

SOCIAL PROTECTION AND JOBS

# 2019 CORE COURSES

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# Labor Market Information – An Introduction

New Sources of Labor Market Information for  
Better Matching, November 4, 2019

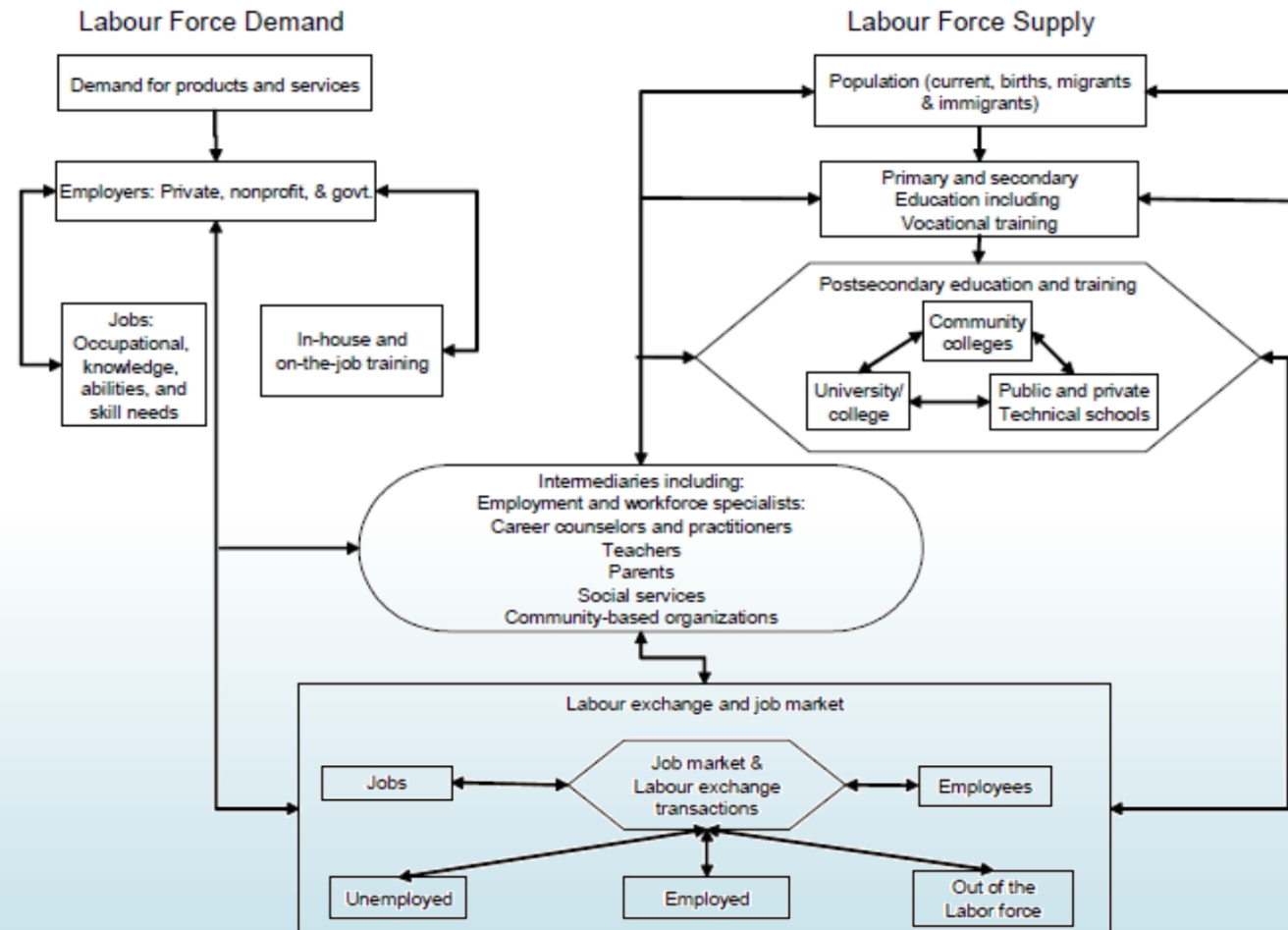
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[Jobs, Labor & Migration Course](#)

## Working definition

Labor market information (LMI) includes any quantitative or qualitative information and intelligence on the labor market that can assist labor market agents in making informed plans, choices, and decisions related to business requirements, career planning and preparation, education and training offerings, job search, hiring, and governmental policy and workforce investment strategies.

