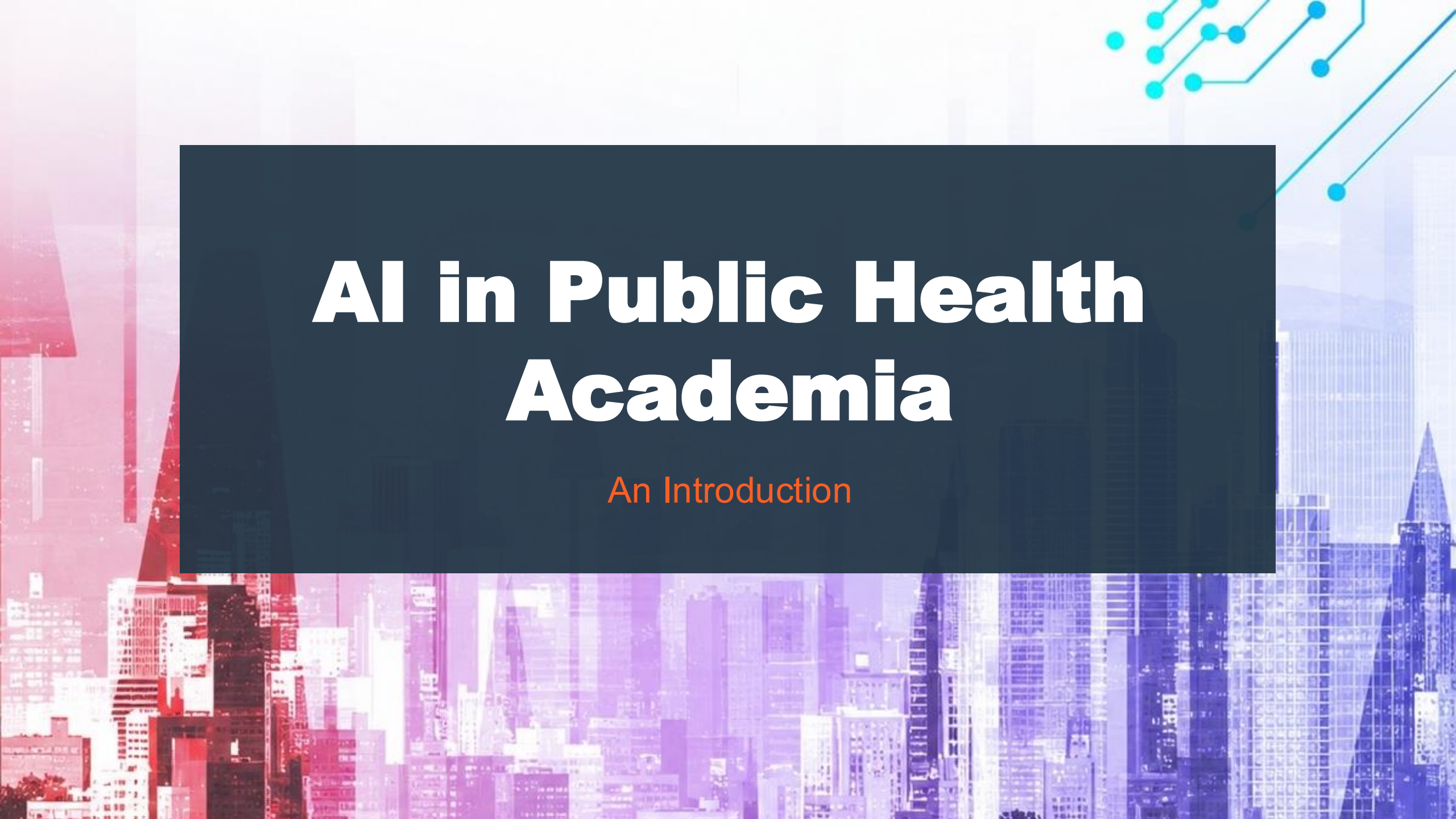

AI in Public Health Academia

An Introduction

AI FOR PUBLIC HEALTH

Why this course?

Building foundational AI literacy for public health educators

Understand

Build a shared vocabulary for emerging AI concepts.

Apply

Explore responsible uses in teaching, research, and academic practice.

Evaluate

Consider limitations, equity, governance, and human oversight.

Designed for faculty in schools and programs of public health and related fields.

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AI FOR PUBLIC HEALTH

A Shared Competency-Based Educational Approach

ASPPH and PAHO/VCPH share closely aligned principles for meaningful, practice-oriented learning.

01 Competency-based education

Focus on demonstrable performance and professional capabilities.

02 Measurable learning outcomes

Define what participants should be able to do.

03 Active and contextualized learning

Use interactive activities, applied scenarios, and critical reflection.

04 Aligned assessment

Connect competencies, learning activities, and evidence of achievement.

One shared educational foundation, applied to responsible AI use in public health academia.

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AI FOR PUBLIC HEALTH

Course Competencies

By the end of the course, participants will be able to:

1. Distinguish key AI concepts
2. Apply AI in teaching and learning.
3. Analyze AI as a determinant of health
4. Analyze equity and bias in AI applications
5. Apply AI governance and human oversight principles

AI FOR PUBLIC HEALTH

What will participants explore?

Four modules connecting AI foundations with public health academia

MODULE 01

AI 101

Core concepts: LLMs, RAG, agentic AI, MCP, data governance, and AGI.

MODULE 02

AI in Teaching and Learning

Instructional strategies for using—or deliberately constraining—generative AI.

MODULE 03

AI as a Determinant of Health

Digital and social determinants, equity, and population health.

MODULE 04

Ethics, Governance, and Human-in-the-Loop

Bias, institutional governance, and meaningful human oversight.

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AI FOR PUBLIC HEALTH

A collaborative initiative

Content expertise and educational production working together

Collaborative content development

Faculty and experts from institutions affiliated with ASPPH.

Educational production

PAHO Virtual Campus for Public Health (VCPH): instructional design and digital course production.

Technical contributions

PAHO Information Systems and Digital Health (IS), within Evidence and Intelligence for Action in Health (EIH).

A shared effort to make AI education accessible to a broader public health community.

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AI FOR PUBLIC HEALTH

Designed for active learning

An engaging, self-paced online learning experience

01

Short videos

Introduce and contextualize key ideas.

02

Interactive graphics

Make complex concepts easier to explore.

03

Applied scenarios

Connect AI concepts to academic decisions.

04

Knowledge checks

Reinforce understanding throughout the course.

Free • Online • Self-paced

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Coming Soon

AI in Public Health Academia

Launching first in English, followed by Spanish.

Stay tuned for the official enrollment announcement.

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