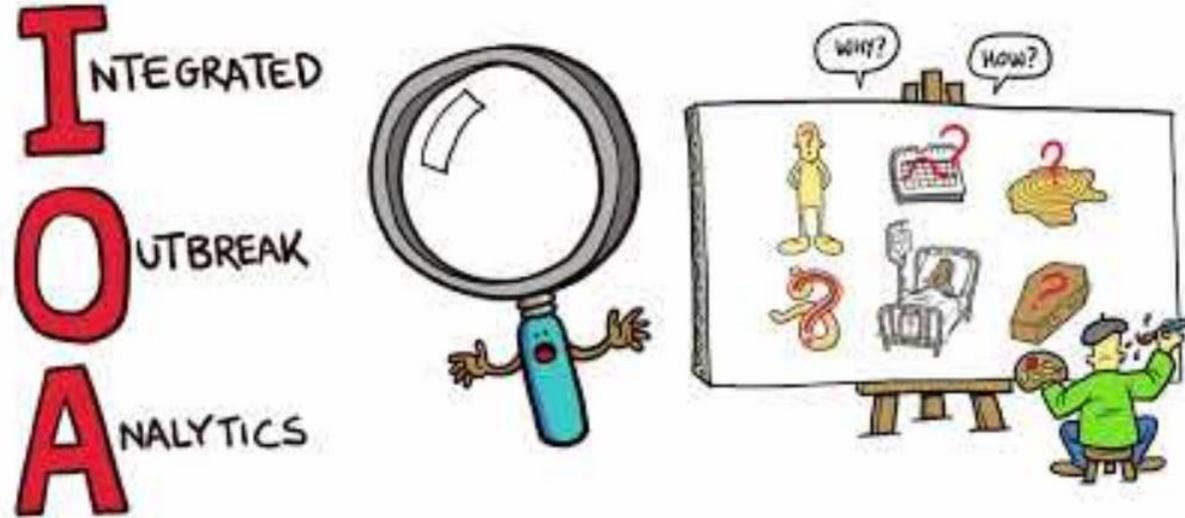

Integrated outbreak analytics (IOA)

