

# Prospective Assessment of the Economic Implications of Automating Chemotherapy Preparation in a Comprehensive Cancer Center

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## Context and objective

CCC expansion project:

- +30% increase in activity over 5 years
- CCPU: deployment of an APOTECACHEMO® robot in early 2026
- **Objective:** evaluate the economic implications of this installation



## Methods

- Prospective economic analysis in collaboration with the financial management and medical information departments
- 2 scenarios analyzed:

- « WITH ROBOT »: 2 double-station isolators + 1 robot
- « WITHOUT ROBOT »: 3 double-station isolators



**Variable costs**  
• Employees  
• Supplies

+

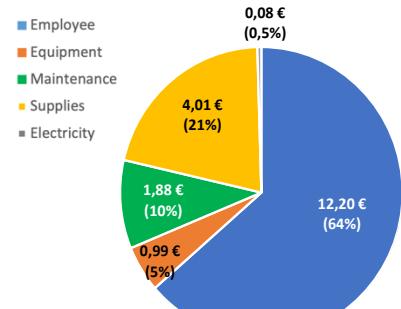


**Fixed costs**  
• Equipment  
• Maintenance  
• Electricity

- Average cost per preparation
  - Return On Investment
  - Breakeven point

## Results

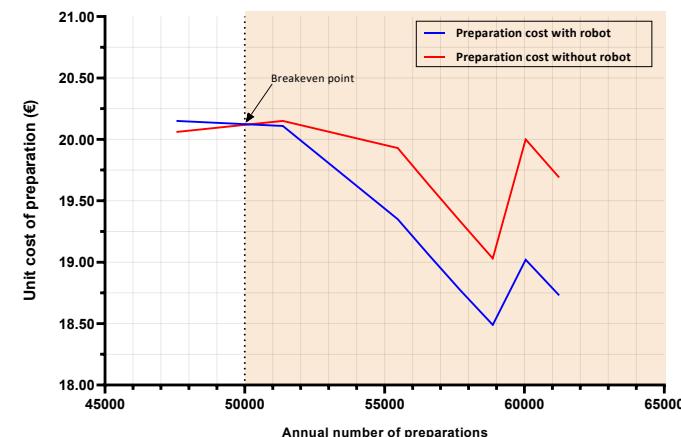
**Cumulative costs over 8 years**  
**244 659 € favoring robot**



**Average cost per preparation**  
**19.21 €**

**Return On Investment (ROI)**  
**5.8 ans**

**Breakeven point**  
**50 000 prep./an**



## Discussion - Conclusion

- Significant part of the supplies cost—Captive medical device issues
- Positive economic impact but lower than data from literature (breakeven point of 34 000 preparations/year for Masini et coll.) → local factors to be considered
- Investment to be considered as a whole: risk of error, chemical contamination, MSDs