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Methodological Protocol to assess the impacts of pesticide and fertiliser use on adjacent pollinator conservation measures

Prepared by the EKLIPSE Secretariat, Knowledge Coordination Body Focal points, and Methods Expert Group Focal Point working on:

What are the impacts of pesticide and fertiliser use in farmland on the effectiveness of adjacent pollinator conservation measures such as flower strips and hedgerows?

Submitted August 2019, version 2 October 2019

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35 **List of abbreviations**

- 36 AEPM: Agri-Environment-Pollinator Measures
- 37 CAP: Common Agricultural Policy
- 38 DG AGRI: Directorate-General for Agriculture and Rural Development
- 39 DG ENV: Directorate-General for Environment
- 40 DoW: Document of Work
- 41 EC: European Commission
- 42 EFA: Ecological Focus Areas
- 43 ES: Ecosystem Services
- 44 EU: European Union
- 45 JFF: Joint Fact-Finding
- 46 JRPF: Joint Research Priority Finding

47 **Introduction**

48 This protocol is based on a request initially put to EKLIPSE on its third call for requests
49 (CfR.3/2018) by Pollinis, a European NGO based in France, which campaigns for the
50 protection and conservation of pollinators, notably bees, and promotes the transition
51 towards alternative agricultural practices, away from the systematic use of pesticides in
52 Europe.

53
54 A number of policy actions at the European level are now in place that may support
55 populations of pollinators and ensure the sustainable provision of pollination services.
56 These include different measures under the EU Common Agricultural Policy (CAP):
57 voluntary agri-environment and climate adaptation/mitigation measures under the rural
58 development policy, as well as cross-compliance and the 3 mandatory “Greening”
59 measures under Pillar 1 (crop diversification, maintenance of permanent grassland and 5%
60 of arable land dedicated to Ecological Focus Areas (EFA), for example trees, hedges).

61
62 The recent “EU Pollinators’ Initiative” sets strategic objectives and a set of actions to be
63 taken by the EU and its Members States to address threats to pollinators. One action under
64 this EU Pollinators’ Initiative is the development of a guidance document on land
65 management practices that benefit pollinators, which is aimed at managing authorities,
66 advisory services and farmers.

67
68 Part of this guidance will cover pollinator conservation measures, such as management of
69 field margins, hedgerows, or other non-cropped habitats. There remains, however, a need
70 to understand better the impact of actions in the wider environment on these pollinator
71 conservation measures. In particular, there is a need to determine the impact of pesticides
72 and fertilisers in farmland on adjacent pollinator conservation measures, in order to
73 develop guidelines on the most effective pollinator-friendly agro-infrastructure.

74
75 This protocol should be read in conjunction with the Document of Work (DoW), which
76 explores the existing knowledge in this area, who the main knowledge holders are, how
77 the request relates to existing policy processes at the EU level, and identifies the most
78 suitable programme of work and methodology for answering this request. The protocol
79 aims to describe the programme of work and methodology in more depth and to allow for
80 its review by the larger community.

81

82 **The request**

83 As mentioned previously, the request has been reformulated in a scoping phase as follows:
84 “What are the impacts of pesticide and fertiliser use in farmland on the effectiveness of
85 adjacent pollinator conservation measures such as flower strips and hedgerows?”

86

87 Initially, the following methods were suggested to address the request:

88

- 89 - Rapid evidence assessment: if the scoping review (Call for Knowledge) suggested
90 sufficient evidence available, and a clear set of keywords could be identified to filter
91 relevant evidence from the vast quantity of evidence on land management for
92 pollinators and pesticide impacts upon them.
- 93 - Expert consultation: if there was little available published evidence.
- 94 - Joint Fact-Finding (JFF): if there was little available published evidence.

95

96 The call for knowledge revealed the number of available peer-reviewed studies on the
97 specific topic to be rather limited. Expert consultation and Joint Fact-Finding methods were
98 therefore considered more carefully (Dicks et al. 2017¹).

99

100 The JFF method was chosen because it suits a situation where there is little published
101 evidence available, but relevant evidence may be held by the private sector or NGOs; where
102 there are likely to be different viewpoints and beliefs among stakeholder groups; and
103 where there is potential for controversy in both the evidence and public opinion. However,
104 the full JFF method is a several stage method that incorporates other research synthesis
105 activities. It has the disadvantages of being time-consuming and resource intensive and
106 having a high potential for bias according to who takes an active role in the process. For
107 these reasons, the initial steps in a JFF approach was selected for this activity, where
108 research needs are identified, based on existing knowledge among the stakeholders.

109 **Methodological approach**

110 We propose a multi-stakeholder consultation based on the first phase of a Joint Fact-
111 Finding activity, focused on identifying research priorities. This involves representatives of
112 all perspectives and opposing positions, including experts from relevant disciplines and
113 non-experts, to ensure a participative process that balances all views.