EPI-WIN Webinar

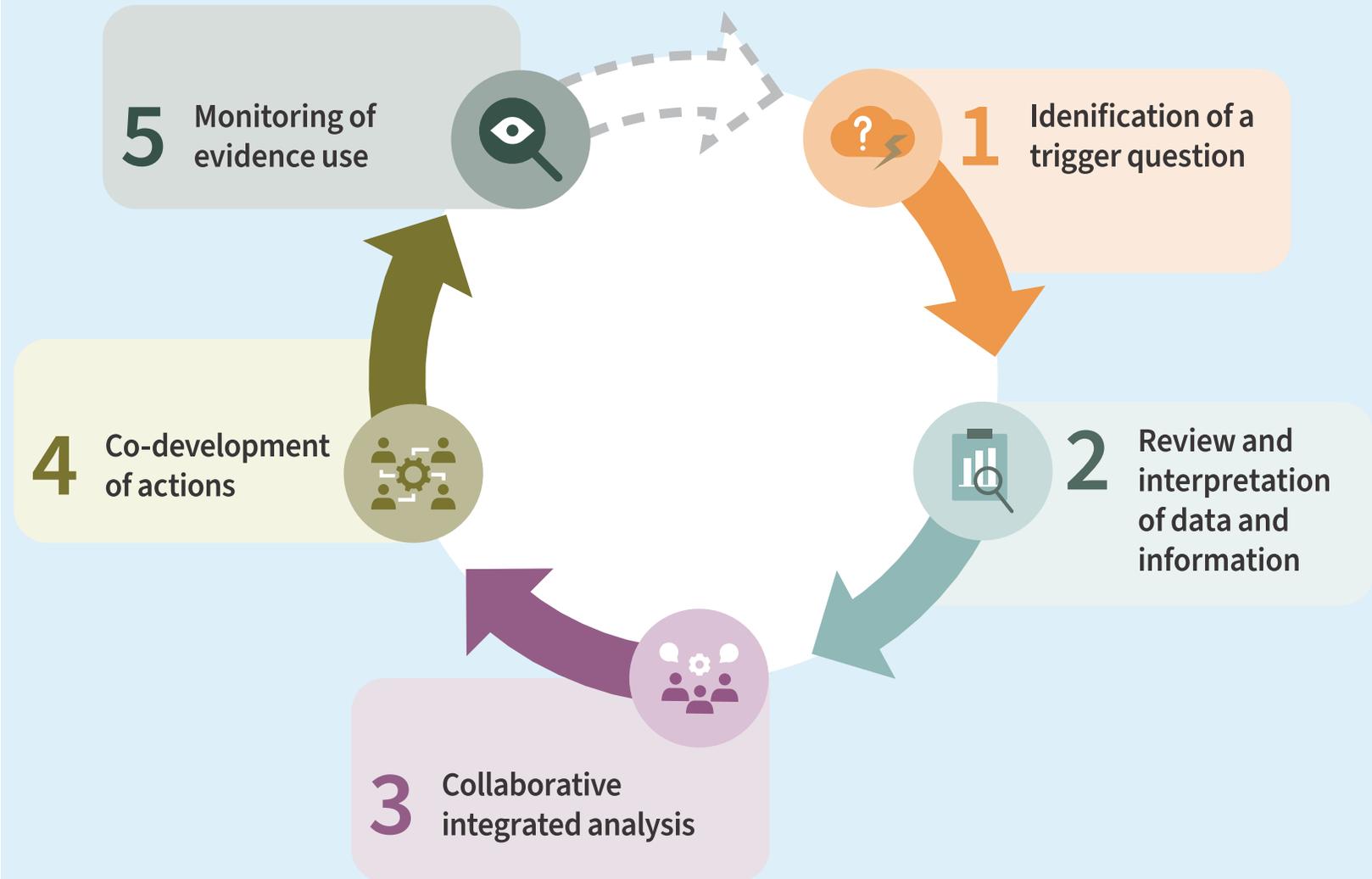
03 September 2025

The IOA approach

What is IOA ?



