

THE FRUITS AND VEGETABLES INDUSTRY SERIES

10 Avril 2025



Session nº9

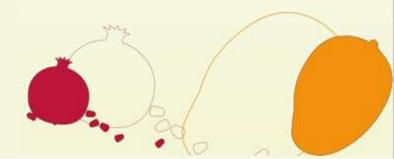
Impact of Labour Shortages in the Fruits and Vegetables Industry (F&V)















EMBRACE SAFETY, BECOME AUTONOMOUS

Autonomous solutions for Fruits and Vegetable

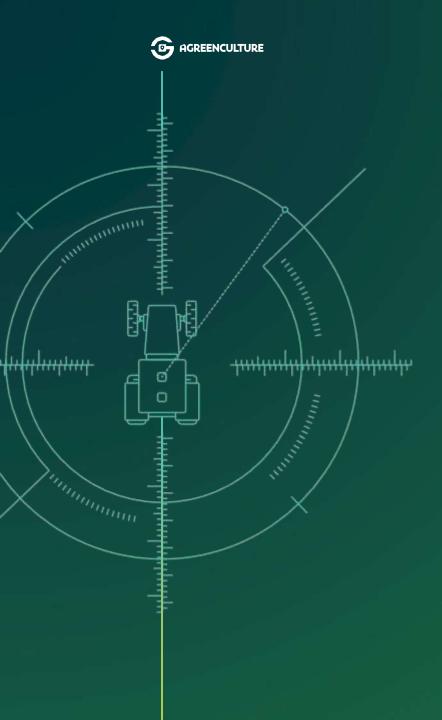
Christophe Aubé CEO Robagri











O I Labor challenge for Fruit and Vegetable farming

Challenge and solution for harvesting and time consuming activities

Supporting sustainable food production without increasing labor shortage



LABOR SHORTAGE FOR F & V



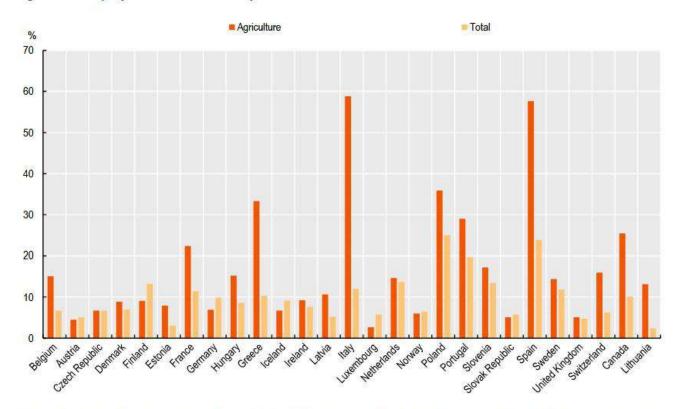


What activities are facing labor shortage?

Figure 2.4. Occupational shortage indicator for agriculture, forestry, and fishing

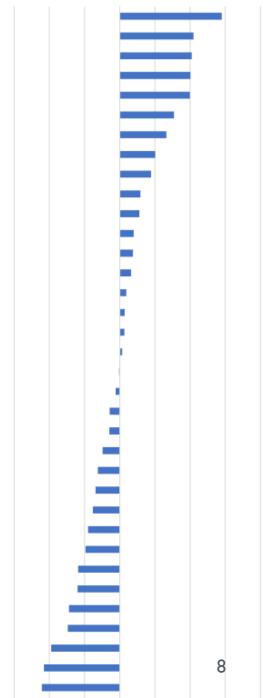
Figure 2.3. Temporary employment in agriculture compared to overall temporary employment, people aged 25-54, 2011-12

Percentage of all employees in each industry

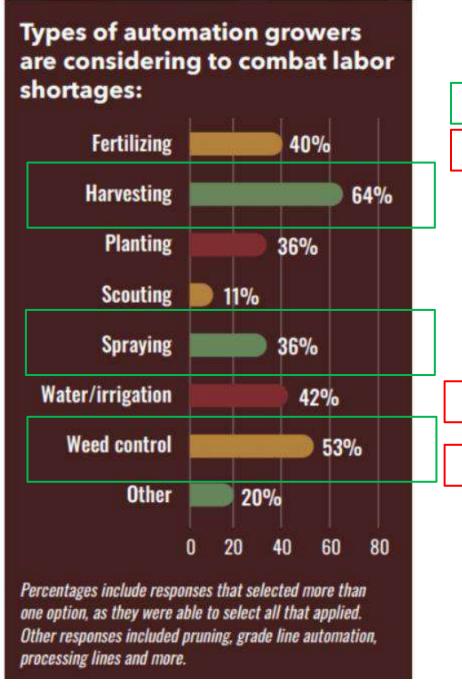


Source: OECD calculations based on European Union Labour Force Survey (EU-LFS) microdata and national labour force surveys from OECD (2014), OECD Employment Outlook 2014, OECD Publishing, Paris, https://doi.org/10.1787/empl_outlook-2014-en.

