Financial contribution:

Building Bridges to Resilience: Identifying International Good Practice Principles in Applying Health Promotion to Emergency Preparedness and Response

Findings from Scoping Review of International Literature (Phase I) & Introduction to Methodological Approach to practice-based International Evidence (Phase II)

Dr Mary Jo Lavelle (University of Galway) and Dr Tom Fowler (Public Health Wales)

Context

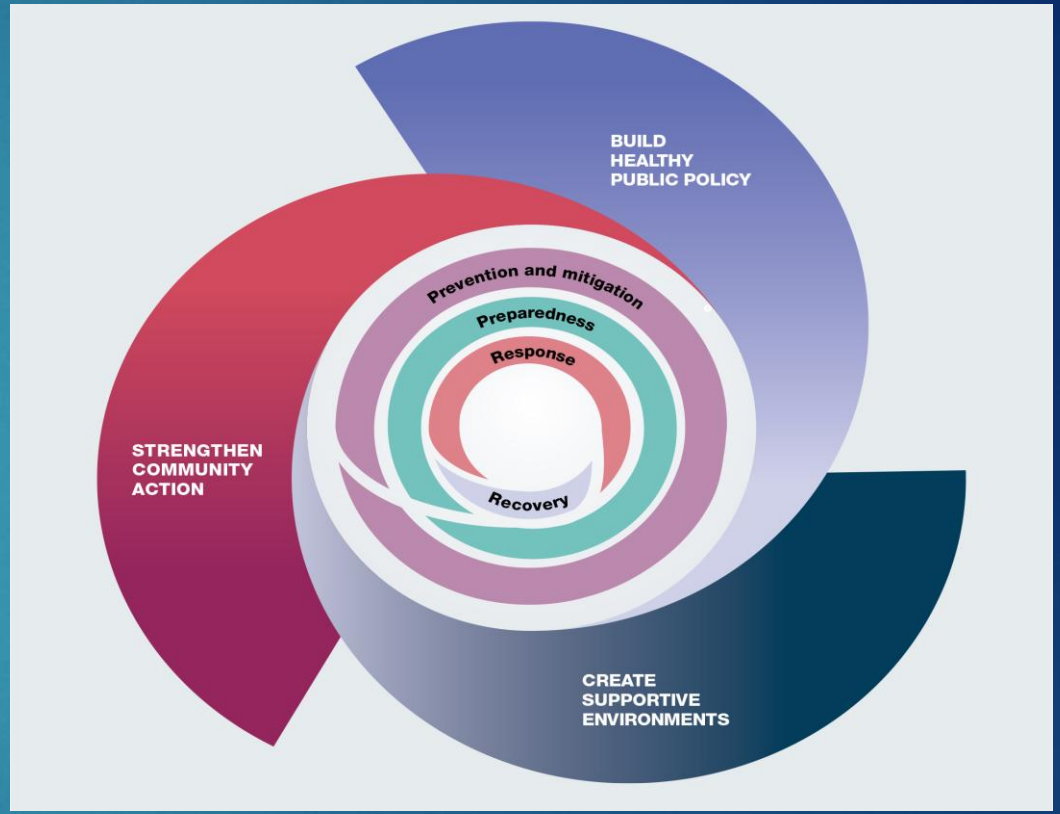
Public Health Emergencies (such as pandemics, natural disasters, climate-related and conflict crises) are increasing in frequency, severity and complexity globally.

Public Health Emergencies (PHE) are complex, and turbulent events, which can have unpredictable impacts overwhelming health systems and disproportionately affecting vulnerable and disadvantaged populations (Corbin *et al.*, 2021).

Attention shift to *emergency preparedness, prevention and mitigation of impacts & important role of essential public health function of emergency preparedness and response (PHAC 2023).*

A growing focus on resilience and communities

Health promotion's potential to improve health and well-being focused on collaborating with communities and targeting the determinants of health (Public Safety Canada, 2019; Haldane *et al.*, 2021; Council of Canadian Academies, 2022).



Health Promotion action aeas to support community resilience (Source: The Chief Public Health Officer of Canada's Report on the State of Public Health in Canada 2023)

Project Overview

Phase 1 Scoping Review of the Literature

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Work Package 1
Research Team

WP1 is lead by academics and researchers at the Health Promotion Research Centre, University of Galway , Ireland

Designated as a WHO Collaborating Centre for Health Promotion Research in 2009, Health Promotion Research Centre (HPRC) at the University of Galway has an active multidisciplinary research programme, and collaborates with regional, national and international agencies on the development and evaluation of health promotion interventions and strategies.

IANPHI
HPRC
Canada

Ollscoil na Gaillimhe
University of Galway

Scoping Review

Aim

Work package 1 utilises a scoping review methodology:

- To identify and map published best practice examples of health promotion principles and strategies that have been applied or implemented to support emergency preparedness and response.
- To frame and refine the search, collection, and analysis of case studies.
- To consider the full breadth of the emergency management continuum from prevention and mitigation to preparedness and response.

Canada

Scoping Review

Methodology

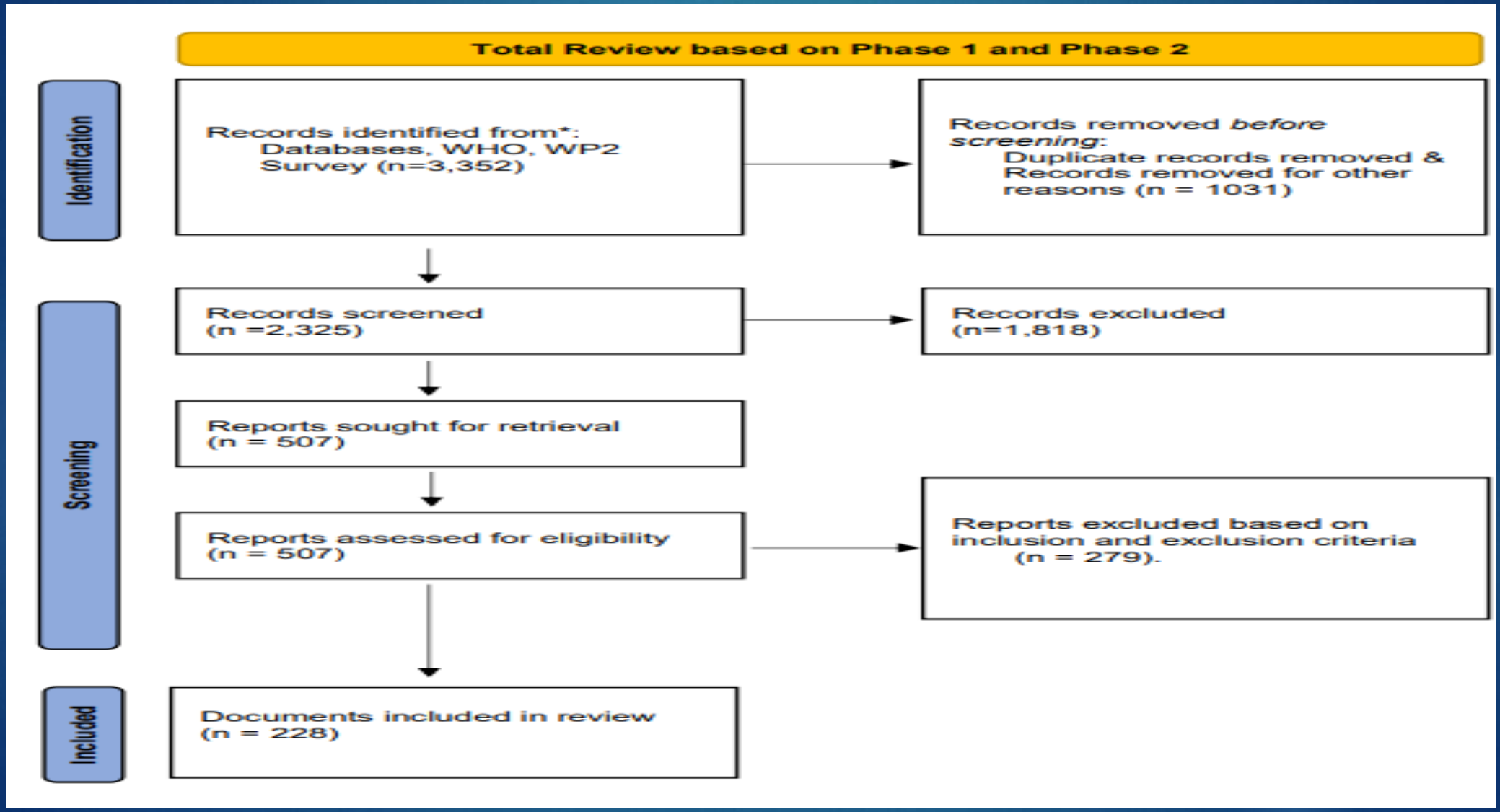
This scoping review follows the methodological framework outlined by Arksey and O'Malley (2005) and refined by Levac, Colquhoun, and O'Brien (2010).