114

115 **A Joint Research Priority Finding (JRPF) approach**

116 In the Joint Fact-Finding (JFF) method described in Dicks et al. (2017), separate coalitions
117 of scientists, policy-makers and other stakeholders with differing viewpoints and interests
118 work together to develop data and information, analyse facts and forecasts, and develop
119 common assumptions and informed opinions. Finally, they use the information they have
120 developed to reach decisions together. As such, according to Schultz², “joint fact-finding
121 is really mediation within mediation – an attempt to resolve a sub-conflict over facts as
122 part of an effort to deal with the overall conflict.”

123

¹ Dicks LV, Haddaway N, Hernández-Morcillo M, Mattsson B, Randall N, Failler P, Ferretti J, Livoreil B, Saarikoski H, Santamaria L, Rodela R, Velizarova E, and Wittmer H. (2017). *Knowledge synthesis for environmental decisions: an evaluation of existing methods, and guidance for their selection, use and development – a report from the EKLIPSE project.*

² Schultz, Norman. "Joint Fact-Finding." Beyond Intractability. Eds. Guy Burgess and Heidi Burgess. Conflict Information Consortium, University of Colorado, Boulder. Posted: July 2003.

<http://www.beyondintractability.org/essay/joint-fact-finding>

124 We will use the same type of multi-stakeholder committee and the same principle of
 125 focusing on available data and information to mitigate conflict, but the ultimate objective
 126 will be to jointly identify research needs and priorities (stage 1 in JFF). We call the
 127 truncated process 'Joint Research Priority Finding' (JRPF).

128
 129 JFF has the following characteristics (Dicks et al. 2017), which also apply to JRPF, except
 130 that we expect it to be less time-consuming:
 131

Cost	Resources to run the process. Usually requires a skilled facilitator or mediator
Time required	Usually rather time-consuming; however depends on when it is used and the nature of the question (complex and contested vs. relatively straightforward)
Repeatability	Medium. The outcome depends on personalities involved; process rather than "a method"
Transparency	Creating protected spaces might sometimes be needed, especially in mediation; however, the result and the process can be communicated transparently
Risk of bias	High if not all relevant groups included and the process is not well facilitated
Scale (or level of detail)	Any
Capacity for participation	Can be limited to relevant scientists/stakeholders holding opposing views but can also include elements to involve the general public
Data demand	The process does not require any data at the outset. The subsequent data demands depend on what is requested by participants, and the question to be addressed
Types of knowledge	All
Types of output	Shared understanding and clarity about remaining disagreements Policy learning
Specific expertise required	Qualified facilitators or mediators are essential for success

132
 133
 134 Susskind et al. (2007)³ identify six steps in JFF (for more information on the full six steps
 135 of a traditional JFF see Annex 1), the first three of which are described below and will
 136 constitute our JRPF process. These steps have been complemented with the findings of
 137 Ehrmann et al. (1999)⁴:

- 138
 139 - Step 1 (prior to the workshop): Assess the need for JFF/JRPF – identify dispute,
 140 identify a convener, identify a neutral professional, undertake JFF assessment;
 141 determine whether JFF is an appropriate method. Through the last EKLIPSE Call for
 142 Requests, Pollinis identified a societal need around the potential impacts of
 143 pesticide and fertiliser use on adjacent pollinator conservation measures. EKLIPSE
 144 acted as 'convener' and helped scope the question with Pollinis. In addition,

³ Susskind, Lawrence, Patrick Field, Mieke van der Wansem, and Jennifer Peyser. "Integrating scientific information, stakeholder interests, and political concerns." *Integrated resource and environmental management: Concepts and practice* (2007): 181-203.

⁴ Ehrmann, John R., and Barbara L. Stinson. "Joint fact-finding and the use of technical experts." *The consensus building handbook* (1999): 375-99.

145 EKLIPSE put out a Call for Knowledge to identify the key knowledge on the topic,
146 and potential knowledge gaps. EKLIPSE, including representatives of the
147 Knowledge Coordination Body and the Methods Expert Group assessed based on
148 the above that an adaptation of JFF focusing on research priorities would be an
149 appropriate method for addressing the issue put to EKLIPSE by Pollinis. EKLIPSE
150 appointed Estelle Balian as neutral professional to lead the JRPF process. As part
151 of her role in this first step, she is responsible for documenting stakeholder
152 interests and determining incentives to participate in the JRPF process.

