



Industry Leadership in the Vocational Education and Training

ILO - Indonesian Maritime Sector National Dissemination and Workshop

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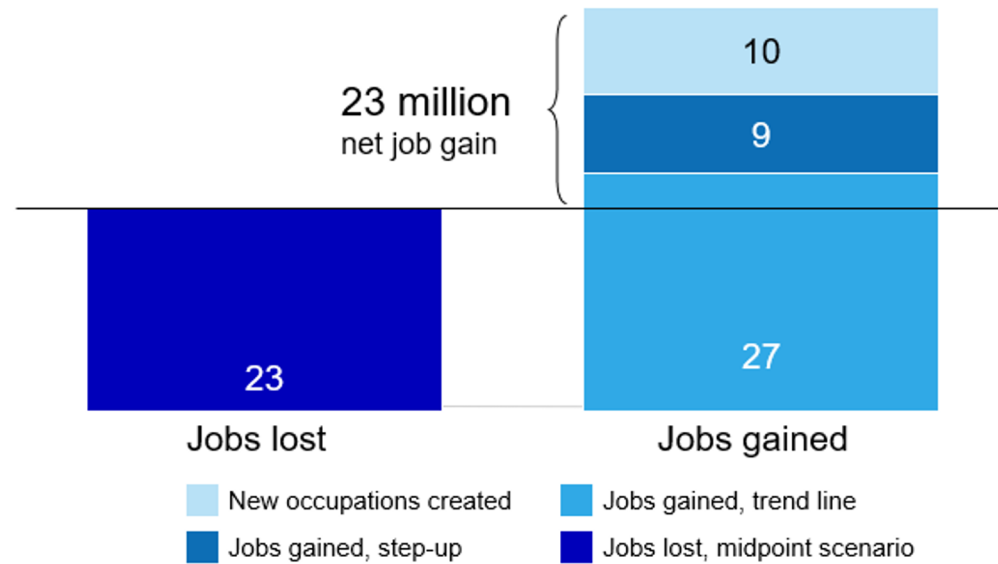
Jakarta, May 31, 2023

Industry 4.0 and Society 5.0 in Indonesia will drive net job gain of ~23 million jobs

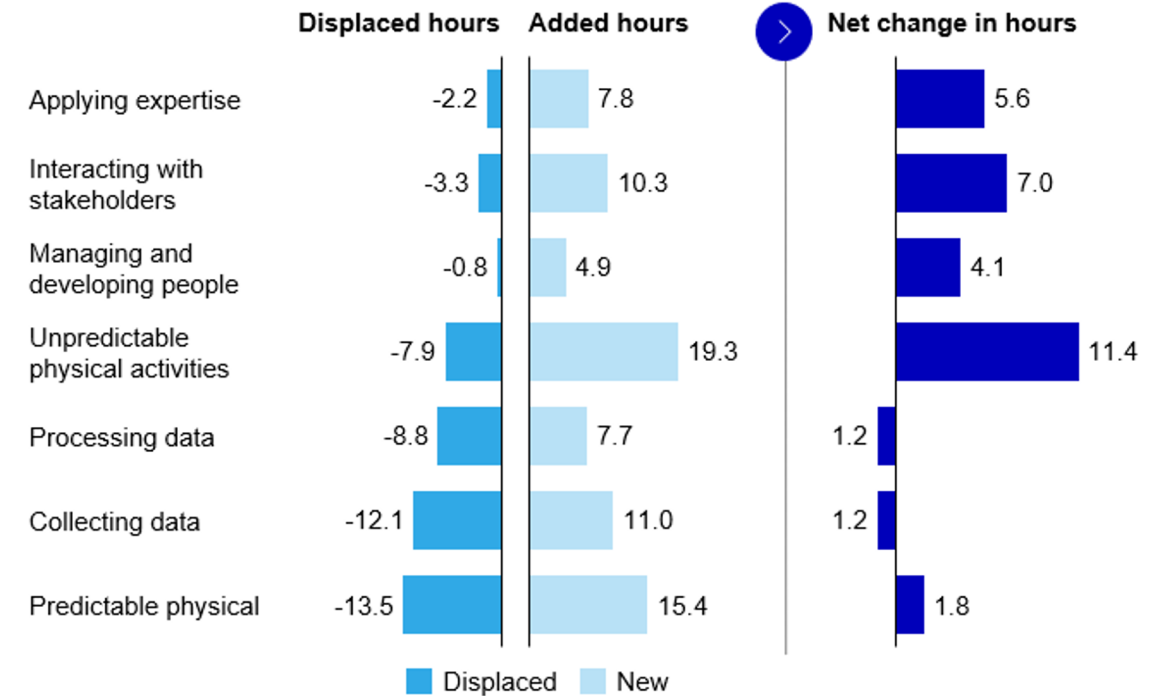


PRE-COVID

Automation scenarios and additional labor demand from seven catalysts, 2014–30, million