The review is conducted in accordance with the Preferred Reporting Items for Systematic Reviews and Meta-Analyses extension for Scoping Reviews (PRISMA-ScR) guidelines to ensure comprehensive and transparent reporting.

Search Strategy

- **Peer-review Literature Databases**: A systematic search conducted across electronic databases, including Medline, PubMed, Scopus, and CINAHL (Phase I)
- **Grey Literature:** To capture non-peer-reviewed evidence, searches will include grey literature databases of key IANPHI and other organizations with an identified role in emergency preparedness and responses (Phase II)

Search Strategy (phases 1&2)

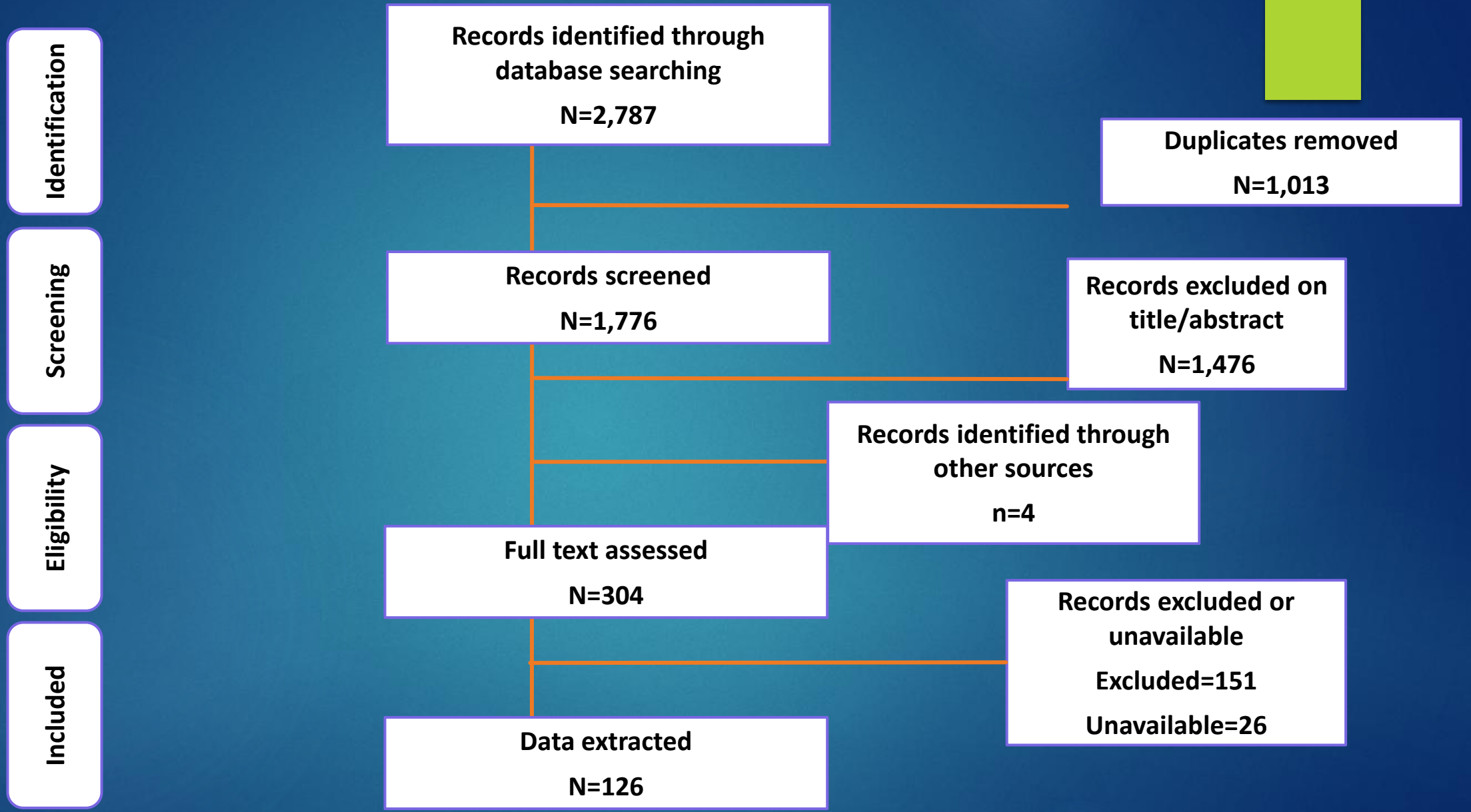


Phase 1:

Academic Literature

Search Strategy:

Strategies (OR)	Equity (OR)	Emergency setting
•Health Promotion •Health education •Health communication •Health literacy •Community participation •Health policy •Capacity building •Empowerment •Social support	•Health inequities •Health equity •Vulnerable populations •Social determinants of health •Socioeconomic factors •Health status disparities	•Emergencies •Disaster medicine •Disaster planning •Disasters •Relief work •Civil defense •Mass casualty incidents •Natural disasters •Epidemics •COVID-19 •SARS •Ebola •Climate change •Disease outbreaks
•Risk communication •Crisis communication •Community engagement •Risk & emergency communication		•Emergency response •Emergency preparedness •Emergency recovery •Emergency mitigation


Identification
Screening
Eligibility
Included
Records identified through database searching
N=2,787
Duplicates removed
N=1,013
Records screened
N=1,776
Records excluded on title/abstract
N=1,476
Records identified through other sources
n=4
Full text assessed
N=304
Records excluded or unavailable
Excluded=151
Unavailable=26
Data extracted
N=126

Inclusion Criteria
1 OR 2 AND 3
(N=126)

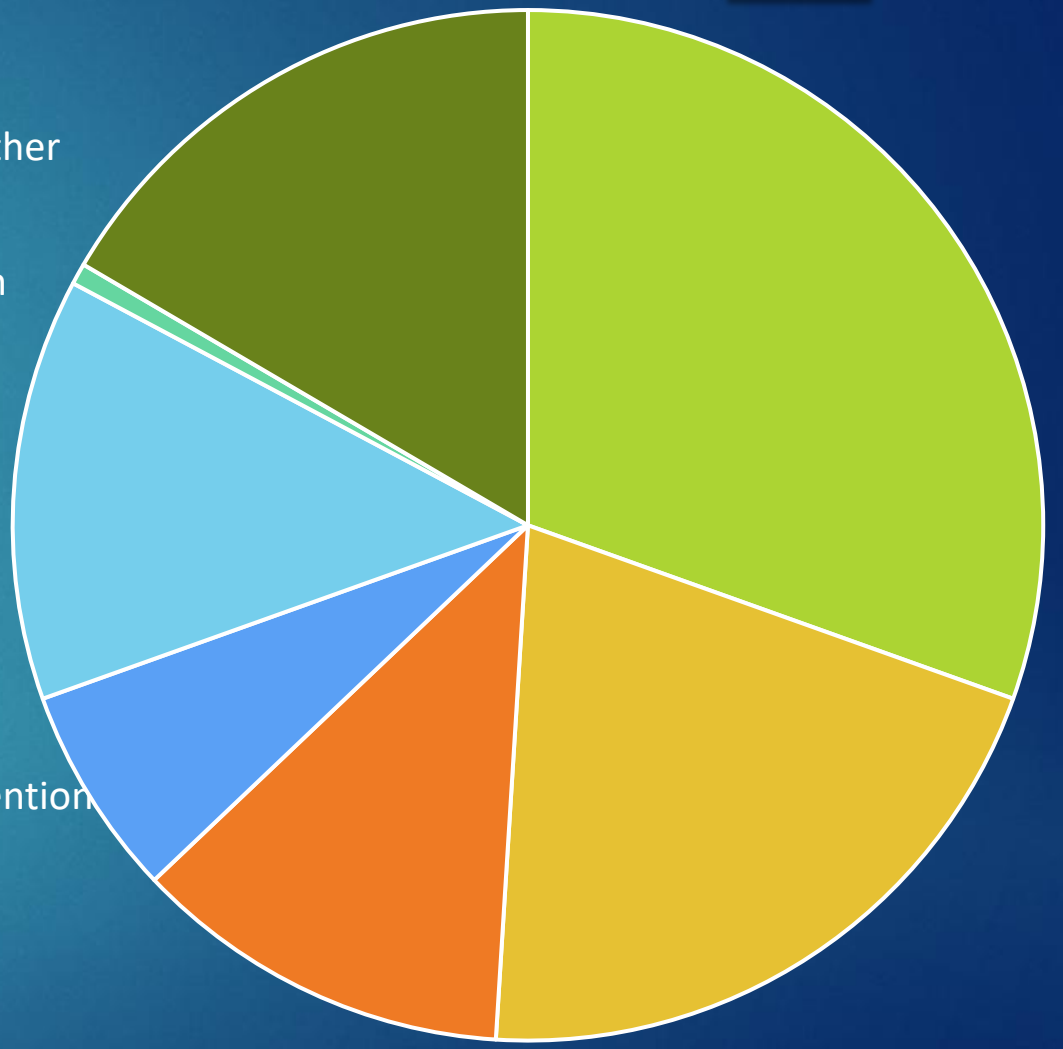
1-Describe or refer to a health promotion strategy
OR

2-Describe or define a **vulnerable population or group** (e.g. migrants, elderly, children, those with chronic disease or disability, homeless, sex workers, drug users, geographic remoteness, etc.)