# Stylized labor market



- Information is a fundamental requirement for a functioning labor market.

# Theoretical and practical rationale

## ❖ **LMI is a fundamental requirement for efficient labor markets**

- Theoretically, a fundamental assumption of competitive labor markets is access to full information
- In turn, lack of access to quality LMI creates inefficiencies in job search and matching, and career planning
- Emerging empirical research shows LMI can improve the speed & quality of matches (cf. Belot et al., 2019)

## ❖ **LMI is a public good: use by one agent does not diminish its value and access for another**

- This reduces incentives for private production and argues strongly for governmental investment
- Nearly all countries recognize the need for government intervention in developing and disseminating LMI
- Increasingly, partnerships with development partners and the private sector play an important role

## ❖ **Globalization and digitization increase the importance of LMI**

- LMI can help a nation compete effectively in the international marketplace
- LMI can help students and job seekers identify job opportunities in an ever faster changing labor market

# LMI users

## Government officials

- Gauge health of economy
- Make policy and program decisions
- Determine impact of policies
- ...

## Individuals

- Manage career planning and development
- Determine skills required
- Get info on projected growth or decline by occupation
- ...

## Labor market intermediaries

- Provide information to employers
- Provide information to job seekers
- Plan services for clients
- ...

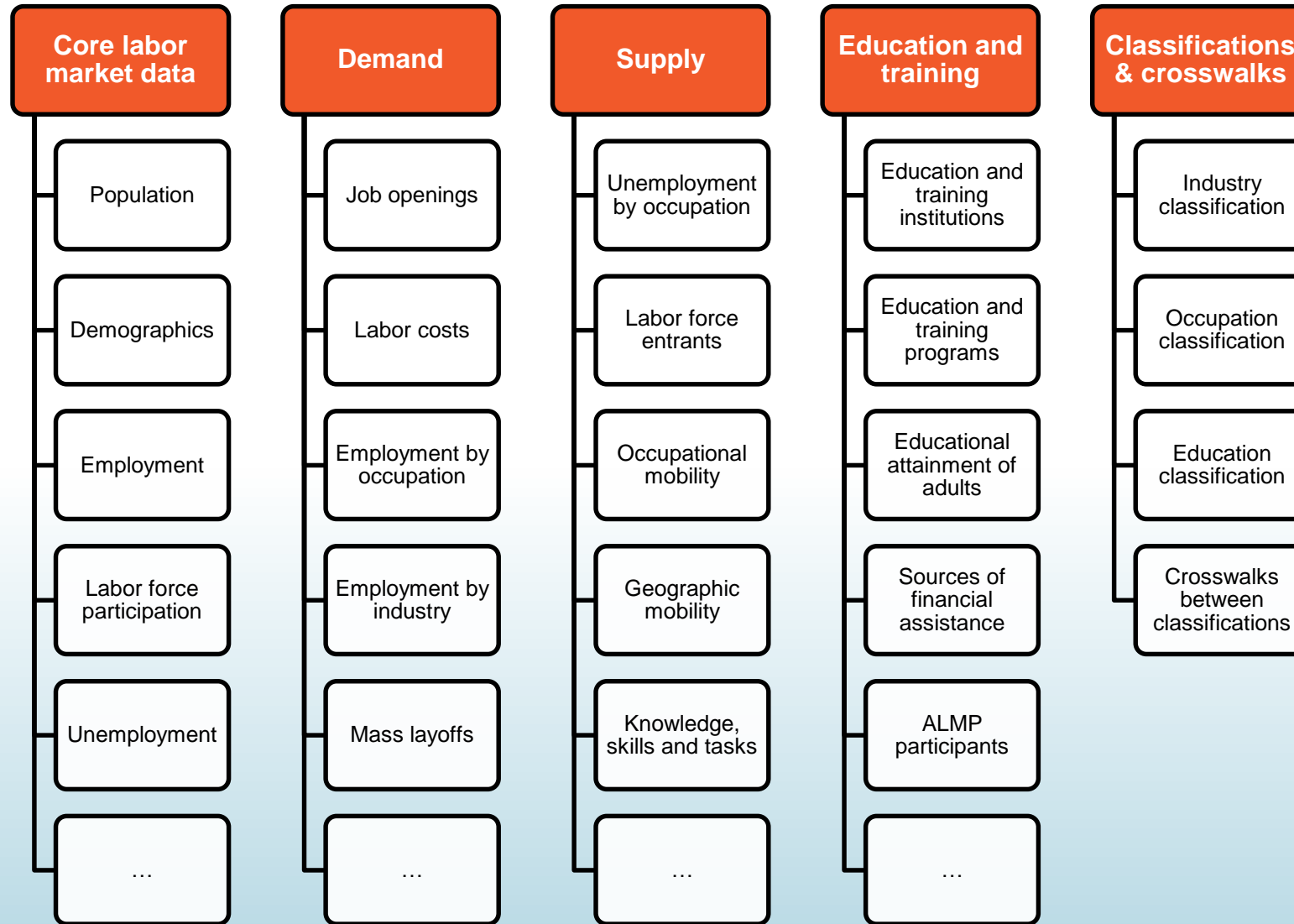
## Employers

- Determine appropriate wages and benefits
- Assess the quantity & quality of the labor pool
- Assess economic conditions to determine future plans

## Education / training providers

- Determine programs, curricula, and career services
- Determine demand by occupation
- Identify training sources
- ...

# LMI types



# LMI sources

## Surveys

- Household surveys
- Enterprise surveys
- Surveys of education providers
- ...