Total work hours by skillset, 2014–30, Billion



To prepare Indonesia in entering the Industry 4.0, the workforce needs to be prepared for the future demand of work through **mass reskilling and educational system reformation**, which includes developing a more demand-driven vocational education system as a key lever of success

1. Estimated pre-COVID, but trend expected to remain the same

Opportunity to enhance workforce skills through vocational education and training



Vocational education and training is strategy to solve Indonesian current workforce challenges

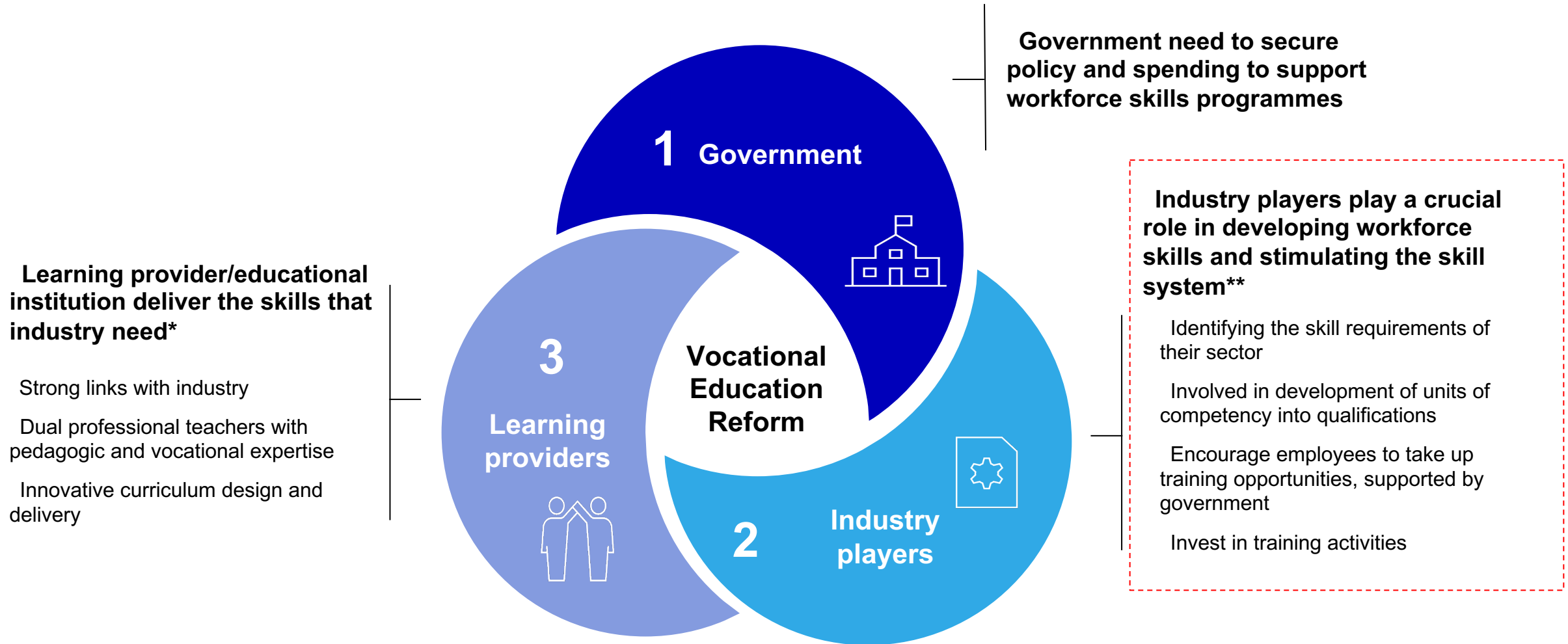
Provides learners with essential skills enhancing their employability

Allow learners to complete job-related task that are particularly important in workplace

Help workers to operate mode efficient and effectively

To take advantage of the peak of demographic bonus in 2030, Indonesia need to rapidly upgrade workforce quality through vocational education and training since academic education is a long-term strategy

Integrated ecosystem for demand-driven vocational system strongly drive to industry leadership