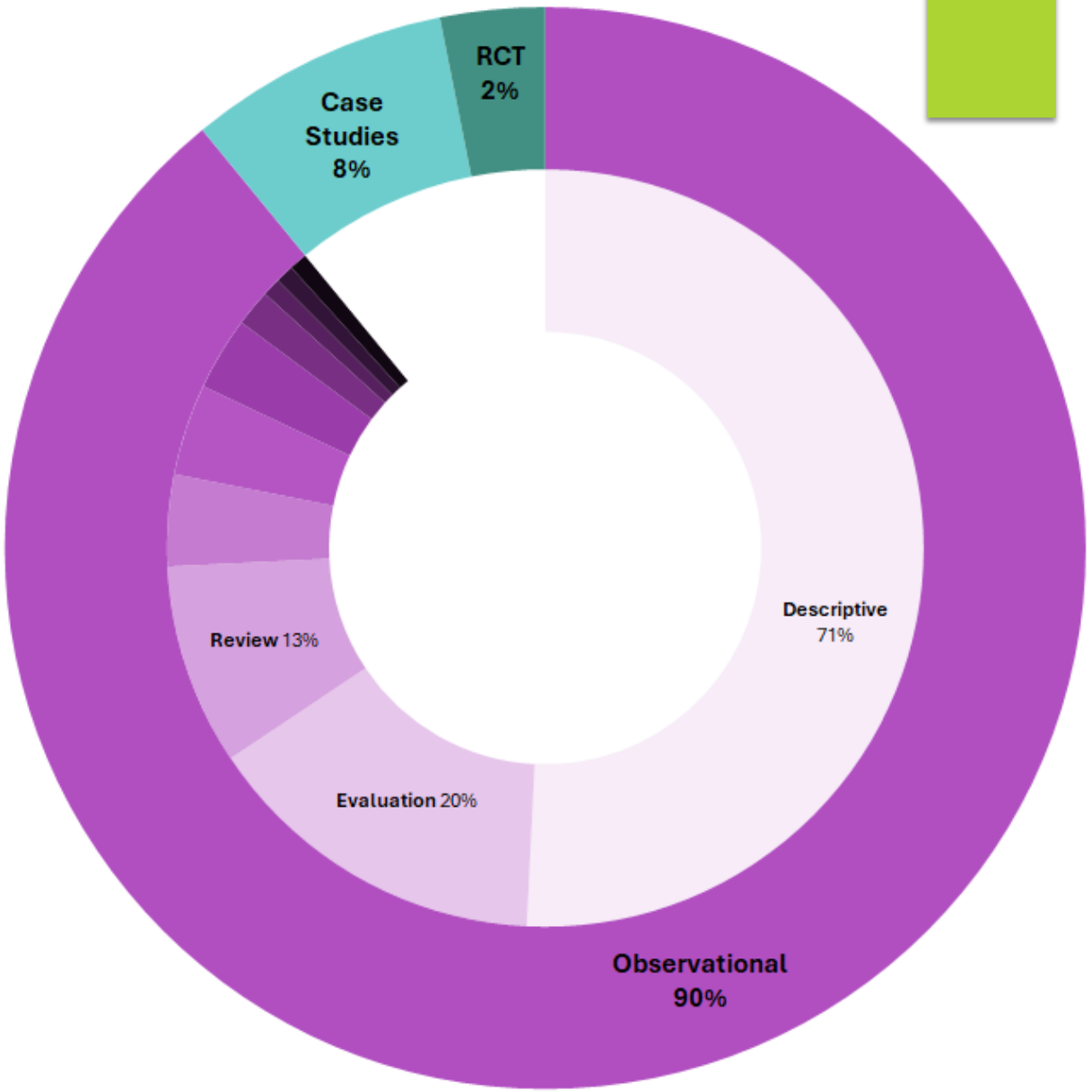
3-Address a defined **emergency context** from planning to recovery

Reasons for Exclusion (N=151)

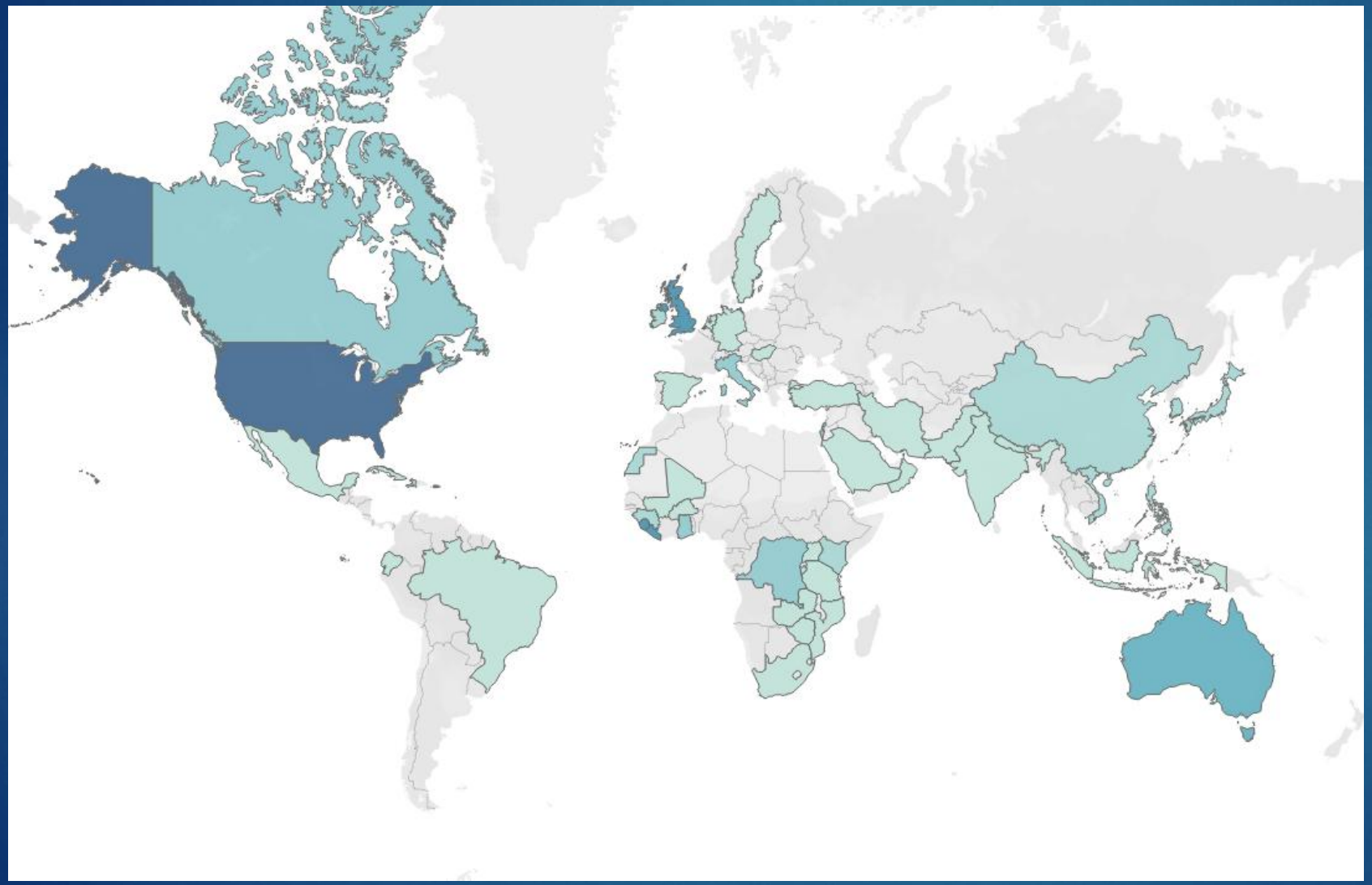
30.5%	Editorial, letter to the editor, commentary, perspective pieces, or other pieces not including a description of methods
20.5%	Does not describe, identify or articulate a specific health promotion strategy or intervention or vulnerable group (I 1&2)
16.6%	Disease prevention rather than Health Promotion (I,1)
13.2%	Does not address an emergency context (I ,3)
11.2%	Purely conceptual with no application of intervention or strategy
0.7%	Focuses on the effectiveness/efficacy of a clinical or medical intervention on the general population
10.6%	Other: - Purely descriptive with respect to health disparities (describing or measuring disparities within emergency context e.g. higher rates of covid among certain groups, higher mortality, etc) - Purely academic focus (curricular development, development of research capacity, etc)



