


Robotization and scanning in the global distribution of drugs: impact on rate of error and efficiency

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Distribution is a source of errors that can affect the safety of patients.
Ensuring a high-quality supply to all departments is a daily challenge.
Robotization and scanning are potential solutions to human errors.

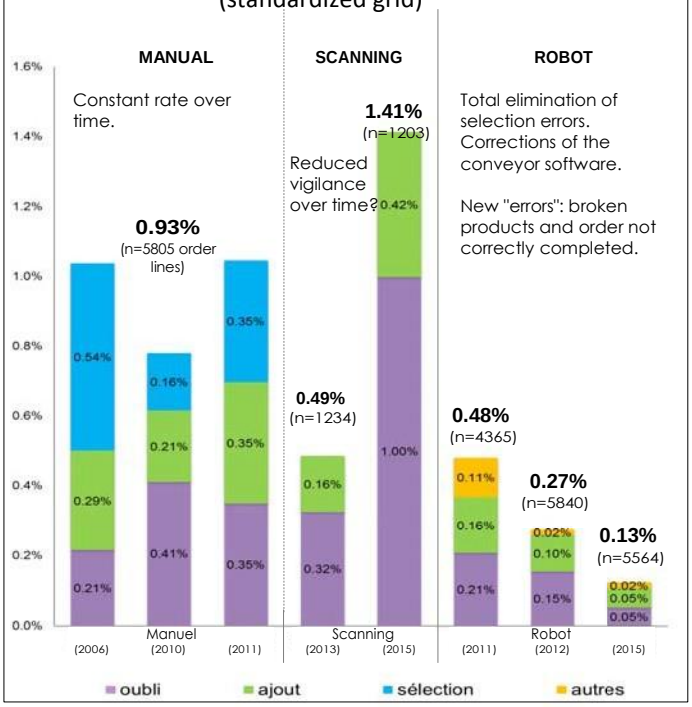
Aims: To evaluate the impact of robotization and scanning on the rate of error and drug distribution time

MANUAL DISTRIBUTION

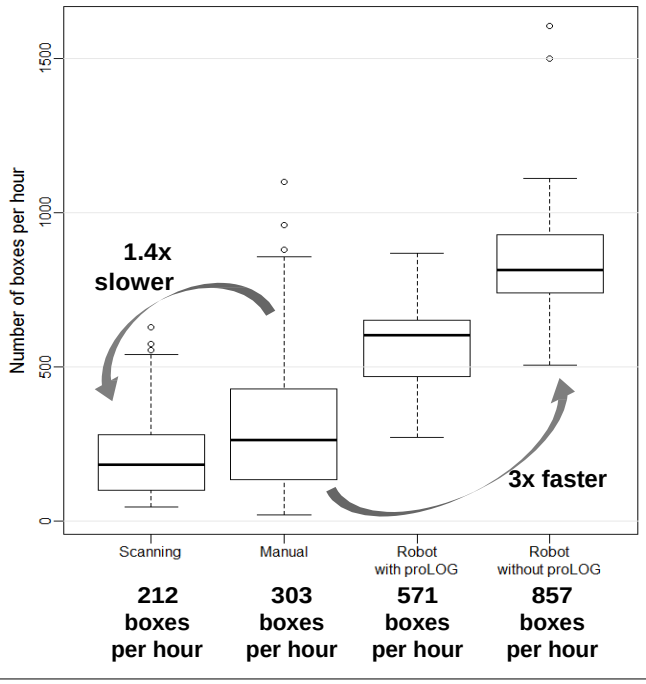
SCANNING

ROBOT

Improvement in **SAFETY**:
Impact on distribution **ERRORS**
(standardized grid)



Improvement in **EFFICIENCY**: impact on distribution **TIME** (random orders)



The robot makes it possible **to reduce, by more then 7 times, the relative risk of an error** in the preparation of orders, **while gaining speed.** In order to gain efficiency, **the automatic loading system** (Prolog) **is put into operation at night** or when there are fewer orders.
Despite a longer distribution time, scanning **eliminates selection errors** - the most dangerous ones – but at the expense of increasing quantity errors. **An awareness campaign** will be conducted among the team in order to counter this **reduced vigilance**.

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