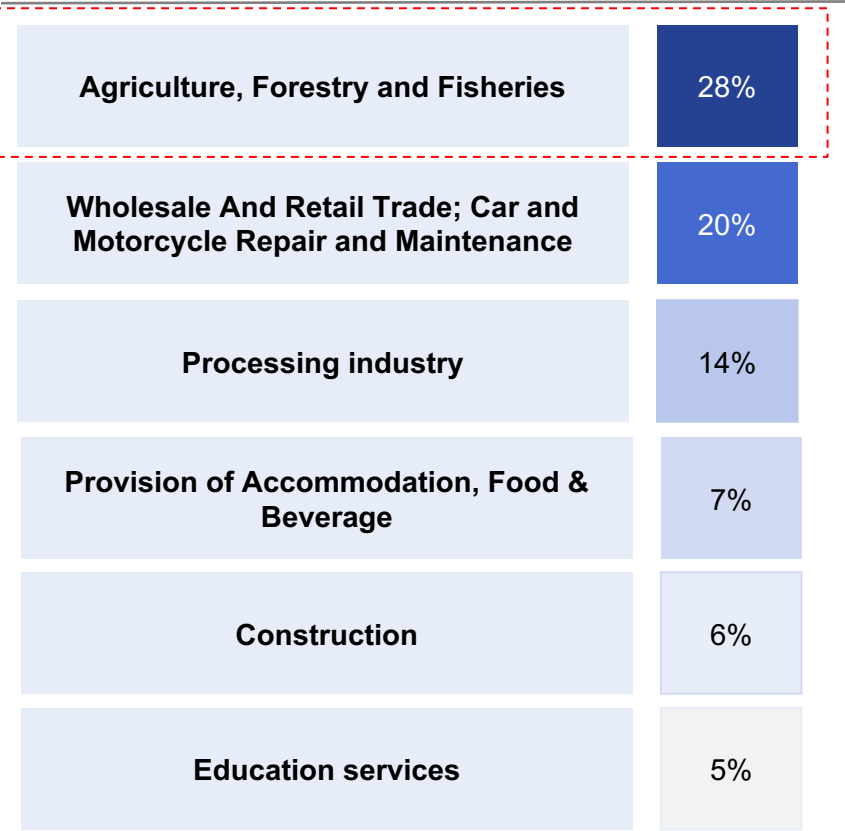
*British Council, 2020

**Skills Impact, 2023

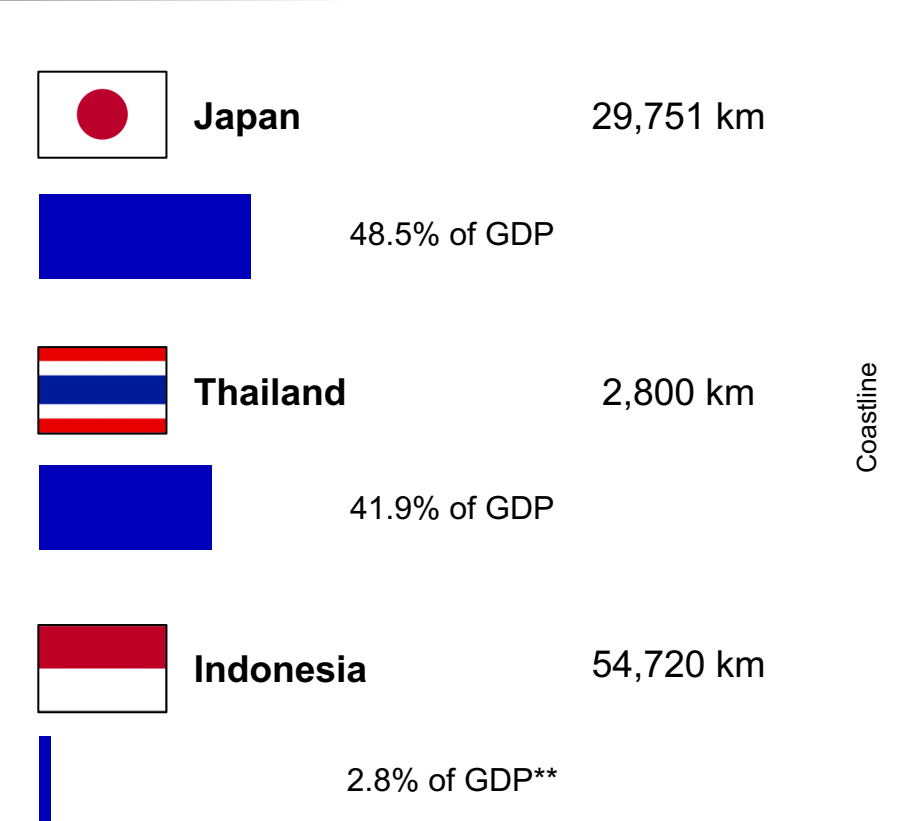
Government initiatives to boost economic prosperity need to be followed by a targeted workforce development programme