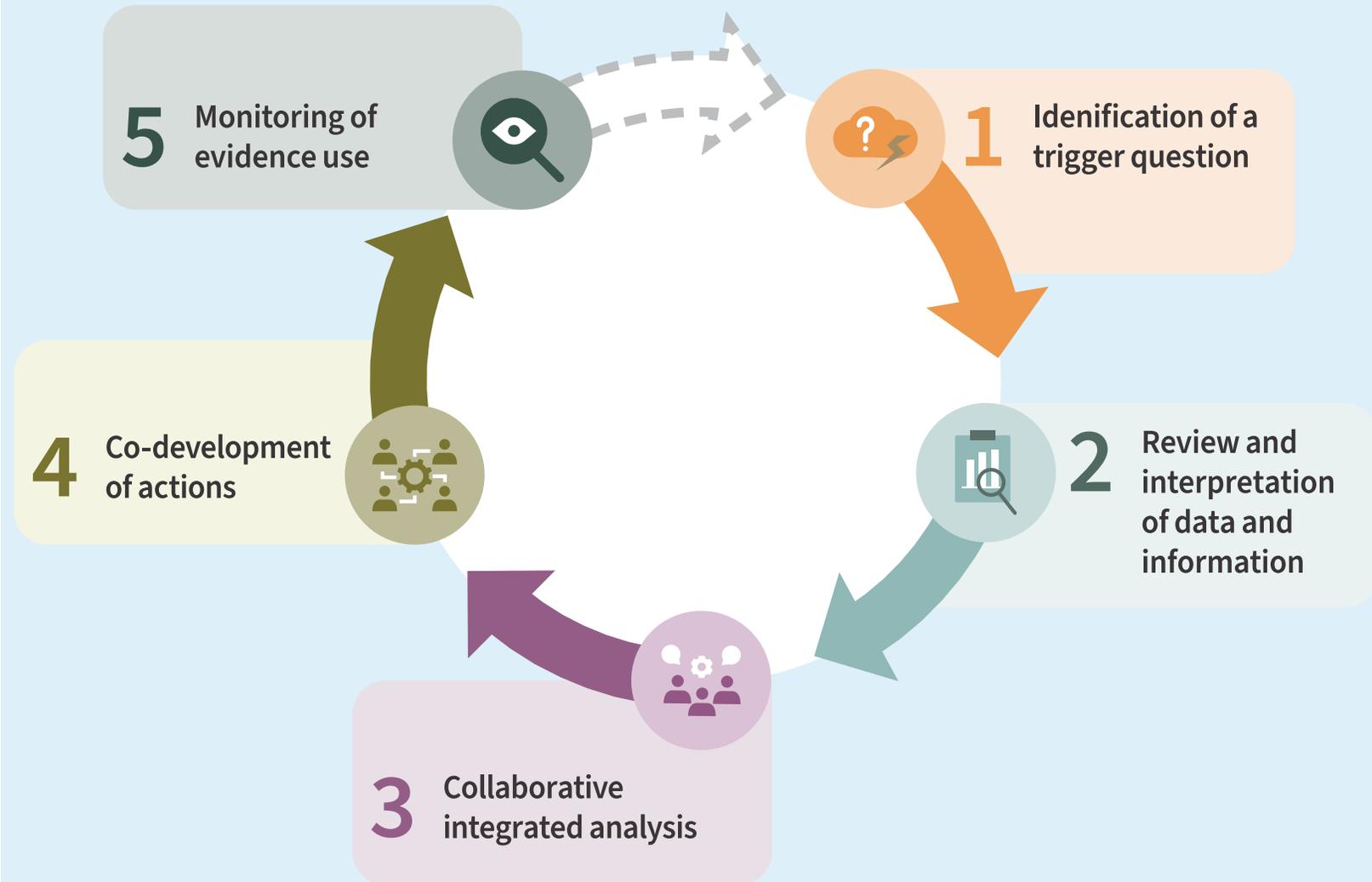
The IOA process



The IOA process

1. Trigger question

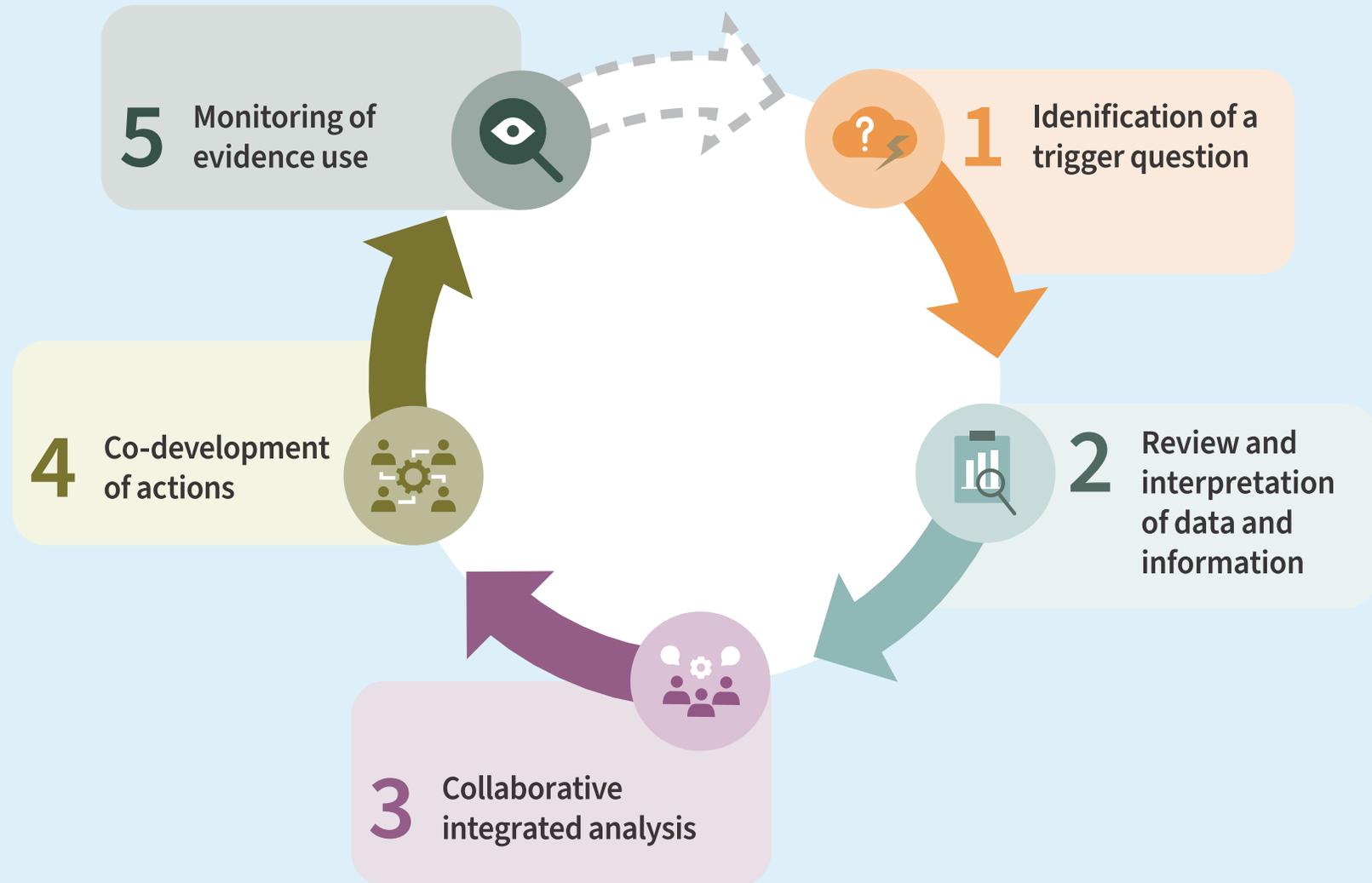
- Specific question that arises from an unusual or unexpected observation
- Once identified, needs to be validated



