DISSEMINATION EVENT

As part of IPI, two workshops for grant holders and research staff were held. The IPI kick-off workshop was held in London in November 2010 and was intended to give grant holders the opportunity to meet each other and the newly-appointed IPI Coordinator, and to learn about the funders' ambitions for stakeholder interactions and policy engagement.

The mid-term workshop was held in York in November 2012 and was intended to be an opportunity for grant holders and their research staff to meet each other, share experiences and provide a progress update on the projects.

In addition, a dissemination event for grant holders, research staff and stakeholders was held in October 2014 in London.

The next two questions cover the workshops and the dissemination event separately.

3. How useful were the IPI kick-off and mid-term workshops for:

- you
- your research staff?

Please select one option for each item and provide brief comments if you wish

		1 not at all useful	2 somewhat useful	3 useful	4 very useful	Don't know	Did not attend
Kick-off workshop	You						
	Your staff						
Mid-term workshop	You						
	Your staff						

Comments

For example, please provide any specific examples of how you and/or your research staff benefitted from attending the workshops and/or ways in which the workshops could have been improved

4. How useful was the IPI dissemination event for:

- **you**
- **your research staff?**

Please select one option for each item and provide brief comments if you wish

	1 not at all useful	2 somewhat useful	3 useful	4 very useful	Don't know	Did not attend
You						
Your staff						

Comments

For example, please provide any specific examples of how you and/or your research staff benefitted from attending the dissemination event and/or ways in which the dissemination event could have been improved

ACADEMIC COLLABORATION

One of the objectives of IPI was to bring together researchers from different disciplines with different skills alongside existing expertise in pollinator research.

5. How effective was IPI in fostering collaboration between researchers:

- in your own project
- across the initiative as a whole?

Please select one option for each item and provide brief comments if you wish

	1 not at all effective	2 somewhat effective	3 effective	4 very effective	Don't know
Your project					
The initiative					

Comments

For example, please provide any specific examples of how the initiative fostered academic collaboration or ways in which it could have better fostered academic collaboration
You may also wish to highlight any interactions that would not have happened in the absence of IPI

CAPACITY BUILDING

One of the objectives of IPI was to build capacity and capability in UK pollinator research through bringing together researchers from different disciplines and with different skills alongside existing expertise in the pollinator research community, and training new researchers in this field.

6. How effective was IPI in building capacity and capability in UK pollinator research?

For example, you may wish to consider the effectiveness of IPI in attracting researchers from other disciplines to pollinator research and/or the effectiveness of IPI in training new researchers

Please select one option and provide brief comments if you wish

1 not at all effective	2 somewhat effective	3 effective	4 very effective	Don't know

Comments

DATA SHARING

An important consideration for the funders of IPI was ensuring that data and resources generated as a result of the initiative were made available to the wider research community. The funders worked with the Environmental Information Data Centre at NERC's Centre for Ecology and Hydrology to make their facilities available for data archiving.

7. What, if any, were the challenges associated with making data and resources from your project available to others?

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INFORMING POLICY AND PRACTICE

A key aim of IPI was to provide a solid evidence base with which to inform policies and practices aimed at reducing threats to pollinating insects. As part of this evaluation we wish to capture how well the initiative achieved this aim.

Please do not consider public engagement and science communication activities in this section, as these are captured in the next section.

8. Did you have any interactions with individuals outside the academic community as part of your IPI project? (e.g. users, practitioners, policymakers or other stakeholders)

Please select all that apply

	✓
Users/practitioners	
Policymakers	
Other stakeholders, excluding the public (please specify below)	

Other stakeholders

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If yes, to what extent did these interactions inform:

- your IPI project
- your wider research programme?

Please select one option for each item and provide brief comments if you wish

	1 no influence	2 minor influence	3 influence	4 strong influence	Don't know
Your IPI project					
Your wider research programme					

Comments

*For example, you may wish to provide specific examples of how your IPI project or wider research programme was influenced by your interactions with individuals outside the academic community
Please distinguish between interactions with different groups of stakeholders*

9. Overall, how effective was IPI at encouraging and supporting exploitation of the research by those outside the academic community? (e.g. users, practitioners, policymakers or other stakeholders)

Please select one option and provide brief comments on the strengths and weaknesses of the initiative in fostering exploitation of the research by those outside the academic community

Please do not consider public engagement and science communication activities, as these are captured in a subsequent question

1 not at all effective	2 somewhat effective	3 effective	4 very effective	Don't know

Strengths

Weaknesses

10. What, if any, are the barriers which limit the exploitation of research into pollinators by those outside the academic community and how might these barriers be addressed by funders?