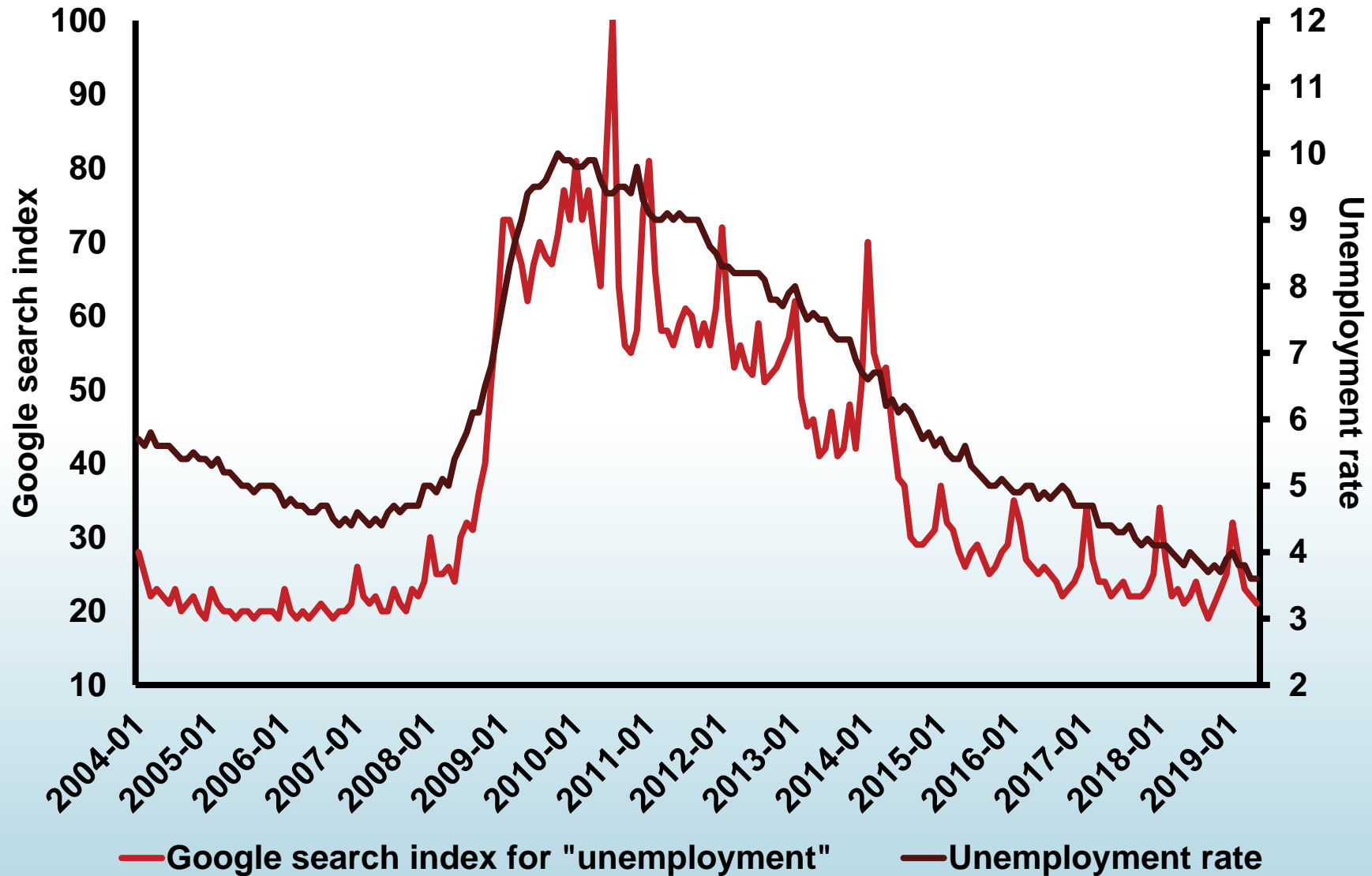
## Administrative data bases

- Unemployment insurance records
- Employment services' records
- Education providers' records
- ...

## New sources of LMI

- Jobs listings
- Online searches
- Job candidates' resumes
- ...

