

Improving exposure assessment methodologies for epidemiological studies on plant protection products

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Project aims

- Better understand performance of exposure assessment methods used in previous epidemiological studies
- Recommend improvements in practice for future studies
- Assess reliability and external validity of surrogate measures used to assign exposure within individuals/groups and evaluate size/effects of recall bias on misclassification

How will we do this?

We will:

- Use previously collected exposure data from existing epidemiological studies and historical records
- Assess current exposure (using biomonitoring) in various populations to examine performance of exposure assessment approaches
- Compare and contrast performance of exposure assessment methods within existing epidemiological studies

Independent Advisory Board convened:

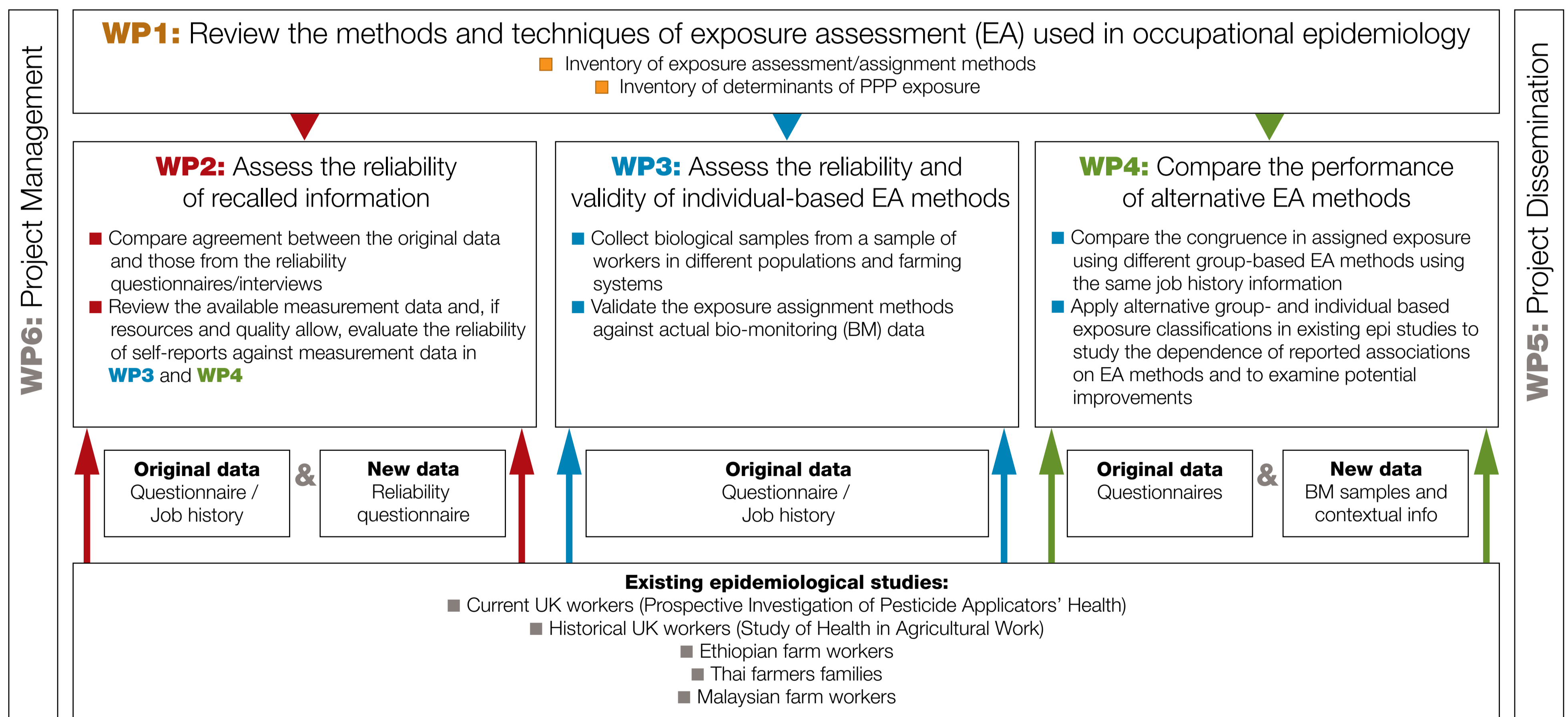
- Prof Aaron Blair (Chair), National Cancer Institute (USA)
- Prof Len Levy, Cranfield University (UK)
- Dr Mark Montforts, RIVM (The Netherlands)
- Prof Silvia Fustinoni, University of Milan (Italy)

Main project outcomes:

- Validation of an accepted and adaptable semi-quantitative individual-based exposure assessment method against measured levels of urine pesticide metabolites in a broad range of settings
- Comparison of reliability and performance of several grouped- and individual-based exposure assessment methods

Timeline

- 1st September 2017 – project started
- 3-year project



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