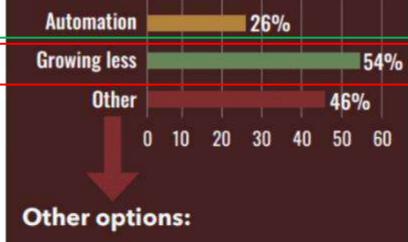








How growers plan to address labor shortages in 2024:



- Exploring alternative labor sources (2.56%)
- Diversifying operations (2.56%)
- Exiting business (7.69%)
- Adjusting marketing strategies (5.13%)
- Uncertain future or closing down (3.85%)
- Extended working hours (3.85%)
- Exploring government programs (8.97%)
- Infrastructure Investment (2.56%)
- Cost considerations for H-2A program (1.28%)
- Adapting harvesting practices (1.28%)
- Labor optimization and efficiency (3.85%)



HARVESTING AND PICKING SOLUTIONS







Other robot for apples picking





Soft fruits harvesting





Robots for harvesting strawberry





Support for harvesting or pruning to decrease the workload







MORE SUSTAINABLE FOOD PRODUCTION INCREASES LABOR SHORTAGE



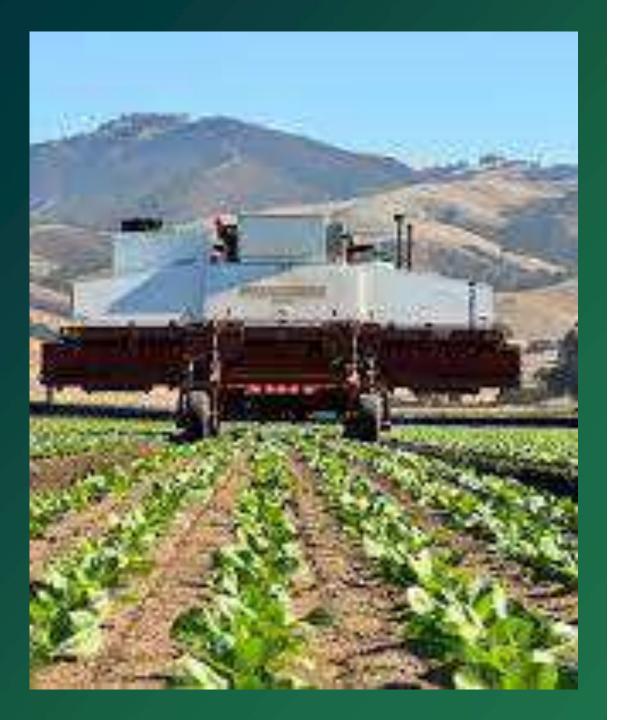


KFAST Kubota:

Autonomous spraying solution for Apple, Almonds, Olives, Orange

Up to - 50% of pesticides

2 times slower than equivalent tractor with driver



Carbon robotics

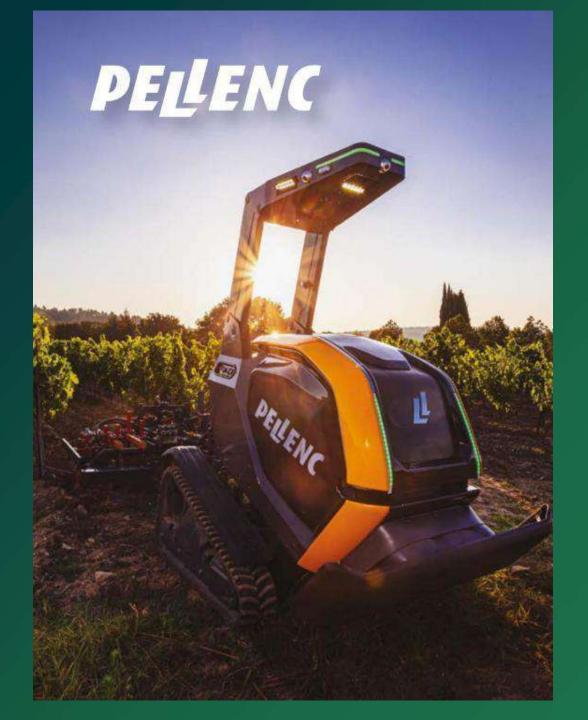


Laser weeding to avoid using pesticides

0,5 km/h for 4 - 6 m wide

instead of up to 40m wide at 12km/h





Rx-20 from Pellenc

Mechanical weeding for perennial crops

Up to 2 times less energy per ha for weeding but 1,5 slower than a tractor with a driver





Aisprid: robot to smoothly remove unwanted leaves

Reduce the disease exposure and increase crop health



THANKS A LOT

Free up time for what really matters







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Thank you