The IOA process

2. Review and interpretation

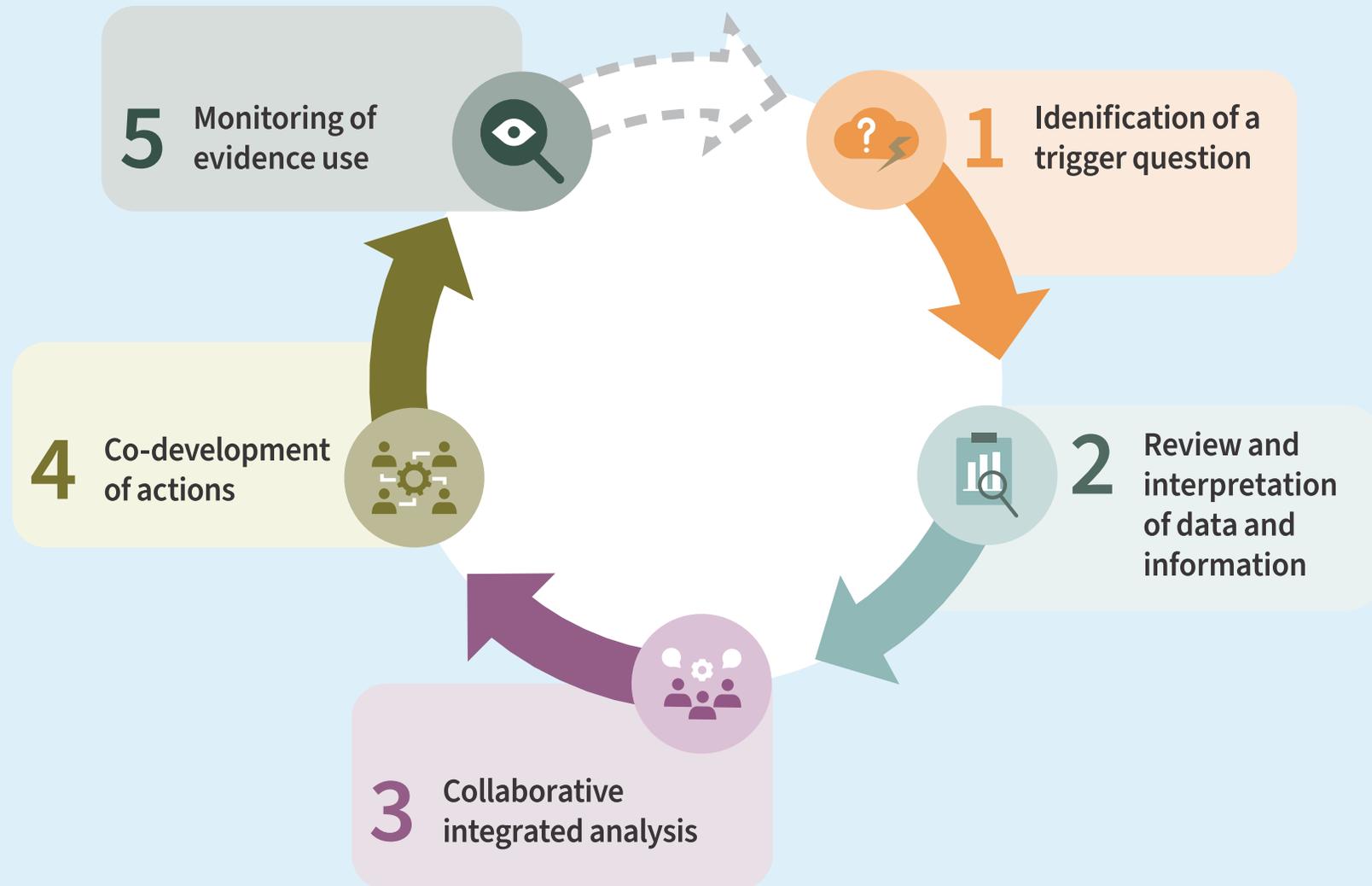
- Stakeholders and partners collectively review, analyse and interpret existing data and information.
- Data and information come from a broad spectrum of sources, including economic, social, and cultural aspects of community.
- Supplementary data may be needed.



