

GR-2024-21 | 2024 LENS | INDONESIA · MALAYSIA

# Palm oil and AI: verify the yield improvement

Digital monitoring must be linked to physical yield records and field action.



Illustrative photograph; no project or client endorsement implied.

## THE EVIDENCE

WEF Future of Jobs 2025 reports 63% of surveyed employers see skills gaps as a barrier to transformation; the result is cross-industry, not palm-specific.

## THE BUSINESS IMPLICATION

For the 2024 lens, prioritise missing harvest, transport delays and disease scouting before complex prediction. Compare pilot blocks with matched controls and log interventions. Combine imagery with ground truth instead of treating vegetation indices as directly bankable cash.

## WATCH THE DOWNSIDE

Weather, palm age, access roads and labour can confound the measured effect.

## DECISION FRAMEWORK

|         |                                    |
|---------|------------------------------------|
| Measure | Block-level baseline and control   |
| Act     | Who receives and closes the alert? |
| Value   | Incremental margin after all costs |

## COMMISSIONED SCOPE

Pilot design, estate data audit, ROI model and agronomy/technology partner coordination.

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## SOURCES & METHOD

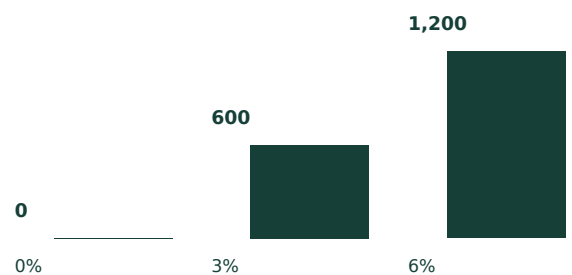
1. WEF, Future of Jobs Report 2025

Source links are clickable. Image credit and full source URLs appear in the online brief.

Newly published 20 Sep 2026; year denotes subject lens. Scenarios are illustrative, not investment forecasts. Full reports are commissioned under a separate scope and fee. No assurance of funding.

## Illustrative value of yield improvement

Unit: additional tonnes



Assumed estate output 20,000 tonnes/year; incremental tonnage before costs. Not an agronomic forecast.