Article Type



Geographic Distribution

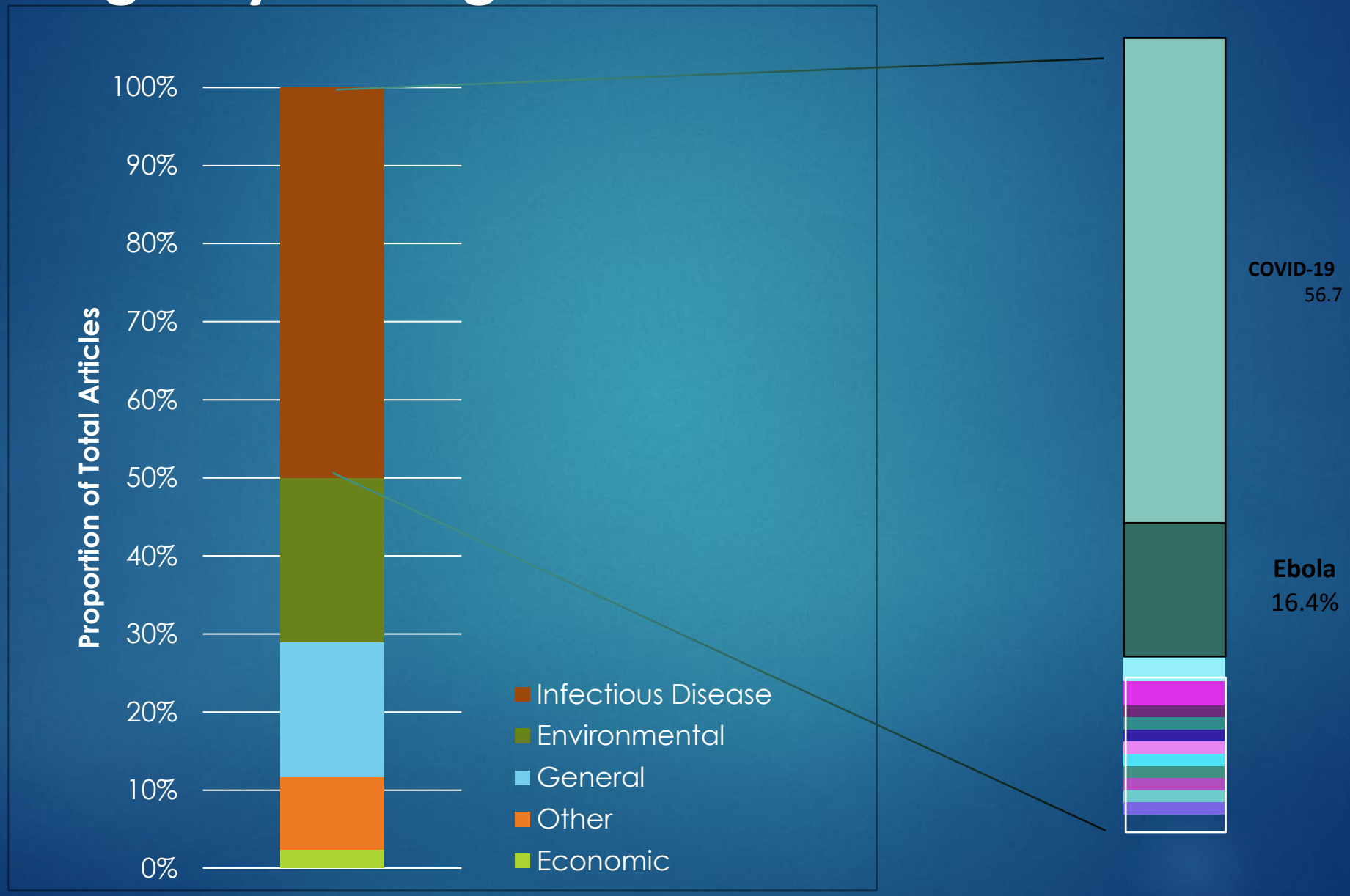


- North America(n=56)
- Africa (n=35)
- Asia: (n=24)
- **Europe (N-17)**
- Australia (n=5)
- Central America (n=5)
- South America (n=2)