PUBLIC ENGAGEMENT AND SCIENCE COMMUNICATION

11. How effective was IPI at fostering engagement with the public?

Please select one option and provide brief comments on the strengths and weaknesses of the initiative in fostering engagement with the public

1 not at all effective	2 somewhat effective	3 effective	4 very effective	Don't know

Strengths

Weaknesses

MANAGEMENT OF IPI

Compared with most other funding schemes, the funders of IPI played a more active role in the management of the initiative, for example in encouraging interaction between projects and with stakeholders.

12. How effective was the management of IPI?

Please do not consider the role of the coordinator in this question, as this is covered by the next question

Please select one option and provide brief comments on the strengths and weaknesses of the management of IPI

1 not at all effective	2 somewhat effective	3 effective	4 very effective	Don't know

Strengths

Weaknesses

A distinctive aspect of the management of IPI was the presence of a dedicated coordinator whose primary role was to facilitate knowledge exchange amongst grant holders and between grant holders and stakeholders.

13. How effective was the coordinator role?

Please consider both your own project and the initiative as whole

Please select one option and provide brief comments on the strengths and weaknesses of the coordinator role

1 not at all effective	2 somewhat effective	3 effective	4 very effective	Don't know

Strengths

Weaknesses

EFFECTIVENESS OF IPI

14. Overall, how effective was IPI in supporting research into pollinators compared to other modes of funding?

Please select one option and provide brief comments on the strengths and weaknesses of IPI

1 not at all effective	2 somewhat effective	3 effective	4 very effective	Don't know

Strengths

Weaknesses

D: SUPPORT FOR POLLINATOR RESEARCH

15. Within the context of a fixed amount of funding, how might funders best support research into pollinators in the future?

E. GENERAL

16. Please provide any other comments relevant to this evaluation.

Appendix 4: Questionnaire sent to IPI Stakeholders



EVALUATION OF THE INSECT POLLINATORS INITIATIVE

Survey of Insect Pollinators Initiative (IPI) stakeholders

Thank you for participating in the evaluation of IPI.

Please note:

- The information you provide in this survey will be treated as confidential. All responses will be collated and made **non-attributable** before being viewed by other staff employed by the funders.
- There are 9 questions in this survey. To help reduce the time taken to complete the survey we have used 'tick-box' questions where possible. However, we would also appreciate your written comments.
- Please return your completed questionnaire to valerie.nadeau@bbsrc.ac.uk.

A. YOU AND YOUR ORGANISATION

Please enter your details below:

First name	
Last name	
Organisation	
Position in organisation	
Email	

What is the nature of your organisation's primary interest in pollinators?

Please select all that apply

	✓
Nature conservation	
Beekeeping	
Use of pollination services	
Government policy	

Other (please specify below)	
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Other interest in pollinators

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B: THE INSECT POLLINATORS INITIATIVE

In 2010 BBSRC, Defra, NERC, The Scottish Government and the Wellcome Trust launched the Insect Pollinators Initiative (IPI) to promote innovative research aimed at understanding and mitigating the biological and environmental factors that adversely affect insect pollinators.

1. How familiar are you with the Insect Pollinators Initiative (IPI) and/or any of the research funded under this initiative?

Please select one option

I am not familiar with IPI	I am familiar with IPI but have not been involved with it	I have had some involvement with IPI	I have been closely involved with IPI

If you answered 'I am not familiar with IPI' to the above question, please skip to question 8.

2. How did you find out about the Insect Pollinators Initiative (IPI) and/or the research funded under this initiative?

Please select all that apply

	✓
Via an academic researcher working on an IPI project	
Via one of the IPI funders	
Via a colleague in your own sector	
Via the media (including specialist media)	
Other (please specify below)	

Other source of information about IPI

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3. What was your involvement with the Insect Pollinators Initiative (IPI)?

