



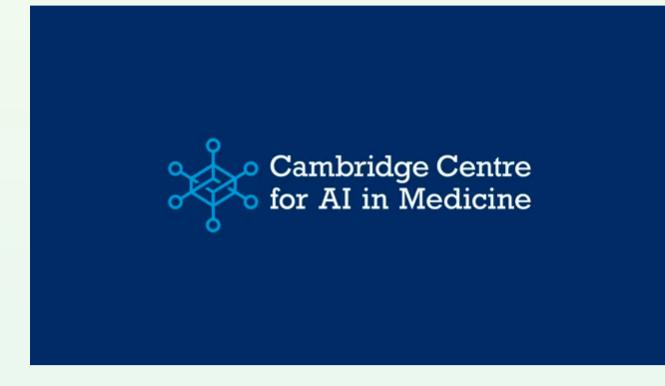




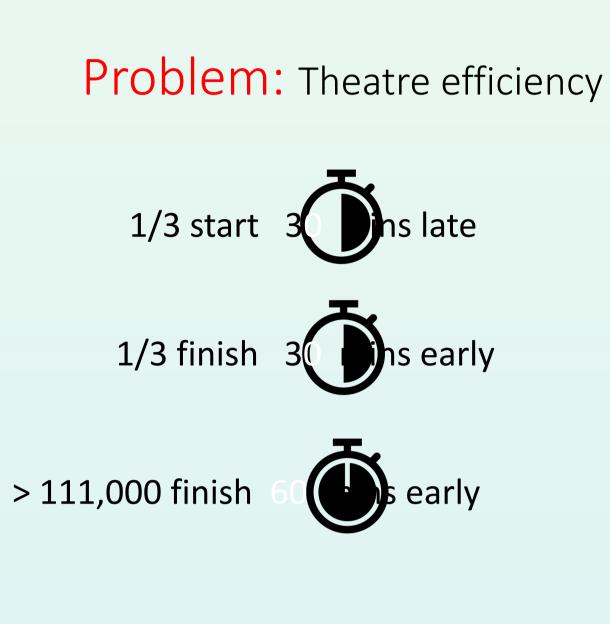
## Machine learning to improve Elective Operating theatre efficiency

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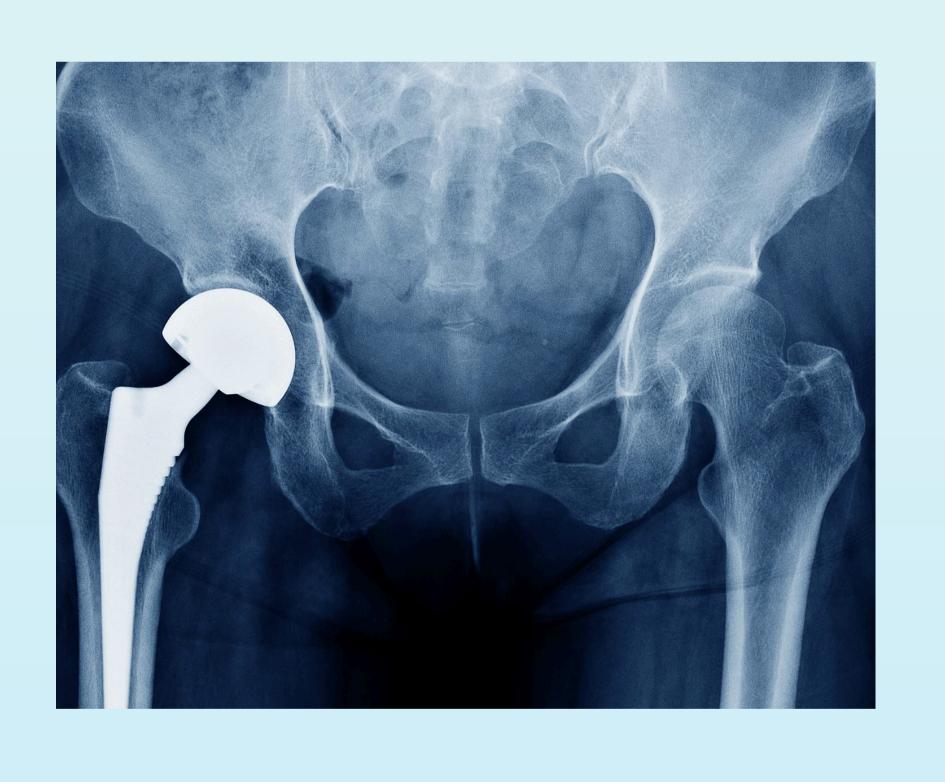


291,327 more operations



## **Elective hip** replacements

- Nearly 100,000 performed in the NHS in 2019
- Likely to continue being funded
- Waiting list is at 7.3 million
- Average waiting times 55 weeks
- Average time for procedure 60-150 minutes



## Improve theatre efficiency

- Aim to accurately predict duration of procedure at time of listing
- Optimise theatre list to maximise theatre utilisation
- reduce early finishes and account for expected delays