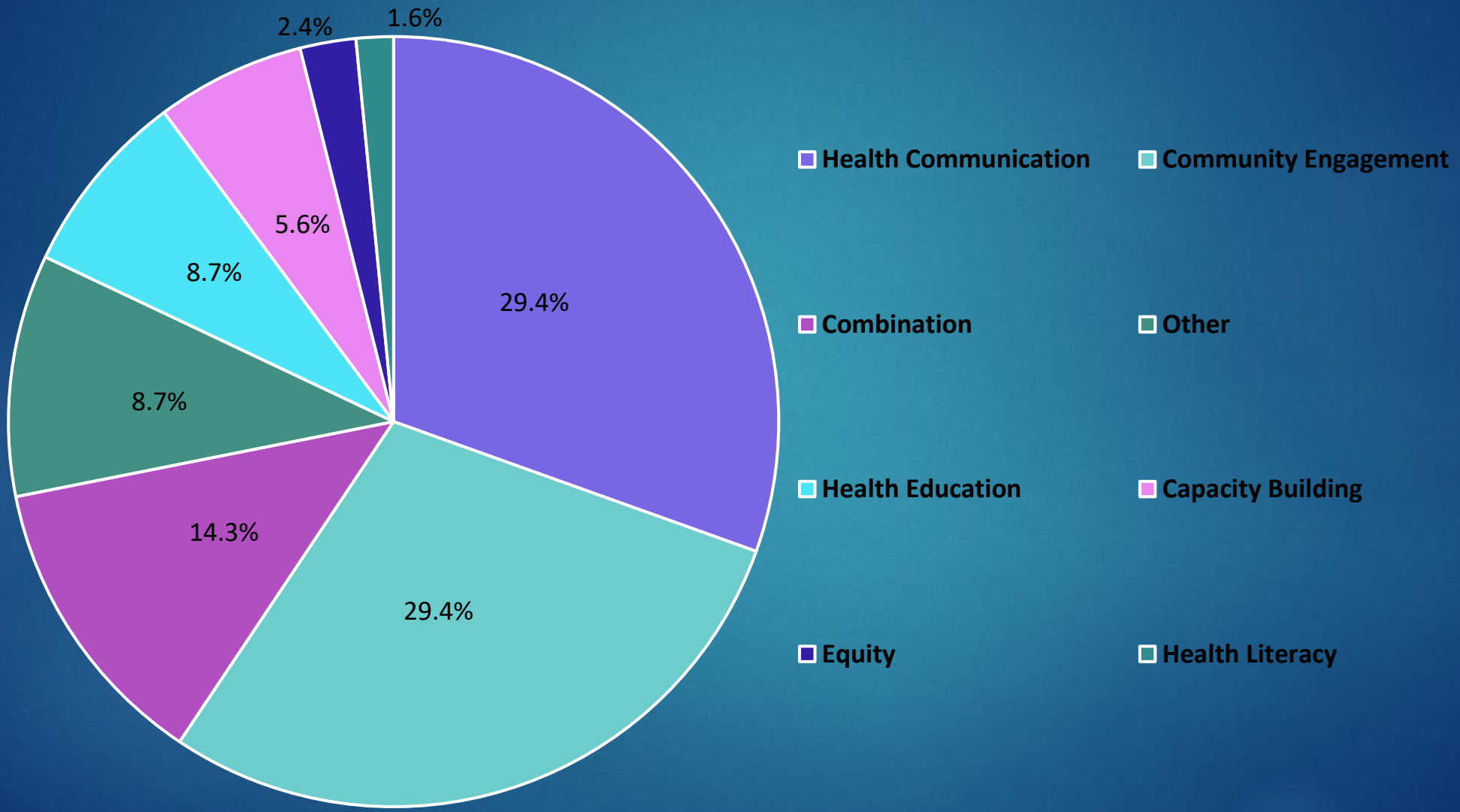
Emergency Phase

7.1% 8.7% 32.5% **48.4%** 3.2%

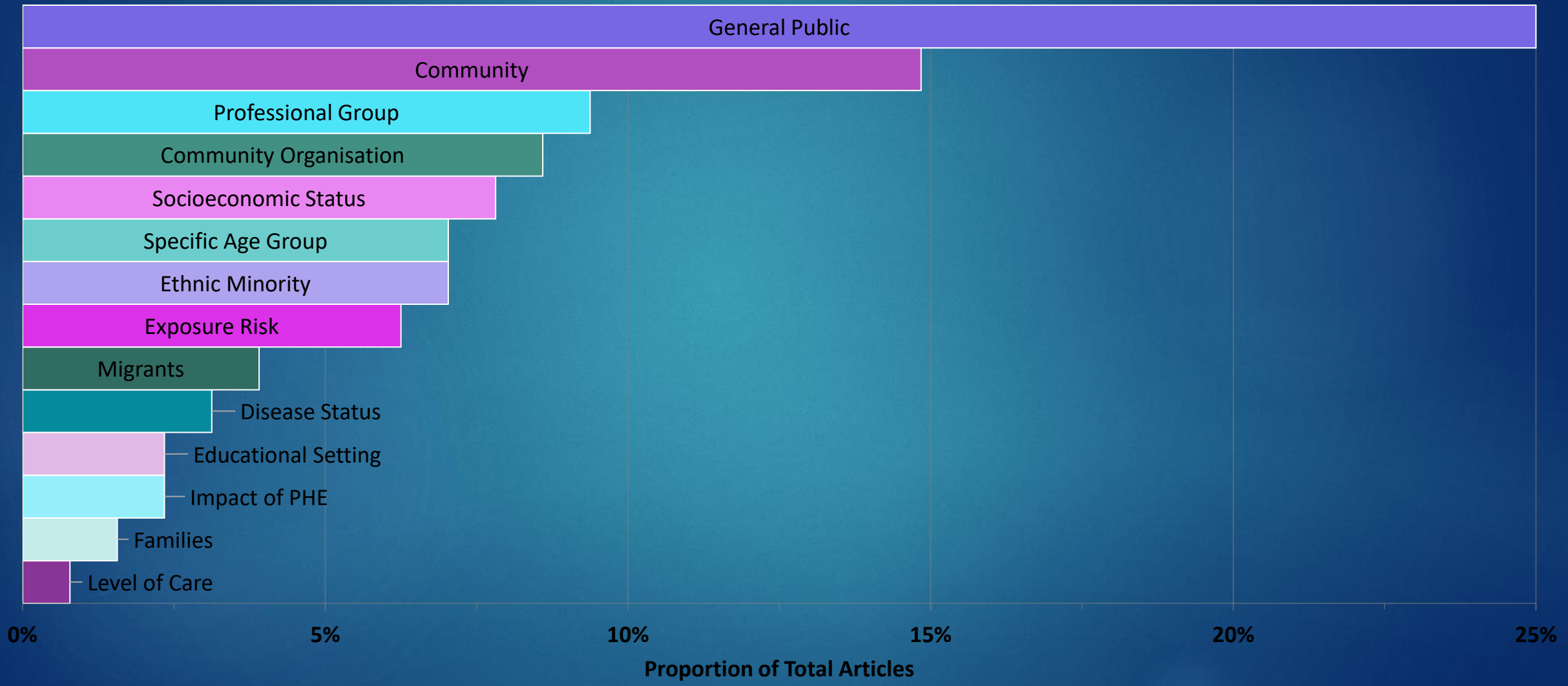
Emergency Setting



Health Promotion Strategies



Target Population



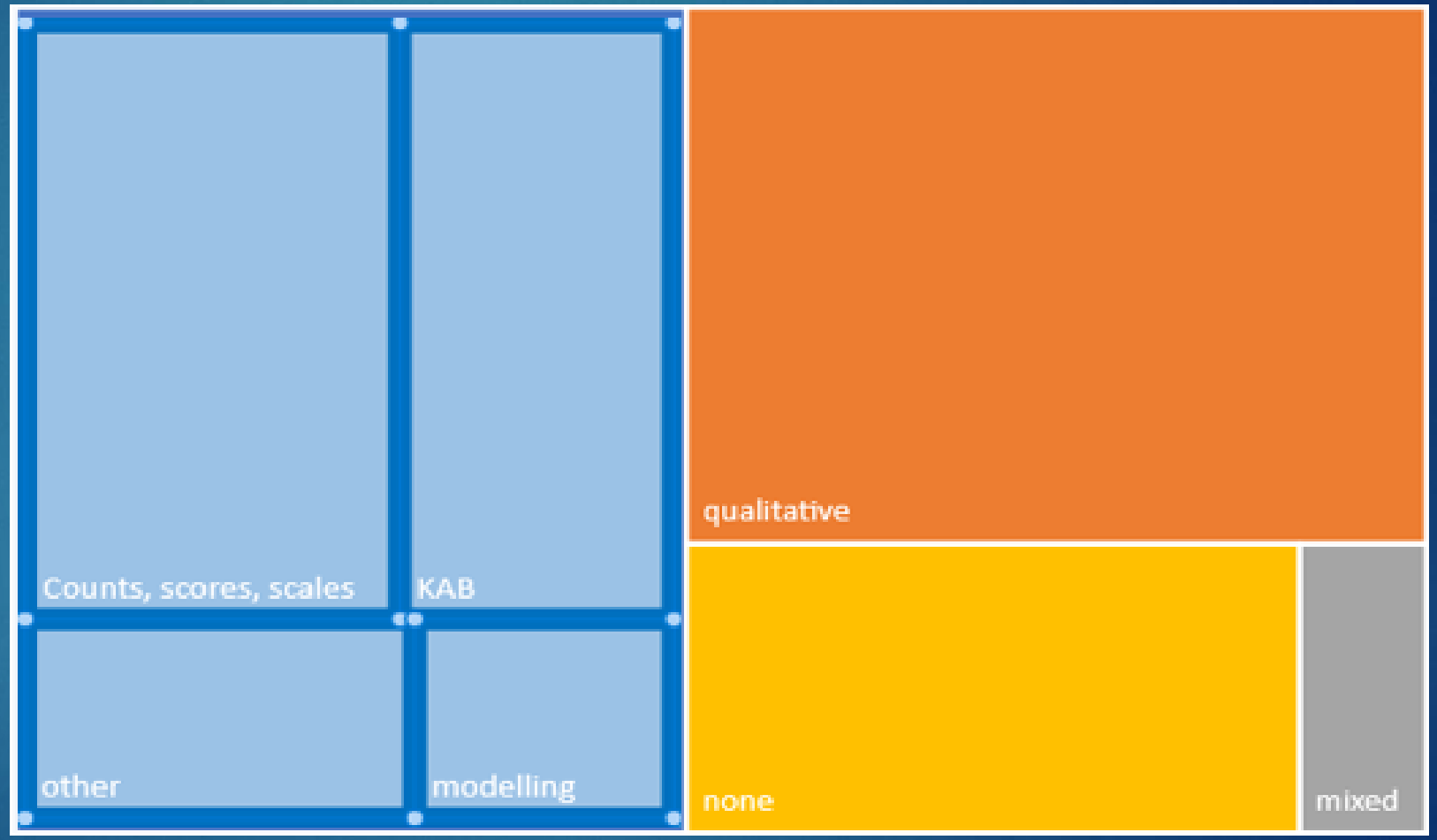
Outcome Measures

Quantitative

Qualitative

None

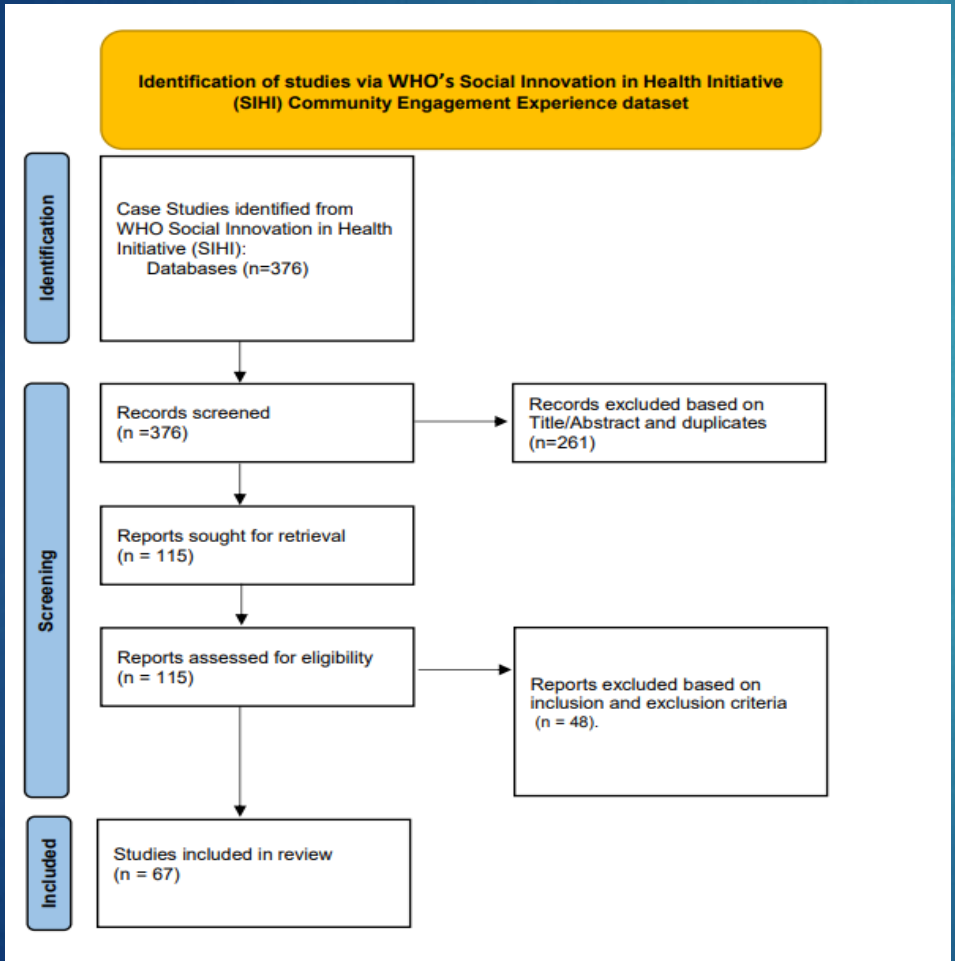
Mixed



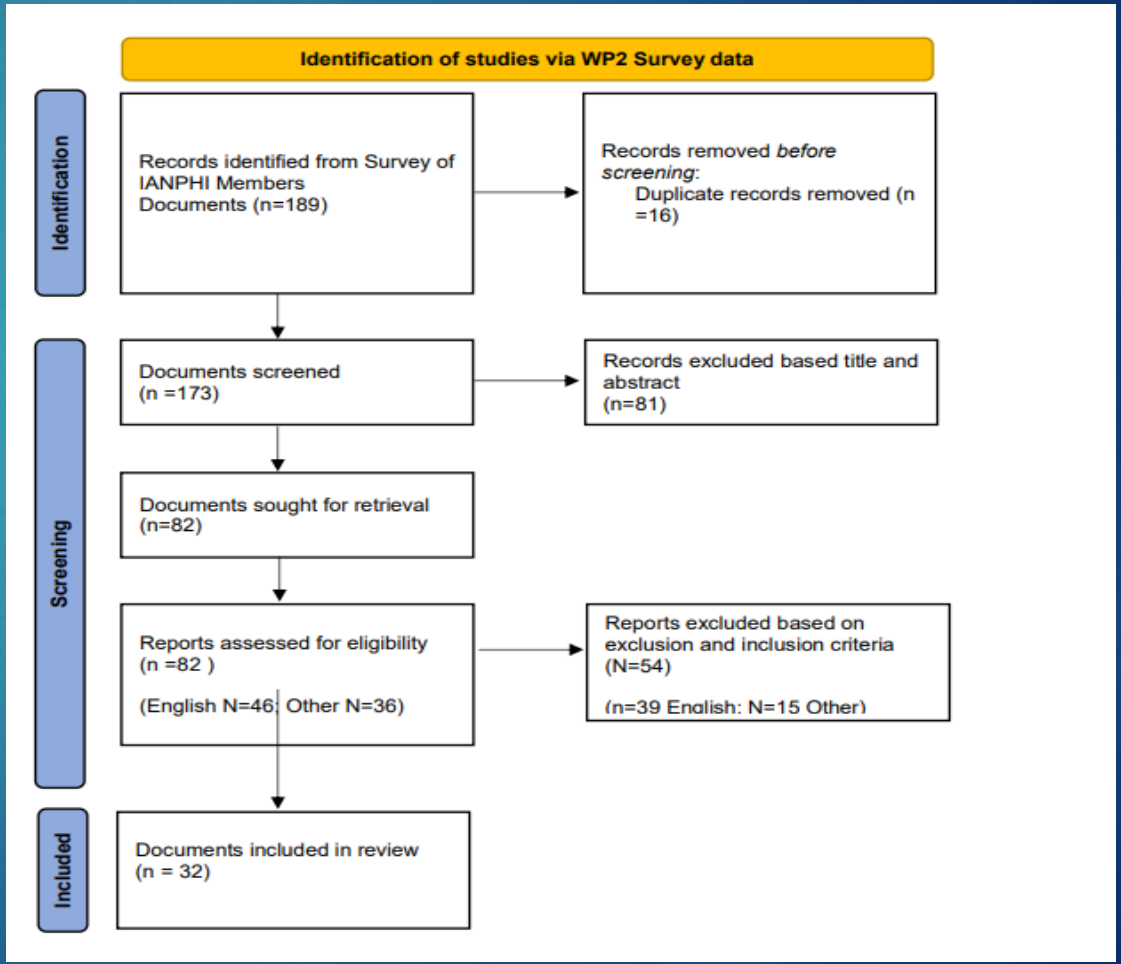
Phase 2: Grey Literature

Grey Literature

Grey Literature WHO



WP 2 Grey Literature Survey IANPHI Members



Phase 2 examined 99 grey literature case studies and articles (the WHO/SIHI community engagement dataset (n=376 case studies) and IANPHI members survey (n=189 documents)