# Example of new sources of LMI





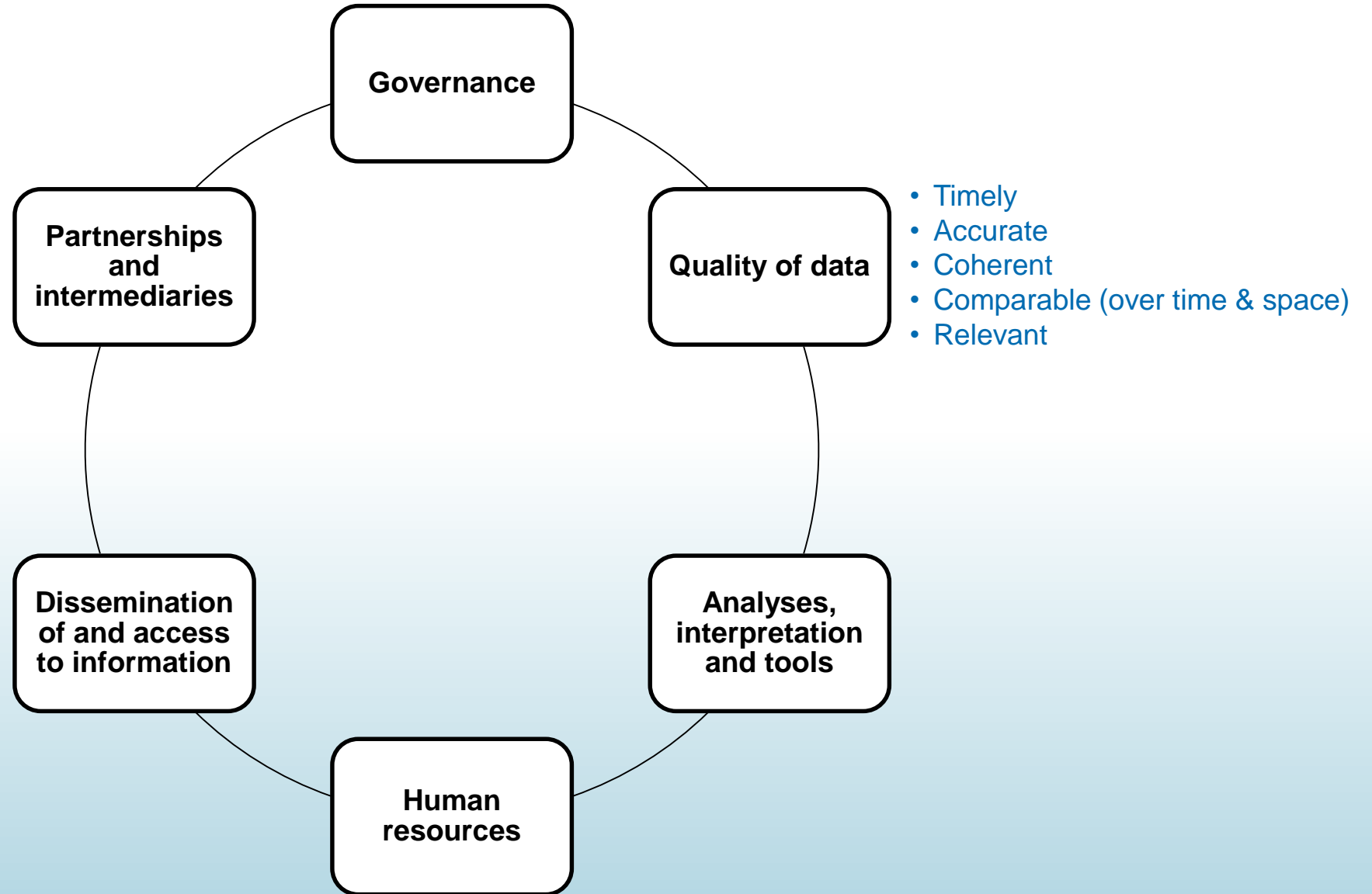
# Old vs. new sources of LMI – Overview

- ❖ **Traditional LMI (government-collected censuses, surveys, and administrative data) is representative, but time-consuming and costly to collect**
- ❖ **New sources tend to be cheap to collect, to be generated constantly (“real time”), and to offer rich data (“granularity”), though there are concerns about representativeness**