Please select all that apply

	✓
Attendance at an IPI event (e.g. workshop, launch event, dissemination event)	
Informal interactions with researchers working on an IPI project (e.g. discussions, meetings, presentations)	
Formal interactions with researchers working on an IPI project (e.g. collaborations, joint research projects, joint funding applications)	
Reading information produced as a result of IPI research (e.g. research papers, policy briefings, news articles, other printed or online written materials)	
Other (please specify below)	
None	

Other involvement with IPI

INFORMING POLICY AND PRACTICE

A key aim of IPI was to provide a solid evidence base with which to inform policies and practices aimed at reducing threats to pollinating insects. As part of this evaluation we wish to capture how well the initiative achieved this aim.

4. How effective was the Insect Pollinators Initiative at addressing your concerns relating to insect pollinators?

Please consider both the choice of research areas on which the initiative focused and the delivery of research in these areas

	1 Not at all effective	2 Somewhat effective	3 Effective	4 Very effective	Don't know
For your organisation					
For the sector in which you work					

Comments

5. Has your understanding of issues relating to insect pollinators changed as a result of research funded under the Insect Pollinators Initiative?

Yes	
No	

Comments

Please specify in what way(s) your understanding of issues relating to insect pollinators has changed

6. Have research findings from the Insect Pollinators Initiative informed or altered policies or practices:

- **within your organisation**
- **within the sector in which you work?**

*Please consider policies and practices within your organisation and within your sector as a whole
Please provide further details below*

	Yes	No	No, but likely to in the future	Don't know
Within your organisation				
Within the sector in which you work				

Details

Please provide details of any changes to policies or practices and how they were informed by the Insect Pollinators Initiative

If research findings from the Insect Pollinators Initiative did not inform or alter policies or practices, please comment on the reasons for this

7. How easy or difficult was it to make use of the research funded under the Insect Pollinators Initiative?

Please select one option and provide brief comments

Please consider, for example, how easy it was to become aware of the research findings, access the findings, interpret these, and put them into practice

1 Very difficult	2 Difficult	3 Neither easy nor difficult	4 Easy	5 Very easy	Don't know

Comments

C. GENERAL

8. What, if any, are the barriers which limit the exploitation of research into pollinators by those outside the academic community, and how might these barriers be addressed by funders?

9. Please provide any other comments relevant to this evaluation.

Appendix 5: Questionnaire sent to IPI Funders



Department
for Environment
Food & Rural Affairs



The Scottish
Government

wellcome trust

EVALUATION OF THE INSECT POLLINATORS INITIATIVE

Survey of Insect Pollinators Initiative (IPI) funders

Thank you for participating in the evaluation of IPI.

Please note:

- There are 10 questions in this survey. To help reduce the time taken to complete the survey we have used 'tick-box' questions where possible, but we would also appreciate your written comments.
- Please return your completed questionnaire to valerie.nadeau@bbsrc.ac.uk.

YOUR DETAILS

Please enter your details below:

Name	
Organisation	

THE INSECT POLLINATORS INITIATIVE

In 2010 BBSRC, Defra, NERC, The Scottish Government and The Wellcome Trust launched the Insect Pollinators Initiative (IPI) to promote innovative research aimed at understanding and mitigating the biological and environmental factors that adversely affect insect pollinators.

IPI AND YOUR ORGANISATION

1. What were your organisation's strategic objectives for participating in IPI?

*Please consider your organisation's objectives at the outset
In addition, if your organisation's objectives changed over the course of the initiative, please comment on this*

2. How successful was IPI in meeting your strategic objectives as a funding organisation?

1	2	3	4
not at all successful	somewhat successful	successful	very successful

Comments

For example, you may wish to comment on the reasons for the success or lack of success of IPI in meeting your strategic objectives as a funding organisation

MANAGEMENT OF IPI

3. Please comment on BBSRC's leadership and management of IPI, including how well your organisation's needs and objectives were addressed.

Compared with most other funding schemes, the funders of IPI played a more active role in the management of the initiative, for example in encouraging interaction between projects and with stakeholders.