The IOA process

3. Collaborative integrated analysis

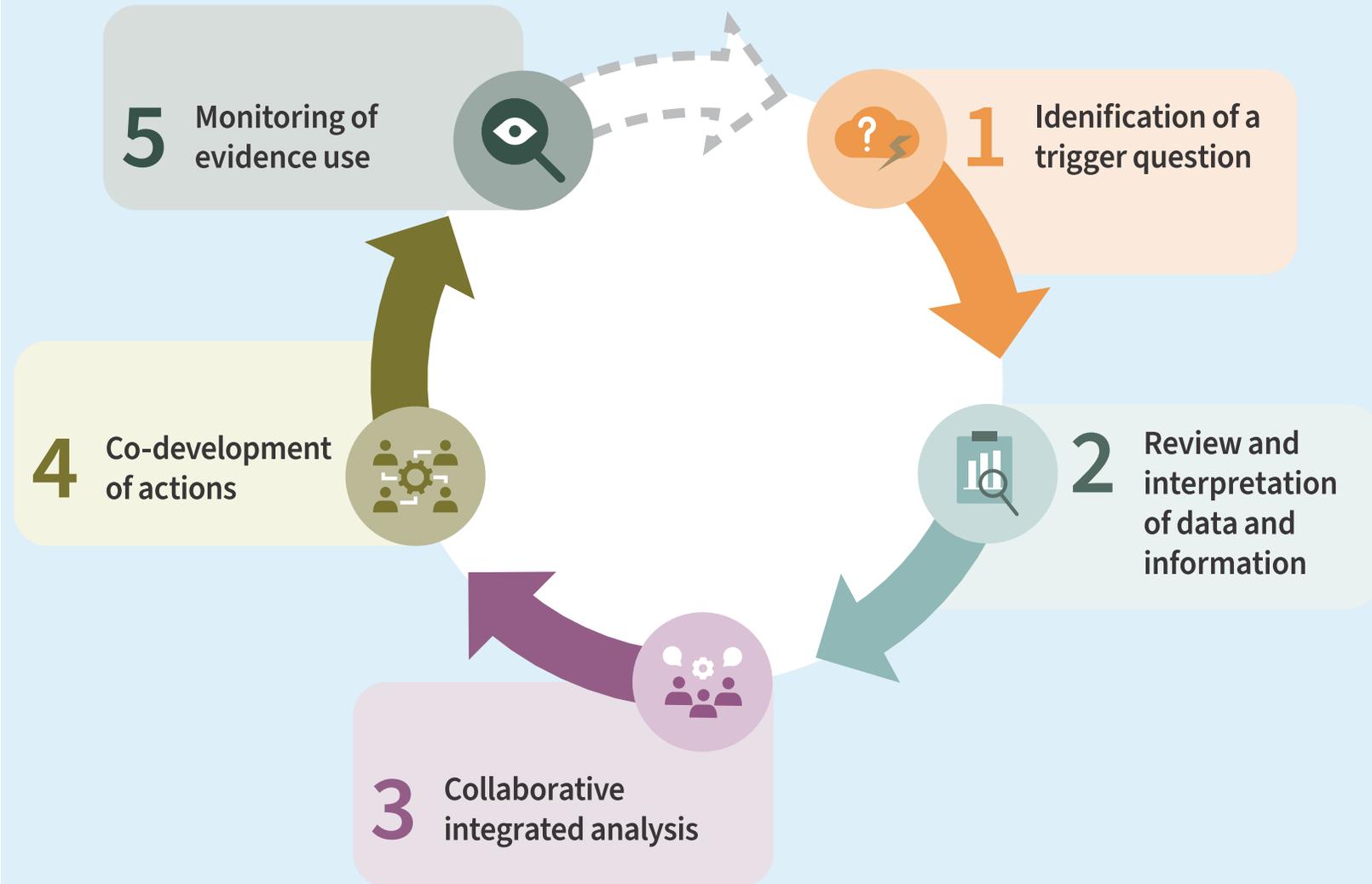
- Leverages the diverse experience and expertise of partners involved in IOA
- Incorporates varied perspectives for a more holistic analysis and interpretation of the data
- Further data collection if needed