- ❖ **There are many applications of these new sources of LMI**
  - The Central Bank of Ireland is using clicks on job ads to measure labor market tightness
  - EU’s CEDEFOP is using online job ads to analyze skills requirements
  - Lots of research has been done in the US (monopsony, skills needs, job search)
  - World Bank: Malaysia, Kosovo, Moldova, India, Turkey, Ukraine, Indonesia, China (and likely others)
  - ...

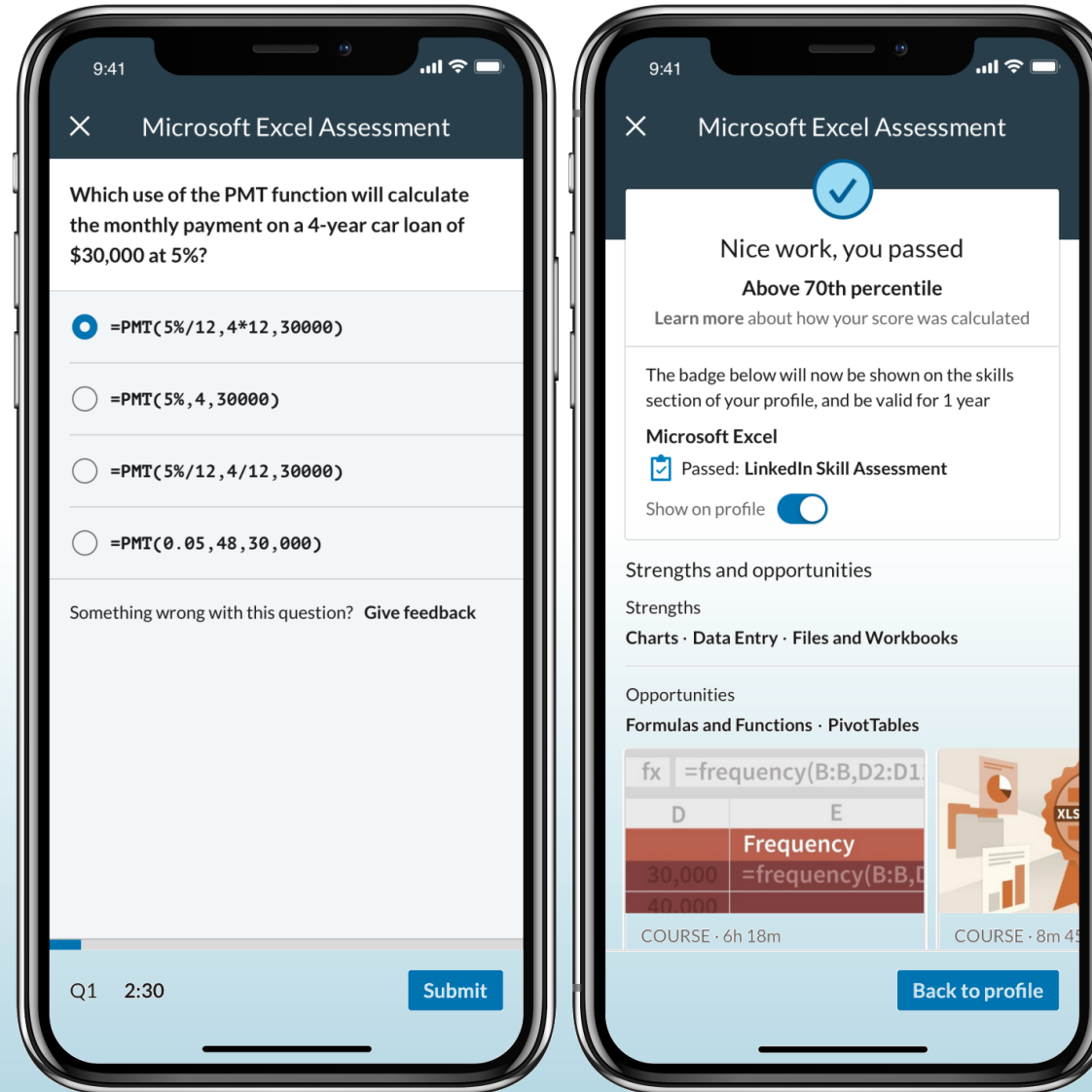
# Old vs. new sources of LMI – Job vacancies

	Traditional LMI	New LMI
WHO	Collected, analyzed, and reported by government agencies	Gathered and organized by private companies
COSTS	Usually all information available for free	Much information available for free (e.g. basic vacancies); paid licenses for others (e.g. job matching services for employers)
COVERAGE	Potentially covers virtually the entire labor market	Covers only jobs advertised online (selection?)
TIMING	Available on a monthly basis (at best) and with a significant lag	Often updated at least once a day and available almost immediately
DETAIL	Lacks detail about specialized skills in demand; may not keep pace with changing, current employer demands	Provides detail on skills/tools or technologies used, certifications preferred, and new and emerging job needs
GEOGRAPHY	Provides national data and sometimes data for states and major population areas	Detailed data by state, region, or population area
POSSIBLE QUERIES	Job information available by occupational or industry category, and in some products or tools, by title, skill or keyword search	Can search job listings by job title, occupation, industry, keyword, skills, certification, or other attribute

# Implementation factors



# Example of skills assessment tool



# Dissemination of LMI

## Data repositories

Provide easy access to data without necessarily organizing information for specific uses

Targeted at specialized users for research, policy making, tracking trends in the economy, etc.

## General web / mobile applications

Designed to meet the needs of several different clients (e.g. job seekers and employers)

Include a variety of tailored paths through the system for different groups of users

## Customized web / mobile applications

Designed for a specific service, such as career information, skills certification, or front line decision support

Must include logical processes to navigate through the information in the context of specific user needs

## Hard-copy products

Remain an important way of reaching users through schools, employment services, newspapers etc.

Should be designed to complement web / mobile applications

➤ **Do not emphasize outputs but how LMI products and services can most effectively and efficiently serve clients.**

# This session's case studies

**This session's case studies will highlight innovative examples from around the world of both traditional and new sources of LMI and their uses**

- ❖ **Kenya:** building a labor market information system
- ❖ **Malaysia:** creating occupational profiles for in-demand occupations
- ❖ **Turkey:** providing jobseekers with LMI to persevere in the job search process

# Questions to course participants

**What types of LMI do you use in your day to day work, if any?**

**Are you aware of any new or innovative sources of LMI in your country?**

**Can you share any innovative approaches for disseminating LMI in your country?**

# Thank you!

**Sources and further reading:**

Belot, Kircher and Muller (2019): Providing Advice to Jobseekers at Low Cost: An Experimental Study on Online Advice. *Review of Economic Studies* 86: 1411–1447.

Brookings Institution (no year): Brookings Institution LMI Forum: Real Time Labor Market Information. Brookings Institution, Washington, DC.

Dorrer (2016): Using Real-Time Labor Market Information to Achieve Better Labor Market Outcomes. Lumia Foundation, Washington, DC.

Johnson (2016): Can Big Data Save Labor Market Information systems? RTI, Research Triangle Park, NC.

Maier & Maier (2016): Promising Practices in Leveraging Traditional and Real-time Labor Market information. Maier & Maier, Neptune, NJ.

Woods and O'Leary (2006): Conceptual Framework for an Optimal Labour Market Information System, W.E. Upjohn Institute, Kalamazoo, MI.