4. How beneficial was the more active approach to the management of IPI?

Please consider both the results of adopting a more active management approach and the resources required to adopt this approach

The IPI coordinator role is considered separately in the next question

1	2	3	4
not at all beneficial	somewhat beneficial	beneficial	very beneficial

Comments

Another distinctive aspect of the management of IPI was the presence of a dedicated coordinator whose primary role was to facilitate knowledge exchange amongst grant holders and between grant holders and stakeholders.

5. How beneficial was the coordinator role?

1 not at all beneficial	2 somewhat beneficial	3 beneficial	4 very beneficial

Comments

BENEFITS AND CHALLENGES

6. What were the key benefits associated with multiple funders contributing to the design, implementation and management of IPI?

7. What, if any, were the main challenges associated with multiple funders contributing to IPI, and how were these addressed?

Challenges

How these challenges were addressed

LESSONS LEARNED

8. Please suggest ways in which IPI could have been improved.

9. What, if any, recommendations would you make for future initiatives involving multiple funders?

Please consider future initiatives more generally, not specifically those relating to pollinators

GENERAL

10. Please provide any other comments relevant to this evaluation.

Appendix 6: Questionnaire sent to the IPI Coordinator



Department
for Environment
Food & Rural Affairs



The Scottish
Government

wellcome^{trust}

EVALUATION OF THE INSECT POLLINATORS INITIATIVE

Questionnaire for the Insect Pollinators Initiative (IPI) coordinator,
Dr Adam Vanbergen

Thank you for participating in the evaluation of IPI.

Please note:

- There are 11 questions in this survey.
- Please return your completed questionnaire to valerie.nadeau@bbsrc.ac.uk.

THE INSECT POLLINATORS INITIATIVE

In 2010 BBSRC, Defra, NERC, The Scottish Government and The Wellcome Trust launched the Insect Pollinators Initiative (IPI) to promote innovative research aimed at understanding and mitigating the biological and environmental factors that adversely affect insect pollinators.

MANAGEMENT OF IPI

1. Please comment on BBSRC's leadership and management of IPI.

Compared with most other funding schemes, the funders of IPI played a more active role in the management of the initiative, for example in encouraging interaction between projects and with stakeholders.

2. How beneficial was the more active approach to the management of IPI?

The coordinator role is considered separately in the next question

1 not at all beneficial	2 somewhat beneficial	3 beneficial	4 very beneficial

Comments

COORDINATOR ROLE

Another distinctive aspect of the management of IPI was the presence of a dedicated coordinator.

3. What were the key contributions made to the initiative by the coordinator role?

4. What, if any, were the main challenges associated with the coordinator role?

5. How well was the coordinator role supported by the IPI Project Management Group?

KNOWLEDGE EXCHANGE

One of the objectives of IPI was to bring together researchers from different disciplines with different skills alongside existing expertise in pollinator research.

6. How successful was IPI in fostering knowledge exchange among academic researchers?

Please comment on:

- key achievements
- any challenges

As part of your answer, please consider the extent to which the role of the coordinator contributed to fostering knowledge exchange among academic researchers

Achievements

Challenges

A key aim of IPI was to provide a solid evidence base with which to inform policies and practices aimed at reducing threats to pollinating insects. As part of this evaluation we wish to capture how well the initiative achieved this aim.

7. How successful was IPI in fostering knowledge exchange between researchers and stakeholders?

Please comment on:

- **key achievements**
- **any challenges**

As part of your answer, please consider the extent to which the role of the coordinator contributed to fostering knowledge exchange between researchers and stakeholders

Achievements

Challenges

DATA SHARING

An important consideration for the funders of IPI was ensuring that data and resources generated as a result of the initiative were made available to the wider research community.

8. How successful was IPI at making data and resources from IPI projects available to others?

Please comment on:

- key achievements
- any challenges

As part of your answer, please consider the extent to which the role of the coordinator contributed to making data and resources from IPI projects available to others

Achievements

Challenges

LESSONS LEARNED

9. Please suggest ways in which IPI could have been improved.

10. What, if any, recommendations would you make for future initiatives involving multiple funders?

Please consider future initiatives more generally, not specifically those relating to pollinators

GENERAL

11. Please provide any other comments relevant to this evaluation.