The IOA process

4. Co-development of actions

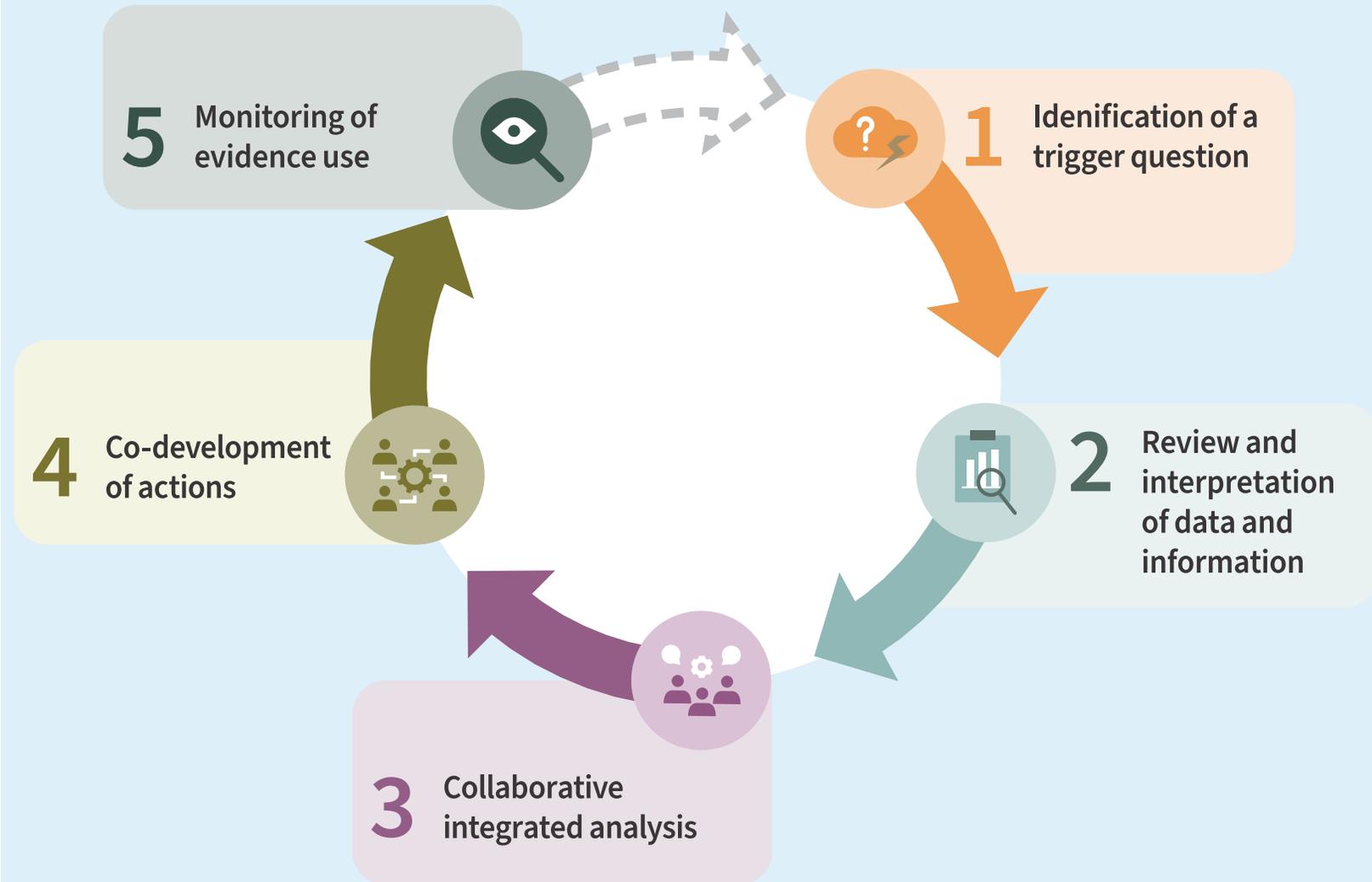
- Stakeholders identify the most appropriate partners to address risks, contributing factors and underlying causes identified during the analysis.
- Practical actions are developed as a team.
- An associated log is developed for each partner, detailing actions, timelines, responsibilities.