Focused on **health promotion** in emergencies: prevention & mitigation, preparedness, response, and recovery.

Aims: identify best practices and policy implications for embedding health promotion across the emergency cycle.

Geographic Distribution

41 unique countries represented.

Most frequent: Sierra Leone (7), Nigeria (4), Liberia (4), Brazil (3), Philippines (3), USA (3), Japan (3), Guinea (3).

Strong representation from **West Africa, Latin America, and Asia**, reflecting high-impact events (Ebola, COVID-19, Zika, natural disasters).

Emergency Phases & Settings

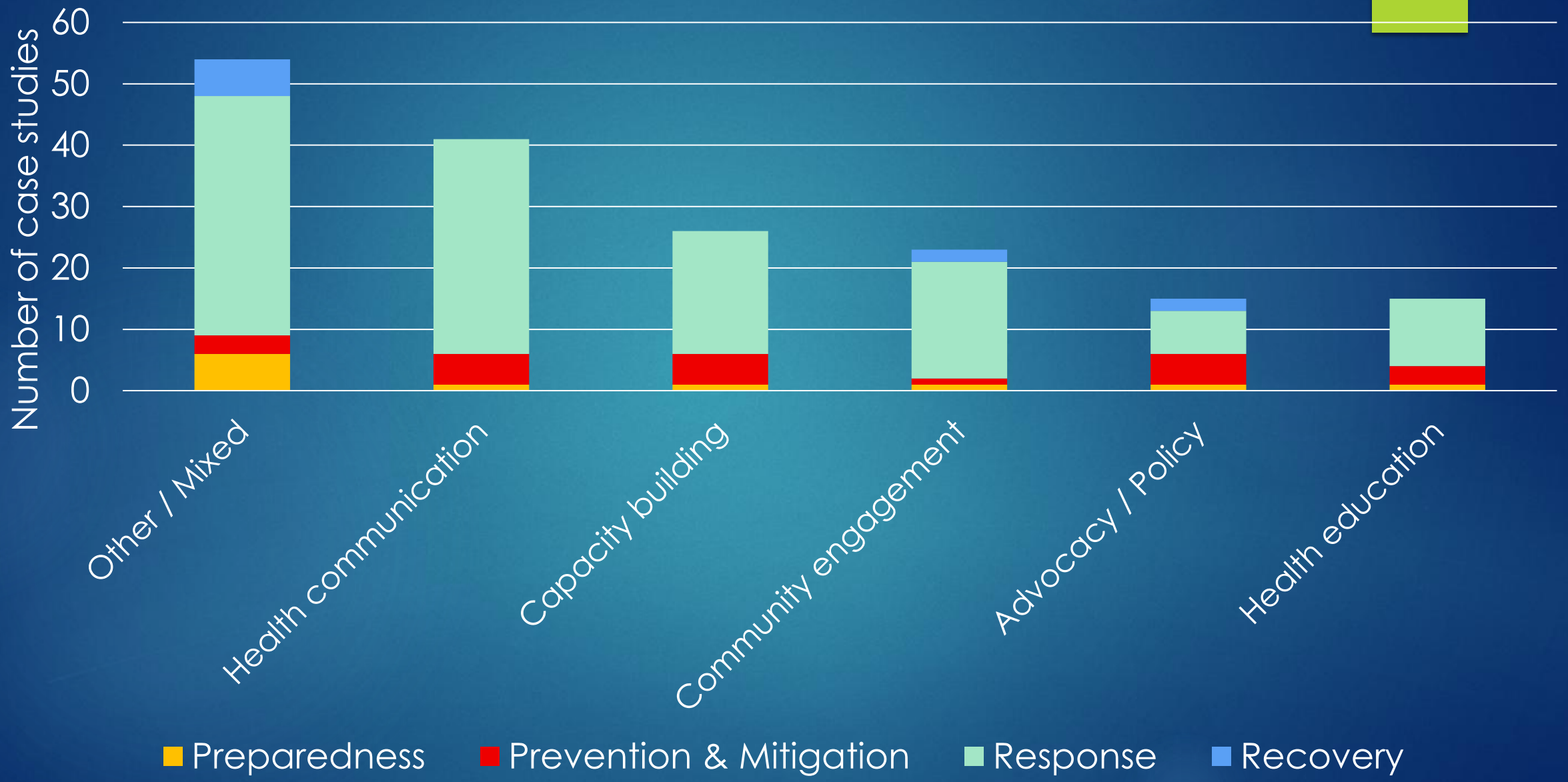
Emergency phases:

- Response: 55 cases
- Preparedness: 8
- Prevention & mitigation: 6
- Recovery: 5