Top 6 jobs that contribute to 80% of the overall labor force in Indonesia*



Comparison of marine sector contribution to GDP



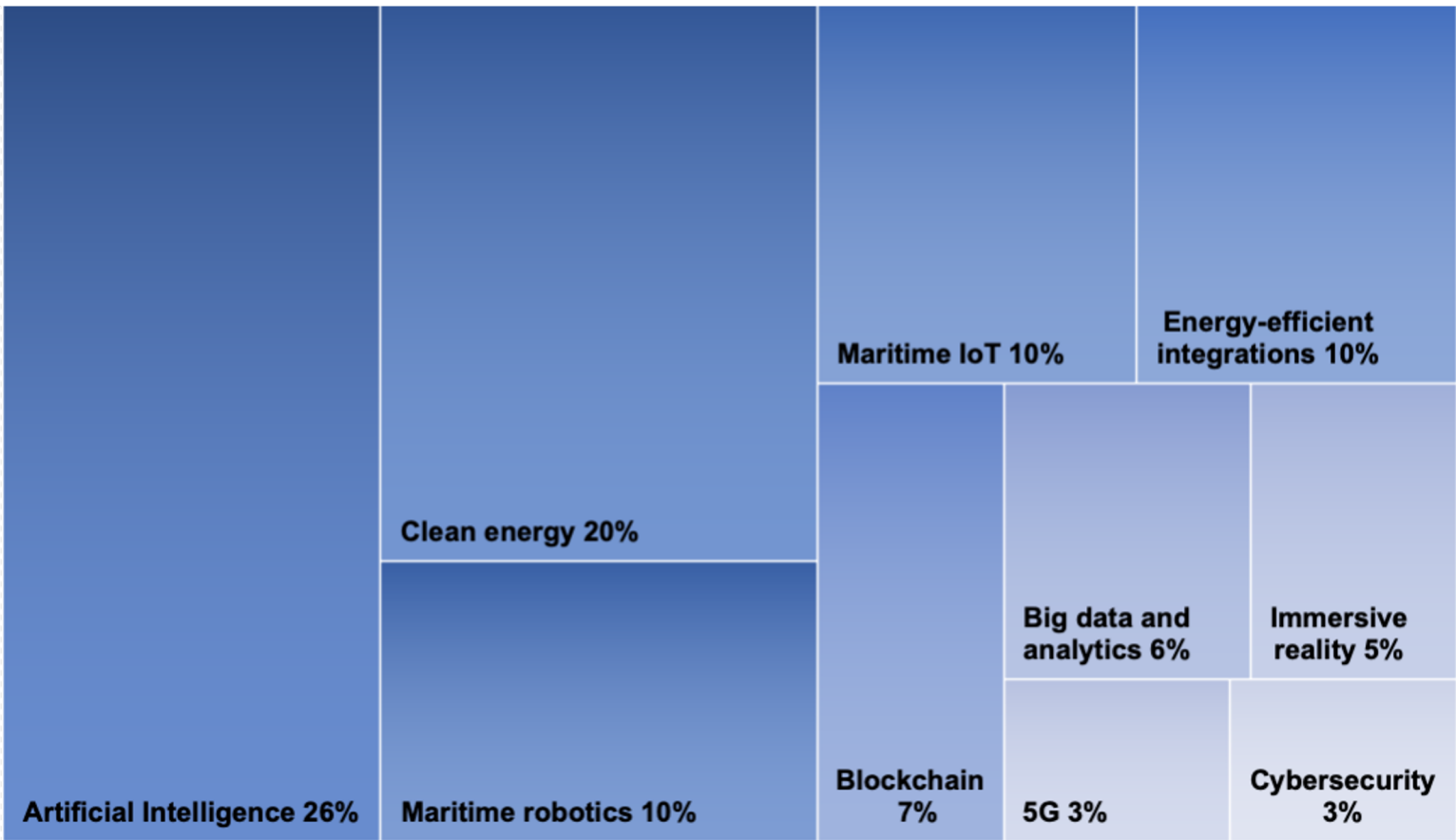
*McKinsey, 2022
**Kemenkeu, 2022

Marine sector is one of potential area to be developed as government targets blue economy can contribute 12.45% to the Indonesian GDP in 2045

Workforce qualifications need to follow the industry trends - the case of maritime sector



Top 10 Maritime Trends and Innovations 2023



For the future, Indonesia Maritime Sector need to expand its focus in technology-based innovation to escalate the result of marine business (fisheries, logistic, tourism, etc.)

Maritime workforce also need to be exposed to a new skill set in order to increase wage and escape the middle-income trap

Source: StartUs Insights, 2023

Developing industry sector need a solid cooperation between the stakeholders



Government provide roadmap, policy, programmes, and incentive (if needed)



Industry players create innovation that leads to high-skilled job



Learning providers adapt the on-going and future skill need



KADIN INDONESIA