- 153 - Step 2: Convene the JRPF process. At the JRPF workshop, the participants come to
154 agreement on ground rules, roles, responsibilities and timeframe. In addition,
155 participants review existing knowledge (building on the outcomes of the Call for
156 Knowledge), conflicting data and interpretations; identify key issues (carried out in
157 large part through the scoping of the request); generate general questions. The
158 neutral professional identifies and helps balance differences in stakeholder
159 capacities.
- 160 - Step 3 (during the workshop): Define the main knowledge gaps and research
161 needs. The participants during the JRPF workshop will identify the main
162 knowledge gaps remaining from the general questions (Step 2); agree the
163 research questions needed to address these knowledge gaps; identify relevant
164 methods of information gathering/analysis and highlight the benefits and
165 disadvantages of each; determine costs and benefits of additional research;
166 determine whether proposed research will enable stakeholders to meet their
167 interests. One methodology potentially used in this step could be the Nominal
168 Group Technique⁵, to first elicit and then agree on what the research priorities
169 are.

171 There are a number of potential advantages in using our JRPF approach to address this
172 request. These are as follows:

- 173 - There is relatively little information on the topic of “impact of pesticides and
174 fertilizers on pollinators conservation measures”, with what appears to be an
175 element of factual disagreement.
- 176 - A comparatively small group can be involved, as long as all opposing positions are
177 represented.
- 178 - The short time frame for this request means that the first three steps of the JFF
179 could be a viable approach.
- 180 - There may be other benefits to the JFF, including bringing potentially conflicting
181 stakeholders together to start developing joint research priorities and building
182 trust through a focus on facts, rather than potentially more intractable issues such
183 as values or worldviews.

185 Stakeholder assessment

⁵ Hugé, J, Mukherjee, N. The nominal group technique in ecology & conservation: Application and challenges. *Methods Ecol Evol.* 2018; 9: 33– 41. <https://doi.org/10.1111/2041-210X.12831>; Colton, J. W., & Bissix, G. (2005). Developing agritourism in Nova Scotia: Issues and challenges. *Journal of Sustainable Agriculture*, 27, 91–112. https://doi.org/10.1300/J064v27n01_06.

186 A key step in the process is the initial stakeholder assessment. The aim is to identify all
187 key stakeholders relevant to this request at the EU scale and assess their interests,
188 capacities, and potential for reaching consensus-based agreements.

189
190 In the case of this request, a number of key stakeholders will be needed, including
191 representatives of:

- 192 - conventional farming organisations
- 193 - organic farming organisations
- 194 - landowners' organisations
- 195 - agro-chemical manufacturers
- 196 - NGOs promoting pollinators
- 197 - beekeeping organisations
- 198 - EU level decision-making on pollinator conservation
- 199 - EU level decision-makers on agriculture

200
201 We propose to invite experts from all these perspectives to join an Expert Working
202 Group. An open call for experts will be launched to invite relevant experts to join the JRPF
203 and a group of about 18-20 experts will be selected to ensure balance in disciplines and
204 sectors.

205
206 Our resulting expert working group will include members of each of the key stakeholder
207 groups.

208

209 **EKLIPSE JRPF process**

210 In order to come to an agreement on stakeholder representatives (above), ground rules,
211 an agenda, timetable and facilitator, in EKLIPSE we take a much more in-depth approach
212 than suggested by Suskind et al. by putting this protocol out for review, to get comments
213 and suggestions back from the wider public.

214

215 In addition, we suggest the following in terms of the JRPF process:

216

217 **Ground rules**

218

219 A few principles should be applied during the process:

- 220 - The process is voluntary and will require the agreement by key stakeholders to
221 constructively engage in the effort
- 222 - Different views should be expressed with mutual respect and the use of correct
223 language
- 224 - Confidentiality of the discussions is required: "Chatham House Rule" applies.
225 Quotes/photos on social media are not allowed. Delegates will jointly agree on
226 what is communicated of the discussions after the workshop.
- 227 - Facilitation is neutral and impartial.

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Agenda

The workshop will last 1.5 days:

- Day 1: 12h-18h: the first day will focus on currently available evidence and identification of gaps and uncertainties/disagreements
- Day 2: 9h-17h: The second day will focus on research needs and priorities and ways to address them.

Timetable

August 2019	Methodological protocol (MP) submitted for peer review
End August 2019	Finalization of methodological protocol and approval by the KCB
September 2019- November 2019	Call for experts to join the JRPF Finalizing JRPF design
Early December 2019	JRPF workshop
Mid-December 2019	Review process via open consultation, organized by EKLIPSE
End January 2020	Final report to requesters

Facilitator

The suggested facilitator is Estelle Balian, an independent professional facilitator and conflict mediator, also member of the EKLIPSE Knowledge Coordination Body.

According to Susskind et al., the role of the facilitator in JFF is as follows:

- encouraging effective representation and participation of all stakeholders;
- helping the group meet its agreed goals as efficiently as possible;
- helping individual participants and the group as a whole with essential steps in the JRPF process;
- identifying and helping to resolve conflicts among participants, acting as an impartial mediator and problem-solver.