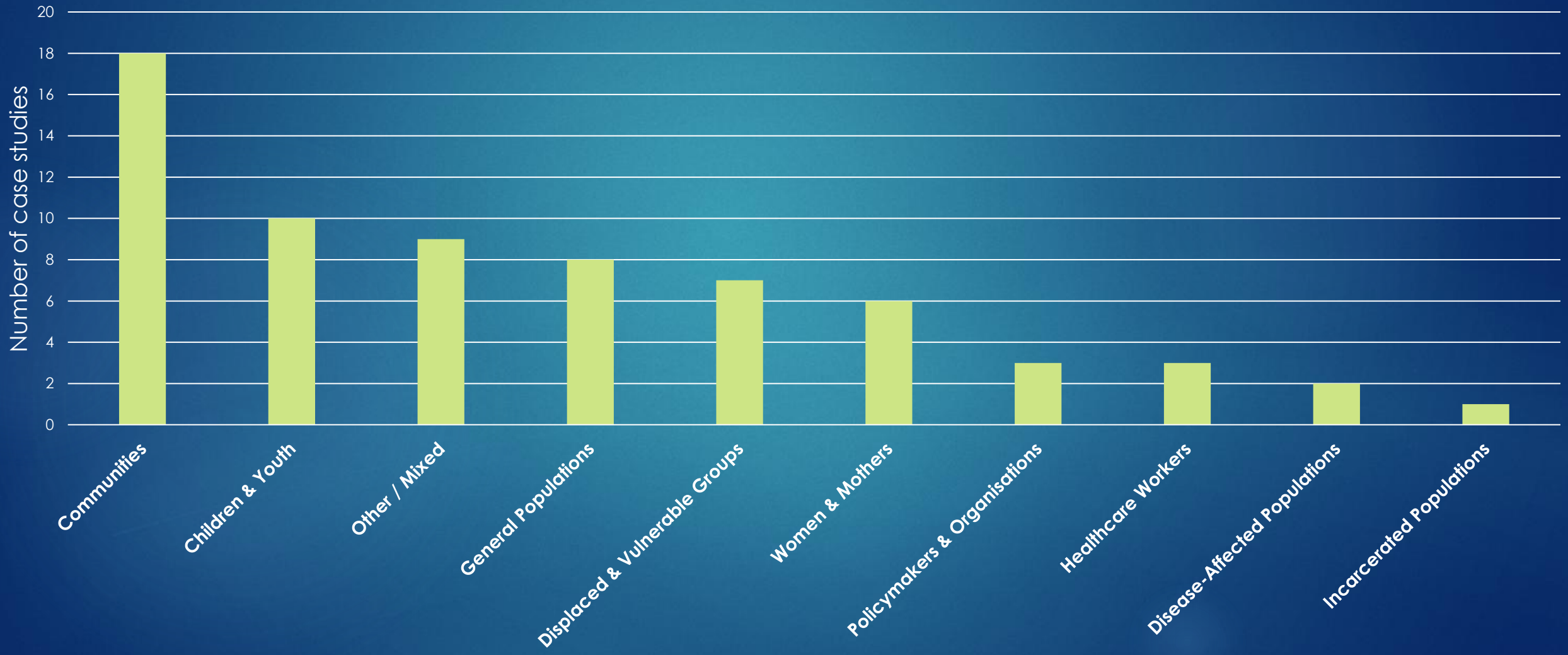
Settings:

- Infectious disease: 46
- Other hazards: natural disasters, conflict, humanitarian crises, SRH, child health, environmental, chemical, nuclear.

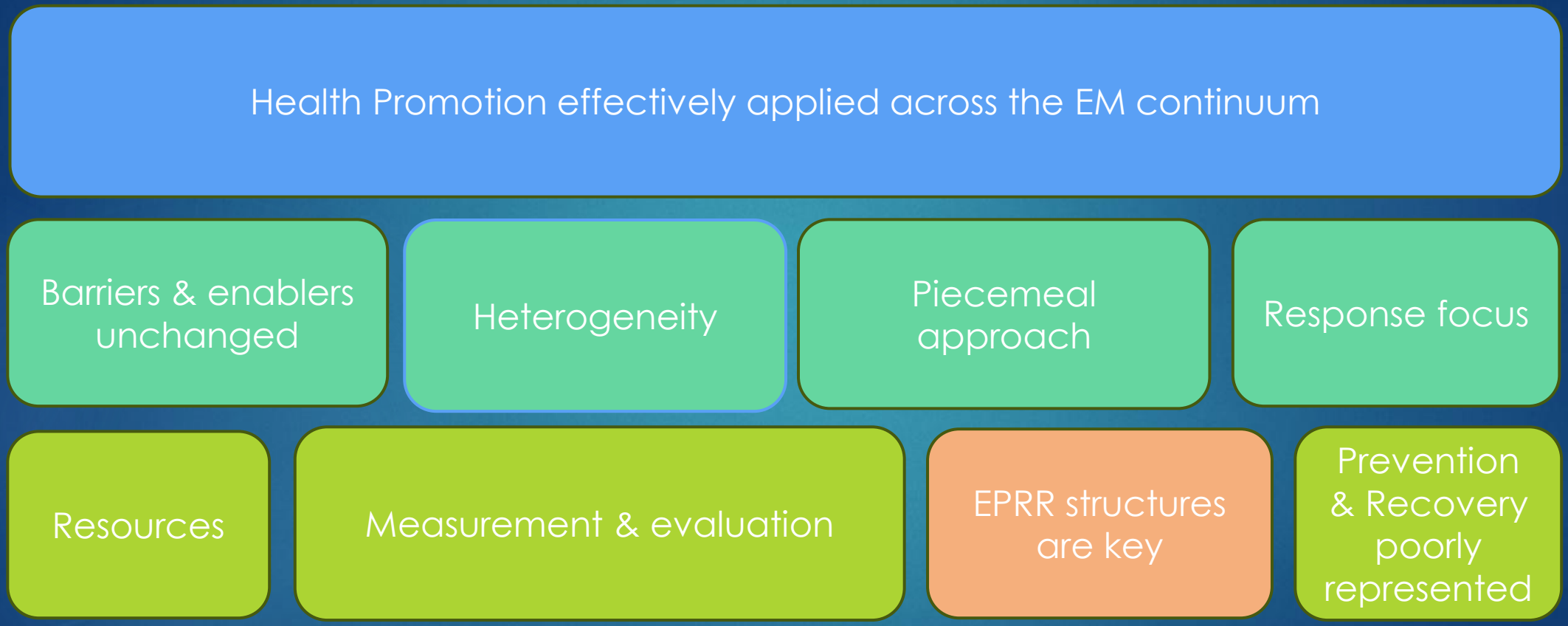
Health Promotion Strategies by Emergency Phase



Target Population Categories in Case Studies



Phase 1 Key Findings International Literature



Phase 2: Key Findings

1. Community-Centred Approaches Work	2. Existing Infrastructure Can Be Leveraged	3. Equity and Inclusion Are Critical	4. Recovery and Preparedness Are Underserved	5. Measurement Needs Strengthening	6. Policy & Governance Integration
Trusted local messengers and culturally relevant formats boost legitimacy and uptake.	Schools, radio, hotlines, and peer networks allow rapid scaling with minimal new investment.	Tailoring to language, literacy, mobility, and digital access ensures reach to marginalised groups.	The bulk of documented work occurs in **response**; preparedness and recovery cases are rare.	Indicators are inconsistent across phases and settings.	Community roles should be formalised in emergency operations (liaison officers, advisory panels).
Faith leaders, CHWs, and community-based organisations are effective conduits.	Social protection registries and routine services can be adapted for emergency delivery.	Gender and child-focused approaches remain underused outside maternal/child health.	Recovery requires deliberate resourcing for social reconnection, mental health, and continuity of services.	Embedding lean, phase-specific evaluation frameworks improves comparability and learning.	Advocacy and policy change during recovery can embed lessons for future resilience.

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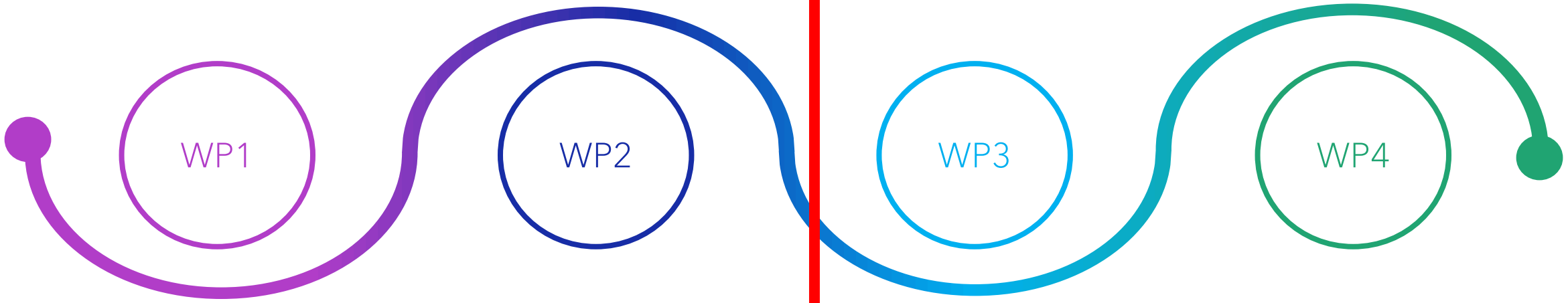
Building Bridges to Resilience: Identifying International Good Practice Principles in Applying Health Promotion to Emergency Preparedness and Response

Workshop Outcomes and Survey Introduction

Daniel Rixon, Cameron Muir, Dr Tom Fowler
Public Health Wales

Work Packages

Overview



Scoping Review

Iidentify and map published best practice examples of health promotion principles and strategies that have been applied or implemented to support emergency preparedness and response.