The IOA process

5. Monitoring of evidence use

- Track progress and completion levels of actions.
- Highlight issues and recommend further investigations or necessary adjustments.
- Document successes by showcasing evidence-based outcomes, building trust, and refining future interventions.



How was IOA developed ?



Origin

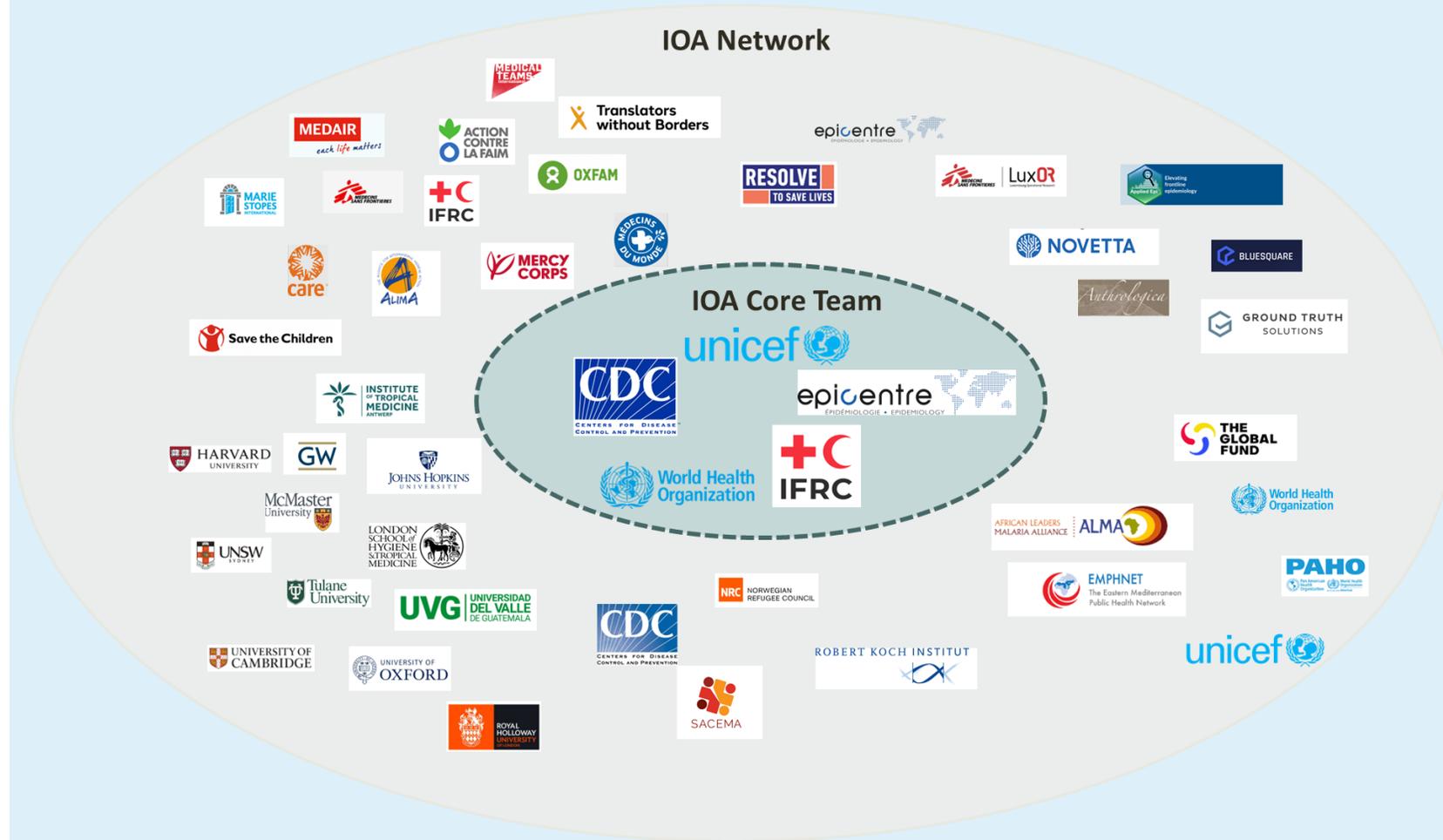
- Emerged during the 2018-2020 Ebola outbreak in the Democratic Republic of Congo (DRC).
- Early in the outbreak, a team of data scientists and epidemiologists formed an "Epi Cell" to analyze outbreak data for response efforts.
- The existing Social science analytics cell (CASS) investigated thematic and local challenges to the response.
- Epi Cell and CASS collaborated and produced *ad hoc* needs-based holistic situation analyses that informed response activities. This was called Integrated Outbreak Analytics (IOA).

Establishment

- In July 2021, first core team meeting was held with **UNICEF, US-CDC, WHO, Epicentre, LSHTM, ITM**, and later **IFRC**, under **GOARN** “umbrella”
- Following the Ebola outbreak, IOA expanded to address other health crises both in DRC and globally, including
 - COVID-19, cholera, Marburg fever, and malnutrition
 - In Guinea, Ghana, Haiti, and Uganda

The IOA Initiative

- To promote the use of the approach in public health emergencies
- Established by a team of experts from organizations involved in public health emergencies
- Supported by a network of organizations within and beyond GOARN, that form the IOA Network



Key outputs

Some years of maturing, responding to outbreaks, promoting within respective organizations and beyond, and re-organizing

2021

- Development of IOA communication material
- Start of YouTube channel
- IOA Network calls (monthly)
on hold after last one in February 2025
- IOA Field Exchange (quarterly)
on hold after last one in January 2025

2024

- IOA Trainings, Malawi
- IOA WHO Workshop, Senegal
- IOA Toolkit, including pilots in DRC, Somalia, Sudan

2025

- Publication and release of the IOA toolkit in English and French

Next steps

- Support interested Member States with IOA roll out
- Collaborations with national and regional partners and possible inclusion in training curricula
- Publication, communication and dissemination of the toolkit
- Resource mobilization

Thank you !

Visit our website

<https://www.integratedoutbreakanalytics.net/>

Visit our YouTube channel

[@IntegratedOutbreakAnalytics](https://www.youtube.com/@IntegratedOutbreakAnalytics)

Contact us

Marie-Amélie DEGAIL degailm@who.int

Yajna ELOUARD elouardy@who.int