Consultation on the report

Feedback on the findings from the workshop will be sought from a range of stakeholders with the report publicised on the EKLIPSE KNOCK forum and encouraging comments. After

270 a month-long consultation, all comments will be summarized and added to the report in an
271 Annex.

272 **Expected outputs and formats**

273 There will be three outputs of this work:

274

275 1) A report providing the key findings related to the joint fact-finding activity including
276 comments from a public consultation.

277 2) A PowerPoint presentation for POLLINIS and key stakeholders presenting the key
278 findings of the request.

279 3) A press release outlining the key findings of the report.

280

281 **Anticipated tasks**

282 To support the process, EKLIPSE will facilitate the following tasks:

283

- Carry out preparatory work and facilitate a Joint Research Priority Finding workshop

284

The workshop will allow delegates to:

285

- o Exchange currently available facts and knowledge on the impact of pesticides and fertilisers in farmland on adjacent pollinator conservation measures

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287

- o Discuss and agree on some of these facts and knowledge

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289

- o Identify further knowledge/research needs to support the effective conservation of pollinators.

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- Outline the summary of the workshop in a draft report, which will be put out for consultation, with feedback being added to a final report and handed over to the requester, as well as being publically available on the EKLIPSE website.

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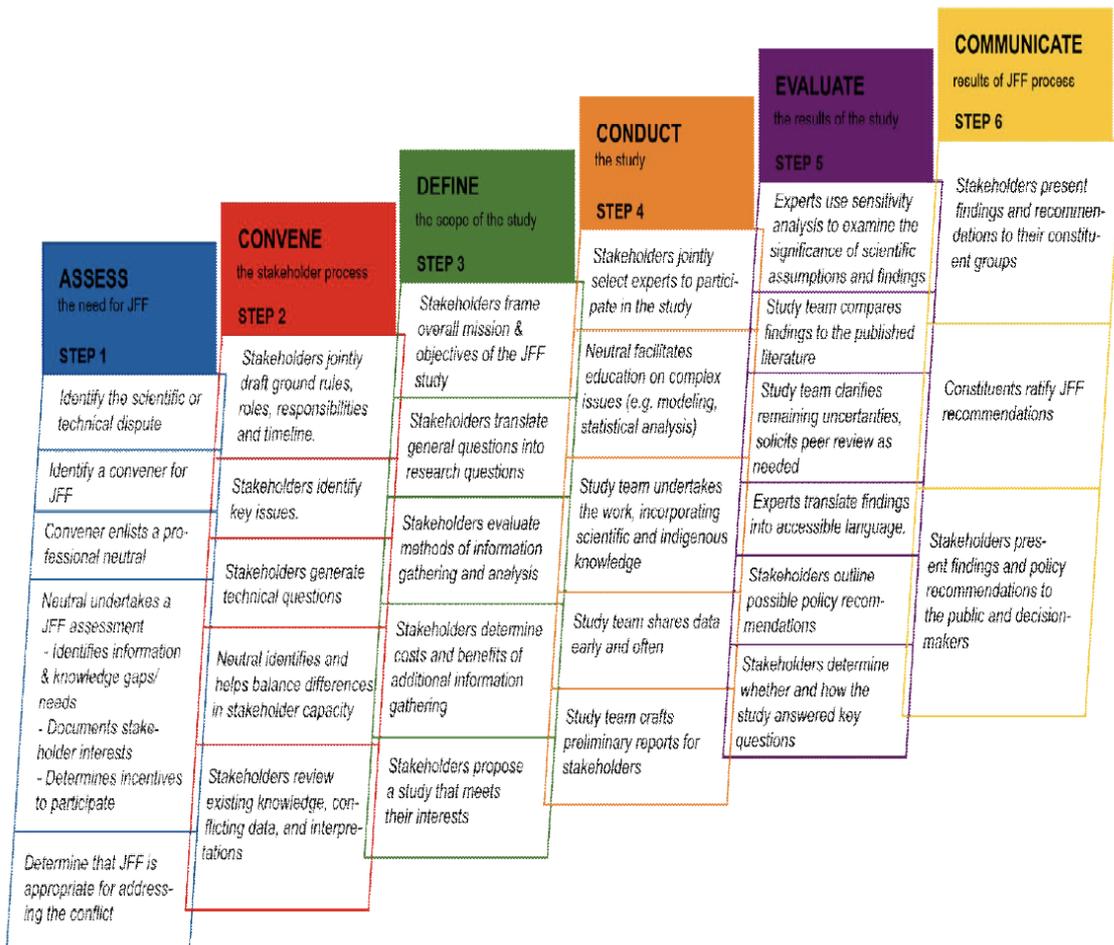
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Annex 1. Full JFF process

KEY STEPS IN THE JOINT FACT FINDING PROCESS



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Source: Adler et al., <https://www.mediate.com/pdf/Joint%20Fact%20Finding.pdf>