



# Using data to save resources and empower shopfloor staff

## Zero Defects 4.0





# Ensuring a consistently high level of product quality is increasingly a challenge



Higher quality standards from clients

Defects generate wastage of resources

Product combinations multiplying



EIT Manufacturing is supported by the EIT, a body of the European Union



# Develop a decision support system to improve manufacturing decision making



Could we use data and artificial intelligence to reduce defects and save resources?



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# Recommendation system for quality

- **analyzes** production orders
- **checks** raw materials conditions
- **predicts** defects per production order
- **signals** quality issues
- **recommends** concrete actions to staff

Currently being tested at one of Sonae Arauco's industrial sites

Production ZERO DEFECTS

Line 9

MDF ST E05/CARB2 L3031/L031 2850X1220X16 P

Code	5124583297
Last update	10/10/2020 19:10
Defect Probability	<b>93%</b> <b>External impregnation</b>

**Recommendations**

Type	Value	Recommended
thermofluidTemperature	286	↑ 346.7
topPlateTemperature	208.5	↓ 159.1
bottomPlateTemperature	605.6	↓ 532.4

- **improving product quality** (through the reduction of defects)
- **promoting better use of resources** (wood, chemicals, energy, time...)
- **helping shopfloor staff** (through better decision making)

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**Using data to save resources and empower shopfloor teams**





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