Survey and Interview

Informed by the scoping interview (WP1), the project will gather additional information and discuss findings through a survey, in-depth interviews

Analysis of Findings

Outcomes of the analysis shall seek to identify practice-based evidence derived from programs and actions implemented in real-life settings

Publication

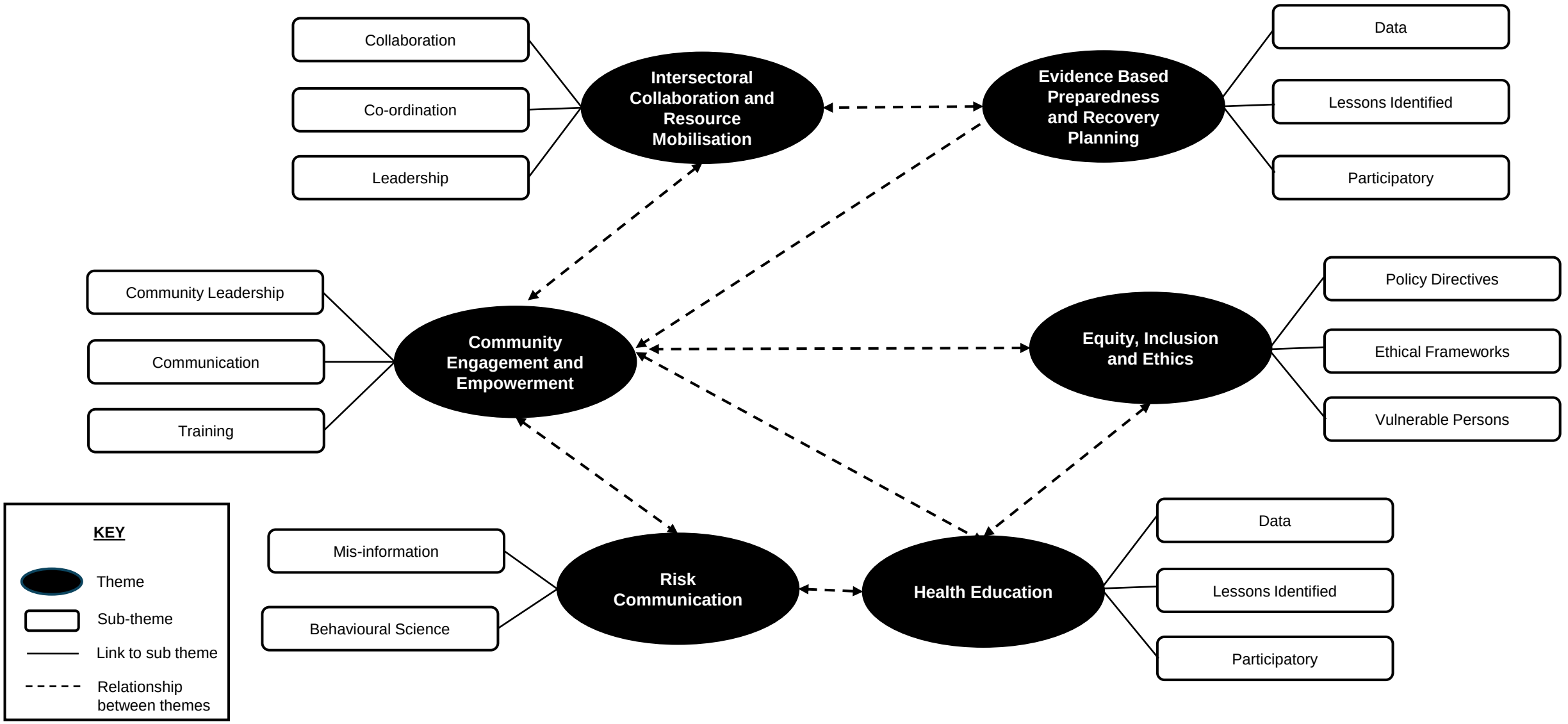
Findings will be synthesized into a detailed report

Financial contribution:

Building Bridges to Resilience: Identifying International Good Practice Principles in Applying Health Promotion to Emergency Preparedness and Response

Workshop Outcomes

Financial contribution:



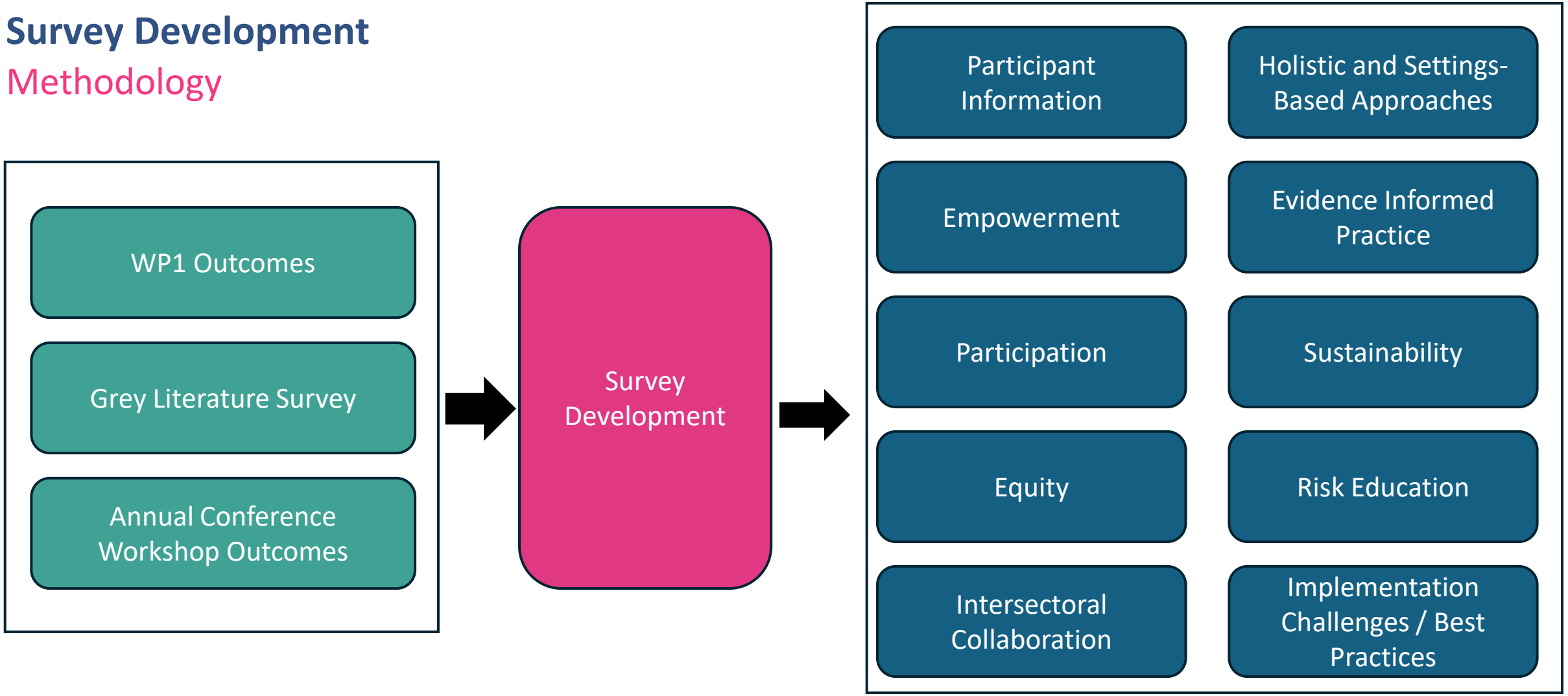
Financial contribution:

Building Bridges to Resilience: Identifying International Good Practice Principles in Applying Health Promotion to Emergency Preparedness and Response

Survey

Survey Development

Methodology



We need your help!

Survey

- The survey is now open and accessible. We invite responses from IANPHI members
- We welcome comments and ideas on what the final guidance format so it is of maximum practical utility to those who will use it.
- Should you have any issues or comment:
  - Daniel.Rixon@wales.nhs.uk
  - Cameron.Muir3@wales.nhs.uk
  - Tom.Fowler@wales.nhs.uk

Financial contribution: