

Employment policies for a job-rich recovery and a better future of work Fourth ILO Employment Policy Research Symposium

Session 4: LABOUR MARKET DATA GAPS ON SKILLS NEEDS

Ms. Olga Strietska-Ilina, Work Area Lead "Skills Strategies for Future Labour Markets", ILO, Geneva



General data gaps on skills

- Skill needs, especially future skill needs
- Financing of education and training by type and level
- Participation: enrolments, graduation and drop out rates
- Adult learning participation, funding
- Work-based learning, apprenticeship training
- All of the above by sex, age, migration status



Use of results of skills needs anticipation and assessments



Design/update of competency standards

Matching skills & jobs and career counselling



How to measure a skill?

Testing a skill? (competencies)

Proxies:

- Occupations
- ☐ Jobs / job tasks
- Qualifications
- ☐ Education / training type / subject / level
- Vacancies

SKILLS SUPPLY:

What skills are, or will be available in the labour market in terms of the number and structure of the labour force:

- <u>Stock</u>: Labour force and skills available on the labour market
- <u>Flows</u>: currently in studies, expected to graduate; returning to the labour market.
- <u>Data on</u>: population, enrolments, graduates, job seekers...

SKILLS MISMATCH:

Imbalances between supply and demand of skills

- Unemployment by skill level
- Skills-shortage and hard-to-fill vacancies
- Skill shortage
- Qualification mismatch
- Skills gaps
- Skills obsolescence
- Horizontal mismatch
- Vertical mismatch
- Over/under-qualification

SKILLS DEMAND:

Which skills are needed, or are likely to be needed in the future in the labour market

- Expansion demand: caused by economic growth
- Replacement demand: caused by people leaving the labour force
- Data on:
 - Employment by sector/occupation/edu cation
 - Job vacancies (available jobs) and jobs-to-come,
 - Job-task skills requirements





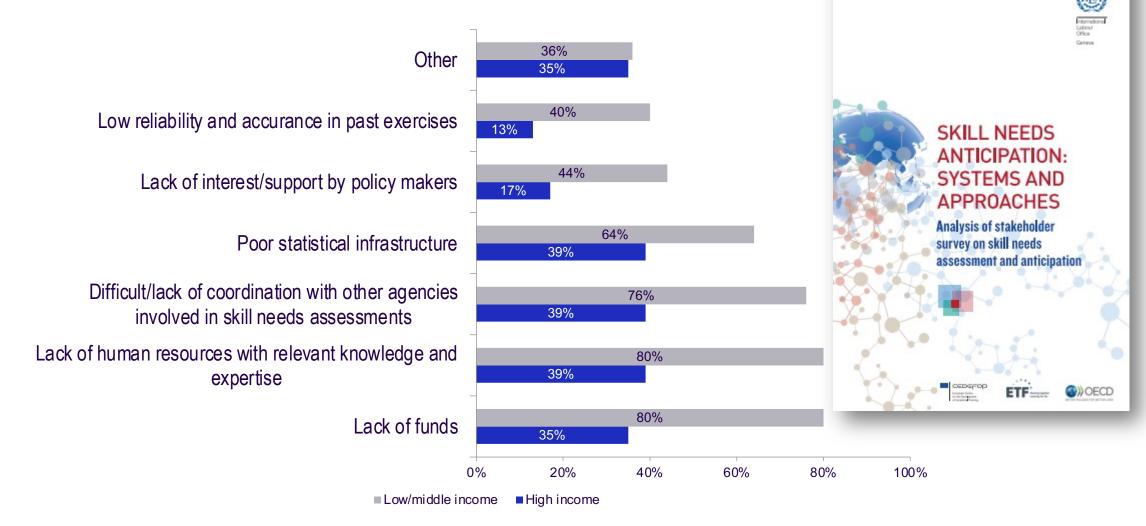
Key data gaps for skill needs measurement in low and middle-income countries

- Irregular or non-existant Labour Force Surveys; short time series, small samples.
- Education admin statistics of low quality
- No record on adult learning, work-based learning, apprenticeship training
- Surveys among establishments (ESS) or individuals (STWT) are only ad hoc
- No or poor vacancies data. Online job adds (Big Data) have very little coverage in relation to developing countries labour markets due to high informality and high share of blue-collar occupations
- PES rarely collect regular data for matching
- No data on wages or pay
- Tracer studies only ad hoc
- No skills taxonomies that would measure skill and bridge this information with occupations



Obstacles in further development of skill needs activities,

(% national ministries)



Essential components of skills needs anticipation system



Institutional Mechanisms

- Policy coherence
- Social dialogue
- Coordination



Analytical capacity

- Quality research
- Robust methodology application
- Making sense of different pieces



Methods & Tools

- · Quantitative and qualitative
- Combine in a complementary way



Data

- Data availability
- Data access
- Data flow

Labour Market Information (LMI)

Skills needs assessment and anticipation



Key challenges emerging from 5 mapping exercises in Africa

- Lack of regular, representative, reliable, good quality data collection and its reporting /dissemination.
- Lack of involvement of social partners along with relevant ministries at all stages of data collection
- Inadequate capacities of LMIS players to effectively collect, analyse, interpret and validate
- Governance for LMIS does not fully exist as institutions are fragmented, implementing interventions separately and often working in silos in an uncoordinated manner,
- Weak link between education system and industry; Inadequate adaptation of the vocational and technical training system to the needs of the productive sector.
- Underdeveloped network of public employment services, low institutional and resource capacity of employment services to support job seekers and employers.



Potential solutions to the challenges

- Strengthening coordination and institutional platforms linking to the broader skills governance system
- Strengthening capacities of institutions responsible for data collection (such as NSOs, PES) and analysis
- Increased investment in data and analysis collection methods
- Apply more qualitative approaches, sector level research, foresights with the direct involvement of social partners
- Using digital technologies for systematic feedback (ILO's Service Tracker)
- Adapting existing analytical methods and indicators to developing countries
- Combining big and "small" data
- Adapting methods quickly to new situations, such as COVID-19.



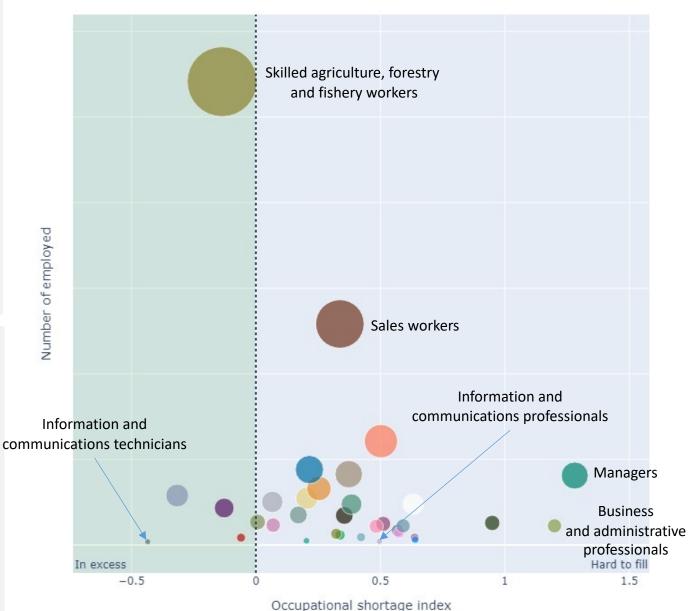
- Composite indicator to measure skill mismatches
 - 1. hours worked
 - 2. employment growth
 - 3. hourly wage growth
 - 4. proportion of underqualified
 - 5. unemployment rate
- Details on skill content from O*NET¹ used to map occupation shortage/surplus to skills.



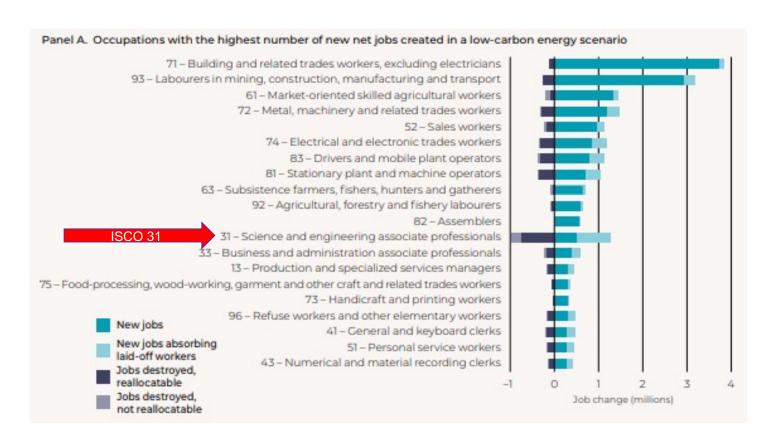
Adapting Skills for Jobs indicator for low and middle-income countries

- Adapt the approach and extend the database to low and middle income countries.
- In future: dropping some elements, adding big data, using other than O*NET US taxonomy.

Scatter plot of skill mismatches by occupation groups of Thailand, 2020



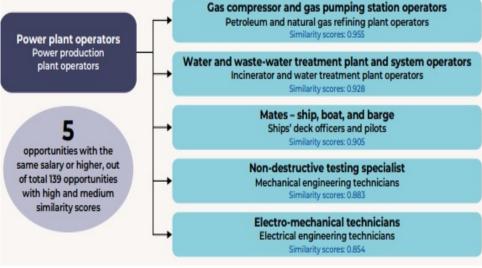
Experimenting with data integration: Skills for a Greener Futue - Energy sustainability scenario, 2030



Source: ILO (2019) Skills for a Greener Future.

Energy sustainability







Quickly adapting to COVID-19: ILO Rapid **Assessments of** reskilling and upskilling needs due to the COVID-19 (2021)

Implemented online/ by phone

KEY FINDINGS FROM THE SURVEYS OF EMPLOYERS AND INDIVIDUALS

Covid led to many job losses in sub-Saharan African countries

of survey respondents unemployed pre-pandemic

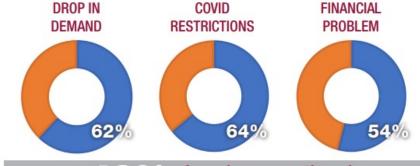
of survey respondents unemployed during the pandemic

percentage point increase in the number of survey respondents

Employment has contracted across most sectors and occupations, especially in:

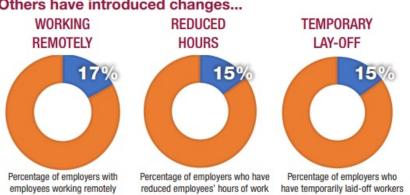
- · sectors dependent upon exports - notably tourism
- · relatively low skilled workers

Why did employers reduce their number of employees?



of employers continued to work as usual

Others have introduced changes...



Note: Data used for 9 African countries

- 5029 individuals and 1801 employers

Where those in work say they would need retraining to find a new job:

say they will need training in occupation specific / technical skills

digital skills

42% administrative skills

4.0% management skills

33% skills for green jobs

language skills

literacy and numeracy skills

Where unemployed people say they need training to find a job:

say they will need training in occupation specific / technical skills

36% digital skills

41% administrative skills

33% management skills

28% skills for green jobs

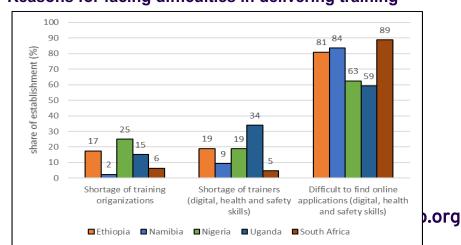
language skills

literacy and numeracy skills

Training is not always easy to find and access

of employers providing training faced difficulties doing so

Reasons for facing difficulties in delivering training





ILO skills needs anticipation resources

